



Guide to Geography Programs in the Americas

2018-2019

AAG



Guide to Geography Programs in the Americas 2018-2019

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ABOUT THE AMERICAN ASSOCIATION OF GEOGRAPHERS

The Association

The American Association of Geographers (AAG) is a scholarly, nonprofit organization founded in 1904 to advance professional studies in geography and to encourage the application of geographic research in business, education and government. The AAG was amalgamated with the American Society of Professional Geographers (ASPG) in 1948. From a charter membership of 48 in 1904, Association membership has grown to 11,795 at the end of 2018. Any person or organization interested in the AAG's objectives is eligible for membership. Most professional geographers in the United States and many in Canada and abroad are members of the AAG.

Membership Benefits

- *The Annals of the American Association of Geographers* (bimonthly)
- *The Professional Geographer* (quarterly)
- *The AAG Review of Books* (quarterly)
- *GeoHumanities* (biannually)
- The AAG Online Newsletter
- Participation in annual, regional and special topical meetings at reduced member rates
- Group insurance plans, including professional liability insurance
- Participation in AAG committees, commissions and projects
- Membership in one of nine AAG regional divisions
- Optional membership in up to six AAG affinity and specialty groups
- Discounts on AAG publications
- Discounts on selected journals and books from other publishers
- Engagement with a global community of leading geography researchers, scholars and educators through special AAG initiatives and through an extensive network of online collaborative resources

Specialty Groups and Affinity Groups

Affinity and Specialty groups sponsor annual meeting sessions and workshops, publish newsletters and engage in other activities that advance their professional and scholarly interests. The groups elect officers and report annually on their activities to the AAG Council. AAG membership includes participation (optional, at additional cost) in up to six specialty groups.

Annual Meetings

In recent years, over 8,500 individuals have attended AAG annual meetings, which are held in March or April. Delegates read papers, give poster presentations and participate in field trips, panels, symposia and workshops. Future meetings are scheduled for Denver (2020), Seattle (2021), and New York (2022).

Publications

- *The Annals of the American Association of Geographers* (bimonthly) contain major articles of scholarly interest to a broad audience, book reviews and commentary.
- *The Professional Geographer* (quarterly) features short articles on timely topics, book reviews and commentary.
- *The AAG Review of Books* (quarterly) holds scholarly book reviews as formerly published in the AAG's flagship journals, *Annals of the AAG* and *The Professional Geographer*, along with reviews of significant current books related more broadly to geography and public policy and/or international affairs.
- *GeoHumanities* (biannually) is the newest journal of the AAG, launched in 2015, and features articles that span conceptual and methodological debates in geography and the humanities; critical reflections on analog and digital artistic productions; and new scholarly interactions occurring at the intersections of geography and multiple humanities disciplines.

AAG Newsletter

The online [AAG Newsletter](#) provides news and information on current activities and opportunities across a broad spectrum of geographic research, teaching and practice. It also publishes presidential columns, necrologies, AAG council meeting minutes, committee reports, opinion pieces and member news.

Jobs & Careers

The [AAG Jobs in Geography Center](#) is the preeminent source of academic jobs in geography, as well as a wide variety of jobs in geography related fields in the public, private, and nonprofit sectors. The searchable database connects employers with thousands of potential employees and gives users the ability to create an account, store resumes, set up alerts, and more.

Guide to Geography Programs in the Americas, AAG Handbook and Member Directory

[The Guide](#), [AAG Handbook](#) and [Member Directory](#) describe geography programs in North American and Latin American colleges and universities and include geographers (AAG members) employed in academic institutions, government agencies and private firms.

AAG Knowledge Communities

The online [AAG Knowledge Communities](#) provide a forum for AAG members, specialty groups, and others to interact and communicate with one another around the world.

Information on AAG membership and Annual Meetings may be obtained from the American Association of Geographers, 1710 16th Street NW, Washington, DC 20009-3198. Phone 202-234-1450. Fax 202-234-2744. Email: membership@aag.org, <http://www.aag.org>

PREFACE

The 2018-2019 edition of the *Guide to Geography Programs in the Americas* describes degree requirements, curricula, faculty qualifications, program specialties, financial assistance and degrees completed for colleges and universities that offer undergraduate and graduate programs in geography in the Americas. The Guide also includes information about government agencies, private firms and research institutions that employ geographers.

The 2018-2019 *Guide* lists a total of 311 academic institutions in the United States, Canada and Latin America. Of these institutions, 265 programs offer bachelors degrees, 193 programs offer masters degrees, and 116 programs offer doctorates in geography (or related fields). There are an additional 22 community college and other programs listed in the *Guide* that offer associates degrees.

The AAG Handbook contains the Association's governance documents; lists of the current AAG Council, committees and appointees; information on past AAG officers; membership and annual meeting data; details regarding regional division and specialty groups; and tabulations of recipients of AAG honors and awards.

A list of recently completed theses and dissertations begins on page 328. It provides a permanent record of graduate research in geography.

The AAG Member Directory contains member information including names, companies or institutions, addresses, telephone numbers, e-mail addresses, degrees and dates earned, topical and areal expertise, and specialty group membership.

The AAG Knowledge Communities provide a forum for AAG members, specialty groups, and others to interact and communicate with one another around the world.

I thank the many individuals who have made the Guide possible, especially the geography program chairs and assistants who provided information for this edition, and Mark Revell, who edited and compiled this information.

The Guide has proven to be a useful tool for students selecting undergraduate and graduate programs, for faculty members advising students and for geographers throughout the Americas and the world. I welcome your suggestions for improvements to future editions of the online *Guide to Geography Programs in the Americas*.

Douglas Richardson
Executive Director

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UNITED STATES

ALABAMA

AUBURN UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1999

DEGREES OFFERED: BA in Geography; BS in Geology; MS in Geography; MS in Geology; Accelerated BA/MS in Geography

GRANTED 9/1/17-8/15/18: 9 BA Geography; 15 BS Geology; 5 MS Geography; 8 MS Geology

MAJORS: 20 Undergrad Geography; 59 Undergrad Geology; 13 Graduate Geography; 27 Graduate Geology

CHAIR: Ming-Kuo Lee

PROGRAM ADMINISTRATIVE ASST: Kiley Coan

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geosciences, 2050 BEMC, Auburn University, Auburn, Alabama 36849. Telephone (334) 844-4074. Fax (334) 844-3409. E-mail: Leeming@auburn.edu. Internet: <http://www.auburn.edu/academic/cosam/departments/geosciences/index.htm>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences at Auburn University offers both graduate and undergraduate majors in Geography the opportunity to join faculty in their research in geospatial analysis, human geography, environmental management, hazards, geomorphology, water resources, biogeography, and climatology. Graduate study will place a special emphasis upon applied research as it relates to these sub-disciplines. Supplementing coursework is the department's map collection and a geographic information systems laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Admission to the undergraduate major program in Geography is the same as that for admission to the College of Sciences and Mathematics. In addition to the University Core Curriculum requirements, undergraduate majors are expected to take Physical Geography, Cultural Geography, Cartography, Aerial Photography and Remote Sensing, and Geographic Information Systems. Fifteen additional hours of geography, two semesters of a foreign language and a statistics course are also required for the major. Undergraduate majors are eligible for earning credit through internal and external internship programs. Exceptional undergraduate students are encouraged to apply for the Accelerated BA/MS program in Geography which allows both degrees to be earned in a total of five years.

Admission to the graduate program in Geography requires admission to the Auburn University Graduate School as well as the completion of a Bachelors degree in Geography or related field, a minimum undergraduate G.P.A. of 3.0, letters of support, and an acceptable GRE score. Both thesis and non-thesis degree options are available. In both cases, students are required to take courses in Geographic Thought and Quantitative Methods and Spatial Analysis. Students choosing the thesis option will work in consultation with faculty to craft a program of study reflecting their research interests that includes at least 18 additional graduate hours of coursework and a thesis research project (6 credit hours). Students who follow the non-thesis option will complete a customized program of study that includes a minimum of 33 additional credit hours as well as successfully complete written and oral comprehensive examinations. Graduate

applicants are eligible to apply for a graduate teaching or research assistantship that includes a tuition waiver and stipend.

FACULTY:

Carmen Brysch, Ph.D., Texas State University, 2014, Lecturer — geography education

Christopher Burton, Ph.D., University of South Carolina, 2012, Assistant Professor — GIS modeling of climate change related hazards both from a physical risk and vulnerability perspective

Philip L. Chaney, Ph.D., Louisiana State University, 1999, Associate Professor — water resources, natural hazards, coastal geography
Luke Marzen, Ph.D., Kansas State University, 2001, Professor — remote sensing, GIS, human and environmental interface, biogeography, land use change

Chandana Mitra, Ph.D., University of Georgia, 2011, Assistant Professor — climatology, urban climate, geospatial techniques, climate modeling

Adam Payne, Ph.D., Oklahoma State University 2015, Lecturer — gentrification and commodification, place promotion, heritage tourism, urban morphology

Stephanie Rogers, Ph.D., University of Fribourg 2014, Lecturer — GIScience, applied GIS, glacial archaeology, field data collection

Stephanie L. Shepherd, Ph.D., University of Arkansas, 2010, Assistant Professor — fluvial geomorphology, environmental impacts, climate change

EMERITUS FACULTY:

Cyrus B. Dawsey, Ph.D., University of Florida, 1975, Professor Emeritus — Latin America, computer cartography and graphics

Tom L. Martinson, Ph.D., University of Kansas, 1969, Professor Emeritus — Latin America and geographic thought

UNIVERSITY OF ALABAMA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1903

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., M.S., Ph.D. in

Geography, B.S. in Environmental Science

GRANTED 6/1/17-5/31/18: 61 Bachelors, 15 Masters

STUDENTS IN RESIDENCE: 174 Majors, 21 Masters, 96 Ph.D.

NOT IN RESIDENCE: 4 Masters, 1 Ph.D.

CHAIR: Douglas Sherman

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Krystal Feigle

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Justin Hart, Department of Geography, Box 870322, 204 Farrah Hall, University of Alabama, Tuscaloosa, Alabama 35487-0322. Telephone (205) 348-5047. Fax (205) 348-2278. E-mail: hart013@ua.edu. Internet: <http://geography.ua.edu>.

PROGRAMS: The curricula supporting the B.A. and B.S. degrees in Geography are designed to prepare students in the fields of applied geography, biogeography, climatology, geomorphology, geospatial analysis, human-environment interactions, and planning. The B.S. in Environmental Science, which has an optional concentration in Natural Resources and Ecosystem Conservation, is an interdisciplinary program that requires coursework in geography and other natural sciences. The programs leading to the M.S. and Ph.D. degrees in Geography are designed to prepare students in the fields of biogeography, climatology, geomorphology, geospatial analysis, human-environment interactions, and hydrology. The graduate programs emphasize the application of geospatial analysis to

understanding the complexities of socio-environmental systems, biogeochemical processes, environmental sustainability, and the emerging risks that environmental change and degradation pose to society.

RESEARCH FACILITIES: The core of the Department is located in a 30,000 square foot facility near the center of campus. The Department incorporates five research laboratories. The Earth Surface Dynamics Laboratory, which is well equipped for field investigations and laboratory analyses pertaining to geomorphology, soils, and watershed science. The Forest Dynamics Laboratory supports study of applied research in forest disturbance, forest development and succession, silviculture, and ecological plant geography. The Surface Dynamics Modeling Lab strives to improve scientific understanding of planetary surface processes and dynamics through design and utilization of state-of-the-science numerical models. The Dendrochronology Research Laboratory focuses on using tree rings to study past climate. The Laboratory for Location Science studies the optimal location of facilities and movement of resources through space.

The UA Library System includes six separate libraries and the university is a member of the Association of Research Libraries. The collections include over two million books, journals, and microforms, and receives more than 16,000 periodicals, serials, and newspapers. Geospatial Information Services within the Department include the GIS and Remote Sensing Laboratory, Cartographic Research Laboratory, and the University Map Library. The GIS and Remote Sensing Laboratory maintains a state-of-the-art facility for GIS data input, database management, spatial analysis and manipulation, and information output, as well as digital image processing of remotely sensed data. The Cartographic Research Laboratory is designed to operate in an instructional and production environment. The University Map Library, managed by the Department, contains over 350,000 maps and 75,000 aerial photographs. In addition to providing public reference service, the Map Library functions as a research unit.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: A complete application to the graduate program requires transcripts from all universities or colleges attended, official GRE scores, at least three letters of reference, a statement of purpose, and an endorsement from a member of the UA graduate faculty. No students are admitted without consent of a potential advisor. An applicant to the M.S. program is normally required to have a bachelor's degree in geography, environmental science, or a related discipline. Applicants with degrees in disciplines other than geography or with background deficiencies may be required to complete certain undergraduate requirements. An applicant to the Ph.D. program is normally required to have a master's degree; however, an applicant with exceptional credentials may be admitted directly into the Ph.D. program. Minimum admission requirements are a 300 combined score on the GRE and a 3.0 GPA on a 4.0 scale. Successful applicants to the Ph.D. program are normally expected to have a GPA and GRE scores above the average of our M.S. students (3.5 GPA and 310 GRE).

M.S. in Geography, Thesis Option. This option requires a total of 30 credit hours including 6 hours of program requirements (GY500 and GY523), 6 hours of thesis research. A minimum of 12 credit hours must be taken from courses in one of the areas of concentration including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 9 credit hours may consist of courses from any of the other three areas of concentration and/or may be selected from related courses offered in other disciplines with departmental approval (up to 6 of the 9 credit hours). A thesis committee should be established by the end of the first semester of residence and a thesis proposal must be defended by the end of the second semester of residence.

M.S. in Applied Geography, Non-thesis Option. This option requires a total of 39 credit hours including 6 hours of program requirements and 3 hours for non-thesis research projects. Students selecting this option must take a minimum of 8 hours of geographic techniques and may count up to 15 credit hours of such coursework towards their M.S. program. A minimum of 15 credit hours must be taken from courses in one of the areas of concentration including earth system science; environment and natural resources; environment and society; or geographical information techniques. The remaining 10 credit hours may consist of courses from any of the other three areas of concentration; related courses in other disciplines with departmental approval (up to 6 of the 10 credit hours); and/or experiential learning courses (up to 3 of the 10 credit hours). The non-thesis option is only available with consent of the academic advisor and graduate program director.

Doctor of Philosophy. The Ph.D. program requires a minimum of 48 hours of coursework beyond the baccalaureate degree (that may include up to 24 credit hours of approved graduate-level coursework transferred from a master's program and a maximum of 12 hours of non-thesis or non-dissertation research), 24 hours of dissertation research, and a dissertation. The program includes 14 hours of required coursework (GY500, GY523, and two geospatial techniques courses). A dissertation committee should be established by the end of the first semester of residence and a dissertation project should be established by the end of the third semester of residence. Each Ph.D. candidate must pass a candidacy examination, submit and successfully defend a dissertation proposal, and pass an oral dissertation defense. Fellowships and teaching and research assistantships ranging from \$14,000 to \$15,000 for the academic year are regularly granted on a competitive basis. Merit- and diversity-based awards of up to \$6,000 for the academic year are also available for qualified students. The department awards two cartographic assistantships through the Cartographic Research Laboratory, a GIS assistantship through the GIS and Remote Sensing Laboratory, and 16–18 Graduate Teaching Assistantships. Most assistantships include full tuition waivers and a health insurance supplement. Additionally, support for conference travel and research is available through the Graduate School.

FACULTY:

Seth Appiah-Opoku, Ph.D., Waterloo, 1997, Professor — urban and regional planning, environmental impact assessment, indigenous knowledge systems, ecotourism and international development
Bennett L. Bearden, J.S.D., Pacific, 2011, Research Professor and Director, Water Policy and Law Institute — water resources, policy, management
Sagy Cohen, Ph.D., Newcastle, 2010, Associate Professor — GIS, numerical modeling, geomorphology
Kevin Curtin, Ph.D., University of California-Santa Barbara, 2002, Professor — GIS, facilities location science, transportation, logistics, and network GIS
M. A. Lisa Davis, Ph.D., Tennessee, 2005; Associate Professor & Arts & Sciences coordinator for Undergraduate Research — geomorphology, fluvial
Johanna Engstrom, Ph.D., Florida, 2017, Geospatial Services Manager
Luoheng Han, Ph.D., Nebraska, 1994, Professor and Associate Provost — remote sensing, GIS, water quality
Justin L. Hart, Ph.D., Tennessee, 2007, Professor, Director of Graduate Studies and Director of the Environmental Science Program — biogeography, vegetation dynamics, natural resources management
David J. Keellings, Ph.D., Florida, 2015, Assistant Professor — climatology, weather hazards, medical geography, quantitative methods
Matthew C. LaFevor, Ph.D., Texas, 2014, Assistant Professor — water management, agriculture, conservation, Mexico and Latin America

Hongxing Liu, Ph.D., Ohio State, 1999, Professor — remote sensing, environmental modeling, hydrology, water quality, cryosphere, coastal hazards

Nicholas Magliocca, Ph.D., Maryland, Baltimore County, 2012, Assistant Professor — human-environment interactions, agent-based modeling, land-use change

Jared Margulies, Ph.D., Maryland, Baltimore County, 2017, Assistant Professor — political ecology, endangered species, environmental crime

Caroline McClure, Ph.D., Texas State University, 2018, Instructor and Outreach Coordinator — GIS, geographic education, human geography

Mary W. Pitts, M.S., London, 1989, Instructor and Director of Undergraduate Studies — natural hazards, environmental site assessment, and water resources

Craig Remington, M.S., Florida State, 1981, Cartographic Lab Supervisor — traditional and computer cartography, world regional

Jason C. Senkbeil, Ph.D., Kent State, 2007, Associate Professor — severe weather hazards, climatology

Wanyun “Abby” Shao, Ph.D., Louisiana State, 2012, Assistant Professor — human-environment interactions, human dimension of climate change, environmental risk perceptions, community resilience to environmental hazards, environmental hazards, public health

Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair — geomorphology, coastal, aeolian

Michael K. Steinberg, Ph.D., Louisiana State, 1999, Professor — cultural ecology, biogeography, endangered species

Matthew D. Therrell, Ph.D., Arkansas, 2003, Professor — dendrochronology, climate reconstruction, biogeography

Joe Weber, Ph.D., Ohio State, 2001, Professor — transportation, national parks, historical GIS

EMERITUS FACULTY

C. Hobson Bryan, Ph.D., Louisiana State, 1968, Professor — environmental analysis, social impact assessment, resource management, recreation

David Shankman, Ph.D., Colorado, 1986, Professor — biogeography, bioclimatology, environmental conservation and planning

Bobby M. Wilson, Ph.D., Clark, 1974, Professor — urban geography, social geography, North America

UNIVERSITY OF NORTH ALABAMA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1929

DEGREES OFFERED: B.A., B.S. in Geography; B.A., B.S. in Geographic Information Science; M.S. in Geographic Information Science. All degrees are available in both traditional and online platforms.

GRANTED 9/1/18-7/31/19: 24 Bachelors, 7 Masters

MAJORS: 97

CHAIR: Wayne P. Bergeron

DEPARTMENT ADMINISTRATIVE ASST: Marissa Gatlin

GRADUATE PROGRAM COORDINATOR: Michael Pretes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of North Alabama, Florence, AL 35632-0001. Telephone (256) 765-4246, Fax (256) 765-4141, E-mail: mgatlin1@una.edu Internet: www.una.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The department offers two undergraduate major programs: Geography and Geographic Information Science. The major in Geographic Information Science (GIS) is a Science, Technology, Engineering, and Math (STEM) program and is designed to serve students who wish to prepare for careers in the more technical aspects of applied geography, including the fields of geographic information systems (GIS), remote sensing, computer cartography, GIS software development, big data analytics, GIS consulting, business and data analytics, security and logistics, city and/or regional planning, economic geography, environmental agencies, natural resource management, and community development. The major in Geographic Information Science also provides preparation for graduate study in geography leading to careers in applied geography or in research and teaching. The major in Geography is designed for students interested in careers in natural resource management, public lands management, fish and wildlife management, parks and recreation management, environmental organizations, community development and planning, government, diplomatic service, international organizations, business, and industry as geographers and cartographers or in teaching. This program prepares students for graduate studies within geography and education. The department also offers four GIS certificates: General GIS Certificate, Community Development and Planning GIS Certificate, Environmental GIS Certificate, and Business GIS Certificate.

The department also offers an M.S. in Geographic Information Science (GIS) with emphasis on innovative approaches to applying geospatial knowledge and techniques to solve contemporary problems. With both thesis and project options, the focus is application of geographic methods and technologies to solve complex problems; conduct independent research; develop skills in critical thinking and writing; and enter professions requiring advanced knowledge of geospatial methods, analysis, and techniques. Graduates from the M.S. program work in various government, public and private sector jobs throughout the country and overseas. These jobs involve GIS software development, data analytics, GEOINT, sustainable agriculture, community development and planning, environmental research and monitoring, utilities, marketing, management, and field work among many other titles. Some of our graduates continue their studies in pursuit of Ph.D. degrees. For the past several years, job and school placement has reached almost 100%.

The department supports experiential learning opportunities such as geospatial industry-based internships, co-op experience, study abroad, field courses, research and conference travel, and service learning activities. The department houses the Freddie Wood Geographic Research Center, which has 40 computers dedicated to undergraduate instruction and research in GIS, remote sensing, and GPS applications. The department also houses a separate GIS-based research lab for graduate students. Software in both labs includes Clark Lab's TerrSet, Hexagon AB's ERDAS Imagine, ESRI's ArcGIS, and a variety of other Open Source software and web development tools.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Office of Admissions requires ACT score, transcript, and application. Financial assistance is available by application to the Financial Aid Office. Some graduate assistantships are available in the M.S. program.

FACULTY:

Wayne P. Bergeron, D.Sc., Jacksonville State University, 2016, Associate Professor and Chair — emergency and disaster management, homeland security terrorism and transnational crime, humanitarian assistance and development

Jian Chen, Ph.D., University of Memphis, 2008, Assistant Professor — GIS, big data analytics, environmental hazards, water resources, remote sensing, Asia, North America

Lisa Keys-Mathews, Ph.D., University of Memphis, 2007, Professor
— environmental hazards, GIS, remote sensing, cartography,
Latin America

*Mario A. Mighty, Ph.D., University of Florida, 2014, Assistant
Professor* — agriculture, GIS, economic development,
sustainability, Caribbean

*Michael Pretes, Ph.D., Australian National University, 2006,
Professor* — geopolitics, historical geography, national parks
and public lands, economic development, tourism, Australia and
Oceania, Polar Regions, western North America, Africa

Sunhui Sim, Ph.D., Florida State University, 2010, Assistant Professor
— urban remote sensing, urban geography, urban growth
modeling, GIS for natural resources management and landscape
ecology, Asia, North America

EMERITI FACULTY:

Gary M. Green, M.A., University of Georgia, 1976

Priscilla Holland, Ed.D., University of Alabama, 1997

William R. Strong, Ph.D., University of Texas, 1979

ARIZONA

ARIZONA STATE UNIVERSITY

SCHOOL OF GEOGRAPHICAL SCIENCES AND URBAN PLANNING

DATE FOUNDED: 1923 - became School of Geographical
Sciences and Urban Planning in 2009

GRADUATE PROGRAM FOUNDED: 1961

DEGREES OFFERED: BA in Geography, BS in Geography,
BS in Geography (Meteorology-Climatology), BS in
Geographic Information Science, BSP in Urban Planning,
MA in Geography, MAS in Geographic Information
Systems, MUEP in Urban and Environmental Planning,
MUEP 4+1 Accelerated Program (Urban Planning, BSP
and Urban Planning, MUEP), PhD in Geography and
PhD in Urban Planning

GRANTED (Fall 2017 – Summer 2018): 226 Bachelors, 36
Masters, 10 PhDs

STUDENTS IN RESIDENCE (Spring 2019): 892

Undergraduate (589 online), 67 Masters, 42 PhD

DIRECTOR: Trisalyn Nelson

FURTHER INFORMATION: Please visit our web site,
<https://sgsup.asu.edu/>. School of Geographical Sciences and Urban
Planning, Arizona State University, Box 875302, Tempe, Arizona
85287-5302. Telephone (480) 965-7533. Fax (480) 965-8313. Email:
msgsup@asu.edu

PROGRAMS AND RESEARCH FACILITIES: The School of
Geographical Sciences and Urban Planning at ASU offers five
graduate degree programs: a PhD in Geography (with an option for a
Masters in Passing), a PhD in Urban Planning, a thesis-based MA in
Geography, a professional Master's degree in Urban
and Environmental Planning (MUEP), and a professional Master of
Advanced Study (MAS) degree in Geographic Information Systems
(MAS-GIS). There is also an option for an accelerated Bachelor of
Science in Planning (BSP) and MUEP degree (4+1).

The MA and PhD degrees in Geography are focused on four broad
interdisciplinary areas of inquiry: Computational Spatial Science;
Place, Identities and Culture; Earth Systems and Climate Science; and
Sustainability Science and Studies.

The PhD in Urban Planning focuses on five broad interdisciplinary
themes: City Building and Urban Structure; Environmental and
Resiliency Planning; Housing, Neighborhoods, and Community
Development; Spatial Analytics and Smart Cities; and Transportation
Planning and Policy.

The PhD degree in Geography through the Masters in Passing (MIP)
requires 30 semester hours of graduate credit beyond the bachelor's
degree and 54 semester credits after passing the research requirement,
which constitutes advancement into the PhD program. The traditional
(post master's) PhD degrees, offered in both geography and urban
planning, require 84 semester credits of which 30 can be used from a
previously earned master's degree. The MA degree requires 30
semester hours beyond the bachelor's degree and a thesis.

The MUEP degree is an accredited, transdisciplinary professional
degree designed to prepare students for leadership roles in planning in
the public and private sectors. It requires 47 credit hours and has three
options for completion: thesis, professional project or capstone studio.

The Master of Advanced Study degree in Geographic Information
Systems (MAS-GIS) provides students with a balance of technological
expertise, project-management skills, and application experience to
prepare them for managerial and executive-level jobs. All courses in
the one-year program are offered during the evenings accommodate
full-time work schedules.

Research Facilities: The school houses three research centers: (1) the
Spatial Analysis Research Center (SPARC), which advances the
science and technology of GIScience and earth observing to lead the
transdisciplinary application of spatial data science solutions, (2) the
Urban Climate Research Center (UCRC), which employs a
collaborative social/physical science framework to address critical
issues in the urban atmospheric environment, and (3) the Center for
Global Discovery and Conservation Science (CDGCS), whose
mission is to produce innovative scientific outcomes that benefit
conservation, resource management, and environmental policy efforts
using spatially-explicit scientific and technological approaches.

Research Partners: ASU is transforming itself into a model for the
New American University, emphasizing intellectual fusion and
transdisciplinary use-inspired research, stressing local embeddedness
as well as global engagement. The School of Geographical Sciences
and Urban Planning is slated to play an important role in this
endeavor. The School faculty come from a range of training
backgrounds and research interests and have strong affiliations with
several interdisciplinary units on campus, the School of Sustainability,
the School of Earth and Space Exploration, the School of Public
Affairs and the School for the Future of Innovation in Society. Faculty
play major roles in several transdisciplinary research efforts, including
the Julie Ann Wrigley Global Institute of Sustainability, the
Consortium for Science, Policy and Outcomes, and the Institute for
Social Science Research, the Central Arizona-Phoenix Long Term
Ecological Research Project (CAP-LTER) and the State Climatologist
Office. The location of the University in the greater Phoenix
metropolitan area in Southwestern United States, in close proximity of
Northern Mexico and the Western mountains also provides an ideal
laboratory for field research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Academic plan: semester system.

Masters' degrees: Admission requirements for MA or MUEP:
bachelor's or master's degree from a regionally accredited institution
with a minimum of 3.00 GPA for the last two academic years. For
MAS-GIS: bachelor's degree from a regionally accredited institution
with a minimum of 3.00 GPA for the last two academic years;
Bachelor's degree should be in a related field, or with at least three
years related professional experience, bachelor's degree may be in
any field.

PhD degrees: For PhD Geography: master's degree from a regionally accredited institution with a minimum of 3.00 GPA for the last two academic years. Students with strong potential may be admitted directly following a bachelor's degree through the Masters in Passing option. For PhD Urban Planning: master's degree in a related field such as urban studies, geography, environmental studies, sustainability, architecture, public policy or public administration from a regionally accredited institution with a minimum of 3.00 cumulative GPA.

Required exams: GRE scores are required and used in determining admittance into MA, MUEP, and PhD programs. The Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS), or Pearson Test of English (PTE) is required for all applicants whose native language is not English; an applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

Financial support: Teaching assistantships, university scholarships, and other awards are available. Teaching and Research assistantship stipends range from \$17,000 to \$21,000 for the academic year for full-time appointments. Stipends are prorated for part-time and one-semester appointments. Doctoral graduate assistants receive waivers of all out-of-state and in-state tuition, and health benefits. Master's graduate assistants receive partial tuition waivers. Graduate assistantships are competitive and awarded on a merit basis.

FACULTY:

Gregory Asner, PhD, University of Colorado, 1997, Professor — ecology, conservation, remote sensing
 Robert C. Balling Jr., PhD, Oklahoma, 1979, Professor — climatology, climate change, physical climatology, spatial statistics
 Randall S. Cervený, PhD, Nebraska, 1986, President's Professor — dynamic and synoptic meteorology, global climate modeling
 Netra Chhetri, PhD, Pennsylvania State, 2007, Associate Professor — land uses & cover, human dimensions of global climate change, water resources, political ecology of resources
 Dylan Connor, PhD, University of California, Los Angeles, 2017, Assistant Professor — Spatial demography, economic geography, economic history, GIScience, statistical modeling, international migration
 Stephanie Deitrick, PhD, Assistant Clinical Professor — cartography, visualization, GIS
 Ronald I. Dorn, PhD, UCLA, 1985, Professor — desert, hill slope, and quaternary geomorphology, dating methods, remote sensing
 Meagan Ehlenz, PhD, University of Pennsylvania, 2015, Assistant Professor — community development, anchor institutions, urban revitalization, community wealth building, shared equity models
 Stewart Fotheringham, PhD, McMaster University, Canada, 1980, Foundation Professor — collection, visualization and analysis of spatial data, including but not limited to: Spatial statistics; geographic information science; spatial interaction modeling; health geography; transportation; migration analysis; house price analysis, retail geography and crime pattern analysis
 Amy Frazier, PhD, State University of New York at Buffalo, 2013, Assistant Professor — GIScience including data representation, MAUP, scale, landscape heterogeneity and spatial pattern metrics; emerging landscape paradigms within landscape ecology; remote sensing, including spectral unmixing, sub-pixel classification, and super-resolution mapping; unmanned aircraft systems (UAS); imaging spectroscopy
 Matei Georgescu, PhD, Rutgers University, 2008, Associate Professor — modeling; climate change; land-atmosphere interactions; environmental impacts of bioenergy expansion; urbanization effects on weather and climate; modeling and simulation; scientific computing; land use change
 Patricia Gober, PhD, Ohio State, 1975, Research Professor — population, housing demography, urban, migration

David Hondula, PhD, University of Virginia, 2013, Assistant Professor — environmental hazards; environmental health; informatics; climate change and variability; urban climate; climate adaptation
 Peter Kedron, PhD, State University of New York at Buffalo, 2012, Assistant Professor — evolution of the economic landscape, socio-ecological interactions that shape urban environments, spatial statistical methods and mixed methodologies
 Jason Kelley, PhD, Arizona State University, 2013, Lecturer — urban transportation planning, environmental justice, sustainable urban planning and design
 David King, PhD, University of California Los Angeles, 2008, Assistant Professor — codependence of transportation and land use planning, and transportation finance and economics, including parking policy, taxi services, micro-transit, and urban freight, and how these policies interact with land use planning
 Michael Kuby, PhD, Boston, 1988, Professor — transportation, energy, optimal facility location and network analysis models, alternative fuels/infrastructure/driver behavior, light rail, transportation and land use, bicycle, megaregions, carbon capture and storage
 Kelli L. Larson, PhD, Oregon State at Corvallis, 2004, Professor — water resource geography and governance; human dimensions of sustainability; risk perceptions, policy preferences, and human ecological behavior
 Elizabeth Larson, PhD, Wisconsin, Milwaukee, 1991, Lecturer — peace studies, human rights, and refugee studies
 Wei Li, PhD, Southern California, 1997, Professor — race and urban ethnicity, housing, ethnic finance, highly-skilled international migration
 Wenwen Li, PhD, George Mason University, 2010, Associate Professor — geographic information science, geospatial cyberinfrastructure, semantic interoperability
 Roberta Martin, PhD, University of Colorado, 2003, Associate Professor — remote sensing, biodiversity
 Kevin E. McHugh, PhD, Illinois, 1984, Associate Professor — geographical thought and theory, cultural geographies, phenomenology and posthuman geographies, senses and the city
 Sara Meerow, PhD, University of Michigan, 2017, Assistant Professor — urban resilience, green infrastructure planning, climate change adaptation, urban climate change governance; electricity infrastructure planning; coastal megacities
 Soe W. Myint, PhD, Louisiana State, 2001, Professor — environment, remote sensing
 Trisalyn Nelson, PhD, Wilfrid Laurier University, 2005, Director and Professor — spatial data science, movement, spatial ecology, active transportation, citizen science, www.BikeMaps.org
 Breandán Ó hUallacháin, PhD, Illinois, 1982, Professor — economic, industrial location, urban, regional economic development
 Martin J. Pasqualetti, PhD, University of California, Riverside, 1977, Professor — natural resources, energy, environmental systems, nuclear power
 Deirdre Pfeiffer, PhD, UCLA, 2011, Associate Professor — housing and community development, race and class stratification, participatory planning, qualitative methods
 David Pijawka, PhD, Clark University, 1983, Professor — sustainable planning and design, socio-economic assessments, disaster management and recovery planning, perception and behavior studies, institutional design
 Erinanne Saffell, PhD, Arizona State University, 2004, Lecturer — hydroclimatology; systems of risk, vulnerability, resilience associated with extreme weather and climate events
 David J. Sailor, PhD, University of California, Berkeley, 1993, Professor — urban climate dynamics: urban climate, energy consumption, thermal comfort, and renewable energy
 Deborah Salon, PhD, University of California, Davis, 2006, Assistant Professor — transportation and land use, urban economics, climate policy

Mark W. Schmeeckle, PhD, Colorado, 1998, Associate Professor — geomorphology, fluvial processes, earth surface transport and morphodynamics

Nancy Selover, PhD, Arizona State, 2005, Research Professor and Arizona State Climatologist — urban climatology, evaporation, drought, micro-climate field research

J. Duncan Shaeffer, PhD, Arizona State, 2001, Senior Lecturer — world regional and cultural geography

Daoqin Tong, PhD, The Ohio State University, 2007, Associate Professor — GIS, spatial statistical modeling, spatial uncertainties and big data analytics, with applicants including transportation, urban activity dynamics and public health

B. L. Turner II, PhD, Wisconsin, Madison, 1974, Gilbert F. White Professor of Environment and Society — human-environment relationships, land change science, sustainability, tropical forests, ancient Maya

Ian Walker, PhD, University of Guelph, 2000, Professor — sediment transport and erosion, aeolian (windblown) geomorphology, coastal geomorphology, environmental fluid dynamics, sand dune ecosystems and restoration, beach-dune morphodynamics, Holocene landscape evolution

Douglas Webster PhD, University of California, Berkeley, 1977, Professor — sustainable urbanization, city building in China, Southeast Asian urbanization, urban competitiveness/city development strategies

Elizabeth A. Wentz, PhD, Pennsylvania State, 1997, Dean of Social Sciences, Professor — GIS, spatial analysis, environmental, urban remote sensing

Susanna Werth, PhD, University of Potsdam, Assistant Research Professor — Earth's gravity field, hydrology, remote sensing, modeling, signal processing, climate change

AFFILIATED FACULTY:

Bob Bolin, PhD, Colorado, 1976, Professor — political ecology, environmental hazards and risk, contemporary social theory, social movements and change, urban sociology/geography

Christopher Boone, PhD, Toronto, 1994, Professor — urbanization, urban environments, urban sustainability, environmental justice

Brittany Crow-Miller, PhD, UCLA, 2013, Assistant Professor — human geography, sustainability, development, socio-technical/techno-political systems, hydropolitics, water resource management, infrastructure, political ecology, water-energy-food nexus, inter-basin water transfer

Hallie C. Eakin, PhD, University of Arizona, 2002, Associate Professor — vulnerability, adaptation, global change, globalization, Latin America, Mexico, food systems, agrarian change

Anthony Grubesic, PhD, The Ohio State University, 2000, Professor — GIScience, transportation, urban health, crime, regional development, environmental metrics, public policy evaluation and spatial statistical methods

Kevin Robert Gurney, PhD, Colorado State University, 2004, Associate Professor — global biogeochemistry, carbon cycle, carbon-climate feedbacks, fossil fuel CO₂ emissions, climate policy

Francisco Lara-Valencia, PhD, University of Michigan, 2002, Associate Professor — Southwest borderlands development planning, economic development planning, urban health disparities, environmental vulnerability

Ariane Middel, PhD, University of Kaiserslautern, 2008, Assistant Professor — modeling and simulation, urban design and sustainable cities, microclimate, geographic information science, urbanization effects on weather and climate, climate science, applied research, informatics, remote sensing, sustainability, urban infrastructure

Michael E. Smith, PhD, University of Illinois at Urbana-Champaign, 1983, Professor — archaeology; premodern urbanism; comparative urbanism; comparative inequality; historical social science; Aztec society; Mesoamerican archaeology

Jennifer Vanos, PhD, University of Guelph, 2012, Assistant Professor — urban design and sustainable cities, climate science, microclimate, health and well-being, urbanization effects on weather and climate, health, air quality, health outcomes, modeling and simulation, public health, climate change, economic adaptation and climate change, vulnerable populations

Jianguo (Jingle) Wu, PhD, Miami University, 1991, Professor — landscape ecology, urban ecology, and sustainability science

EMERITUS FACULTY:

Frank T. Aldrich, PhD, Oregon State, 1972, Professor — GIS, cartography/computer graphics, field methodology, remote sensing

Daniel D. Arreola, PhD, UCLA, 1980, Professor — cultural, landscapes, Mexican-American borderlands

Elizabeth K. Burns, PhD, UC Berkeley, 1974, Professor — urban, land use, transportation, urban and regional planning

Anthony J. Brazel, PhD, Michigan, 1972, Professor — physical, microclimatology, alpine climatology, applied meteorology

Malcolm L. Comeaux, PhD, Louisiana State, 1969, Professor — cultural, historical, history of geographic thought, Southwestern United States

Katherine Crewe, PhD, Massachusetts, 1997, Associate Professor — planning practice and transportation; historic preservation, citizen participation, gender studies and planning, physical planning/urban design, International Urban Design

Hemalata C. Dandekar, PhD UCLA, 1978, Professor — Urban and Regional Planning

Patricia L. Fall, PhD University of Arizona, 1988 — biogeography, human impact on ancient and modern environments

William L. Graf, PhD, Wisconsin, 1974, Regents Professor — fluvial, public land policy, arid lands

W. Donald McTaggart, PhD, Australian National, 1963, Professor — underdeveloped nations, urban, Southeast Asia

Robert C. Mings, PhD, Ohio State, 1966, Professor — recreational, tourism, economic, social

Ruth A. Yabes, PhD, Cornell University, 1990, Professor — participation, community development, international planning, planning pedagogy

MESA COMMUNITY COLLEGE

CULTURAL SCIENCE DEPARTMENT

DATE FOUNDED: 1966

DEGREES OFFERED: A.A. with concentration in Geography; A.A.S. in Applications in Geospatial Technologies

CERTIFICATES OFFERED: Information Systems Technician, Sustainability, Global Citizenship

FOR FURTHER INFORMATION WRITE TO:

Dr. Erinanne Saffell, Cultural Science Department, Mesa Community College, 1833 W. Southern Ave., Mesa, Arizona 85202. Telephone (480) 461-7035. Fax (480) 461-7812. E-mail: erinanne.saffell@mesacc.edu. Internet: <https://mesacc.edu/departments/cultural-science/geography>.

COURSES OFFERED:

Introduction to Physical Geography, World Regional Geography, Introduction to Human Geography, Introduction to Meteorology, Climate and Weather, Society and Environment, Landform Processes, Arizona Geography, Extreme Weather and Climate, Geographic Information Technologies, Geographic Information Science I, Geographic Information Science II, Introduction to Digital Image Processing, GIS Internship, Geography Service Learning Experience, Introduction to Sustainability, Sustainable World, Sustainable Cities, Professional Skills in Sustainability, Careers in Sustainability

Students may participate in departmental field trips, service learning opportunities, study abroad programs, and use of a GIS lab.

FACULTY:

Karen E. Blevins, M.A., Arizona State University, 2002 — geographic information science

Niccole Villa Cervený, Ph.D., Arizona State University, 2005 — physical geography, geomorphology

Michelle Pulich-Stewart, M.A.G., Texas State University, 2001 — environmental geography, sustainability

Erinanne Saffell, Ph.D., Arizona State University, 2004 — meteorology/climatology

NORTHERN ARIZONA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING, AND RECREATION

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 1990

DEGREES OFFERED: B.S. in Geographic Sciences and Community Planning; B.S. in Public Planning; B.S. in Parks and Recreation Management; M.S. in Applied Geospatial Sciences; Certificate in Parks and Recreation Management; Graduate Certificate in Geographic Information Systems; Graduate Certificate in Community Planning; M. of Administration in Community Planning and Geographic Information Systems

GRANTED 9/1/17-6/1/18: 84 B.S. Geographic Science and Planning; 465 B.S. Recreation; 62 Masters; 56 Graduate Certificates

STUDENTS IN RESIDENCE: 68 B.S. Geographic Science and Planning; 372 B.S. Recreation; 48 Masters; 49 Graduate Certificates

CHAIR: Mark Manone

DEPARTMENT ADMINISTRATIVE ASSOCIATE: Dana Mandino

FOR FURTHER INFORMATION WRITE TO: Administrative Associate, Department of Geography, Planning, and Recreation, Northern Arizona University, NAU Box 15016, Flagstaff, Arizona 86011-5016. Telephone (928) 523-2650. Fax (928) 523-2275. E-mail: geog@nau.edu. Internet: <http://nau.edu/sbs/gpr>.

PROGRAMS AND RESEARCH FACILITIES: The B.S. degree is offered with majors in Geographic Science and Community Planning, and in Parks and Recreation Management. The Geographic Sciences and Community Planning major integrates geographic knowledge and GIS mapping technologies with the problem-solving fields of community planning and urban design. Known as Geodesign, this educational framework will prepare you to create more livable and sustainable communities while contributing to a better world. The Parks and Recreation Management program offers emphases in (1) community, commercial and tourism recreation, (2) outdoor education and leadership, (3) park protection, and (4) individualized studies. The Parks and Recreation Management degree program is also available as a fully online degree. The department also offers a Park Ranger Training Program, which is one of only a handful of such programs across the United States. This program offers a national park service approved basic law enforcement training for those seeking seasonal and permanent law-enforcement ranger jobs with the national park service. For more information see the program website at www.prm.nau.edu/rangers. The Park Ranger Training is also part of the Park Protection emphasis area within the PRM degree program. The Department of Geography, Planning, and Recreation also offers a

15 semester hour undergraduate certificate in parks and recreation management over the Internet, and an 18 semester hour graduate-level certificate in GIS and a 15 semester hour graduate-level certificate in Community Planning.

For students interested in graduate studies, we offer an accelerated Bachelors to Masters degree program in Applied Geospatial Sciences for NAU undergraduate students majoring in our B.S. Geographic Sciences and Community Planning and B.S. Parks and Recreation Management. The accelerated B.S.- M.S. program offers highly qualified and mature undergraduate students the opportunity for graduate study earlier than would normally be possible. The program is open to students who have demonstrated a mastery and commitment to the emphasis areas offered in the M.S. in Applied Geospatial Science. **Benefits of the Integrated Program include:** The Graduate Record Exam (GRE) is not required. We use coursework experience in the department to evaluate this aspect of the application. Students may transfer 6 units from the B.S. degree to the M.S. degree. Students must meet with an advisor prior to application to determine the 6 units that will be transferred. These units will continue to apply to the B.S. degree, which means the student will have 6 fewer units to complete the two degrees. Students can graduate in 5 years with both a B.S. and M.S. degree, if they plan their program of study appropriately.

At the graduate level, we offer the MS Applied Geospatial Sciences degree and the MS Parks and Recreation Management degree. These graduate degrees are designed for students who want to pursue a career in community development, land management, recreation administration and programming, geographic information systems (GIS), and public planning. The MS Applied Geospatial Sciences degree is offered both on-campus and is available through both thesis and nonthesis plans. This nonthesis plan requires a professional applied paper that is overseen by your practicum committee. The MS Parks and Recreation Management degree is an online only program designed for recreation professionals and does not have a thesis or practicum requirement.

NAU is ideally situated for field studies and research in geography, planning and recreation. The Grand Canyon and five other national parks and the largest American Indian reservation in the U.S. are all within a day's drive of the campus. Department research facilities include two well equipped GIS/ remote sensing labs and a Geodesign studio classroom. Our faculty members have a long-standing commitment to provide personalized attention to the needs of the individual student through close student-faculty interaction in a friendly, intellectually stimulating campus atmosphere.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.

UNDERGRADUATE: For department information write the Administrative Associate. For university application materials write to Office of Admissions, NAU Box 4084, Flagstaff, Arizona 86011-4084.

GRADUATE: For the M.S. and GIS Certificate and Community Planning graduate certificate programs, a 3.0 GPA and undergraduate geography degree are preferred, but other majors can be accepted with course deficiencies. Teaching and research assistantships are available. Application forms must be submitted to both the NAU Graduate College and to the department. For additional information contact the Geography or GIS Program Coordinators (below) at the department address, or visit the department website. Applications received in full by August 1st (for Fall semester admissions) and January 1st (for Spring semester admissions) will receive priority consideration for graduate assistantships.

FINANCIAL AID: Office of Student Financial Aid, NAU Box 4108, Flagstaff, Arizona 86011-4108 <http://nau.edu/finaid/>.

GEOGRAPHY AND PUBLIC PLANNING FACULTY:

Jessica R. Barnes, Ph.D., Ohio State University, 2014, Lecturer — human geography, developing world, climate change, cultural geography

R. Dawn Hawley, Ph.D., Arizona State University, 1994, Professor, Geographic Science & Community Planning Coordinator — public land policy, economic geography, urban geography, GIS, U.S. geography

Ruihong 'Ray' Huang, Ph.D., University of Wisconsin-Milwaukee, 2003, Associate Professor — GIS, spatial Statistics, urban transportation planning, land use planning, geomorphology

Mark Manone, M.A., Northern Arizona University, Associate Professor of Practice — GIS education, natural resource management

Brian Petersen, Ph.D. University of California - Santa Cruz, 2010, Assistant Professor — environmental studies, forest resource management, sustainability, climate change and society

Erik Schiefer, Ph.D., University of British Columbia, Canada, 2004, Assistant Professor, MS Applied Geospatial Sciences Graduate Program Coordinator — physical geography, GIS, geomorphology

Amanda Stan, Ph.D, University of British Columbia, Canada, 2008, Lecturer — physical geography, weather and climate, global analysis

Margo Wheeler, MURS, University of Southern California, 1981, FAICP, Lecturer — community planning, urban design, capstone studio, planning law and ethics, sustainable tourism development

PARKS AND RECREATION MANAGEMENT FACULTY:

Aaron Divine, M.S., Northern Arizona University, 2005, Senior Lecturer, Outdoor Leadership Program, Parks and Recreation Program Coordinator — outdoor leadership, NOLS

Kathleen Finlayson, M.Ed., Northern Arizona University, 2013, Instructor — community and commercial recreation, sports programming

Charles Hammersley, Ph.D., New Mexico, 1988, Professor — community and commercial recreation, outdoor leadership, event planning, recreation facility development and administration

John Lynch, M.A., Northern Arizona University, 2011, Lecturer — introduction to parks and recreation management, wilderness within, outdoor leadership I and II

Mark Maciha, Ed.D, Northern Arizona University, 2014, Assistant Professor of Practice, Park Ranger Training Program Director — park protection I and II, wildland recreation, natural resources protection

Judith Montoya, M.A., New Mexico, 1985, Principal Lecturer — community and commercial recreation, recreation program planning, inclusive recreation, camp counseling

Rosanna "Marieke" Taney, M.S., Northern Arizona University, 2006, Lecturer, Distance Learning Program — river rafting and outdoor education specialties

EMERITUS FACULTY:

Robert O. Clark, Ph.D., Denver, 1970 — geomorphology, climatology, meteorology, arid lands, cartography, world geography, Anglo-America

Carolyn M. Daugherty, Ph.D., Arizona State, 1987, Associate Professor — rural and small town planning, site planning, environmental resource planning

Leland R. Dexter, Ph.D., Colorado-Boulder, 1986, Professor, GIS Programs Coordinator — computer cartography, geomorphology, climate, GIS, remote sensing, field techniques

Pamela Foti, Ph.D., Wisconsin, 1988, Professor — wildland recreation and expeditions, outdoor recreation research and policy, impact analysis, park and recreation agencies

Christina B. Kennedy, Ph.D., Arizona, 1989, Professor — landscape studies, environmental perception, geography of film, resource management, environmental studies

Alan A. Lew, Ph.D., University of Oregon, 1986, AICP, Professor — urban planning, tourism, East and Southeast Asia

Stanley W. Swarts, Ph.D., UCLA, 1975 — cartography, climate geomorphology, American Southwest, and lands

Graydon Lennis Berlin, Ph.D., Tennessee, 1970, Regents Professor — remote sensing, arid lands, geomorphology, natural hazards

George A. Van Otten, Ph.D., Oregon State, 1977 — cultural, economic, land use planning, geographic education, Native Americans

UNIVERSITY OF ARIZONA

SCHOOL OF GEOGRAPHY AND DEVELOPMENT

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., B.S GIST, M.A., M.S., M.S.GIST, MDP, Ph.D.

GRANTED 7/1/17-6/30/18: 123 B.A./B.S., 7 Masters, 9 Ph.D., 20 GIST, 6 MDP

STUDENTS IN RESIDENCE: 464 Undergraduate Majors, 13 M.A., 63 M.S., 18 MDP, 47 Ph.D.

DIRECTOR: Lynn A. Staeheli

ASSOCIATE DIRECTOR: Greg Barron-Gafford

FOR FURTHER INFORMATION: Visit the School's website at www.geography.arizona.edu. If you have further questions email the Undergraduate and Graduate Program Coordinator, Elizabeth S. Cordova, at elizabec@email.arizona.edu. Main contact information: School of Geography and Development, ENR2 Building, POB 210137, University of Arizona, Tucson, Arizona 85721. Telephone (520) 621-1652. Fax (520) 621-2889.

PROGRAMS AND RESEARCH FACILITIES: Undergraduate: The School offers a B.A. and B.S. in Geography, a B.S. in Urban and Regional Development, a B.S. in Geographic Information Systems Technology, and a B.A. in Environmental Studies. Emphases in the B.A. and B.S. in Geography include physical and environmental, human, and techniques. For the B.S. in Urban and Regional Development, a business minor is strongly recommended. Internships, paid or unpaid, are arranged by the School with local governmental agencies or private sector employers. Graduate: Fields of specialization for the M.A. and Ph.D. degrees include: Critical Human Geography, Human-Environment Relations, Physical Geography, Regional Development, Water Resources and Policy, Climate and Paleoclimate and Methodology and Technology. The School also offers a one-year, professional M.S. in GIST and a Masters in Development Practice. The School participates, with other programs, in offering a Graduate Certificates in GI Science, Water Policy, and Connecting Environmental Science and Decision Making. The School supports a wide range of methodological approaches, including critical methods, GIS, qualitative methods, remote sensing, spatial econometrics, and web-based decision support systems. Strong alliances are maintained with other departments, interdisciplinary programs, and research centers stressing the social and environmental sciences. Many affiliated faculty are actively involved in teaching and graduate training, including serving as primary advisors. For complete information, go to: www.geography.arizona.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. GRE scores required for admission. Assistantships with competitive stipends and remission of tuition and health insurance are available to qualified applicants. Applications for admissions and assistantships should be complete by January 5.

FACULTY:

- Kevin J. Anchukaitis, Ph.D., University of Arizona, 2007, Associate Professor — paleoclimatology, dendrochronology, spatiotemporal statistics, climatology, drought, human-environment interactions, Latin America, United States, Asia, Mediterranean
- Keiron Bailey, Ph.D., Kentucky, 2002, Associate Professor — participatory geographic information science; geovisualization; east Asia/western Pacific, commercial aviation, structured public involvement
- Jeffrey M. Banister, Ph.D., University of Arizona, 2010, Associate Research Social Scientist and Associate Research Professor, Southwest Center and School of Geography and Development — political and cultural geography, Latin America, environment, Mexico
- Greg Barron-Gafford, Ph.D., University of Arizona, 2010, Associate Professor and Associate Director — biogeography, environment, leaf biochemistry, ecosystems, climate change, ecology, forest ecology
- Carl J. Bauer, Ph.D., UC Berkeley, 1995, Professor and Director of Graduate Studies — comparative and international water law, policy, and political economy; geography, law, and property; Latin America, Western USA, Spain
- Stefano Bloch, Ph.D., University of Minnesota, 2012, Assistant Professor — Chicano/a urbanism, street gangs, crime, ethnography, policing, qualitative methods, race and ethnicity, spatial theory, subcultures
- Stephanie Buechler, Ph.D., Binghamton University, 2001, Assistant Research Professor — sustainable urban development, gender and the environment, climate change and adaptation in urban and rural areas, water scarcity and community adaptation and international development, U.S., Mexico, Latin America, South Asia
- Gary L. Christopherson, Ph.D., University of Arizona, 2000, Associate Professor of Practice and Director of the Center for Applied Spatial Analysis — geographic information systems, archaeology, wildfire, urbanization
- Andrew C. Comrie, Ph.D., Pennsylvania State, 1992, Professor — climate variability, synoptic climatology, climate applications in air quality, health, and environment
- Vincent Del Casino Jr., Ph.D., University of Kentucky 2000, Professor and Vice Provost for Digital Learning and Student Engagement and Associate Vice President for Student Affairs and Enrollment Management — human geography, social and cultural geography, health, geographic thought and history, sexuality studies and health politics in Southeast Asia and Long Beach, CA
- Sapana Doshi, Ph.D., UC Berkeley 2011, Associate Professor — critical development studies, urban geography, cities of the Global South, feminist geography, cultural politics, social movements, ethnography, Mumbai
- Thomas Evans, Ph.D., University of North Carolina at Chapel Hill 1998, Professor — agricultural decision-making, food security, environmental governance along with spatial analysis, GIS, remote sensing and simulation modeling
- Andrea K., Gerlak, Ph.D., University of Arizona 1997, Associate Professor — water governance and policy, global environmental policy, transboundary waters, groundwater management resilience, adaptation, social-ecological systems, western U.S., Latin America, SE Asia and Europe
- John Paul Jones III, Ph.D., Ohio State, 1984, Professor and Dean — social and cultural theory, history of geographic thought, critical human geography, research methodology and techniques
- Mark Kear, Ph.D., Simon Fraser University, 2015, Assistant Professor — financial geography, urban geography, ethnography, urban poverty, financial exclusion, financial literacy, financial empowerment, governmentality, biopolitics, credit and debt, personal/consumer finance, financial regulation, payment systems
- Diana M. Liverman, Ph.D., UCLA, 1984, Regents Professor, Geography — human dimensions of global environmental change, climate impacts, adaptation and policy, political ecology, Latin America
- Christopher Lukinbeal, Ph.D., San Diego State/University of California, Santa Barbara, 2000, Associate Professor and Director of MS in GIST — cultural geography, media and cinema, GIScience
- Sallie A. Marston, Ph.D., Colorado, 1986, Professor and Director of UA Community and School Garden Program — political, cultural, social theory and feminist geography
- Orhon Myadar, Ph.D., University of Hawaii, Manoa, 2007, Assistant Professor — nationalism, urban geography, mobility, film, resource politics, political geography of post-Soviet states
- Elizabeth A. Oglesby, Ph.D., University of California, Berkeley, 2000, Associate Professor and Chair of the Undergraduate Committee — critical development, political economy, ethnography, human rights and post-conflict issues, Latin America
- Tracey Osborne, Ph.D., University of California, Berkeley, 2010, Associate Professor — social dimensions of climate change mitigation, agrarian studies, political ecology, Mexico, Latin America and the Caribbean
- David A. Plane, Ph.D., Pennsylvania, 1981, Professor — migration, population, transportation, and regional science
- Dereka Rushbrook, Ph.D., University of Arizona, 2005, Associate Professor of Practice and Director of Undergraduate Studies — development, Latin America, social theory/social justice
- Fernando Sanchez, Ph.D., Rovira i Virgili University, Spain, 2013, Assistant Professor of Practice — palaeoecology, anthropology, environmental management, geospatial analysis and technologies, rural recovery and revitalization
- Christopher A. Scott, Ph.D., Cornell, 1998, Professor and Director and Research Professor, Udall Center for Studies in Public Policy — water management and policy, climate and water variability, urban water demand, water reuse, energy-water nexus, groundwater; Southwest U.S., Mexico, South Asia
- Katherine Snyder, Ph.D., Yale University, 1993, Professor and Director of Master's of Development Practice Program — Sub-Saharan Africa, Tanzania, Kenya, Ethiopia, Malawi, Ghana
- Lynn A. Staeheli, Ph.D., University of Washington, 1989, Professor and Director — community and political activism, citizenship, public space, memory and post-conflict societies, gender, youth, religion and race, Lebanon, South Africa, US, Europe
- Willem van Leeuwen, Ph.D., University of Arizona, 1995, Professor, Geography and School of Natural Resources and Environment — landscape ecology, dryland environments, biogeography, remote sensing, field methods
- Margaret O. Wilder, Ph.D., University of Arizona, 2002, Associate Professor, Geography and Latin American Studies, and Environmental Policy — political ecology of water and environment in Mexico, climate-related vulnerability and adaptation in U.S.-Mexico border, development and Latin America
- Connie Woodhouse, Ph.D., University of Arizona, 1996, Professor — paleoclimatology, dendrochronology, climate variability, water resources, western U.S.

EMERITI FACULTY:

- D. Robert Altschul, Ph.D., Illinois
- Wayne Robert Decker, Ph.D., Johns Hopkins University
- Lay James Gibson, Ph.D., UCLA
- Beth Mitchneck, Ph.D., Columbia
- Janice J. Monk, Ph.D., Illinois
- Gordon Mulligan, Ph.D., British Columbia
- Richard W. Reeves, Ph.D., UCLA
- Thomas F. Saarinen, Ph.D., Chicago
- Marvin Waterstone, Ph.D., Rutgers
- Stephen Yool, Ph.D., UC Santa Barbara

AFFILIATED FACULTY:

- Heidi Brown, *Ph.D., Yale University, 2007, Assistant Professor — Epidemiology and Biostatistics Division- vector-borne disease, spatial epidemiology and climate change and health*
- Bonnie G. Colby, *Ph.D. Wisconsin, 1983, Professor, Agriculture and Resource Economics — water, public lands, energy and environmental economics*
- Benedict Colombi, *Ph.D., Washington State University, 2007, Professor — American Indian Studies*
- Crimmins, Michael, *Ph.D., University of Arizona, 2004, Associate Professor, Climate Science Extension Specialist, Soil, Water and Environmental Science — climate science support, resource management, drought monitoring and drought preparedness*
- Gregg Garfin, *Ph.D., Arizona, 1998, Director of Science Translation and Outreach, Institute of the Environment — climate change, adaptation, climate impacts, drought, outreach, US-Mexico*
- Katherine K. Hirschboeck, *Ph.D., Arizona, 1985, Associate Professor, Laboratory of Tree-Ring Research — hydroclimatology, hydrology, synoptic climatology, climate variability, dendroclimatology*
- Vance T. Holliday, *Ph.D., Colorado, 1982, Professor of Anthropology and Geosciences — geoarchaeology, Paleoindian archaeology, soil-geomorphology, Quaternary landscape evolution, Great Plains and the Southwest*
- Laura E. Huntoon, *Ph.D., University of Pennsylvania, 1991, Associate Professor, Planning Degree Program — urban and regional planning*
- Charles F. Hutchinson, *Ph.D., UC, Riverside, 1978, Professor, Arid Lands Studies — remote sensing, physical, arid lands*
- Kathy Jacobs, *Ph.D. University of California, Berkeley, 1981, Professor and Director of Arizona Water Institute — climate adaptation, water management issues, water sustainability, water policy, connecting science and decision-making, stakeholder engagement and drought planning*
- Miranda Joseph, *Ph.D., Stanford, 1995, Professor and Director of Graduate Studies, Gender and Women's Studies — Marxist theory, poststructuralist theory, queer theory, feminist theory, cultural studies*
- Stuart E. Marsh, *Ph.D., Stanford, 1979, Professor, Geography and School of Natural Resources and the Environment, Chair Arid Lands Resource Sciences Interdisciplinary Ph.D. Program, Director, Arizona Remote Sensing Center — environmental remote sensing, land-use land cover change, computer applications*
- Sharon B. Megdal, *Ph.D. Princeton, 1981, Professor, Dept. of Agriculture and Resource Economics and Department of Soil, Water and Environmental Science — water policy and management, public policy*
- Gary P. Nabhan, *Ph.D., Arizona, 1983, Research Social Scientist, Southwest Center and School of Geography and Development — food geography, political ecology, sustainable agriculture and fisheries, biodiversity conservation, ethno botany, conservation sociology/reconciliation ecology, local food systems*
- Jon Pelletier, *Ph.D., Cornell, 1997, Associate Professor, Geosciences — landscape processes, fluvial and aeolian geomorphology*
- Linda Samuels, *Ph.D., UCLA, 2012, Project Director, Sustainable City Project — urban planning, infrastructure as public space, architecture*
- Edella Schlager, *Ph.D., Indiana University, 1990, Professor and Director of PhD Studies — comparative institutional analysis, common pool resource theory, water law/policy/politics in the western US*
- Paul R. Sheppard, *Ph.D., Arizona, 1995, Associate Professor, Laboratory of Tree-Ring Research — dendrochemistry, environmental monitoring with tree rings, dendrogeomorphology, image analysis of tree rings*
- Thomas W. Swetnam, *Ph.D., Arizona, 1987, Professor, School of Renewable Natural Resources and Ecology and Evolutionary Biology, Director of Laboratory of Tree Ring Research — disturbance ecology, paleoclimatology, biogeography*

ARKANSAS

UNIVERSITY OF ARKANSAS, FAYETTEVILLE

**DEPARTMENT OF GEOSCIENCES, DIVISION OF
GEOGRAPHY****DATE FOUNDED:** 1947**GRADUATE PROGRAM FOUNDED:** 1948**DEGREES OFFERED:** B.A., B.S., M.S., Ph.D.**STUDENTS IN 2018-2019 RESIDENCE:** 163 Majors, 72 Masters, 19 Doctorates**CHAIR:** Christopher Liner**DEPARTMENT SECRETARY:** Lisa Milligan**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Dr. Christopher Liner, Chair, Department of Geosciences, University of Arkansas, Fayetteville, Arkansas 72701. Telephone (479) 575-3159. Fax (479) 575-3469. E-mail: mliner@uark.edu. Internet: geosciences.uark.edu

PROGRAMS AND RESEARCH FACILITIES: The department offers a program of instruction and research leading to a Master of Science degree. A minimum of 30 semester hours of graduate work is required to complete the degree. The department is particularly strong in the areas of physical geography (geomorphology, meteorology, climatology), GIS and cartography. Students are also encouraged to take appropriate courses related to their interest in other departments. Research facilities include a university computer system with computer-assisted mapping peripherals, and a departmental microcomputer laboratory with capabilities for digital color mapping, classification of satellite imagery and statistical analysis. The University of Arkansas has been designated a Geographic Information Systems Technology Transfer Center by the U.S. Congress. The GIS Center is part of the Center for Advanced Spatial Technology (CAST), which is housed in a new, state-of-the-art building dedicated to information technologies. The Center has major teaching and research projects and provides many opportunities for geography students. The department also operates a tree-ring laboratory supported by the National Science Foundation.

**ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND
FINANCIAL AID:**

Undergraduate: The University is on the semester system. Acceptance by the University of Arkansas is prerequisite to admission by the Department. Standard financial aid plans are available from the University. The Department presently does not offer aid to the undergraduate student.

Graduate: The University is on the semester system. Acceptance by the University Graduate School is prerequisite to admission by the department. Half-time teaching and research assistantships are available for the nine-month academic year and include remission of all tuition.

FACULTY:

- Mohamed Aly, *Ph.D., Texas A&M University 2006, Associate Professor — InSAR, GPS, GIS, Crustal Deformation Modeling, Geohazard Assessment*
- Paula Anderson, *M.S., University of Arkansas 2012, Instructor — General Geology*
- Steve Boss, *Ph.D., University of North Carolina 1994, Professor — Geophysics, Marine Geology, Lacustrine Geology, Earth Systems, Sustainability Studies*

Linyen Cheng, Ph.D., University of California Irvine 2014, Assistant Professor — Climate Science

Jackson Cothren, Ph.D., The Ohio State University, 2004, Professor — Geospatial Modeling, Geomatics, Director of Center for Advanced Spatial Technology — Geographic Information Systems, Remote Sensing, Environmental Assessment

Matt Covington, Ph.D., University of California Santa Cruz 2008, Associate Professor — Hydrogeology, Geomorphology, Karst, and Glacial Hydrology

Fiona M. Davidson, Ph.D., Nebraska, 1991, Associate Professor and Vice Chair of the Department of Geosciences — Economic, Political, Cartography, Geographic Information Systems

Greg Dumond, Ph.D. University of Massachusetts Amherst 2008, Associate Professor — Structural Geology and Tectonics

Song Feng, Ph.D. Chinese Academy of Sciences 1999, Associate Professor — Climate Change, Paleoclimates

Phil D. Hays, Ph.D. Texas A&M 1986, Research Professor — Hydrogeology, Geochemistry

Rashauna Hintz, M.S. Geography 2010, Instructor — Human Geography

Edward C. Holland, Ph.D. University of Colorado at Boulder, 2012, Assistant Professor — Political and Cultural Geography, International Studies, Geography of Conflict and Political Violence, Geography of Religion, Regional Geographies of Europe and Eurasia

Andrew P. Lamb, Ph.D. Boise State 2016, Assistant Professor — Geophysics

W. Fred Limp, Ph.D., Indiana, 1983, University Professor and Leica Chair in Geospatial Systems

Christopher Liner, Ph.D. Colorado School of Mines 1989, Professor — Geophysics and Petroleum Geology

Jill Marshall, Ph.D. University of Oregon 2015, Assistant Professor — Geomorphology

Thomas R. Paradise, Ph.D., Arizona State, 1993, University Professor — Cartography, Middle East Studies, Historic Preservations, Hazards

Adriana Potra, Ph.D. Florida International University 2011, Associate Professor — Ore Geology and Radiogenic Isotope Geochemistry

Glenn Sharman, Ph.D. Stanford 2015, Assistant Professor — Petroleum Geology and Stratigraphy

John B. Shaw, Ph.D. University of Texas Austin 2013, Associate Professor — Sedimentology

David W. Stahle, Ph.D., Arizona State, 1990, Distinguished Professor and Director of Tree-Ring Laboratory — Dendrochronology, Paleoclimatology

Celina Suarez, Ph.D. University of Kansas 2010, Associate Professor — Stable Isotope, Low-temperature Geochemistry, Paleontology

Daniel Sui, Ph.D. University of Georgia 1993, Distinguished Professor — Geographic Information Systems

Jason Tullis, Ph.D., University of South Carolina, 2003, Professor — Remote Sensing, Biogeography

Henry Turner, Ph.D., University of Arkansas, 2009, Instructor — General Geology

UNIVERSITY OF CENTRAL ARKANSAS

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1927

DEGREES OFFERED: BA or BS in Geography; BS in Geography (Geospatial Concentration); BS in Environmental Science: Planning & Administration; Graduate Certificate in GIS; Master of GIS

GRANTED 9/1/17-8/31/18: 6 BS Geography; 6 BS Environmental Science: P&A; 3 Certificate GIS; 18 MSGIS

MAJORS: 26 Undergraduate Geography & Geospatial; 28 Undergraduate Environmental Science P&A; 2 Graduate GIS Certificate; 12 MGIS

CHAIR: Stephen O'Connell

PROGRAM ADMINISTRATIVE ASST: Amy Adams

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of Central Arkansas, 318 Burdick Hall, 201 Donaghey Avenue, Conway, AR 72035. Telephone: (501) 450-3164. Fax: (501) 852-2926. Email: geography@uca.edu. Web: <http://uca.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: At the University of Central Arkansas, our undergraduate programs provide the breadth and depth of knowledge needed to understand contemporary natural and human problems, as well as the geospatial skills needed to work in geographic and other professions. Faculty members provide exceptional training in cartography, remote sensing, and geographic information systems (GIS). Our graduate program focuses on the theoretical and practical use of geospatial technology. The GIS Graduate Certificate provides working professionals and graduate students the opportunity to receive sophisticated technical training that will enhance their employment skills or broaden their career options. The Master of GIS degree is a more comprehensive and intensive program that takes students beyond that offered in the Certificate program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The degree of Bachelor of Arts or Bachelor of Science, with a major in Geography or Geography with a Geospatial concentration requires successful completion of 120 hours including the UCA core, 38 hours of geography courses, and a minor as worked out with the student's advisor. The major in Environmental Science: Planning and Administration also requires successful completion of 120 hours including the UCA core, 34 hours in the Environmental Science core and 48 hours in the Planning and Administration core; the degree may contain between 30 and 42 hours of geography courses, depending upon electives taken. No minor is required for this major.

The online Master of Science in GIS (MGIS) program offers both a Masters and a Graduate Certificate. The Certificate requires the successful completion of 15 credits, and a Master of GIS with either a thesis or non-thesis option requires the successful completion of 30 credits, and the addition of a thesis or GIS portfolio.

FACULTY:

Matthew H. Connolly, Ph.D., Texas State University, 2013, Assistant Professor — environmental geography, water resources, human-environment interaction, GIS, remote sensing, spatial analysis

William T. Flatley, Ph.D., Texas A&M University, 2012, Assistant Professor — forest dynamics, fire ecology, climate change, ecological restoration, ecological modeling

Ellen E. Hostetter, Ph.D., University of Kentucky, 2007, Associate Professor — American cultural landscapes, legal geographies, historical geography with a focus on automobile landscapes

Stephen M. O'Connell, Ph.D., Oklahoma State University, 2010, Associate Professor — cultural landscapes, recreation and tourism, historical geography, regional specialty: North America, geospatial technology in education

Mary Sue Passe-Smith, M.A. University of Arkansas, 2004, Senior Lecturer — modeling topographic influences on tornadogenesis, hazard vulnerability mapping, hazard response and policy, natural hazards in general, GIS

Brooks C. Pearson, Ph.D., Indiana University, 1999, Associate Professor — geospatial technology and accuracy of historical maps, historical cartography, geospatial techniques, regional specialty: Arkansas

Ling Zhang, Ph.D., University of Utah, 2016, Assistant Professor — retail geography, economic geography, urban geography, remote sensing, land use/land cover change

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, CHICO

DEPARTMENT OF GEOGRAPHY & PLANNING

DATE FOUNDED: 1964

DEGREES OFFERED: B.A. in Geography with options in Human Geography & Planning; Physical & Environmental Geography

GRANTED 9/1/18 – 8/31/19: 14

MAJORS: 25

CHAIR: LaDona Knigge

DEPARTMENT ADMINISTRATIVE ASST: Jessie Mendoza

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography & Planning, California State University, Chico, Chico, CA 95929-0425. Telephone: (530) 898-5285 or refer to <http://www.csuchico.edu/geop>

PROGRAMS AND RESEARCH FACILITIES: The 45-unit B.A. Program provides breadth in a 21-unit core, including emphasis on writing, research, and map measurement and GIS skills. The other 24 units are chosen from two options: Human Geography and Planning; and Physical and Environmental Geography. The department also offers two 21-unit certificates in Geospatial Technology and Resource Management & Land Use Planning. Geography and Planning also houses a minor in Environmental Studies and Geospatial Literacy. Geography and Planning in collaboration with two other academic departments house two formal double majors: Geography and Economics; and Geography and History.

In particular, it stresses practical field experience and training in land use, environmental planning and development in urban and rural areas. Field studies in the region and internships with local government and private agencies are important elements of the program. The mountain and valley counties and towns of the University's Northern California service region are an excellent laboratory for the undergraduate options in planning. The University's two nature reserves are co-managed by department faculty and are an excellent laboratory for the undergraduate option in physical and environmental geography.

The department offers comprehensive computer facilities and field equipment for undergraduate study. These include an extensive collection of digital geographic information and imagery, and technical field equipment; a physical geography laboratory; a multi-purpose 30 seat GIS, cartography, remote sensing and statistical analysis computer laboratory; a multi-media outfitted group project geography lounge; multi-media seminar room; access to University ecological preserves (Big Chico Creek Ecological Reserve); and an outdoor classroom for restoration ecology in the Butte Creek preserve.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University academic calendar consists of fall and spring semesters and some summer session.

A range of eight-ten scholarships totally over \$20,000 each year are available to undergraduate students based on GPA, merit and need. Student interns are often hired for CSU Chico Research Foundation contract projects at the Geographical Information Center and Center for Economic Development on a competitive basis. Internships are also available from surrounding cities, county, state, and federal agencies, and in private business as well as non-profit organizations.

FACULTY:

Scott Brady, Ph.D., Louisiana State University, 1996, Professor — cultural geography, geographic education, Mexico & Central America

Jacquelyn R. Chase, Ph.D., UCLA, 1993, Professor — rural planning & development, gender, urban-rural relations, economic geography, Latin America, Brazil

Dean H.K. Fairbanks, Ph.D., University of Pretoria, South Africa, 2001, Professor — landscape ecology, GIS/remote sensing, political ecology, environmental planning, spatial statistics, California, Europe, Southern Africa, South Africa

Don L. Hankins, Ph.D., UC Davis, 2005, Professor — fire ecology and management, water resources, restoration ecology, indigenous peoples geography, Australia

LaDona G. Knigge, Ph.D., SUNY-Buffalo, 2006, Professor and Department Chair — urban geography, sustainable community and transportation planning, qualitative research, critical GIS

Naomi W. Lazarus, Ph.D., University of Connecticut, 2014, Assistant Professor — GIS, cartography/geovisualization, web-GIS, statistical methods, hazards geography, human geography

Eugenie Rovai, Ph.D., Clark University, 1991, Professor — hazards, water resources, cartography

Noriyuki Sato, Ph.D., Indiana University, 2007, Associate Professor — climatology, climate change, transportation, quantitative methods, remote sensing

Mark Stemen, Ph.D., University of Iowa, 1999, Professor — environmental studies, sustainability issues, environmental education, historical geography of the US

CALIFORNIA STATE UNIVERSITY—LOS ANGELES

DEPARTMENT OF GEOSCIENCES AND ENVIRONMENT

DATE FOUNDED: 1951

DEGREES OFFERED: B.A. Geography; M.A. Geography; B.S. Geology with option in Environmental Geology; M.S. in Geological Sciences with options in Geology or Hydrology; M.S. in Environmental Science with options in Environmental Hydrology, Geographic Information Systems, Environmental Biology or Environmental Engineering Science; GIS Certificate

DEGREES GRANTED 9/1/17 – 8/31/18: 8 M.A. in Geography; 3 M.S. in Geology; 24 B.A./B.S.

MAJORS: 141 in residence

CHAIR: Dr. Stephen Mulherin

PROGRAM ADMINISTRATIVE ASSISTANT: Ms. Christina Twyman

FOR CATALOG AND FURTHER INFORMATION WRITE TO: CSULA Department of Geosciences and Environment, 5151 State University Drive, Los Angeles CA 90032. Telephone: (323) 343-

2400. Email: smulher@calstatela.edu Internet: <http://www.calstatela.edu/academic/geos>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences and Environment offers both undergraduate, graduate, and post-baccalaureate students the opportunity to study a wide range of topics and conduct student research alongside the faculty in their primary fields of study including: climatology, hydrogeology, volcanology, engineering and structural geology, stratigraphy, and geospatial analysis. The students in our programs have access to state-of-the-art research facilities which include: wet laboratories, chemistry laboratories, a sedimentological flume laboratory, a soils analysis laboratory, and computer laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Admission to the undergraduate program is the same as required by the Admissions Office at CSULA. The Department offers rigorous academic and much needed technical training in urban and environmental issues. Our students will have both the technical and planning know-how to tackle a number of sustainability issues in Los Angeles and beyond. In addition to the university's general elective requirements, undergraduate students in our majors are expected to complete a well-rounded curriculum of classes. The total number of units for the Bachelor of Science degree in Geology is 120 units, of which 78-84 units are in the major. The Bachelor of Science degree program is designed to provide in-depth study of Earth materials, structures, and processes for professional work in fields such as engineering geology, hydrogeology, and petroleum geology, or graduate study. The Geology option requires 26 units of foundational courses. The Environmental Geosciences Option requires 25 - 28 units of foundational courses. The Bachelor of Arts degree in Geography is designed to provide students with an understanding of the world's physical and cultural environments. The program provides a foundation in the theory and practice of contemporary geography, with emphases on a variety of applied and technical skills that will enhance a student's career opportunities. The total number of units required for the Bachelor of Arts degree in Geography is 120 units, of which 43 units are in the major. Students who wish to pursue graduate level degrees must follow the Admissions Office application procedures and the individual department requirements as well. The department requires: official transcripts showing all prior academic work from every college or university attended, a departmental application, and three letters of recommendation sent to the Department of Geological Sciences. Financial assistance may be given in the form of scholarships or grants. The student must apply to the FAFSA application and the annual CSULA Scholarship application in order to be considered for additional financial aid. Some graduate students may qualify to participate in teaching appointments or graduate assistant work in order to earn a stipend.

FACULTY:

Kris Bezdecny, Ph.D., University of South Florida, 2004, Assistant Professor — urban, GIS, and transportation
Kim Bishop, Ph.D., University of Southern California, Professor — field and engineering geology, structural geology
Andre Ellis, Ph.D., University of Illinois, 2003, Associate Professor — hydrogeology, environmental geochemistry
Jennifer Garrison, Ph.D., UCLA, 2004, Associate Professor — igneous petrology, volcanology
Barry Hibbs, Ph.D., University of Texas, 1993, Professor — hydrogeology, contaminant waste hydrogeology, groundwater modeling
Steve LaDochy, Ph.D., University of Manitoba, 1985, Professor — climatology, environmental studies, computer mapping, air pollution
Jingjing Li, Ph.D., University of California-Irvine, 2012, Assistant Professor — hydrologic modeling, remote sensing, GIS
Stephen Mulherin, Ph.D., Ohio State University, 1999, Professor — urban, historical, GIS

Hong-lie Qiu, Ph.D., Louisiana State University, 1994, Professor — remote sensing, GIS, computer cartography, biogeography
Pedro Ramirez, Ph.D., University of California-Santa Cruz, Professor — sedimentary petrology and stratigraphy

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

**DEPARTMENT OF GEOGRAPHY AND
ENVIRONMENTAL STUDIES**

DATE FOUNDED: 1960

DEGREES OFFERED: B.A., M.A., M.S.

DEGREES GRANTED 9/1/18 – 8/31/19: 35 Bachelors, 12 Masters

STUDENTS IN RESIDENCE: 102 Majors, 49 Minors

CHAIR: Edward Jackiewicz

ADMINISTRATIVE ASSISTANT: Judith Gomez

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Edward Jackiewicz, Chair, California State University, Northridge, Northridge, CA 91330-8249. Telephone: (818) 677-3532. Fax (818) 677-2723. E-mail: geography@csun.edu. Internet: <https://www.csun.edu/social-behavioral-sciences/geography-environmental-studies>

PROGRAMS AND RESEARCH FACILITIES: The geography degree program allows for flexibility in course selection while providing a solid background in human, environmental, and physical aspects of the discipline including a newly created water resources curriculum. The major features a strong technical component based on applications of geographic information systems (GIS), cartography, and remote sensing, along with training in geographical analysis and data presentation. The department offers two graduate degree programs: M.A. in Geography and M.Sc. in Geographic Information Science. Department research facilities include GIS cartographic laboratories, fourteen weather stations throughout California, environmental and physical monitoring equipment available for student research, Sanborn map library (depository for maps of cities west of the Mississippi River-145,000 plates), and a research map library (400,000 flat maps, 5,000 air photographs).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission to graduate program with a cumulative undergraduate GPA of at least 3.0 (Applicants with a cumulative undergraduate GPA of 2.5 to 2.99 can contact the graduate coordinator for more information).

FACULTY:

Sanchayeeta Adhikari, Ph.D., Univ. of Florida, 2011 Assistant Professor — Human-environment geography, remote sensing, & GIS, protected areas, South Asia
Soheil Boroushaki, Ph.D., UWO, 2010 Associate Professor — GIS, Multi-criteria decision analysis, location theory and analysis, spatial decision support systems
Erin N. Bray, Ph.D., UCSB, 2013, Assistant Professor — Hydrologic science, river systems, fluvial geomorphology
James W. Craine, Ph.D., SDSU, 2006, Professor — Media geography, cultural geography, geo-visualization
Ronald A. Davidson, Ph.D., UCLA, 2003, Professor — Public space, teacher education, narrative and geography, regional geography
Mario Giraldo, Ph.D. Georgia 2007, Associate Professor — Sustainability, biogeography, GIS, remote sensing applications, mountain agriculture, water resources
Luke P. Drake, Ph.D., Rutgers University, 2015, Assistant Professor — Urban/economic, political ecology, GIS, qualitative methods

Steven M. Graves, Ph.D., Illinois, 1999, Professor — Pop culture, social, urban/economic, geography education
Edward L. Jackiewicz, Ph.D., Indiana, 1998 Professor — Third world development, Latin America and the Caribbean, urban
Julie E. Laity, Ph.D., UCLA, 1982, Professor — Climatology, geomorphology
Regan M. Maas Ph.D., UCLA, 2010, Associate Professor — Health/Medical Geography, Spatial Demography, Urban Geography, GIS
Amalie Jo Orme, Ph.D., UCLA, 1983, Professor — Coastal and fluvial geomorphology, Quaternary studies
Yifei Sun, Ph.D., SUNY at Buffalo, 2000, Professor — GIS, urban/economic, spatial statistics, China

EMERITI FACULTY:

James P. Allen, Ph.D., Syracuse, 1970, Professor — Cultural, social population, Anglo-America
Warren R. Bland, Ph.D., Indiana, 1970, Professor — Economic, transportation, manufacturing, Canada
William A. Bowen, Ph.D., Berkeley, 1972, Professor — Historical, physical, California, computer cartography
Robert Gohstand, Ph.D., UC, Berkeley, 1973, Professor — Soviet Union, cartography
David Hornbeck, Jr., Ph.D., Nebraska, 1974, Professor — Historical, Southwest U.S., California, economic, applied geography
Robert B. Howard, Ph.D., UCLA, 1974, Professor — Geomorphology
Antonia Hussey, Ph.D., Hawaii, 1986, Professor — Southeast Asia, economic development, China, tourism
Phillip S. Kane, Ph.D., UC, Berkeley, 1975, Professor — Geomorphology
Gong-Yuh Lin, Ph.D., Hawaii, 1974, Professor — Meteorology, climatology
C. Gary Lobb, Ph.D., UC, Berkeley, 1970, Professor — Cultural, tropical ecology, Latin America
Elliot G. McIntire, Ph.D., Oregon, 1968, Professor — Cultural, conservation, biogeography
Eugene J. Turner, Ph.D., Washington, 1977, Professor — Cartography, computer applications, GIS
Ralph D. Vicero, Ph.D., Wisconsin, 1968, Professor — Historical Anglo-America
I-Show Wang, Ph.D., Minnesota, 1971, Professor — Population, East Asia

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1973

DEGREES OFFERED: B.S.

GRANTED 9/1/17-8/31/18: 44 Bachelors

MAJORS: 86

CHAIR: Kristen Conway-Gómez

GEOGRAPHY PROGRAM COORDINATOR: Kristen Conway-Gómez

DEPARTMENT ADMINISTRATIVE ASST: Remi Burton

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography and Anthropology, California State Polytechnic University, 3801 W. Temple Ave., Pomona, California 91768. Telephone (909) 869-3569. Fax (909) 869-3586. E-mail: kconwaygomez@cpp.edu Web: <http://www.cpp.edu/~class-geography-anthropology/>

PROGRAMS AND RESEARCH FACILITIES: Geography is in the Department of Geography and Anthropology at Cal Poly Pomona. There are three undergraduate geography major options in the department: Environmental Studies Option, Geospatial Analysis Option, Geographic Studies Option. The core of the B.S. program emphasizes the cutting edge of technical and applied perspectives of the discipline balanced by a wide range of physical, human, and regional geography courses. The program is supported by department, college, and university level computer labs with various platforms and state of the art hardware and software. Faculty and students are increasingly involved in GIS and applied research, and contribute extensively to the College and University's effort to become a GIS literate campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The semester system is used. Cal Poly Pomona offers a variety of financial aid programs through the Financial Aid office. The department also offers scholarships for geography and other majors in the department. For further information, contact the department office.

FACULTY:

Kristen Conway-Gómez, Ph.D., University of Florida, 2004, Professor — Latin America, biogeography, human geography, geographic information systems, natural resource conservation
Gabriel Granco, Ph.D., Kansas State University, 2017, Assistant Professor — geospatial human-environment interaction models on land use, water use and policy
Kyung In Huh, Ph.D., Ohio State University, 2014, Assistant Professor — tropical mountain glaciology / geography, global climate change, water resources in Latin America, airborne and spaceborne remote sensing, GIScience and GPS mapping.
Michael Reibel, Ph.D., UCLA, 1997, Professor — urban, economic, ethnic geography, demography, business and demographic applications in GIS
Lin Wu, Ph.D., UCLA, 1995, Professor — climatology, geographic information systems, environmental modeling, cartography, physical geography, California, Asia
Terence G. Young, Ph.D., UCLA, 1991, Professor — environmental, historical, designed landscapes, recreation, travel, North America

ADJUNCT FACULTY:

Nurudeen Alao, Ph.D., Northwestern University, 1970, — cultural, physical, California
Jason Ambacher, MA, Cal State Fullerton, 2015 — cultural, world regional
Jennifer Bjerke, MA, Rutgers, 2012 — physical, cultural
Matthew V. Ebner, MA, UCLA, 1986 — cultural, physical, California, Latin America, Asia, Africa, Europe
Rudolph Headley-El, MS, Cal State Long Beach, 2017 — intro GIS, field geography, physical
Richard S. Hyslop, J.D., Ph.D., UC Riverside, 1990, Professor emeritus/lecturer — legal, hazards, and emergency management, environmental law, California, US, Canada
Cheryl King, MA, Cal State Fullerton, 2018 — geography literacy and education, California, environmental analysis, physical, world regional
Jeanne Marshall, MA, Cal State Fullerton, 1998 — cultural, California
Lorne Platt, Ph.D., University of Wisconsin, Milwaukee 2008 — environmental, physical, cultural, urban, community and regional planning
Nikita Prajapati, MA, Cal State Long Beach, 2016 — cultural, physical, world regional, California
Juan Carlos Sanchez, MA, Cal State Fullerton, 2017 — physical, world regional
Stephen H Sandlin, Ph.D., UC-Riverside, 1997 — cultural, physical, world regional, California

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1954

DEGREE OFFERED: B.A.

GRANTED 8/28/17-5/11/18: 56 Bachelors

MAJORS: 120

CHAIR: Thomas Krabacher

DEPARTMENT ADMINISTRATIVE SUPPORT

COORDINATOR: Lori Phillips

FOR CATALOG AND FURTHER INFORMATION, WRITE

TO: Department of Geography, California State University, Sacramento, 6000 J Street, Sacramento, California 95819-6003. Telephone (916) 278-6109, Fax (916) 278-7584. E-mail: MTSK@csus.edu. Internet: <http://www.csus.edu/geog/>

PROGRAMS AND RESEARCH FACILITIES: The department offers the major with concentrations in physical geography, human geography, GIS and analysis, and metropolitan area planning. Through lab and field courses, students become well acquainted with each other and with the faculty. Internships, principally with public agencies, provide an excellent opportunity for interested majors to expand their training to the work place. Location in Sacramento provides field courses access to a great range of resources in physical, urban, and rural geography. Students have opportunities to work closely with faculty on field-, lab-, and archival-based research, including senior capstone projects. Facilities include computer labs to support GIS, cartography, and remote sensing, and a paleoecology lab. The University Library houses an extensive collection of books, atlases, maps, and journals in support of geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. Application for admission to the program is made to the Admissions Office of the University. Departmental and university-wide scholarships, grants, and student aid are available.

FACULTY:

Robin E. Datel, Ph.D., Minnesota, 1983, Professor — geography of the Sacramento region, historic preservation, urban historical geography, urban social geography

Marsha J. Dillon, Ph.D., UC, Berkeley, 1976, Professor — natural resources, population change, economic structure, political cohesion

Bruce Gervais, Ph.D., UCLA, 2001, Professor — biogeography, climatology, paleoecology, sustainability

Thomas S. Krabacher, Ph.D., UC, Davis, 1990, Professor — cultural ecology, economic development, landscapes, environmental history

Anna Klimaszewski-Patterson, Ph.D., University of Nevada, Reno, 2016, Assistant Professor — Paleoecology/Landscape Archaeology, Landscape Modeling, Geovisualization, Augmented/Virtual Reality and Internet of Things (IoT), GIScience, Applied Geography

Miles R. Roberts, Ph.D., University of South Carolina, 1990, Professor — geomorphology, biogeography, ecology, spatial statistics

Michael Schmandt, Ph.D., Arizona State University, 1995, Professor — urban planning, geographic techniques, food, applied geography, transportation patterns, California (Central Valley), field geography

Mathew C. Schmidlein, Ph.D., University of South Carolina, 2008, Associate Professor — environmental hazards and vulnerability, GIScience, human geography, public health

James Wanket, Ph.D., UC, Berkeley, 2002, Professor — quaternary studies, climate, biogeography, geomorphology, California

EMERITUS FACULTY:

Michael D. Fitzwater, Ph.D., UC, Davis, 1981, Professor — physical, meteorology, plant ecology, soil science, air pollution meteorology/climatology

Robert M. Phillips, Jr., Ph.D., UCLA, 1974, Professor — physical, suburban/rural field study, food and hunger, agriculture, Africa, Southeast Asia, human impact on global ecosystems

Tim S. Hallinan, M.A., UC, Berkeley, 1969, Professor — cultural, Latin America, urban/urban field study, landscape, population, geography of religions

Robert T. Richardson, Ph.D., Oregon, 1973, Professor — physical, climate, geomorphology, map and air photo interpretation, cartography, remote sensing, GIS

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1971

DEGREE OFFERED: Geography B.A.; Global Studies B.A.; Environmental Studies B.A.

GRANTED 9/1/17-6/20/18: Geography: 10 Bachelors; Global Studies: 3 Bachelors; Environmental Studies: 33 Bachelors

MAJORS: Geography: 20 Environmental Studies: 65

CHAIR: Kevin Grisham

DEPARTMENT ADMINISTRATIVE SUPPORT

COORDINATOR: Patricia Massei

FOR FURTHER INFORMATION WRITE TO: Professor Kevin Grisham, Department of Geography and Environmental Studies, California State University, San Bernardino, 5500 University Parkway, San Bernardino, California 92407-2397. Telephone (909) 537-5519. Fax (909) 537-7645. E-mail: kgrisham@csusb.edu; pmassei@csusb.edu; or www.geog.csusb.edu.

PROGRAMS AND RESEARCH FACILITIES: The department offers geography majors a broad undergraduate background that integrates physical and human topics while providing choice flexibility within these categories. The geography major has two options; general geography and global studies. For global studies, a major would learn about the characteristics and consequences of globalization from an international perspective. The department also administers an interdisciplinary Environmental Studies major program and certificate program in Geographic Information Systems. Internships with local public and private agencies are encouraged, as are independent studies. Graduates typically find employment within southern California in public and private planning firms, California Department of Transportation, U.S. Forest Service, as well as attending graduate school. All faculty members maintain active research programs that include development of geographic information systems, planning issues such as water resources or affordable housing, and other spatial research.

The Geography Department maintains Cartography, GIS, and Spatial Analysis Lab with 25 computers with 21" displays, two servers, color laser printers, an XGA projection system, and the entire suite of ESRI products. The 100 MbLAN has a 1 Gb backbone connection to the core and an OC-3 connection to the Internet. We also have 30 handheld GPS receivers, an RTK-grade GPS receiver, a laser rangefinder with internal compass and clinometer, and 10 ruggedized field computer with PenMap software. The lab is funded by a variety

of grants and cooperative agreements, including some from the National Science Foundation, the Federal Geographic Data Committee, the EPA, and the USDA. The lab serves as a data repository for the CSUSB Water Resources Institute and the San Bernardino Regional Data Clearinghouse.

FACULTY:

Jennifer Alford, Ph.D., University North Carolina Greensboro, 2014, Assistant Professor — environmental geography; water resources; natural resources management and policy; geospatial analysis
Brett Goforth, Ph.D., UC, Riverside, 2009, Assistant Professor — biogeography, weather & climate, map interpretation
Kevin Grisham, Ph.D., UC, Riverside, 2009, Associate Professor — Model United Nations and Model Arab League programs; geopolitics
Rajrani Kalra, Ph.D., Kent State University, 2007, Associate Professor — urban information systems, urban and economic geography, geospatial techniques, South Asia, globalization and developing countries
Michal Kohout, Ph.D., Clark University, Associate Professor — United States-Mexico borderlands, labor standards, Europe
Norman Meek, Ph.D., UCLA, 1990, Professor — geomorphology, military geography, Quaternary studies, climate change
Bo Xu, Ph.D., University of Georgia at Athens, 2008, Associate Professor — GIS, remote sensing

EMERITI FACULTY:

Andrew Bodman, Ph.D., The Ohio State University, 1978, former Provost and Vice President for Academic Affairs — economic geography
Jeffrey D. Hackel, Ph.D., UC, Riverside, 1988, Professor Emeritus — conservation and resources, Africa, biogeography, geographic research methods
Theodore R. McDowell, Ph.D., Oregon State, 1980, Professor Emeritus — water resources, climate, conservation, remote sensing, natural hazards
James L. Mulvihill, Ph.D., Michigan State, 1976, Professor Emeritus — urban planning, urban, economic, Latin America
Richard H. Rowland, Ph.D. Columbia, 1971, Professor Emeritus — former and post-Soviet Union, population, California

CALIFORNIA STATE UNIVERSITY, STANISLAUS

DEPARTMENT OF ANTHROPOLOGY, GEOGRAPHY, & ETHNIC STUDIES

DEGREES OFFERED: B.A. in Geography

MAJORS: 28 Geography

MINORS: 3 Geography, 8 Environmental & Resource Studies

DEGREES GRANTED: 10 B.A.

DEPARTMENT CHAIR: Peggy Hauselt

PROGRAM DIRECTOR: Peggy Hauselt

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Geography, California State University, Stanislaus, One University Circle, Turlock, California 95382. Telephone (209) 667-3127. E-mail: PHauselt@csustan.edu. Internet: www.csustan.edu/geography/

PROGRAMS AND FACILITIES: The program offers students a broad education in Geography and the opportunity to work in some exciting projects and laboratories including the GIS Lab, the Soil/Environmental Lab, and the Bio-Ag Center (an outdoor lab for environmental planning, sustainable techniques and soils). We provide

a unique opportunity to study abroad, as well as service learning opportunities and internships that engage students with local communities. We also direct the Master of Science in Interdisciplinary Studies – Geospatial Concentration. The Department strongly supports and encourages field and international educational experiences. We host the Center for Applied Spatial Analysis (CASA).

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The department offers a major and minor in Geography. Geography majors select a concentration in the major from the following options: 1) Cultural/Social Geography, 2) Physical Geography/Environmental Studies, 3) Geospatial Technology, 4) Globalization & Development and 5) California Studies. The department also offers concentrations for Liberal Studies and Social Science majors and a minor in Environmental and Resource Studies. A major goal of the department is to provide students with meaningful knowledge of the world's cultures and its physical settings as well as to understand the interactions that result. Majors are expected to take various human, physical, regional, methodology, field and technique courses to fulfill the requirements for the major.

FACULTY:

Augustine Avwunudiogba, Ph.D., Univ of Texas, Austin, 2011, Associate Professor — Physical Geography, Geomorphology, GIS, Remote Sensing, Mexico, Africa
José R. Díaz Garayúa, Ph.D., Kent State Univ, 2008, Assistant Professor — Human Geography, Community GIS, Race, Ethnicity, Place, Latin America
Peggy Hauselt, Ph.D., UC Davis, 2007, Associate Professor — Environmental, Agricultural, Biogeography, GIS
Alison McNally, Ph.D., UC Davis, 2014, Assistant Professor — Environmental, Biogeography, GIS, Water, California

ADJUNCT FACULTY:

Chuck Bowen, M.A., Univ of Georgia, 1967 — Weather & Climatology, Environmental Science, Latin America
Richard Eigenheer, Ph.D., UC Davis, 1976 — Historical, Cultural, US/Canada, California
Cece Hudelson, M.Sc., London School of Economics, 1990 — Economic, Cultural, East Asia, Sub-Saharan Africa
Catherine Garoupa White, Ph.D., UC Davis, 2016 — Environmental Justice, Ethics, Applied Geography

AFFILIATED FACULTY:

Jennifer Helzer, Ph.D., Univ of Texas, Austin, 1998, Professor — Cultural, Historical, Urban, North America, Europe, California

EMERITI FACULTY:

Melvin H. Aamodt, Ph.D. Indiana University, 1968
Ida Bowers, Ph.D. University of Hawaii, 1973
Eric Karlstrom, Ph.D., University Calgary, 1981,
Leon S. Pitman, Ph.D. Louisiana State University, 1973

COSUMNES RIVER COLLEGE

DEPARTMENT OF SCIENCE, MATH & ENGINEERING

DATE FOUNDED: 1970

DEGREES OFFERED: A.S. in Geography, A.A.T. in Geography, A.S. in Environmental Studies & Sustainability, GIS Certificate, Sustainability Certificate

MAJORS: approx. 15

HEAD: Debra Sharkey or Scott Crosier

DEPARTMENT ADMINISTRATIVE ASST: Tbd

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Cosumnes River College, Department of Geography, 8401

Center Parkway, Sacramento, CA 95823-5799, (916-691-7210), www.crc.losrios.edu.

PROGRAMS: Cosumnes River College offers 13 lower division courses in Geography including field study courses to Yosemite National Park, Lassen National Park, Lake Tahoe, and the Eastern Sierras. In addition, the program offers three transferable Associates degrees (Geography and Environmental Studies) a professional GIS certificate, and a Sustainability mini-certificate.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Any person 18 years or older can apply to Cosumnes River College for admission. Financial aid is available.

FACULTY:

Christine Castagna, Ph.D., University of Hawaii, Adjunct Professor — Human Geography, Physical Geography, World Regional Geography

Scott Crosier, M.A., UC Santa Barbara, Professor — Geographic Information Systems (GIS), Maps and Geo-Technologies, Physical Geography, Geography of California, Field Studies

Keir Keightley, Ph.D., UC Davis, Adjunct Professor — Physical Geography

Rick Neil, M.A., San Francisco State University, Adjunct Professor — Physical Geography

Debra Sharkey, M.A., UC Davis, Professor — Human Geography, Physical Geography, Environmental Studies & Sustainability, Global Climate Change, Field Studies

EAST LOS ANGELES COLLEGE

DEPARTMENT OF ANTHROPOLOGY, GEOGRAPHY, GEOLOGY

DATE FOUNDED: (1949)

DEGREES OFFERED: Associate in Arts in Geography for Transfer (AA-T); Associate in Arts in Environmental Studies; Physical Sciences (AA)

FOR FURTHER INFORMATION CONTACT: Dr. Stephen Koletty, Department of Anthropology, Geography, Geology, East Los Angeles College, 1301 Avenida Cesar Chavez, Monterey Park, California 91754-6099. Telephone: (310) 367-2115. E-mail: kolettsr@elac.edu

COURSES OFFERED: Physical Geography, Physical Geography Laboratory, Cultural Elements of Geography, Introduction to Weather and Climate, World Regional Geography, Geography of California, Global Climate Change, Introduction to Geographic Information Systems, GIS Applications

PROGRAM: The Associate of Arts in Geography for Transfer Degree is designed for students wishing to pursue a Bachelors degree in Geography at a California State University. The degree provides students with a comprehensive set of courses designed to maximize their success as they pursue a degree and subsequent career in Geography or a related field. The major provides students with a comprehensive understanding and appreciation for the complex linkages between the geosphere, the atmosphere, the hydrosphere, and the biosphere, and the manner in which Earth's different landscapes are formed. Students also study the geographic character of human society and activities, and aspects of globalization in contemporary life. Students are trained to analyze and interpret geographic patterns using maps, graphs, Geographic Information Systems and other analytic tools commonly employed by geographers to interpret our world. The required courses help students hone skills in spatial thinking, geographic analysis, landscape interpretation, and field

research. These courses have been selected to fulfill the lower division requirements for Geography majors in the California State University, and prepare them for success in upper division courses in Geography.

FACULTY:

Stephen Koletty, Ph.D., University of Southern California

Tiffany Seeley, M.A., California State University, Fullerton

ESRI

DATE FOUNDED: 1969

PRESIDENT: Jack Dangermond

FOR FURTHER INFORMATION ABOUT CAREER OPPORTUNITIES AND APPLICATION PROCEDURES,

CONTACT: Human Resources, Esri, 380 New York Street, Redlands, California 92373-8100; telephone: 909-793-2853; e-mail: mailto:jobs@esri.com; World Wide Web: www.esri.com/careers

Esri is the world's leading provider of geographic information systems (GIS) software. Jack and Laura Dangermond founded the company in 1969 as an urban and landscape design consultancy. Their small team applied early computer mapping and analysis methods pioneered at Harvard's Laboratory for Computer Graphics, where Jack was a graduate student. Over time, Esri evolved into a software and services company, building upon the geographic information science and technologies developed in academia and industry since the 1970s. It now employs more than 5,000 people in the U.S., and many more at over 80 international distributors. Today some 350,000 public, private and non-profit organizations around the world rely on Esri technology. Over a million GIS professionals use Esri's GIS platform - ArcGIS - to create information products used by countless more knowledge workers, decision makers, and citizen stakeholders.

The U.S. Department of Labor and various economic impact studies indicate that the GIS workforce is large and growing. Specialized education in geography is one route into this workforce. Graduates with specializations in human geography might work in teams that investigate the spatial dimensions of health, or the provision of public services, transportation planning, or commercial applications like logistics, retail site selection, or demographic analysis for marketing. Others use GIS for humanitarian work. Physical geographers may be involved in floodplain modeling, conservation biology, forestry, or energy resources discovery, processing and transmission. Others may help advance the state of the art in geographic information science and technology at startups, research organizations, or even Esri.

GIS technologies and methods continue to evolve. Learning is a way of life for GIS users. Esri is committed to supporting lifelong learners. Its support extends from teachers, pupils and "GeoMentor" volunteers in schools, to students, educators and researchers in higher education, to recent graduates who aspire to careers in GIS, to GIS professionals who seek to advance their careers, career changers looking for a better future, and even to retirees who seek to give back to their communities. Esri's offerings for lifelong learners include:

- Software donations and curriculum solutions for primary and secondary schools
- Coordination and training for GeoMentors
- Low cost access to ArcGIS for colleges and universities
- No-cost access for students and recent graduates
- Curriculum solutions for higher education
- Paid internships and conference assistantships
- Esri Press books and associated online exercises
- *ArcNews* and *ArcUser* magazines
- Web-based and instructor-led online training
- A Young Professionals Network
- Massive Open Online Courses (MOOCs), and

- Volunteer opportunities for retirees.

The goal of Esri's Lifelong Learning program is to inspire people to apply geography in amazing ways that benefit individuals, families, communities, and our changing world.

For additional information about Esri's higher education programs, Contact Esri's Higher Education team at highered@esri.com.

LONG BEACH CITY COLLEGE

PHYSICAL SCIENCE DEPARTMENT

DEGREES OFFERED: Associate in Arts in Geography for Transfer Degree (AA-T)

COURSES OFFERED: Physical Geography, Physical Geography Lab, Cultural Geography, World Regional Geography, Introduction to Geographic Information Systems, Weather and Climate, Field Methods in Geography, The Global Economy, Geography of California

FOR CATALOG AND FURTHER INFORMATION WRITE TO: 4901 E. Carson St., Long Beach, CA 90808; (562) 938-4168

PROGRAMS: The Associate in Arts in Geography for Transfer Degree (AA-T) is intended for students who plan to complete a bachelor's degree in geography at a California State University (CSU) campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus. In order to earn this degree, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

FACULTY:

J. Chris Carter, Professor of Geography. Ph.D., University of California Santa Barbara/San Diego State University. ccarter@lbcc.edu

Kim Hatch, Associate Professor, Physical Science. M.A., California State University, Long Beach. khatch@lbcc.edu

ORANGE COAST COLLEGE

GEOGRAPHY DEPARTMENT

DATE FOUNDED: 1947

DEGREES OFFERED: Associate of Arts in Geography for Transfer Degree (AA-T)

FOR FURTHER INFORMATION CONTACT: Irene Naesse or Chris Quinn, Geography Department, Orange Coast College, 2701 Fairview Road, Costa Mesa, California 92626. Telephone (714) 432-5032 or 432-5028. E-mail: inaesse@occ.cccd.edu or cquinn@occ.cccd.edu. Website: www.orangecoastcollege.edu/academics/divisions/social_behavioral/Geography/Pages/default.aspx

COURSES OFFERED: The Geography Department at Orange Coast College has one of the largest number of courses offered in Southern California. In 2018, OCC awarded the highest number of

Associate for Transfer Degrees than any other program in the state of California. Students in Geography have a wide breadth of course offerings, including: Physical Geography, Physical Geography Lab, World Regional Geography, Cultural Geography, California Geography, Introduction to Weather and Climate, Introduction to Geographic Information Systems (GIS), and Regional Field Studies in Geography.

Students may also participate in departmental field trips, service learning opportunities, study abroad programs, and have access to the GIS lab.

FACULTY:

Irene Naesse, M.A., San Diego State University, 1998 — world regional geography, physical geography, physical geography lab, cultural geography

Chris Quinn, M.A., California State University, Long Beach, 2004 — world regional geography, physical geography, physical geography lab, cultural geography, California geography, weather and climate, geographic information systems

PALOMAR COLLEGE

DEPARTMENT OF EARTH, SPACE, AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 1946

DEGREES OFFERED: A.A. Geography; A.S. Geographic Information Systems, Certificate of Achievement, Certificate of Proficiency; A.S. Drone Technology, Certificate of Achievement; Environmental Studies Certificate of Proficiency

CHAIR: Catherine M. Jain, M.A.

DEPARTMENT ADMINISTRATIVE ASSISTANT: Brenda Morris

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Ms. Brenda Morris, Academic Department Assistant, Department of Earth, Space, and Environmental Sciences, Palomar College, 1140 West Mission Road, San Marcos, CA, 92069. Telephone (760) 744-1150 ext. 2512. E-Mail: bmorris@palomar.edu. Internet: <http://www.palomar.edu/earthscience/>.

PROGRAMS AND RESEARCH FACILITIES: Program includes the study of (1) physical geography, (2) human geography, (3) meteorology, (4) environmental issues, (5) geography of California, (6) geographic information science (GIS), (7) remote sensing, and (8) unmanned aircraft systems (UAS) or drones. Students may participate in regional field studies courses or direct study courses in order to concentrate in his/her chosen field and program area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Financial Aid: Federal and state programs available.

FACULTY:

Wing H. Cheung, PhD, University of California-Irvine, 2017, Professor — human geography, GIS, remote sensing, environmental studies, UAS

Catherine M. Jain, MA, San Diego State University, 2000, Professor — physical geography, meteorology, environmental studies

Stephen E. Crook, MSc, University of Oxford, 2011, Assistant Professor — physical geography, GIS, environmental studies

PASADENA CITY COLLEGE

DEPARTMENT OF NATURAL SCIENCES

DATE FOUNDED: 1924

DEGREES OFFERED: Geography AA-T, Geology AS-T,
Geotechnical Skills Certificate

CHAIR: Martha House

ADMINISTRATIVE ASSISTANT: Shelita Gutter

FOR GEOGRAPHY/GIS PROGRAM INFORMATION WRITE TO:

Brennan Wallace, bwallace1@pasadena.edu. Website:
<https://pasadena.edu/academics/divisions/natural-sciences/areas-of-study/geography.php>

PROGRAMS AND RESEARCH FACILITIES: Geotechnical Skills Certificate.

FACULTY:

Brennan Wallace, *Geotech Program Director* — GIS, Biogeography, Geomorphology, Field Studies

Hector Agredano — GIS, Historical Geography, Transportation Geography, Latin America

Rhea Presiado, *Ph.D.* — Biogeography, Oceanography, Applied Learning and Field Methods

SAN DIEGO MESA COLLEGE

SOCIAL SCIENCES DEPARTMENT

DEGREES OFFERED: A.A. in Geography, A.A. for

Transfer in Geography to the California State University system

FOR FURTHER INFORMATION WRITE TO: Dr. John Crocitti, Chair, Social Sciences Department, San Diego Mesa College, 7250 Mesa College Drive, San Diego, CA 92111-4998 Telephone (619) 388-2471. E-mail: mjcrocitt@sdccd.edu
Internet: <http://www.sdmesa.edu/academics/schools-departments/geography/>

COURSES OFFERED: Physical Geography, Physical Geography Laboratory, Cultural Geography, World Regional Geography, Introduction to Urban Geography, Independent Study

FACULTY:

Kenneth J.E. Berger, *D.Env. (University of California at Los Angeles, 1982), Professor*

Waverly C. Ray, *Ph.D. (Texas State University – San Marcos, 2012), Associate Professor*

Mark M. Trembley, *M.A., M.L.A. (University of California at Berkeley, 1970, 1975, respectively), Professor Emeritus*

Christa Stutz Farano, *Ph.D. (Texas State University – San Marcos, 2015), Adjunct Faculty*

Barbara Batterson, *M.S. (University of California at Davis, 1990), M.A., M.S. (San Diego State University, 2007, 2011, respectively), Adjunct Faculty*

David Lulka, *Ph.D. (San Diego State University/University of California at Santa Barbara, 2006), Adjunct Faculty*

Heather Davis, *M.A. (San Diego State University, 2008), Adjunct Faculty*

Samuel Cortez, *M.A. (San Diego State University, 2012), Adjunct Faculty*

SAN DIEGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1956

GRANTED 08/22/17-08/22/18: 36 Bachelors, 14 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 75 Majors, 31 Masters, 18 Ph.D.

CHAIR: Piotr Jankowski

DEPARTMENT COORDINATOR: Patricia O'Leary

FOR FURTHER INFORMATION WRITE TO: Molly Costello, Undergraduate Advisor, Candra Young, Graduate Program Coordinator, Dr. Trent Biggs, Master's Program Advisor, or Dr. Fernando Bosco, Ph.D. Program Advisor, Department of Geography, San Diego State University, San Diego, California 92182-4493. Telephone (619) 594-5437. Fax (619) 594-4938. E-mail: geography@mail.sdsu.edu. Internet: geography.sdsu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department faculty is dedicated to quality teaching and scholarly research. Graduate and undergraduate students interact closely with faculty.

DOCTORAL: A Ph.D. program in geography is offered jointly with the University of California, Santa Barbara. The program offers work in the following systematic areas with supporting development of skills in spatial techniques as follows: (A) Systematic Areas: (1) Human Geography: Comparative urban structure; economic geography; social and critical theory; social and political geography; urban cultural geography; urban and regional modeling. (2) Environmental Geography: Society and environment; watershed/ecosystem analysis. (3) Physical Geography: Biogeography; climatology; hydrology and geomorphology. (B) Spatial Analytical Techniques: Remote sensing and image processing; geographic information systems; cartography and internet mapping; big data analytics, geostatistics, geocomputation and spatial modeling; spatial quantitative and qualitative methods.

MASTERS: A flexible curriculum complemented by careful advising permits the department to design a program tailored to the professional goals of each master's candidate. Students benefit from a long tradition of close faculty-student contact. The main emphases of the master's program are the systematic areas and spatial techniques listed above in the doctoral section. Graduate student internships are available. A general M.A. degree and an M.S. in Geographic Information Science or Watershed Science are both offered.

UNDERGRADUATE: The undergraduate major offers two B.A. degrees, and a B.S. degree. The B.A. degree in Applied Arts and Sciences is offered with emphasis in Foundations of Geography. The B.A. degree in Liberal Arts and Sciences consists of emphases in (a) Environment and Society, (b) Human Geography and Global Studies, (c) Integrative Geography, (d) Methods of Geographic Analysis, and (e) Urban and Regional Studies. The B.S. degree in Applied Arts and Sciences consists of emphases in (a) Environmental and Physical Geography, and (b) Geographic Information Science. The Internship Program provides opportunities for students to apply their geographic training in business, planning, and resource management situations.

GEOGRAPHIC INFORMATION SCIENCE CERTIFICATE: The certificate offers flexible program of 9 courses distributed between the departments of Geography and Computer Science. The program emphasis is on computational skills and data analytics.

FACILITIES AND EQUIPMENT: In addition to well-equipped classrooms and lecture halls, the Department has spatial processing, cartographic, qualitative methods, remote sensing/GIS, and physical

geography laboratories, as well as field and photogrammetric equipment. The Young People's Environments, Society and Space (YESS) research center offers qualitative and applied research opportunities for faculty and students interested in children, youth, families and communities. SDSU operates three field stations in San Diego and Riverside counties. The Center for Earth Systems Analysis Research (CESAR), the Department's specialized laboratory facility, has spatial data processing capabilities including 10 Sun workstations and servers, 55 Dell workstations and servers, 10 Apple MacPros, E-size plotters and printers, and IP/GIS/mapping software (ERDAS, ENVI, ArcGIS, ArcView, TerrSet and eCognition). The Center for Human Dynamics in the Mobile Age addresses opportunities that spring from convergence of new developments in spatial science, mobile technology, big data, and social behavior research. The Center for Information Convergence and Strategy offers opportunities for transdisciplinary research and education, with particular focus on data mining and advanced visual techniques, building strategic solutions for government and private industry. The UC San Diego supercomputer center is readily accessible. Extensive field equipment includes survey and mapping quality GPS units, spectral radiometer, field spectrometers and two high-resolution airborne digital imaging systems. In addition, Love Library has a collection of over 150,000 flat maps and more than 1,000 atlases.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

DOCTORAL: This program is administered jointly by the Departments of Geography at SDSU and UCSB. Normally, the student will spend the first year at SDSU, the second at UCSB, and subsequent years at SDSU. Although there is no specified number of units, students with a master's degree in geography can expect to complete a minimum of 45 semester units (75 quarter units). Satisfactory completion of a dissertation consisting of original research of publishable quality is required. Research and teaching associateships are available on a competitive basis. Deadline for application form, statement of purpose, three letters of reference, transcripts, and GRE scores is December 15. Undergraduate GPA of at least 3.25, a graduate GPA above 3.50, and a combined (verbal and quantitative) GRE score of at least 307 (new scale) or 1100 (old scale) is expected. Both verbal and quantitative scores should exceed the 50th percentile.

MASTERS: The Master's program requires 30 semester units of coursework including the submission and defense of a thesis. Assistantships are available for qualified students on a competitive basis; deadline for applications, three letters of reference, transcripts and GRE scores is December 15. Semester system. Minimum graduate admission standards include a GPA of 3.0 on last 60 semester units of undergraduate credit, and a combined (verbal and quantitative) GRE score of at least 300 (new scale) or 1000 (old scale).

UNDERGRADUATE: For admission requirements, refer to the University General Catalog.

FACULTY:

Stuart C. Aitken, Ph.D., Western Ontario, 1985, Professor and The June Burnett Chair in Children's and Family Geographies — urban, gender, film, children, qualitative methods
Li An, Ph.D., Michigan State, 2003, Professor — landscape ecology, human-environment interactions, modeling of complex systems, statistics, GIS
Trent Biggs, Ph.D., UC Santa Barbara, 2003, Associate Professor — landuse effects on hydrology, watershed science, regional biogeochemistry, physical geography
Fernando Bosco, Ph.D., Ohio State University, 2002, Professor — urban, social movements and collective action, social and cultural theory, economic

George Christakos, Ph.D., Harvard, 1990, Professor, and The Stephen and Mary Birch Foundation Endowed Chair in Geographical Studies — statistics, geostatistics, environmental/ecological/health and mathematical modeling
Fernando De Sales, Ph.D., UCLA, 2006, Assistant Professor — climate modeling, land-surface atmosphere interaction processes, impacts of land-use and land-cover change on climate, regional dynamic downscaling, and forecast verification methods
Piotr Jankowski, Ph.D., Washington, 1989, Professor & Chair — GIScience, spatial decision support systems, public participation GIS, visual analytics
Pascale Joassart, Ph.D., University of Southern California, 1999, Associate Professor — economic geography, urban geography, public policy
Arielle Levine, Ph.D., UC Berkeley, 2006, Assistant Professor — coastal and marine spatial planning, community involvement in natural resource conservation and management, participatory mapping, institutional dynamics in international conservation and development
Hilary McMillan, Ph.D., Cambridge University, 2006, Associate Professor — hydrological processes, hydrological predictions, water resources, impact of humans on watershed processes, social-hydrology
Atsushi Nara, Ph.D., Arizona State University, 2011, Assistant Professor — GIScience, spatio-temporal data mining and knowledge discovery, modeling behavioral geography and social dynamics, geocomputation tool development
John F. O'Leary, Ph.D., UCLA, 1984, Professor — biogeography, physical, environmental analysis
Amy Quandt, Ph.D. Colorado, 2017, Assistant Professor — environmental policy, agroforestry systems, sustainability innovations, East Africa.
André Skupin, Ph.D., SUNY at Buffalo, 1998, Professor — GIScience, cartography, information visualization, visual data mining
Douglas A. Stow, Ph.D., UC, Santa Barbara, 1985, Professor — remote sensing, environmental monitoring, landscape ecology
Kate Swanson, Ph.D., U. of Toronto, 2005, Associate Professor — youth identities and childhood, labor migration, indigenous peoples, urban, Latin America
Ming-Hsiang Tsou, Colorado, 2001, Professor — GIScience, Internet-based GIS applications, distributed computing, intelligent agents, user interface design

EMERITI FACULTY:

Edward Aguado, Ph.D., UCLA, Wisconsin 1983
Barbara E. Fredrich, Ph.D., UCLA, 1975
Arthur Getis, Ph.D., Washington, 1961
Ernst C. Griffin, Ph.D., Michigan State, 1972
Allen S. Hope, Ph.D., Maryland, 1986
Warren A. Johnson, Ph.D., University of Michigan, 1969
Elmer A. Keen, Ph.D. Washington, 1967
David S. McArthur, Ph.D., Louisiana State, 1969
Philip R. Pryde, Ph.D., Washington, 1969
Imre E. Quastler, Kansas, 1971
Frederick P. Stutz, Ph.D., Michigan State, 1970
John R. Weeks, Ph.D., UC, Berkeley, 1972
Richard D. Wright, Ph.D., Kansas, 1967

SAN FRANCISCO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENT

DATE FOUNDED: 1937

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A. Geography, B.S.

Environmental Science, M.A. Geography, M.A.

Geography Concentration in Resource Management &
Environmental Planning, M.S. Geographic Information
Science

GRANTED 9/1/17 – 8/31/18: 41 Bachelors, 10 M.A., 2 M.S.

STUDENTS IN RESIDENCE: 220 Majors, 50 Masters

CHAIR: Jerry Davis

DEPARTMENT OFFICE COORDINATOR: Alisha
Huajardo

FOR FURTHER INFORMATION WRITE TO: Nancy Wilkinson,
Graduate Coordinator, Department of Geography & Environment, San
Francisco State University, 1600 Holloway Avenue, San Francisco,
California 94132. Telephone (415) 338-2049. Fax (415) 338-6243. E-
mail: nancyw@sfsu.edu. Internet: <http://geog.sfsu.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The M.A. program
prepares students for careers as environmental or technical
professionals working in public agencies, consulting firms or
nonprofits, or for careers in academic geography. Opportunities for
specialization include geographic techniques, physical geography,
land use planning and human geography. A Masters Concentration in
Resource Management and Environmental Planning prepares
individuals for careers in environmental management, planning,
monitoring and advocacy. The MS in GIScience program prepares
graduate students for advanced careers in a wide range of geospatial
information research and applications, including geographic
information systems (GIS), remote sensing, global positioning
systems (GPS), and spatial statistics. Departmental facilities include a
geographic analysis teaching laboratory, GIS/Remote Sensing lab,
environmental science lab, physical geography lab, map library;
funded research projects are supported by the Institute for Geographic
Information Science. SFSU is the California State University GIS
Specialty Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The major program includes
four core courses; a distribution requirement of one course each in
physical, human, regional and techniques/applied geography; and 3-4
upper courses in a focus of interest, for a total of 39-42 units.

GRADUATE: Semester system. Minimum of 30 units of work in
geography including 5 graduate seminars (M.A.) or 2 graduate
seminars and 3-4 graduate GIScience courses (M.S.), and a Masters
thesis or research project. A minimum of 3-4 semesters needed for
completion of coursework. Admission requirements include a GPA of
3.25 or better in last 60 units, GRE scores, Statement of Purpose and
two letters of recommendation, and a B.A. or 15 undergraduate
semester units in geography (or a related field for the M.S.). A student
may be admitted to the program conditionally, pending completion of
undergraduate prerequisite coursework with appropriate grades.

FACULTY:

Sara Baguskas, Ph.D., UC Santa Barbara 2014, Assistant Professor
— Terrestrial biogeography; Plant ecophysiology; Climate
change; Coastal fog; Mediterranean ecosystems; Water resource
management; Urban ecohydrology; Science education and
outreach

Jennifer Blecha, Ph.D., Minnesota, 2007, Assistant Professor — urban
ecology, food systems and sustainable agriculture, urban
agriculture, gender, animals

Leonhard Blesius, Ph.D., Iowa, 2002, Associate Professor — remote
sensing of the environment, landslide susceptibility analysis,
geomorphological hazards

*Tendai Chitewere, Ph.D., Binghamton (SUNY), 2006, Associate
Professor* — environmental anthropology, sustainable
communities, green consumerism, water resources, agriculture

Jerry D. Davis, Ph.D., Georgia, 1987, Professor — geomorphology,
soils, GISci, field methods, drone-based remote sensing,
watershed science & modeling

Courtney Donovan, Ph.D., Washington, 2008, Assistant Professor —
medical geography, women's health, immigrant health,
international health, gender

Qian Guo, Ph.D., Tennessee, 1996, Associate Professor — regional
geography, cultural geography, China

Jason Henderson, Ph.D., Georgia, 2002, Professor — land use
planning, transportation

Ellen Hines, Ph.D., Victoria, 2002, Professor — GISci, endangered
marine species, marine resources

XiaoHao Liu, Ph.D., UC Santa Barbara, 2003, Associate Professor
— GISci, remote sensing, spatial analysis, urban and
environmental modeling

Leora Nanus, Ph.D., Colorado, 2008, Assistant Professor —
hydrology, watershed biogeochemistry, water quality,
environmental science, GIS

Andrew J. Oliphant, Ph.D., University of Canterbury, 2000, Professor
— micrometeorology, boundary layer meteorology, applied
climatology

Nancy Lee Wilkinson, Ph.D., Oregon, 1984, Professor — water
resources, environmental perception, environmental history

EMERITUS FACULTY:

Roger J. Crawford, Ph.D., Washington, 1969

Patricia Foschi, Ph.D., Oxford, 1993

Larry Foster, Ph.D., Michigan State, 1962

Barbara A. Holzman, Ph.D., UC Berkeley, 1993

Max C. Kirkeberg, M.A., Wisconsin, 1959

Hans J. Meihoefer, Ph.D., Washington, 1968

John E. Westfall, Ph.D., George Washington, 1969

SONOMA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND PLANNING

DATE FOUNDED: 1968

DEGREES OFFERED: B.A. in Geography and

Environment, B.S. Environmental Studies

GRANTED 1/1/17-12/31/18: 92 Bachelors

NUMBER OF THESES: 29

MAJORS: 290

CHAIR: Jeff Baldwin

DEPARTMENT ADMINISTRATIVE COORDINATOR:

Kimberly Kaido-Alvarez

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** Sonoma State, Department of Geography, Environment, and
Planning, 1801 E. Cotati Ave., Rohnert Park, California 94928.
Telephone (707) 664-3211. Fax (707) 664-3332. E-mail:
kaidoalv@sonoma.edu. Website: <http://www.gep.sonoma.edu>
Catalogs available at: <http://www.sonoma.edu/academics/catalog>

PROGRAMS AND RESEARCH FACILITIES: Our department is
dedicated to providing majors with a broad undergraduate background
in geography, environment, and planning. Through our recent merger
of our Geography and Global Studies with our Environmental Studies

and Planning Departments are better able to offer students the opportunity to shape their degree in ways that fit their interests and career paths. Students may choose a Bachelor of Arts concentration in Environmental Systems; Geospatial Science and Technology; Society, Environment, and Development; Sustainable Communities; and Planning for Sustainable Communities; as well as a BS in Energy Management and Design. While some of our lower division courses are large (up to 128 students), we balance that with smaller more personalized upper division courses (17-40 students) which provide easy contact between professor and student. Seniors write a Capstone Thesis, involving original research. We encourage our students to pursue internships, and we provide independent study for those who have a particular research topic they wish to investigate. Faculty have research interests that have direct applicability to their classes in areas such as paleoecology, paleoclimatology, GIS and remote sensing, conservation and restoration science and policy, urban planning, and political economies and ecologies of development. We conduct research and field classes locally. Faculty maintain research programs in California, the American West, the Caribbean, Southern Mexico, and Southeast Asia. We possess a well-equipped GIS lab and have GPS receivers, two drones, and other equipment for field work. We also house several research centers all of which employ undergraduate research assistants: the Center for Interdisciplinary Geospatial Analysis (CIGA), which conducts research, education and community service with the application of geospatial technology; Sonoma Quaternary Laboratory (SQUAL), which specializes in reconstructing ecological, climate and landscape change caused by environmental and climate forces as well as human impacts over the past several thousand years; our Center for Sustainable Communities focused upon the integration of planning with water management, public health, and climate change mitigation; Professor Hernandez Ayala's new Climate Research Center, and our Environment Technology Center for the study of energy management and conservation

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to the program is made to the Admissions Office of the University. Apart from university-wide scholarships, grants, and student aid, three departmental scholarships are awarded annually: The Terence Smith Geography Scholarship, the Geography Alumni Scholarship, and the Claude Minard Memorial Scholarship. The department also employs a number of students through grant opportunities and work-study.

FACULTY:

- Dr. Rheyana Laney, Professor; Ph.D. in Geography, Clark University, 1999* — Resource management, agriculture in the US and Africa
- Dr. Laura A. Watt, Professor and Adjunct Faculty with the Cultural Resources Management Masters Program; Ph.D. in Environmental Science, Policy, and Management, University of California Berkeley, 2001* — Working landscapes, public lands management
- Prof. M. Thomas Jacobson, Professor; J.D. University of California Hastings College of Law, 1987, Masters in City Planning University of California, Berkeley, 1987. Program: Environmental Studies and Planning Director of the Center for Sustainable Communities* — Planning for sustainability: water, public health, greenhouse gas emission reduction
- Dr. Matthew Clark, Professor and Director of Center for Interdisciplinary Geospatial Analysis; Ph.D. in Geography, University of California, Santa Barbara, 2005* — Remote sensing, GIS, biogeography, ecosystem analysis and conservation, Latin America
- Dr. Caroline E. Christian, Associate Professor and Adjunct Faculty in Biology; Ph.D. in Population Biology, University of California, Davis, 2002* — Grassland restoration
- Dr. Jeff Baldwin, Professor; Ph.D. in Geography, University of Oregon, 2003* — Environmental ethics, Human-beaver ecologies, Caribbean tourism

- Dr. Michelle Goman, Associate Professor; Ph.D. in Geography, University of California, Berkeley, 1996* — Biogeography, paleoecology and paleoclimatology, geomorphology; Mesoamerica, United States, East Africa
- Dr. Daniel R. Soto, Assistant Professor; Ph.D. in Applied Physics, Stanford University, 2010* — Alternative energy systems in the US and Indonesia
- Dr. Jose Javier Hernández Ayala, Assistant Professor; Ph.D. in Physical Geography/Climate Science, University of Florida 2016* — Extreme weather modelling, climate change adaptation
- Dr. Kevin Fang, Assistant Professor, Ph.D. in Transportation Technology and Policy, University of California, Davis, 2016* — Alternative transportation, and Access to public transportation

UNIVERSITY OF CALIFORNIA, BERKELEY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1898

GRADUATE PROGRAM FOUNDED: 1908

DEGREES OFFERED: A.B., Ph.D.

GRANTED 9/1/18-8/31/19: 44 Bachelors; 5 Ph.D.

STUDENTS IN RESIDENCE: 54 Majors, 50 Ph.D.

CHAIR: Robert Rhew

DEPARTMENT MANAGER: Josh Mandel

FOR INFORMATION AND ADMISSIONS: For general information, Telephone (510) 642 3903. E-mail: jmandel@berkeley.edu. For the undergraduate and graduate handbook and admissions information, contact Sarah Varner, Student Academic Advisor. Telephone (510) 664-7698. E-mail: svarner@berkeley.edu. Mail address: Department of Geography, 508 McCone Hall, University of California, Berkeley, CA 94720-4740. Fax: (510) 642-3370. For more information about the University of California, Berkeley go to: <http://bulletin.berkeley.edu/>. Extensive information on the Department can be found at: <http://geography.berkeley.edu/>

PROGRAMS AND RESEARCH FACILITIES: Berkeley Geography offers the highest quality graduate training for future scholars and teachers at the collegiate level, as well as for those going into professional careers in government, NGOs and consulting. The program is unified by a common interest in landscapes, spatial processes, and contemporary problems of foremost importance. The program has three major subdivisions: Development & Environment, Local & Global Relations, and Earth System Science. Within these domains, a wide range of faculty interests are represented, including political ecology, economic geography, cultural geography, modernity studies, urban studies, geography of race and gender, climatology, biogeography, biogeochemistry, glaciology, and geomorphology. Faculty come with a broad spectrum of regional specialties as well, including Africa, East Asia, Europe, Latin America, the Arctic, the Pacific Basin, California, Mexico, and the US West. The faculty has been expanded in recent years to include a number of affiliates in other departments with expertise in such fields as GIS, natural resources, fluvial geomorphology, archeology, cognition, paleo-environments, and urban architecture.

Berkeley students are expected to be independent, and we welcome those who have had professional experience and wish to return to deepen their education. Students are encouraged to range freely through the curriculum and to follow their inspiration where it leads, working in tandem with faculty advisors. Students choose their own mentors, often conferring with two or three faculty in equal measure; these may include faculty affiliates and members from other departments. While faculty have their own research agendas and

teaching specialties, and often collaborate with students, we believe students should march to their own drummer. We expect students to read extensively, develop the necessary research skills, and produce a well-crafted dissertation. Many students publish their findings along the way, as well.

The University of California at Berkeley is the premier graduate research and education institution in the United States, and Geography students can take advantage of a wealth of corollary programs and faculty. Geographers regularly interact with faculty and students from the College of Natural Resources, College of Environmental Design, College of Engineering, Energy and Resources Group, Earth and Planetary Science, Biological Sciences, Departments of Anthropology, Sociology, Economics, Gender and Women's Studies and Ethnic Studies in the Division of Social Sciences, and with Art History, English and others of the Humanities. The campus is rich with interdisciplinary Centers and Institutes, including International Studies, Latin American Studies, Labor Studies, Atmospheric Sciences, Southeast and East Asian Studies, Humanities, and European Studies. Collaboration with the Lawrence Berkeley National Laboratories is also common. Geographers direct several of these centers and students benefit from research programs, grants and symposia organized under their aegis. Geographers also provide core teaching in Global Studies, Environmental Sciences, and American Studies.

Geography is housed in McCone Hall, near the lively North Gate of campus. The Earth Sciences and Map Library is downstairs on the ground floor. Across the glade is the Doe Main Library, center of the system housing 11 million volumes, and the exceptional Bancroft Library, the greatest archive of materials on Western and Central America. The Department facilities include classrooms, offices for faculty and graduate students, research laboratories, and cartography/GIS and remote sensing teaching labs. Central to our operations is the Department Computer Facility, one of the best of its kind on campus and a hub of everyday faculty, staff and student operations. Its main lab, specializing in graphics, cartography, and GIS, includes scanners, digitizer, and color printers, backed up by a Web Server, extensive software library, and the campus TCP-IP network. The Department staff provides excellent support in all areas, including student services, grants, equipment, computing and cartography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: Admissions (Ph.D.): Students are admitted to the University of California by the Graduate Division, on the recommendation of the Department. The prospective graduate student submits the Graduate Application for Admission and Fellowship online (obtain application electronically at: http://www.grad-berkeley.edu/admissions/grad_app.shtml).

The following are submitted to the on-line application: statement of purpose; personal history essay; official transcript, with a Grade Point Average (GPA) of at least a B (3.0) in the last two years of college work; scores from the Graduate Record Examination (GRE) General Test; scores from an official TOEFL report (required of international applicants from countries whose official language is not English); and three letters of academic appraisal. Application deadline is December 1 for Admissions and Fellowships. Admission is for Fall only. The GRE should be taken in October prior to the application deadline.

Ph.D. Degree Requirements: All students take GEOG 200A/B in their first year and register for at least 12 units per semester (primarily graduate seminars) for a minimum of two years before taking the Qualifying Examination and advancing to candidacy. By the end of the third year, students entering with a B.A. or B.S. only must hand in a paper that would be suitable for submission to an academic or scientific journal. All students must take the Qualifying Exam by the end of the third year, although it is recommended that students

entering with an M.A. take it by the end of their second year. Before starting dissertation research, each student must have an approved Dissertation Prospectus. The Ph.D. dissertation is written by the student under the supervision of a committee of three members of the University faculty.

Financial Aid: Outstanding applicants are nominated for University Fellowships of various kinds, which top candidates are normally offered. The department also offers financial support in the form of Graduate Student Instructorships and internal fellowships from Block Grants and endowments (the Carl Sauer, the Holway, Kenneth and Florence Oberholtzer, McCone, Brechin-Chlebowski and the Society of Woman Geographers).

UNDERGRADUATE: Admission: The Berkeley campus is on a semester calendar, with the Fall semester beginning in late August. The application filing period for the Fall semester, for both freshman and transfer applicants, is the month of November; applications must be postmarked no later than November 30. The UC application for admission to the fall term is available in early October. You may submit an application electronically at: www.universityofcalifornia.edu/apply or you may print the form for mailing from the same site. Online completion of the application is encouraged.

Degree Requirements: Geography majors must take three lower division courses, and at least eight upper division courses. Of the latter, there are two options: majors complete five courses in one specialty group and two in the other, plus one methodology course; or majors complete four courses in one specialty group and two in the other, plus two methodology courses. The two specialty areas are Earth System Science and Economy, Culture & Society.

The Department offers a Minor that requires a minimum of five upper division courses. Students must maintain an overall grade point average of 2.0 for all courses taken for the minor. A minimum of three courses must be taken on the Berkeley campus. Students must take at least one course in the physical area and one course in the human area from amongst the courses listed in the range of 109-175. Students may select courses in the range of 181-188, but if so there are several that have limited enrollment and require permission of the instructor.

FACULTY:

Jeffrey Q. Chambers, Ph.D., UC Santa Barbara, 1998, Professor — terrestrial ecosystem ecology and biogeography, tropical forests and climate change interactions, landscape dynamics and remote sensing

Sharad Chari, Ph.D., UC Berkeley, 2000, Associate Professor — human geography, historical ethnography, social theory, political economy, development, agrarian studies, capitalism, labor and work, difference/ differentiation, racism, biopolitics, Black radical tradition, materiality, oceanic humanities, India, South Africa, Indian Ocean

John C.H. Chiang, Ph.D., Columbia University, 2001, Professor — tropical ocean-atmospheric dynamics, seasonal and longer-term climate variability, paleoclimate dynamics

Kurt M. Cuffey, Ph.D., University of Washington, 1999, Professor — the paleoclimate record in ice sheets, the dynamics of glaciers and ice sheets, glacial landforms, physical and chemical transformations of polar snowpacks, drainage basin processes

You-tien Hsing, Ph.D., University of California, Berkeley, 1993, Professor — economic restructuring and local states in post-Mao China, the work of overseas Chinese capital networks, technology development in Asia's newly industrialized economies, Asia

Jake Kosek, Ph.D., UC Berkeley, 2002, Associate Professor — cultural politics of nature and difference, science and technology studies, critical race theory, ethics, biopolitics, human and the non-human environmental politics

Laurel G. Larsen, Ph.D., University of Colorado, 2008, Associate Professor — hydroecology, landscape dynamics, complex environmental systems, environmental restoration

Jovan Lewis, Ph.D., London School of Economics, 2014, Assistant Professor — economic anthropology of Jamaica and the USA; cooperation and inequality; constructions of race, economy, and the market.

Robert Rhew, Ph.D., UC San Diego, Scripps Institution of Oceanography, 2001, Associate Professor — terrestrial-atmosphere exchange of trace gases, atmospheric chemistry and composition, halogen biogeochemistry, stratospheric ozone depletion issues

Nathan F. Sayre, Ph.D., Chicago, 1999, Professor — human-environment interactions, ranching and pastoralism, rangeland ecology and management, scale, endangered species, environmental history, urbanization/land use change

Harley Shaiken, B.A., Wayne State, 1977, Professor — industrialization, work organization and global production, Latin America

ADJUNCT FACULTY:

David Wahl, Ph.D., UC Berkeley, 2005 — Central America, Western US, Pacific Islands

AFFILIATED FACULTY:

Teresa Caldeira, PhD, Berkeley, Professor of City and Regional Planning

Pheng Cheah, PhD, Cornell, 1998, Professor of Rhetoric

William Dietrich, Ph.D., University of Washington, 1982, Professor of Earth and Planetary Science

Iryna Dronova, PhD, Berkeley, 2012, Professor of Landscape Architecture and Environmental Planning

Maggi Kelly, PhD, University of Colorado-Boulder, 1996, Professor of Environmental Science, Policy and Management

G. Mathais Kondolf, Ph.D., Johns Hopkins, 1988, Professor of Environmental Planning

Nancy Peluso, PhD, Cornell, 1998, Professor of Environmental Science, Policy and Management

John D. Radke, Ph.D, British Columbia, 1983, Associate Professor of Landscape Architecture and Environmental Planning

Isha Ray, PhD, Stanford, 1997, Professor of Energy Resources

Raka Ray, PhD, University of Wisconsin-Madison, 1993, Professor of Sociology

EMERITI FACULTY:

Paul Groth, Ph.D., UC Berkeley, 1983

Gillian P. Hart, Ph.D., Cornell, 1978

Michael Johns, Ph.D., Johns Hopkins, 1990

Beatriz Manz, Ph.D., SUNY Buffalo, 1977

Norman L. Miller, Ph.D., Wisconsin, 1987

Richard A. Walker, Ph.D., Johns Hopkins, 1977

Michael J. Watts, Ph.D., Michigan, 1979

UNIVERSITY OF CALIFORNIA, DAVIS

GRADUATE GROUP IN GEOGRAPHY

DATE FOUNDED: 1955

REORGANIZED AS GRADUATE GROUP: 1994

DEGREES OFFERED: M.A., Ph.D.

GRANTED 7/1/17-6/30/18: 4 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 69

CHAIR: Robert Hijmans

PROGRAM COORDINATOR: Carrie Armstrong-Ruport

GRADUATE ADVISORS: Lynette Hart; Robert Hijmans;

Jay Lund; Patsy Owens; James Quinn

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Carrie Armstrong-Ruport, Geography Graduate Group, Department of Human Ecology, One Shields Avenue, University of California, Davis, California, 95616. Telephone (530) 752-4119. E-mail: caruport@ucdavis.edu. Internet: <http://geography.ucdavis.edu/>.

PROGRAMS AND RESEARCH FACILITIES: Graduate degrees in Geography are offered through the Graduate Group in Geography (hereafter GGG), which is an interdepartmental group with faculty from the Colleges of Agricultural and Environmental Sciences, Biological Sciences, Engineering, Letters and Science, and the Schools of Medicine and Veterinary Medicine. With over 60 geography affiliated faculty members in 20 departments across campus, in terms of the number and diversity of affiliated faculty, we are among the nation's largest geography program. The graduate group structure emphasizes interdisciplinary research interests amongst faculty and students.

Faculty interests in the GGG are diverse and attract students in environmental geography and related natural and social science, and engineering fields, as well as in human geography. The instructional program includes core classes that cover the history of geography, current development debates in the field, and quantitative and qualitative methods. Faculty and students conduct their research throughout the world.

UC Davis is one of the nation's top research universities. The park-like campus is home to about 35,000 students, with more than 7,000 students engaged in graduate or professional studies. Davis is in the heart of the California Central Valley and in close proximity to the Pacific Ocean and the Sierra Nevada, providing outstanding research opportunities at UC research and field stations. It is also near two major urban centers: Sacramento, the state capital, lies 15 minutes east; San Francisco is 75 miles west.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, and

FINANCIAL AID: The Geography Graduate Group offers the Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) degrees. Normally, admission into the graduate program is for full-time status, and in Fall Quarter only. Applicants should be prepared in geography or a related field. Students must contact the faculty to identify a major professor during the admission process.

The minimum admission requirement is a grade point average of B (3.0 out of 4.0) in upper-division course work taken during the applicant's last two years as an undergraduate, or other evidence of comparable scholarship. The GRE General Test is also required. Test should have been taken within the past five years. The TOEFL iBT is required of all applicants whose native language is not English, or whose education was not in English. A minimum score of 80 is required. Complete online applications for both admission and financial aid must be received by December 15 to the GGG for fellowship, block grants and out-of-state fee waivers.

To obtain materials visit the GGG website at <http://geography.ucdavis.edu>. Contact the GGG Program Coordinator, Department of Human Ecology, One Shields Avenue, University of California, Davis, CA 95616. Telephone: (530) 752-4119. E-mail: caruport@ucdavis.edu.

FACULTY:

Javier Arbona — race, space, and memory; histories of colonialism and imperialism, particularly with relationship to urbanization and cities; critical military, security, and policing studies; experimental geography and art practices; urban, architectural, and spatial theories

Gwen Arnold — environmental policy; common-ground resource theory and management; bureaucratic decision-making in resource management; hydraulic fracturing (fracking); institutional analysis; social networks

- Tom Beamish* — social and organizational response to environmental change and disaster
- Stephen Boucher* — international agricultural development; Agricultural credit and insurance markets
- Noli Brazil* — spatial demography; neighborhood inequality; residential mobility; urban; sociology of education
- Catherine Brinkley* — public health outcomes around the food-energy-waste nexus. Qualitative methods and social network mapping and spatial analytics to understand farm-to-city services such as food supply and waste-to-energy
- Mary L. Cadenasso* — crop and ecosystem sciences, horticultural sciences
- Dave Campbell* — public policy and community governance; citizenship and civic engagement; non-profit and faith-related organizations; program evaluation
- Clare Cannon* — political economy and the environment, global and urban sustainability, gender and society, climate change and disasters, and mixed-methodologies
- Mark Cooper* — political ecology, geographical political economy and economic geography, science and technology studies, applied ethics, critical policy studies, cultural economy, environmental sociology, and animal studies
- Diana Davis* — environmental history, veterinary history, colonialism, political economy, Middle East and North Africa, pastoral societies and arid lands
- David de la Peña* — participatory design, autonomous communities, architecture, urban design, sustainable site-planning, urban agriculture
- Adela de la Torre* — HIV prevention in high risk groups in Mexico and Nigeria, binational/border health, immigration policy in the US and Latin America, health, education and income disparities in the US; gender, health and geography
- Natalia Deeb-Sossa* — borderlands, in-betweenness and instability, sites of boundary-making and fragmentation, but also resistance and continual reconstruction
- Ryan E. Galt* — cultural and political ecology, agricultural and environmental governance, political economy of sustainable agriculture, cartographic design, the Americas
- Steven Greco* — conservation, restoration, geographic information systems (GIS), North America
- Luis Guarnizo* — economic sociology, transnational migration, immigrant entrepreneurs, comparative international development, citizenship
- Erin Hamilton* — sociology, social demographics
- Susan L. Handy* — transportation and land use, travel behavior
- Andrew Hargadon* — designing programs that align industry and entrepreneurship with university research, in particular in the fields of sustainable technologies
- Lynette Hart* — companion animals, elephants, Africa, North America
- Bruce Haynes* — sociology
- Rebecca Hernandez* — the ecology, ecosystems, and sustainability of arid lands globally. The geography of energy, the land-energy-environment nexus. Biogeography and spatiotemporal dynamics of soil biogeochemistry and microbes in arid land ecosystems
- Robert Hijmans* — agricultural geography, biodiversity conservation, spatial data science
- Benjamin Houlton* — global change impact assessments; computational modeling of Earth processes; global biogeochemical cycles and climate change; Earth system science; planetary health
- Hsuan Hsu* — literary representations of space, environment, and inequality
- Yufang Jin* — remote sensing of terrestrial ecosystems, fire disturbance, ecophysiology, biogeochemical cycle, climate change, and GIS
- Carl Keen* — teratology and birth defects, North America, Southeast Asia
- Martin Kenney* — Silicon Valley and regional development, Asian overseas investments, electronics industry
- Pete Klimley* — movements of fishes, sharks and marine mammals relative to their social and physical environments; ultrasonic, radio and satellite telemetry; mechanisms of orientation and migration
- Kurt Kornbluth* — biological and agricultural engineering
- William Lacy* — sociology of science, organization and structure of agricultural research and extension (U.S. and international), social psychology of education and outreach, international research and higher education policy and practices
- Frank Loge* — design and function of sustainable urban system; landscape ecology related to fisheries management; ecologies of infectious diseases; interconnection between water and energy systems
- Jonathan London* — environmental justice, rural community development, participatory action research, political ecology, Central Valley
- Mark Lubell* — environmental policy, community-based management, social networks, human cooperation, quantitative analysis
- Travis Lybbert* — economic development; poverty dynamics, risk & uncertainty; technology transfer & adoption, intellectual property
- Jay R. Lund* — resource management and planning, water resources, urban geography
- Amima Mama* — focusing on the contribution research can make in the pursuit of social justice and feminist agendas and community advocacy
- Beth Middleton* — North America and Caribbean. Native American community/economic development; political ecology; Federal Indian law; Native American natural resource policy; qualitative GIS; indigenous geography and cartography; Afro-indigeneity; intergenerational trauma and healing; participatory research methods; rural environmental justice; multi-cultural dimensions of conservation, land use, and planning
- Brett Milligan* — designed and managed landscapes; urban geography; ecology of infrastructure; landscape modeling; representation and performance metrics; climate change adaptation; theory of accelerated landscape change
- Elizabeth Mitcham* — research covers a diverse range of topics from fundamental to applied aspects of postharvest biology and technology
- Erwin Monier* — support decision making, policy implementation and climate mitigation and adaptation solutions by improving the modeling of global environmental change impacts on society
- Frances Moore* — social and economic impacts of climate change; adaptation; climate policy; impacts on agriculture; risk management
- N. Claire Napawan* — design of the built environment and investigating the roles in which landscapes might adapt to provide ever-increasing productive and infrastructural programs to the global city, given economic, social, and environmental changes within urban development, including population growth and climate change
- Bettina Ng'weno* — states and property in Latin America and Africa. The construction and mobilization of space with a focus on governance, categorization, citizenship, territory and movement. Social production of space and the stories and histories told about emplacement and the movement of ideas, people and things between Africa and Asia
- Debbie Niemeier* — transportation-air quality modeling and policy, sustainability, and environmental justice
- Lorence R. Oki* — environmental horticulture and water quality
- Patsy Eubanks Owens* — environments of children and adolescents, community participation
- Nicholas Pinter* — geomorphology: the geology of the earth-surface; human influences on landscapes and geomorphic processes; rivers, flooding, and floodplain management
- Noha Radwan* — Arabic and comparative literature
- Michael Rios* — political geography, urban design, community development

Robyn Rodriguez — how understandings of belonging are changing with increased mobility across borders and whether citizenship regimes are being reconfigured as a consequence. She has explored these concerns with a particular focus on contractual laborers from the Philippines

Hugh Safford — community and landscape ecology, fire ecology, restoration ecology and biogeography

Mark Schwartz — taxonomic and geographical aspects of conservation biology

Kate Scow — land, air and water resources

Art Shapiro — evolution, population dynamics, North-South America

Aaron Smith — agriculture and resource economics, econometrics, finance

Edward Spang — food-water-energy nexus; environmental indicators; systems analysis; water and energy resource management; environmental policy; clean technology

Smriti Srinivas — urban cultures, place-making, utopias, social memory, cultures of the body and performance, religion, South Asia within a comparative context

Julie Sze — gender and the environment

Kenneth Tate — rangeland watershed specialist

Keith Taylor — how communities self-organize for community economic development. For that purpose, I focus on the capacity of cooperative enterprise (and other voluntary associations) in providing for community economic development needs, and how cooperatives 1) contribute to overall community well-being, 2) scale beyond the local community 3) enhance civil society and civil markets

James Thorne — international conservation, transportation, ecology

Thomas P. Tomich — agricultural sustainability, sustainable food systems, sustainability metrics and indicators, sustainability science; geography emphasis includes land use and land cover change

Susan Ustin — geographic information systems (GIS), remote sensing, North America

M. Anne Visser — Social inequality and equity, low wage and informal labor markets, socioeconomic integration and incorporation, public and urban policy

Stephen M. Wheeler — sustainable development; urban design; city and regional planning; land use; climate change

Diane Wolf — women in development, Southeast Asia

Truman Young — plant population and community ecology, restoration, and conservation, Africa

Minghua Zhang — environmental modeling, GIS, risk analysis, agriculture, North America

UNIVERSITY OF CALIFORNIA, LOS ANGELES

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1915

GRADUATE PROGRAM FOUNDED: 1934

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 7/1/17-6/30/18: 157 Bachelors, 7 Masters, 11 Ph.D.

STUDENTS IN RESIDENCE: 303 Majors, 180 Minors, 54 Graduate Students

CHAIR: Gregory S. Okin

MANAGER: Kasi McMurray

FOR FURTHER INFORMATION WRITE TO: Graduate Adviser, Department of Geography, University of California, Box 951524, Los Angeles, California 90095-1524. Telephone (310) 825-1071. Fax (310) 206-5976. Internet: www.geog.ucla.edu.

PROGRAMS AND RESEARCH FACILITIES: Producing geographers of the highest quality is the principal goal of UCLA's graduate program, designed primarily for students pursuing the Ph.D. degree. The M.A. Program serves as an essential building block of the doctoral program. The doctorate is awarded to those students who have achieved the level of geographical knowledge and training required of a professional geographer. The degree affirms the ability of its holders to make scholarly contributions in their fields of specialization and to undertake advanced research in those areas.

The research and teaching interests of the faculty cover major areas of geographical knowledge and underlie the graduate program. Broadly grouped these areas include biogeography, physical geography, environmental studies, human geography, regional geography, geographical procedures, and the history and philosophy of geography (see the faculty listing for specific specializations).

Many other distinguished departments in cognate disciplines contribute to the strength of the department. Strong area studies programs exist for Africa, Asia, Europe and Latin America. In addition to departmental faculty several other geographers teach in the Urban and Regional Planning Program.

UCLA provides an enormous range of resources for graduate training and research. The library system contains over five million volumes and one of the largest collections of maps in the western United States.

In the department are laboratories for work in geomorphology, climatology, biogeography, GIS, remote sensing, computer cartography, and quantitative methods. The campus computing facilities include access to a 3090-mainframe system, a Sun cluster, and a LAN operated by Social Sciences Computing (SSC). The SSCnet provides a high level of connectivity, flexibility, power, and service to users (including full Internet access, on-line databases, and an array of software for word-processing, database and spreadsheet, graphic and cartographic, statistical and mathematical analysis. In Southern California and neighboring Mexico exist a seemingly infinite number of potential opportunities and sites for research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission: Application deadline for entrance in Fall 2020 is December 15, 2019. All admissions materials may be found on the web at www.gdnet.ucla.edu. All application materials must be submitted online: a personal statement, two copies of a complete set of transcripts of prior university coursework, official results of the Graduate Record Examination (GRE), and three letters of evaluation (academic references are strongly recommended). Foreign students applying from outside the United States are not required to take the GRE but must submit official Test of English as a Foreign Language (TOEFL) scores. Normally one should have (1) completed the undergraduate major in geography or in a cognate field, (2) received a B.A./B.S. degree, (3) attained at least a 3.3 grade-point average (GPA) in courses taken in your junior and senior years and in the major for admission to the M.A. program or a 3.5 GPA in graduate courses for students entering the Ph.D. program with a M.A., (4) attained a high GRE score (normally above 1200) in the combined verbal and quantitative sections, (5) strong letters evaluating past academic, and possibly professional, performance and potential for high achievement in graduate studies, and (6) for students applying to the Ph.D., evidence of substantive research in the form of a published paper, thesis chapter, or equivalent documentation.

In addition to the above requirements, admission to the M.A. or Ph.D. program requires that a faculty member from the department express a willingness to serve as interim advisor to the applicant. Students are therefore strongly advised to establish personal contact with potential advisors before application. For a list of faculty and their research interests, please visit www.geog.ucla.edu.

Geography normally admits applicants whose ultimate degree objective is Ph.D. although a M.A. degree may be earned en route to the Ph.D.

M.A. Degree Requirements: Students must complete at least eight courses in addition to two core courses in the history and philosophy of geography and quantitative methods. A thesis is required, based in whole or in part on original investigation.

Ph.D. Degree Requirements: Students must complete eight graduate geography courses (in addition to the two core courses if not already taken during the M.A.) are required. Written and oral qualifying examination precedes dissertation research. The dissertation is the ultimate focus of the Ph.D. program and should make an original contribution to geographic research.

Financial Assistance: The department has limited funding available for graduate students (e.g. teaching assistantships, stipends, tuition assistance and/or other fellowships).

FACULTY:

John A. Agnew, Ph.D., Ohio State, 1975, Professor — political, social, urban geography

Stephen A. Bell, Ph.D., Toronto, 1991, Professor — historical and cultural geography, Latin America, geographic thought

Judith A. Carney, Ph.D., UC, Berkeley, 1986, Professor — cultural geography, environment and development in the Third World, gender issues, Africa

Kyle C. Cavanaugh, Ph.D., UC Santa Barbara, 2011, Assistant Professor — coastal ecology, biogeography, spatial ecology, and remote sensing

Daniela F. Cusack, Ph.D., UC, Berkeley, 2009, Associate Professor — biogeography, tropical ecosystems and soils

Jared M. Diamond, Ph.D., Cambridge, England, 1961, Professor — regulation of nutrient transport; integrative and evolutionary physiology, biogeography

Lieba Faier, Ph.D., UC Santa Cruz, 2003, Associate Professor — gender issues, global migration, Japan, Philippines and the United States

C. Cindy Fan, Ph.D., Ohio State, 1989, Professor — population geography, regional development, quantitative methods, spatial modeling, China

Thomas W. Gillespie, Ph.D., UCLA, 1998, Professor — biogeography, geographic information systems, remote sensing

Jamie M. Goodwin-White, Ph.D., University of Washington, 2005, Associate Professor — population geography

Juan C. Herrera, Ph.D., UC Berkeley, 2013, Assistant Professor — comparative ethnic studies, urban geography, Central American Studies

Kelly A. Kay, Ph.D., Clark University, 2016, Assistant Professor — nature/society relations, environmental politics and policy, North America

Helga M. Leitner, Ph.D., Vienna, Austria, 1978, Professor — international migration, politics of immigration and citizenship, urban development & sustainability, global urbanism, urban social movements, and socio-spatial theory

Dennis P. Lettenmaier, Ph.D., University of Washington, 1975, Professor — hydrologic modeling and prediction, hydrology-climate interactions, and hydrologic change

Glen M. MacDonald, Ph.D., Toronto, 1984, Professor and The John Muir Memorial Chair — biogeography, climate change, environmental change, water resources, drought, and environmentalism

Adam D. Moore, Ph.D., Wisconsin-Madison, 2010, Associate Professor — political geography

Gregory S. Okin, Ph.D., California Institute of Technology, 2001, Professor — physical geography and soils, geomorphology and remote sensing

Shaina S. Potts, Ph.D., UC Berkeley, 2017, Assistant Professor — financial geography, geopolitics of sovereign debt and uneven development

Marilyn N. Raphael, Ph.D., Ohio State, 1990, Professor — physical, climatology, global climate change, cartography/geographic information systems

David L. Rigby, Ph.D., McMaster, 1988, Professor — economic geography, quantitative methods, regional development

Yongwei Sheng, Ph.D., UC Berkeley, 2000, Professor — physical geography, GIS, remote sensing, photogrammetry and global change

Eric S. Sheppard, Ph.D., Toronto, 1976, Professor and The Alexander von Humboldt Chair — geographical political economy, uneven geographies of globalization, neoliberalism, urbanization in the global South, urban sustainability and environmental justice, and critical GIS

Michael E. Shin, Ph.D., Colorado, 1998, Professor — political, applied GIS, quantitative, international relations

Yongkang Xue, Ph.D., Utah, 1994, Professor — climatology, remote sensing

AFFILIATED FACULTY:

Susanna B. Hecht, Ph.D., UCLA Public Affairs/Urban Planning

Ananya Roy, Ph.D., UCLA Public Affairs/Urban Planning

Michael Storper, Ph.D., UCLA Public Affairs/Urban Planning

EMERITI FACULTY:

Charles F. Bennett, Ph.D.

William A.V. Clark, Ph.D.

Michael R. Curry, Ph.D.

J. Nicholas Entrikin, Ph.D.

Gerry Hale, Ph.D.

Antony R. Orme, Ph.D.

Melissa Savage, Ph.D.

Allen J. Scott, Ph.D.

Laurence C. Smith, Ph.D.

Werner H. Terjung, Ph.D.

Norman J.W. Thrower, Ph.D.

Stanley W. Trimble, Ph.D.

Hartmut S. Walter, Ph.D.

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

DEPARTMENT OF GEOGRAPHY

GRADUATE PROGRAM FOUNDED: 1974

DEGREES OFFERED: BA, BA with GIS Emphasis, BS in

Physical Geography, Minor in Spatial Studies, MA, PhD

STUDENTS IN RESIDENCE: 208 Undergraduate Majors,
87 Graduate Students

CHAIR: Stuart Sweeney

FOR CATALOG AND FURTHER INFORMATION,

CONTACT: Graduate Program Advisor: Department of Geography,
University of California Santa Barbara, Santa Barbara, CA 93106-
4060. Telephone: (805) 893-3663; Fax: (805) 893-2578; E-mail:
grad_assistant@geog.ucsb.edu; Internet: www.geog.ucsb.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Department at UCSB offers specialized graduate training leading toward the Master's and PhD degrees. Faculty expertise and graduate training map into the following domains:

GEOGRAPHIC INFORMATION SCIENCE AND GEOINFORMATICS: This domain includes the department's historic and continuing strengths in geographic information systems and sciences, remote sensing, and cartography. All of these address aspects of representing, retrieving, integrating, and visualizing spatial and temporal information. Research and training in this area ranges

from geo-visualization, spatial data science and advanced spatial analysis, data infrastructures, information retrieval, and semantics to transportation systems modeling and simulation.

URBAN ANALYTICS AND REGIONAL SCIENCE: This includes a broad range of topics and methods applicable to problems in transportation, urban/regional planning, economic geography, and conservation planning. The department has particular expertise in developing and applying methods of spatial optimization and decision support.

POPULATION AND HEALTH: The focus of this domain includes traditional topics from demography and public health as they manifest in place (migration, disease transmission, health disparities, population-environment-development, etc.). Students in this domain usually pursue the interdisciplinary graduate emphasis in Demography and research frequently involves a field component.

COGNITIVE AND BEHAVIORAL SCIENCES: This research domain highlights how people understand, learn about, and interact with the spatial environment. The domain includes topics such as spatial decision-making, navigation and wayfinding, sense of place, activity spaces, and spatial cognitive neuroscience. Training in cognitive and behavioral sciences is highly interdisciplinary, and students in this area often pursue a graduate emphasis in Cognitive Science.

TERRESTRIAL SCIENCES: This domain includes expertise in earth system science, including biogeochemistry, soil science, geomorphology, hydrology, ecohydrology, urban ecology, glaciology and biogeography. Field methods are strongly emphasized in this domain, often combined with advanced use of quantitative geospatial analysis using remote sensing and modeling.

OCEAN SCIENCE: This domain includes many aspects of interdisciplinary marine science including spatial ecology, ocean circulation, coastal and estuarine processes, marine ecosystems, ocean biogeochemistry, and climate change. Training ranges from numerical modeling, field observations, and remote sensing, to spatial statistics, data assimilation, network theory, and machine learning.

ATMOSPHERIC AND CLIMATE SCIENCE: This domain develops theoretical and applied studies of tropical and polar climate dynamics, environmental fluid mechanics, land-atmosphere interactions, regional air-sea interaction, the Madden-Julian Oscillation, the El Niño/Southern Oscillation, high mountain climates and monsoon systems. This domain uses remote sensing, shore-based and ship-based fieldwork, robotic observations, and land-based instrumental atmospheric observations. Research uses regional and global models to investigate subseasonal to seasonal prediction, cryosphere, climate change, climate hazards, fire-weather regimes, mountain weather and climate, troposphere-stratosphere interactions, ocean circulation, ocean carbon cycle and biogeochemistry.

The Geography faculty at UCSB have close research and teaching relationships with other disciplines, which provides an excellent multi-disciplinary environment for graduate education. The faculty are outstanding researchers and have a strong record of obtaining extramural funding, which provides considerable support for graduate students. The Department of Geography is the administrative home to UCSB's Center for Spatial Studies (spatial@ucsb) and is closely coupled with the UCSB Earth Research Institute as well as several other cross-disciplinary emphases and centers.

JOINT DOCTORAL PROGRAM WITH SAN DIEGO STATE UNIVERSITY (SDSU): The Geography Departments at UCSB and SDSU collaborate to offer a distinctive PhD in Geography that takes advantage of the strengths and environments of both departments. Students in the program will have a PhD supervisory committee with a main adviser from SDSU but at least one or two members from

UCSB. They will typically be in residence at SDSU throughout their graduate career but spend one year in residence at UCSB. See <http://www.geog.ucsb.edu/graduates/affiliated-programs/#sdsu>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Applications are to be made to the Admissions Office, UCSB. Admission requirements are the same for all undergraduates entering the University of California Santa Barbara.

GRADUATE: UCSB operates on the quarter system. Fall quarter admission only. Students applying for entrance to the program should have a demonstrated capability in Geography or other appropriate fields, have acquired a high grade point average (at least 3.25) during the junior/senior years, and should submit verbal and quantitative GRE scores upon formal application (combined verbal and quantitative scores should exceed 301/ 1100 on previous scale). The Department has a number of teaching assistantships and research assistantships available, and students may also apply for University fellowships.

FACULTY:

Elizabeth Ackert, PhD, Sociology, Department of Sociology, University of Washington, Assistant Professor — education, immigration, racial and ethnic inequality, social demography, social stratification/inequality, urban community and urban studies

Leila Carvalho, PhD, Meteorology, University of São Paulo, Brazil, Professor — regional and large-scale climate variability and modeling, global climate change, and scaling processes in geophysics

Susan Cassels, PhD, Demography, Princeton University, Associate Professor — epidemiology and mathematical modeling; social network analysis; infectious disease epidemiology

Kelly Caylor, PhD, Environmental Sciences, University of Virginia, Professor — ecology and hydrology of drylands, distributed environmental sensing & sensor development, sub-saharan agriculture, coupled social-environmental systems

Oliver Chadwick, PhD, Soil and Water Science, University of Arizona, Professor — pedology, geomorphology, quaternary geology, soil-water-vegetation interaction and landscape relationships, isotropic fractionations during soil evolution

Liz Chastil, PhD, Cognitive Science, Brown University, Assistant Professor — spatial cognition, spatial neuroscience, navigation, cognition and behavior, perception and action

Vena Chu, PhD, Geography, University of California, Los Angeles, Assistant Professor — remote sensing, Greenland ice sheet meltwater dynamics

Richard Church, PhD, Environmental Systems and Research, Johns Hopkins University, Professor Emeritus — planning and environmental location/allocation modeling, water resources planning, operations research methods

Keith Clarke, PhD, Analytical Cartography, University of Michigan, Professor — cartography and GIS

Helen Couclelis, PhD, Urban Modeling, Cambridge University, Professor Emerita — spatial theory and modeling, behavioral geography, planning, and philosophy of science

Timothy DeVries, PhD, Earth System Science, University of California, Irvine, Associate Professor — ocean circulation and biogeochemistry, carbon cycle, climate change, numerical modeling

Tommy Dickey, PhD, Geophysical Fluid Dynamics, Princeton University, Professor Emeritus — atmosphere-ocean interactions and upper ocean mixing, turbulence and internal waves, bio-optics, biogeochemistry, and biological-physical interactions

Qinghua Ding, PhD, Meteorology, University of Hawaii, Assistant Professor — climate dynamics

Somayeh Dodge, PhD, Geographic Information Science, University of Zurich, Assistant Professor — geographic information science (GIScience) and spatial data science, spatiotemporal processes

Vamsi Ganti, PhD, Civil Engineering, University of Minnesota, Twin Cities, Assistant Professor — physical sedimentology, geomorphology, quantitative interpretation of the sedimentary record

Catherine Gautier, PhD, Physics and Meteorology, University of Paris, Professor Emerita — radiative transfer, earth radiation budget and cloud processes, large scale hydrology and surface/atmosphere interaction, global processes, and earth system science

Michael Goodchild, PhD, Geography, McMaster University, Professor Emeritus — urban and economic geography, geographic information systems, and spatial analysis

Konstadinos Goulias, PhD, Civil Engineering, University of California, Davis, Professor — transportation planning and modeling, travel behavior, behavioral dynamics, and microsimulation

Krzysztof Janowicz, PhD, Geoinformatics, University of Münster, Germany, Associate Professor — geographic information science, semantic web, sensor web, mobile computing, geographic information retrieval, gazetteers, similarity and context

Charles Jones, PhD, Land, Air, and Water Resources, University of California, Davis, Professor — precipitation variability, extreme events, weather forecasts, predictability studies, regional modeling, monsoon systems, and climate change

Jennifer King, PhD, Earth System Science, University of California, Irvine, Professor — biogeochemistry, earth system science, global change, ecosystem ecology, plant-soil-atmosphere interactions

Werner Kuhn, Dr.sc.techn., Surveying Engineering, ETH Zurich, Professor — geographic information science, usability, semantics of spatial information, ontology of the environment, linked data, semantic reference systems

Hugo Loaiciga, PhD, Civil Engineering, University of California, Davis, Professor — planning, design, and analysis of water resource systems; theory and computational aspects of surface and groundwater hydrology

David Lopez-Carr, PhD, Geography, University of North Carolina, Chapel Hill, Professor — population (migration, fertility), health, environmental change, deforestation, rural development, Latin America

Joe McFadden, PhD, Integrative Biology, University of California, Berkeley, Associate Professor — land-use and land-cover change, biosphere-atmosphere interactions, Earth system science, sustainability science, urban ecology

Joel Michaelsen, PhD, Geography, University of California, Berkeley, Professor Emeritus — climatology, meteorology, and statistics

Dan Montello, PhD, Psychology, Arizona State University, Professor — spatial perception, cognition, and behavior, cognitive issues in cartography and GIS, spatial aspects of social behavior, environmental psychology and behavioral geography

Alan Murray, PhD, Geography, University of California, Santa Barbara, Professor — location modeling, urban and regional planning, spatial optimization, sustainability

Nick Nidzieko, PhD, Environmental Fluid Mechanics, Stanford University, Assistant Professor — coastal physical oceanography

Dar Roberts, PhD, Geological Sciences, University of Washington, Professor — remote sensing of vegetation, geology, ecology, and ecophysiology

Dave Siegel, PhD, Ocean Physics, University of Southern California, Professor — numerical simulation of small-scale thermocline motions, bio-optical oceanography, mixing and turbulence, the role of radiative processes in air-sea processes, kinematics and dynamics of oceanic particulates

Ray Smith, PhD, Physics, Stanford University, Professor Emeritus — remote sensing of oceans, physical and biological oceanography, primary production and bio-optical modeling in aquatic environments, with emphasis on Antarctic ecosystems, marine and sea ice ecology of Southern Ocean, UV effects on phytoplankton, optical / biological / physical oceanography, marine resources, remote sensing of oceans, and earth systems science

Terry Smith, PhD, Geography and Environmental Engineering, Johns Hopkins University, Professor Emeritus — river geomorphology, computational modeling, individual and aggregate decision making, artificial intelligence

Stuart Sweeney, PhD, City and Regional Planning, University of North Carolina, Chapel Hill, Professor — applied statistics, population and development geography, agricultural systems and livelihoods, Central America, Mexico, Africa

Anna Trugman, PhD, Program in Atmospheric and Oceanic Sciences, Princeton University, Assistant Professor — terrestrial ecosystems, climate change, climate-vegetation interactions, vegetation modeling

Libe Washburn, PhD, Engineering Sciences, University of California, San Diego, Professor — coastal circulation, mesoscale processes, air-sea interactions, interdisciplinary oceanography

UNIVERSITY OF REDLANDS

DEPARTMENT OF GEOGRAPHIC INFORMATION SCIENCE

DATE FOUNDED: January 2002

DEGREES OFFERED: Master of Science in GIS (MS GIS), Master of GIS (MGIS)

START DATES: September & January

DEPARTMENT CHAIR: Prof. Fang Ren

SENIOR GIS DEPARTMENT COORDINATOR: Andrea Alvarado

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: MS GIS Program, PO Box 3080, Redlands, CA 92373-0999.
Phone: 909-748-8128. Fax: 909-335-5388. Email: mngis@redlands.edu. Department website: www.redlands.edu/gis.

PROGRAM DESCRIPTION:

MS GIS Program

The Master of Science in Geographic Information Systems (GIS) Program is designed for professionals and recent graduates seeking to enhance their knowledge of the analysis, management, and communication of geographic information. It combines the development of strong technical skills and in-depth understanding of geographic information science and theory. The one-year program consists of 10 months of coursework and the undertaking of a Major Individual Project (MIP). Each of the six terms are seven weeks in length and the annual schedule allows for two three-week breaks. Student cohorts begin each year in September and January. The two-year program consists of up to 12 seven-week terms, with corresponding three week breaks as in the one-year program. Core theory courses and hands-on technology courses are provided in the first four terms. Project management courses is directed toward building students' skills in project design and implementation, which accompanies their MIPs. Students receive intensive multi-day, instructor-led courses from the current Esri software training curriculum. Various GIS workshops and colloquia give students exposure to cutting-edge research and developments in GIS. Upon completion of this program, students will be able to:

- Understand the spatial aspects of an external client's GIS needs and develop a practical project plan for addressing these needs,

- Design, compile, and develop a spatial database and a set of analytical tools into a system appropriate to the problem,
- Demonstrate a mastery of geographic analysis and cartographic skills,
- Communicate the project process and the results in written, oral, and graphic medium at a professional level.

MGIS Program

The Master of Geographic Information Systems (MGIS) degree is designed for professionals who look for an accelerated program to enhance their knowledge of the analysis, management, and communication of geographic information. It combines the development of strong technical skills and in-depth understanding of geographic information science and theory. The program consists of 8 months of coursework and the undertaking of an internship of 400 hours. Each of the four terms are seven weeks in length and the annual schedule allows for one three-week break. Student cohorts begin each year in September and January. Upon completion of this program, students will be able to:

- Demonstrate understanding of the principles underlying spatial analysis in all its variations,
- Demonstrate mastery of high level skills in spatial analysis and geospatial problem solving,
- Communicate and present project process and outcomes effectively,
- Demonstrate competency in the use of various geospatial software and applications.

ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Admission requires a Bachelor's degree in any field, with a 3.0 minimum GPA. Two or more years of professional GIS experience is preferred, but not required. Applicants without two years' experience may substitute two university-level courses in GIS and/or an internship lasting four or more months. All information regarding the admission requirements and financial aid can be found at www.redlands.edu/gis.

ADDITIONAL RESOURCES: The MS GIS Program at the University of Redlands benefits from a close relationship with Esri, a leading GIS software company which is headquartered in Redlands. Esri is a source of adjunct faculty, software training, and access to cutting-edge technology and company facilities. A co-sponsored colloquium brings world-renowned speakers on GIS and its applications to the Redlands area.

FACULTY:

Fang Ren, Ph.D., Professor and Department Chair — Statistics, Spatial Analysis, GIS
Douglas M. Flewelling, Ph.D., Professor — Geographic Database Design and Implementation, GIS Software Development, GIS
Mark P. Kumler, Ph.D., Professor — Cartography, Visualization, GIS
Ruijin Ma, Ph.D., Associate Professor — Geodesy, Photogrammetry, Remote Sensing, GIS

UNIVERSITY OF SOUTHERN CALIFORNIA

SPATIAL SCIENCES INSTITUTE

DATE FOUNDED: 2010

DEGREES OFFERED: B.S., Geodesign; B.S., Global Geodesign; Minor, GIS and Sustainability Science; Minor, Human Security and Geospatial Intelligence; Minor, Spatial Studies; M.S., Geographic Information Science and Technology (online); M.S., Human Security and Geospatial Intelligence (online); M.S., Spatial Data

Science; M.S., Spatial Economics and Data Analysis; Graduate Certificate, Geographic Information Science and Technology (online); Graduate Certificate, Geospatial Intelligence (online); Graduate Certificate, Geospatial Leadership (online); Graduate Certificate, Remote Sensing for Earth Observation; Graduate Certificate, Spatial Analytics; Ph.D., Population, Health and Place

CHAIR: Dr. John P. Wilson

ADMINISTRATIVE ASST: Stephanie Tran

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Kendrick Watson, Spatial Sciences Institute, University of Southern California, 3616 Trousdale Parkway, AHF B55, Los Angeles, CA 90089-0374. Telephone: (213) 740-9687. Web: <http://spatial.usc.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The University of Southern California has recently embarked on an initiative to build excellence in geographic information science and to promote spatial thinking across the natural and social sciences, the humanities, and the professions. This initiative is led by the Spatial Sciences Institute and the spatial sciences are first, cast in terms of all the ways that geography (place, space, etc.) can be used to acquire, organize, represent, analyze, model, and visualize information and second, to explore the various ways in which the human condition and environment are intertwined. The Spatial Sciences Institute is housed in the Allan Hancock Foundation Building and includes faculty and staff offices, two conference rooms, an instructional computer laboratory, a collaborative classroom, and dedicated spaces for graduate and undergraduate student researchers. The Institute boasts an impressive array of computing technologies dedicated to research and education. Both online and residential students are provided with state-of-the-art geographic information technologies via dedicated virtual desktops and servers and residential students can access these same tools through a dedicated student research laboratory and a mobile laboratory that we use for teaching at the Wrigley Marine Science Center on Catalina Island. These platforms power a multitude of applications, including the entire suite of industry-standard GIS applications from Esri and GPS applications from Trimble, specialty software like the ERDAS remote sensing, Pix4D photogrammetry and drone mapping, and TerrSet geospatial monitoring and modeling software suites, the latest in virtualization technologies from VMWare, and an ever-growing suite of open sources tools and plugins. All of the aforementioned computer facilities are supported by Dornsife College Technology Services and a dedicated systems administrator housed in the Spatial Sciences Institute. The Spatial Sciences Institute is also an Esri Development Center and a founding member of the UNIGIS International Association, a worldwide consortium of 10+ institutions which collaborates on the development and delivery of online geographic information science academic programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Students already enrolled at the University of Southern California can major in Geodesign or Global Geodesign and minor in GIS and Sustainability, Human Security and Geospatial Intelligence, or Spatial Studies.

GRADUATE: Online M.S. degrees are offered for students specializing in Geographic Information Science & Technology (GIST) or Human Security and Geospatial Intelligence (HSGI) and Graduate Certificates are offered for students specializing in Geographic Information Science & Technology, Geospatial Leadership, Geospatial Intelligence, and Remote Sensing for Earth Observation. These graduate programs draw on the experience and expertise of an active research faculty as well as the resources and opportunities afforded by a major research university located in a world-class metropolis. The minimum requirements for admission to the graduate

programs are a B.A. or B.S. degree from an accredited institution and an overall grade point average of 3.0 or higher for all undergraduate work completed. Students are admitted to the GIST and HSGI M.S. degrees and four aforementioned Graduate Certificate programs all three semesters. Students interested in the M.S. in Spatial Data Science (SPDS) which is offered jointly by the Department of Computer Science and Spatial Sciences Institute should apply through the Department of Computer Science. Students interested in the M.S. in Spatial Economics and Data Analysis (SEDA), which is jointly offered by the Department of Economics and Spatial Sciences Institute, should apply through the Spatial Sciences Institute. Students are admitted to the SEDA and SPDS M.S. degrees in fall and spring semesters. The Spatial Analytics Graduate Certificate serves students enrolled in a doctoral program at USC and the Population, Health and Place Ph.D. degree is an interdisciplinary program led by the Spatial Sciences Institute and offered jointly by the Dana and David Dornsife College of Letters, Arts and Sciences and the Keck School of Medicine of USC. This program is administered by the Spatial Sciences Institute and students apply before 1 December each year for admission in the following fall semester.

FACULTY:

- Jennifer Bernstein, Ph.D., University of Hawaii, 2017, Lecturer* — American environmentalism, Western American environmental history, online teaching and learning, California geography
- Yao-Yi Chiang, Ph.D., University of Southern California, 2010, Associate Professor (Research)* — geospatial data integration, digital map processing, graphics recognition, pattern recognition, image processing
- Leilei Duan, Ph.D., University of Florida, 2018, Lecturer* — geodesign, spatial analysis, GIS in urban planning, 3D visualization, quality of life and the built environment, network analysis
- Steven D. Fleming, Ph.D., University of Georgia, 2004, Professor of the Practice of Spatial Sciences* — geospatial intelligence, remote sensing, physical geography, GIS, cartography, photogrammetry
- Jason Knowles, Ph.D., Louisiana State University, 2008, Adjunct Associate Professor of the Practice of Spatial Sciences* — GIS, geospatial intelligence, physical geography, remote sensing, spatiotemporal analysis
- Su Jin Lee, Ph.D., University of Southern California, 2012, Lecturer* — GIS, remote sensing, human and environmental interaction, solar radiation modeling, terrain analysis, land use, land cover change
- Laura C. Loyola, Ph.D., University of Southern California, 2015, Lecturer and Director of Undergraduate Studies* — GIS, human and evolutionary biology, anthropology, remote sensing
- Andrew Marx, Ph.D., University of Maryland, College Park, 2013, Associate Professor of the Practice of Spatial Sciences* — geospatial intelligence, remote sensing, spatio-temporal analysis, human rights, GIS
- Katsuhiko (Kirk) Oda, Ph.D., Texas A&M University, 2011, Assistant Professor (Teaching)* — spatial thinking, GIS education, GIS, walkability, spatial cognition
- Darren Ruddell, Ph.D., Arizona State University, 2009, Associate Professor (Teaching)* — geospatial technologies, climate and society, human-environment interactions, geodesign, urban sustainability
- Elisabeth A. Sedano, Ph.D., University of Southern California, 2014, Lecturer* — urban geography, web mapping, volunteered geographic information, outdoor advertising
- Jennifer N. Swift, Ph.D., Bogazici University Istanbul, 1995, Associate Professor (Teaching)* — GIS, web GIS, mobile GIS, data modeling, geodesign, online education
- Christopher Verlinden, Ph.D., Scripps Institute of Oceanography, 2017, Lecturer* — GIS, remote sensing, geospatial intelligence, ocean acoustics
- Robert O. Vos, Ph.D., University of Southern California, 1999, Assistant Professor (Teaching) and Director of Graduate Studies* — industrial ecology, GIS assessment of carbon footprinting, environmental politics and policy
- John P. Wilson, Ph.D., University of Toronto, 1986, Professor, Department of Sociology and Director, Spatial Sciences Institute* — geographic information science, geodesign, spatial analysis, environmental modeling, health
- An-Min Wu, Ph.D., University of Minnesota, 2014, Lecturer* — soil science, geospatial technology, remote sensing, environmental GIS

AFFILIATED FACULTY:

- Jennifer Ailshire, Ph.D., University of Michigan, 2009, Assistant Professor (Davis School of Gerontology)* — social determinants of health, health disparities, aging and the life course, social relationships, social demography, spatial methods, quantitative methods
- George Ban-Weiss, Ph.D., University of California, Berkeley, 2008, Assistant Professor (Department of Civil and Environmental Engineering)* — global and regional climate modeling, effects of atmospheric particles and land-use on climate and air quality
- François Bar, Ph.D., University of California, Berkeley, 1990, Associate Professor (Annenberg School for Communication)* — social and economic impacts of information technologies, telecommunication policy, user driven innovation, technology appropriation
- Myles G. Cockburn, Ph.D., University of Otago, 1999, Professor (Departments of Dermatology and Preventive Medicine)* — health GIS, cancer epidemiology, environmental epidemiology, melanoma, prostate cancer
- Elizabeth Currid-Halkett, Ph.D., Columbia University, 2006, Associate Professor (Price School of Public Policy)* — city data, economic geography, economic development, cultural economy, social networks
- Maged Dessouky, Ph.D., University of California, Berkeley, 1992, Professor and Director (Department of Industrial and Systems Engineering)* — production and operations management, modeling of manufacturing processes and systems, operations research applications to industrial systems
- Philip J. Ethington, Ph.D., Stanford University, 1989, Professor (History and Political Science) and Co-Director, Center for Transformative Scholarship* — digital humanities, cartography, urban history, visual culture, immigration, race relations
- Laura Ferguson, Ph.D., London School of Hygiene and Tropical Medicine, 2011, Assistant Professor (Department of Preventive Medicine)* — global health, human rights, population health, health systems
- Brian Finch, Ph.D., University of Texas at Austin, 2000, Professor (Research) (Sociology)* — social demography, social epidemiology, social stratification and inequality, social statistics
- Meredith Franklin, Ph.D., Harvard University, 2007, Assistant Professor (Department of Preventive Medicine)* — spatial statistics, environmental statistics, atmospheric science
- Yolanda Gil, Ph.D., Carnegie Mellon University, 1992, Research Professor and Associate Director of Data Science for Joint Degrees (Department of Computer Science)* — artificial intelligence, discovery informatics, scientific workflows, social knowledge collection, knowledge management
- Sofia Gruskin, J.D., Yeshiva University, 1990, Professor (Department of Preventive Medicine, Gould School of Law)* — health and human rights, global health and population, reproductive health
- Matthew E. Kahn, Ph.D., University of Chicago, 1993, Professor and Chair, Department of Economics* — environmental economics, economic development, sustainability, climate change, urban growth

Craig A. Knoblock, Ph.D., Carnegie Mellon University, 1991, Professor (Research) (Computer Science) and Interim Director of the Information Sciences Institute — data extraction from the Web, information gathering, artificial intelligence

Lon Kurashige, Ph.D., University of Wisconsin, Madison, 1994, Professor (Department of History) — Asian-American history, emigration/immigration, racial ideologies, ethnic identity politics

Steven Lamy Ph.D., University of Denver, 1980, Professor (International Relations) — human security, international relations theory, foreign policy analysis, global politics,

Lihua Liu, Ph.D., University of Southern California, 1996, Associate Professor (Preventive Medicine) — demography, medical sociology, cancer surveillance, spatial distributions

Ryan McAlinden, M.S., University of Southern California, Adjunct Assistant Professor of the Practice of Spatial Sciences — live, virtual and constructive simulations, unmanned aerial systems, game-based technologies, geospatial data and technologies

Rob McConnell, Ph.D., University of California School of Medicine San Francisco, 1980, Professor (Preventive Medicine) — community-based interventions to control environmental exposures, environmental health educational programs, epidemiological studies relating health outcomes to environmental exposures

Vanessa Osborne, Ph.D., University of California, Irvine, 2007, Assistant Professor (Writing Program) — 20th Century American literature, popular culture

Michael Orosz, Ph.D., University of California Los Angeles, 1999, Research Associate Professor (Civil and Environmental Engineering) — data security, cyber crime, homeland security, port security, intelligent human-computer interfaces

Ann Owens, Ph.D., Harvard University, 2012, Associate Professor (Department of Sociology) — spatial analysis, quantitative analysis, urban sociology, social stratification, social policy

Nathan Perl-Rosenthal, Ph.D., Columbia University, 2011, Associate Professor (History) — political and cultural history, eighteenth century North Atlantic, revolutions

Mansour Rahimi, Ph.D., Virginia Polytechnic Institute, 1982, Associate Professor (Department of Industrial and Systems Engineering) — engineering sustainable systems, industrial ecology, design for environment, eco-industrial development

Alexander Robinson, M.L.A., Harvard University, 2005, Assistant Professor (School of Architecture) — GIS mapping, landscape architecture design, landscape performance and infrastructure

Kelly T. Sanders, Ph.D., University of Texas at Austin, 2013, Assistant Professor (Department of Civil and Environmental Engineering) — analytical modeling of urban and agricultural systems; sustainable energy, water, and waste management

Jeffrey Sellers, Ph.D. Associate Professor (Political Science, Public Policy) — political geography, comparative politics, urban and regional political economy, multilevel governance and federalism, state-society relations

Cyrus Shahabi, Ph.D., University of Southern California, 1996, Professor and Chair, Department of Computer Science (Departments of Computer Science and Electrical Engineering) — databases, GIS, multimedia

Emily Smith-Greenaway, Ph.D., Penn State University, 2014, Assistant Professor (Sociology) — demography, infant and child mortality, African studies, health services

Gregory Treverton, Ph.D., Harvard University, 1975, Professor of the Practice (International Relations) — strategy, intelligence, thinking about the future

COLORADO

COLORADO STATE UNIVERSITY

DEPARTMENT OF ANTHROPOLOGY AND GEOGRAPHY

DEGREES OFFERED: Geography (B.S.)

CHAIR: Dr. Michelle Glantz

GEOGRAPHY COORDINATOR: Dr. Jason Sibold

FOR FURTHER INFORMATION PLEASE CONTACT:

Colorado State University, Department of Anthropology and Geography, 1787 Campus Delivery, Fort Collins, CO 80523. Telephone (970) 491-5447. Fax (970) 491-7597. E-mail: cla-anthro_info@mail.colostate.edu.

PROGRAMS AND RESEARCH FACILITIES: Geography at CSU provides undergraduate students with a broad background in geographic thinking with an emphasis on understanding dynamic interactions between humans and the environment in an era of rapid global change. Faculty use a range of research methods including (but not limited to) geographic information systems (GIS), remote sensing, spatial modeling, and dendrochronology to address applied research questions in Colorado, the Rocky Mountains, Southeast Asia, Mesoamerica, Melanesia, and southern South America. Research focus areas include:

- Biogeography
- Climate change implications for society and ecosystems
- Conservation
- Health geographies
- Land change science (land-use and land-cover change)
- Livelihood systems
- Mountain geography
- Political ecology

A B.S. in Geography is an option within the Department of Anthropology and Geography. Current offerings range from introductory courses in systematic, regional, physical, and human geography, to advanced courses that focus on methods (e.g. spatial analysis and GIS, remote sensing), and on topical subjects such as climate change, forest ecology, mountain geography, the geography of commodities, political geography and land-change science.

Biogeography Lab: The focus of the lab's activities are on research and teaching in forest dynamics and change, including anthropogenic land use, climate variability and change, and biophysical variables. The lab has computers and software for spatial analysis with GIS and remote sensing, and equipment to process and analyze tree-ring samples.

The Geospatial Lab: The Geospatial Lab supports students who are studying Geographic Information Sciences within the College of Liberal Arts (CLA) at Colorado State University. Included are students who are taking courses in Geographic Information Systems and Remote Sensing (GIS and RS), many of whom come from a wide range of disciplines to which this knowledge and these skills are relevant. Besides those students taking classes associated with the Geospatial Lab, over 75 other students from across the CLA departments make use of the lab each semester to utilize its capabilities for carrying out spatial analysis related to their research, and to print maps and posters for presentation at conferences.

The Remote Sensing and Land Change Science Lab: This lab is focused on utilizing remote sensing and GIS tools to investigate land-cover and land-use changes, and the drivers of these changes. Students and professors are currently investigating land changes in Asia (Vietnam, Laos, Thailand, Tibet/China), Africa (Madagascar), Melanesia (the Island of New Guinea), and North America (United States [Colorado and Alaska], Mexico, and Honduras). This laboratory has five computers running GIS software (ArcGIS) and remote sensing software (ENVI, ERDAS Imagine, Leica Photogrammetry System, and eCognition).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Colorado State University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, Colorado State University, Fort Collins, CO 80523 (<http://admissions.colostate.edu/>). Financial Aid information may be obtained from Student Financial Services, Financial Aid Office, Centennial Hall (<http://sfs.colostate.edu/>).

FACULTY:

Andrew Bliss, Ph.D., University of California, Berkeley, 2011 — glaciology, climatology, hydrology, geomorphology
Heidi Hausermann, Ph.D., University of Arizona, 2010 — political ecology, agrarian change, land-use change, critical health geographies
Merrill Johnson, Ph.D., University of Georgia, 1981 — political, economic, geography of virtual worlds, Latin America
Stephen Leisz, Ph.D., University of Copenhagen, Copenhagen, Denmark, 2007 — remote sensing technologies, land change science, climate change
John Lindenbaum, Ph.D., University of California, Berkeley, 2009 — cultural geography, commodities, hunger, food
Jason Sibold, Ph.D., University of Colorado, Boulder, Colorado, 2005 — biogeography, forest biogeography, climate change, conservation

FRONT RANGE COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCE (BOULDER COUNTY CAMPUS), DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES (LARIMER CAMPUS), DEPARTMENT OF SCIENCE AND TECHNOLOGY (WESTMINSTER CAMPUS)

DATE FOUNDED: 1968

DEGREES OFFERED: A.A. in Geography

GRANTED (9/1/18 – 8/31/19): 12

MAJORS: 22

CHAIRS: Spencer Morrison (Boulder County Campus), Jeanette Mobley-Tanaka (Larimer Campus), Clara Wentz (Westminster Campus), Cory Reinking (online learning)
ADMINISTRATIVE ASSISTANTS: Mary Torbett (Boulder County Campus), Brenda Stroman (Larimer Campus), LaVerne Loechel (Westminster Campus)

PROGRAMS AND RESEARCH FACILITIES: The geography discipline offers introductory coursework in physical geography (with lab), human geography, world regional geography, human ecology, and global climate change. Most coursework is guaranteed to transfer to any public four-year college or university in the state of Colorado. A careers course focuses on internships, careers, and research in the geosciences. The Larimer Campus hosts a dedicated geography laboratory classroom, and G.I.S. coursework and lab space are offered at all three campuses.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The A.A. with Geography Designation is part of a statewide articulation agreement that allows geography students to transfer credits towards fulfilling degree requirements in geography or related programs at Adams State University, University of Colorado Boulder, University of Colorado Colorado Springs, University of Colorado Denver, Metropolitan State University of Denver, and University of Northern Colorado. In addition, most coursework will fulfill degree requirements in geography at Colorado State University. Students completing the A.A. in geography are expected to take two lecture/lab courses in physical geography, one in human geography, and one in world regional geography, as well as fulfill other first and second year core courses and elective requirements generally required for an A.A. or B.A. degree.

Front Range Community College is a member of the Colorado Community College System with three main campuses in Fort Collins (Larimer Campus), Longmont (Boulder County Campus) and Westminster (Westminster Campus) and satellite campuses in Brighton and Loveland. Admission and financial aid requirements for the geography major are the same as for the college. FRCC has been recognized nationally by the Aspen Institute for high success rates for students transferring to four-year colleges and by Military Friendly, which ranked FRCC as a top veteran friendly college in the large community college category. A number of scholarship opportunities are available to students through the FRCC Foundation and a number of other college and state programs.

FACULTY:

Michael Castellon, Ph.D., University of Wisconsin, 1996 – human geography, world regional geography, Latin America
Ian Feinhandler, Ph.D., University of Colorado, 2006 – political geography, international development, South Asia
Max Miller, M.S., University of Wyoming, 2009 – G.I.S., cartography, physical geography
Patrick Shabram, M.A., San Jose State University, 1998 – physical geography, climate change, viticulture

METROPOLITAN STATE UNIVERSITY OF DENVER

DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

DEGREES OFFERED: B.A., B.S.

DEGREES GRANTED (2018-2019): 80

MAJORS: Geography (Sustainability and Physical),

Geospatial Sciences, Environmental Science, Applied Geology, Meteorology

MINORS: Geography, Sustainability Studies, Geographic Information Systems, Environmental Science, Environmental Studies, Geology, Meteorology

CHAIR: Dr. James Harris

ADMINISTRATIVE ASSISTANT: Jordan Brown

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. James Harris at jharr115@msudenver.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth and Atmospheric Sciences (EAS) at MSU Denver is an all-encompassing academic office dedicated to delivering the best education in Applied Geology, Environmental Science, Geography, Geospatial Science, and Meteorology. The quality and diversity of your acquired skills will have you well-prepared for your career or graduate school. With Colorado's diverse geography and weather patterns, you're in an ideal place to study such fascinating subjects.

Whichever course of study you choose, we'll help build your knowledge in its scientific process by using the world as your laboratory. Through critical analysis and innovative problem solving, you'll have a clear understanding of the mineral deposits that make up the Rocky Mountains, the correlation of sustainable growth and pollution control, the natural and social connection between people and nature, the tools that create more accurate maps, as well as the extreme weather caused by our chaotic atmosphere. Our state-of-the-art laboratories and the knowledge base of our faculty will give you real-world experience through fieldwork and small class sizes.

The Department of EAS combines academic and career-related skills to prepare you for a noteworthy career or future graduate study. Through one of our majors or minors, your comprehension of how the planet operates will help make the world a better place.

Students conduct research with faculty both in and out of the classes. Research topics range from wetland mitigation to impacts of climate change on rock glaciers to improving local transportation systems. The Department has one wet lab and close proximity to a variety of research location ranging from Cherry Creek to Downtown Denver to the Front Range of the Rocky Mountains and the Chilean Andes.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: More information about our Geography Programs including information about academic planning are available here: <https://msudenver.edu/eas/geography-program/>.

Admissions: MSU Denver is an inclusive university. We are a Hispanic Serving Institution (HSI) and offer a variety of services for First Generation students. See our website for admissions requirements: <https://msudenver.edu/admissions/admissions-requirements/>.

Financial Aid: MSU Denver's Financial Aid website is available here: <https://msudenver.edu/financialaid/>. The Earth and Atmospheric Sciences Department offers several scholarships specifically for women going into Geography/Earth Sciences. The State of Colorado also now offers more financial assistance for DACA students.

FACULTY:

James Harris, Ph.D. University of Minnesota, Department Head — cultural and historical geography
Antonio Bellisario, Ph.D. University of California, Los Angeles, Professor — international development planning, environmental geography
Stella Todd, Ph.D., Colorado State University, Professor — GIS, habitat planning
Gabrielle Katz, Ph.D. University of Colorado, Boulder, Associate Professor — biogeography, hydrology, conservation, ecological restoration
Jason Janke, Ph.D. University of Colorado, Boulder, Associate Dean — geomorphology, glaciers, permafrost, climate change
David Parr, Ph.D. Texas State University, Assistant Professor — GIS, spatial analysis
Sara Jackson, Ph.D. York University, Lecturer — political geography, political ecology
Sylvia Brady, A.B.D., University of Denver, Lecturer — urban geography, transportation planning

For a complete list of Earth and Atmospheric Sciences faculty see <https://msudenver.edu/eas/facultyandstaff/>

UNITED STATES AIR FORCE ACADEMY

DEPARTMENT OF ECONOMICS AND GEOSCIENCES

DATE FOUNDED: 1964

DEGREES OFFERED: B.S.

GRANTED 9/1/17-5/31/18: 34

MAJORS: 157

DEPARTMENT HEAD: Colonel Jennifer C. Alexander,
USAF

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Office of the Registrar, U.S. Air Force Academy, HQ USAFA/DFEG (Economics and Geosciences), 2354 Fairchild Drive, Suite 6K110, USAF Academy, Colorado, 80840-6299. Telephone (719) 333-3080. Fax (719) 333-7137 E-Mail: ian.irmischer@usafa.edu Internet: <https://www.us-afa.edu/department/economics-geosciences/>

PROGRAMS AND RESEARCH FACILITIES: The mission of the United States Air Force Academy is to educate, train and inspire men and women to become officers of character, motivated to lead the United States Air Force in service to our nation. The Air Force Academy vision is to be the Air Force's premier institution for developing leaders of character.

The Geosciences program administers the Geospatial Science major (in full), the Foreign Area Studies–Geoscience major (interdisciplinary) and the Meteorology major (in conjunction with the Department of Physics).

Geospatial Science graduates distinguish themselves from other graduates by the conceptual framework in which they view the world. They leverage knowledge of cultural and physical processes and digital modeling techniques to focus on the effects of space and place and interpret any landscape using an inherently geospatial approach. The outcomes of the Geospatial Science major are: 1) Formulate a geospatial question, 2) Describe and explain the relevant physical and human data needed to answer a geospatial question, 3) Acquire useable and relevant geospatial data, 4) Process geospatial data to produce a useable and relevant result, 5) Interpret the patterns, processes and/or interrelationships represented by geospatial data/information, and 6) Effectively defend your interpretation or recommendation.

The Department of Economics and Geosciences also administers a professional certificate in geospatial intelligence (GEOINT) that is accredited by the United States Geospatial Intelligence Foundation (USGIF). The Department maintains the Geospatial Analysis Laboratory, a state-of-the-art resource for faculty and cadet research and coursework in geospatial analysis and remote sensing. The USAFA Meteorology Laboratory is also housed in the Department for faculty and cadet research in Meteorology and GIS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester System. Admissions are extremely competitive with most students graduating near the top of their high school classes. A candidate must be a US citizen, must pass high academic standards, and must receive a nomination from his or her Federal senator or representative. Applications may be obtained from the Office of the Registrar, United States Air Force Academy, USAF Academy, CO, 80840 and more information can be found at <http://www.academyadmissions.com/>. All students are members of the United States Air Force and therefore receive salary and expenses. All graduates receive the B.S. degree and a commission as an officer in the USAF.

FACULTY:

Jennifer C. Alexander, Ph.D., University of Utah, 2004, Permanent Professor and Head — numerical weather prediction, aviation meteorology
Ian J. Irmischer, Ph.D., UCSB, 2016, Deputy Head and Director of Geosciences — GIS, geospatial modeling, UAS, GEOINT
Steven J. Gordon, Ph.D., Arizona State University, 1999, Associate Professor — geomorphology, GIS, rock weathering, microclimatology
Thomas L. Koehler, Ph.D., University of Wisconsin, 1979, Associate Professor — synoptic and mesoscale meteorology, satellite meteorology
Sarah E. Robinson, Ph.D., Arizona State University, 2002, Assistant Professor — desert geomorphology, remote sensing, geochronology
Kelly K. Lemmons, Ph.D., Texas A&M University, 2013, Assistant Professor — economic geography, human geography, cultural assessment
Curtis Edson, Ph.D., Oregon State University, 2011, Assistant Professor — remote sensing, cartography, UAS, GEOINT, forestry
Carl Frohman, M.A., University of Minnesota, 2001, Instructor — Asian geography, international relations, military geography
Joseph Rozak, M.S., Naval Postgraduate School, 2009, Instructor and Director of Meteorology — meteorology, GIS, climatology
Elizabeth A. Simpson, M.A., American Military University, 2012, Instructor — GIS, GEOINT
Patricia Vollmer, M.S., Air Force Institute of Technology, 2002, Assistant Professor — geopolitics, meteorology, math, physics
Daniel Portillo, B.S., Lamar University, 1982, GIS Specialist/Cartographer — computer cartography, GIS, remote sensing

UNIVERSITY OF COLORADO, BOULDER

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1927

GRADUATE PROGRAM FOUNDED: 1930

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 12/2017-08/2018: 74 Bachelors (UC Boulder only), 8 Masters, 12 Ph.D.

STUDENTS IN RESIDENCE: 150 Majors, 23 Masters, 48 Ph.D.

NOT IN RESIDENCE: 11 Ph.D.

CHAIR: William Riebsame Travis

DEPARTMENT ADMINISTRATIVE ASST: Darla Shatto

FOR PROGRAM BROCHURES, WRITE TO: Department of Geography, 260 UCB, University of Colorado Boulder, Colorado 80309-0260. Telephone (303) 492-2631 (Undergraduate); (303) 492-8311 (Graduate). Fax (303) 492-7501. Internet: <http://geography.colorado.edu>

PROGRAMS AND RESEARCH FACILITIES: The program aims to train scholars who will produce geographical knowledge, and professionals with outstanding promise for success in the public and private sectors. The program offers advanced training, including formal course instruction, research guidance, and other professional experiences, in physical geography, human geography, GIScience, and environment- society geography. Research strengths include political ecology, natural hazards, and human dimensions of climate change; development geography, indigenous studies, medical and health geography, quantitative spatial analysis, and political geography; hydrologic science, climatology, cryospheric science, and biogeography; and geovisualization, remote sensing, and spatio-

temporal modeling. Although students' programs are individualized, each must demonstrate a command of the history and nature of the discipline, and of a variety of modes of analysis and of geographic skills.

The department maintains teaching and research relationships with the Institute of Behavioral Science (IBS), the Institute of Arctic and Alpine Research (INSTAAR), the Cooperative Institute for Research in Environmental Sciences (CIRES), and the National Center for Atmospheric Research (NCAR). A host of other federal, state, and metropolitan agencies in the vicinity offer opportunities to the student. A department Internship Program is available for undergraduate students in Geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester plan. For more information about undergraduate admissions, how to apply, and the selection process, visit colorado.edu/admissions. For information about scholarships and financial aid, visit colorado.edu/financialaid.

GRADUATE: Semester plan. Prospective students should have interests coincident with those of the faculty and strong preparation in the physical or social sciences, but not necessarily in geography. In addition to department approval, an applicant for admission as a regular degree student must (1) hold a baccalaureate degree from a college or university of recognized standing for M.A. admission, and a Master's degree for Ph.D. admission, or have comparable preparation to enter graduate study; (2) show promise of ability to pursue satisfactorily advanced study and research, and have at least a 3.25 undergraduate GPA on a 4.0 system. In addition, strong GRE verbal, quantitative, and analytical scores are required.

Financial aid may be available in the form of Teaching and Research Assistantships and University Fellowships. The application deadline is December 1.

FACULTY:

Waleed Abdalati, Ph.D. University of Colorado, 1996, Professor and Faculty Director of CIRES — remote sensing of Earth's ice cover
Suzanne P. Anderson, Ph.D. UC-Berkeley, 1995, Professor — geomorphology, hydrology, weathering, glaciology
Jennifer Balch, Ph.D. Yale, 2008, Assistant Professor — role of fire in the earth system, global change ecology, tropical forest ecology
Holly R. Barnard, Ph.D. Oregon State University, 2009, Associate Professor — ecohydrology, forest hydrology, tree physiology, stable isotope geochemistry
Peter D. Blanken, Ph.D. University of British Columbia, 1997, Professor — biometeorology, climatology, energy/ water/carbon exchange
Joseph H. Bryan, Ph.D. UC- Berkeley, 2007, Associate Professor — critical cartography, indigenous politics in the Americas, human rights, development, struggles over territory
Barbara P. Battenfield, Ph.D. University of Washington, 1984, Professor — GIS modeling, cartographic generalization, scale, visualization
Jennifer Fluri, Ph.D. Pennsylvania State University, 2005, Associate Professor — feminist geopolitics, development and security, gender, housing, Afghanistan, south Asia
Mara Goldman, Ph.D. University of Wisconsin, 2006, Associate Professor — political ecology, Science and Technology Studies, indigenous knowledge, pastoralism, conservation, East Africa and India
Stefan Leyk, Ph.D. University of Zurich, 2005, Associate Professor — GIScience, uncertainty modeling, small area estimation, cartographic pattern recognition, land cover change, spatial dynamic modeling

Katherine B. Lininger, Ph.D. Colorado State University, 2018, Assistant Professor — fluvial geomorphology, ecogeomorphology, hydrology, river management

Noah P. Molotch, Ph.D. University of Arizona, Tucson, 2004, Associate Professor — surface water and snow hydrology, ecohydrology, remote sensing

Timothy Oakes, Ph.D. University of Washington, 1995, Professor — cultural geography, cultural politics, China, tourism, heritage politics, urbanization

John V. O'Loughlin, Ph.D. Pennsylvania State University, 1973, Professor — political geography, former Soviet Union, nationalism, post-Communist societies, climate change and political violence in sub-Saharan Africa

Colleen Reid, Ph.D. UC-Berkeley, 2014, Assistant Professor — health effects of climate change, environmental and social epidemiology, spatial exposure assessment

Fernando Riosmena, Ph.D. University of Pennsylvania, 2005, Associate Professor — Mexico-US migration, social demography, international migration and health, Latin America, informal economy

Mark Serreze, Ph.D. University of Colorado, Boulder 1989, Professor and Director of National Snow and Ice Data Center — Arctic climate change, sea ice, science communication, cryosphere variability and climate change

Seth Spielman, Ph.D. SUNY Buffalo, 2008, Associate Professor — geographic data science, spatial statistics, demographic and economic estimates, American cities

William Riebsame Travis, Ph.D. Clark University, 1981, Associate Professor — natural hazards, extreme events, decision-making for climate change, risk, American West

Yaffa Truelove, Ph.D. University of Cambridge, 2015, Assistant Professor — urban geography, water politics, feminist political geography, cities of the Global South, India

Thomas T. Veblen, Ph.D. UC-Berkeley, 1975, Professor — biogeography, forest ecology, fire dynamics and climate change, Latin America, New Zealand, dendrochronology, US West

Emily Yeh, Ph.D. UC-Berkeley, 2003, Professor — political ecology, Chinese development, Tibet and Himalayas, cultural politics and political economy

ASSOCIATED FACULTY:

Max Boykoff, Adjunct Associate Professor
Clint Carroll, Adjunct Assistant Professor
Paul Lander, Adjunct Assistant Professor
John Lenters, Adjunct Professor
Tania Schoennagel, Adjunct Assistant Professor
Gregory Simon, Adjunct Associate Professor
Leah Wasser, Adjunct Assistant Professor

EMERITI FACULTY:

Nelson Caine — hydrology, geomorphology
Susan W. Beatty — plant ecology, biogeography, soils, disturbance effects on landscape
Kenneth E. Foote — American and European landscape history, computer techniques and Internet applications, learning and teaching geography in higher education
John Pitlick — surface water hydrology, fluvial geomorphology, water resources
Andrei Rogers — population, migration
Konrad Steffen — remote sensing, climatology
Mark W. Williams — hydrology, snow hydrology, alpine biogeochemistry, water chemistry, snow chemistry

UNIVERSITY OF COLORADO COLORADO SPRINGS

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1973

DEGREES OFFERED: B.A., M.A. in Applied Geography

GRANTED 8/20/2017-5/20/2018: 69 B.A., 7 M.A.

STUDENTS IN RESIDENCE: 247 Majors, 20 M.A.

CHAIR: Emily Skop

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Environmental Studies, University of Colorado, 1420 Austin Bluffs Parkway, Colorado Springs, CO 80918. Telephone: (719) 255-3016. Fax: (719) 255-4066. E-mail: eskop@uccs.edu.

PROGRAMS AND RESEARCH FACILITIES: The University of Colorado at Colorado Springs is a growing campus of approximately 12,400 students located along the Colorado Front Range. The Department of Geography and Environmental Studies (GES) offers undergraduate (BA) and graduate (MA) degrees, as well as minors in Geology and Sustainability, and undergraduate and graduate certificates in GIScience. Award-winning faculty provide a wealth of high-impact learning opportunities to students in inclusive, small-sized settings both inside and outside the classroom. Our outstanding faculty and inquisitive students are compelled to a greater understanding of the places, people, and environmental systems that affect us as a planet and as global citizens. Our degrees incorporate diverse intellectual approaches, conceptual tools, and geospatial technologies all of which prepare graduates for professional careers that have real-world impacts and make a difference. We enthusiastically promote the importance of geography on and off campus, and participate in the broader discipline and its regional and national organizations. We maintain meaningful ties with our alumni, whom we have trained to be professional leaders and life-long learners.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS:

UNDERGRADUATE: There are six required courses and four optional tracks: Human and Cultural Dynamics, Physical Systems, Environmental and Sustainability Studies, and GIScience. A maximum of 54 credit hours in Geography and Environmental Studies classes may be taken by a major in Geography and Environmental Studies. All students must take a capstone course before graduation.

GRADUATE: The Master of Arts in Applied Geography program has four areas of emphasis that are viewed through the broad lens of sustainability: Nature-society relations, social equity and urban culture, physical systems, and/or geospatial technologies. Graduate students typically address topics such as planning for growth, conservation policies and management, restoration projects, migration dynamics, urban demographic and social change, water conservation, geomorphology, urban ecology, and geospatial technologies. The program requires graduate students to undertake problem-solving research, think critically about spatial relationships, and communicate effectively.

Admission of students to the M.A. in Applied Geography program requires applicants to hold a baccalaureate degree or a master's degree from an accredited college or university; have an undergraduate grade point average of 3.0 or better ("A" is equal to 4.0); provide 3 letters of recommendation; and provide two copies of official transcripts from all institutions attended. The GRE is no longer a required part of the MA application.

Students complete a thesis option for the M.A. in Applied Geography. This includes 24 credits of coursework and 6 credits of thesis. All students must take GES 5770: History and Nature of Geography and GES 5010: Seminar in Geographic Research. One semester (at least 3 credits) of upper-level statistics is also required.

The UCCS Masters of Applied Geography Program is one of two geography programs to be selected for the Western Regional Graduate Program (WRGP) coordinated by the Western Interstate Commission for Higher Education (WICHE). WRGP allows graduate students to enroll in high quality programs and pay resident tuition at public institutions in select universities in the Western U.S.

For more information, please see our departmental web page at http://www.uccs.edu/geography/graduate_students. Follow the MA Program links. Also, you may contact Professor Brandon Vogt, Graduate Director at (719) 255-5146 or bvogt@uccs.edu

FACULTY:

Graduate:

Christine Biermann, Ph.D., Ohio State University, 2014, Assistant Professor — critical physical geography, socioecological forest dynamics, biodiversity conservation, political ecology
Diep Dao, Ph.D., University of North Carolina – Charlotte, 2013, Assistant Professor — geographic information science, spatial analysis and modeling, urban regional analysis, GPS
Cerian Gibbes, Ph.D., University of Florida, 2011, Associate Professor — human-environment, remote sensing, climate/land interactions, socio-ecological implications of conservation strategies
John Harner, Ph.D., Arizona State University, 1996, Professor — cultural, urban, GIS, Mexico
David Havlick, Ph.D., University of North Carolina, 2006, Professor — political ecology, militarization, ecological restoration and conservation
Curt Holder, Ph.D., Clark, 2000, Professor — ecohydrology, human-environment interactions, Latin America
Steven Jennings, Ph.D., University of California, Davis, 1989, Associate Professor — biogeography, geography education, mountain environments
Irina Kopteva, Ph.D., St. Petersburg State University (Russia), 1989, Assistant Research Professor — environmental sciences, online education
Emily Skop, Ph.D., Arizona State University, 2002, Professor and Chair — refugee and migration studies, urban social dynamics, inequality, population, feminist epistemologies
Rebecca Theobald, Ph.D., University of Colorado, 2007, Assistant Research Professor — geography of education, community and urban geography
Brandon Vogt, Ph.D., Arizona State University, 2007, Associate Professor — geomorphology, mountain systems, lightning/landscape interactions, Colorado, geovisualization, lidar

Undergraduate:

James Baginsky, Ph.D., Ohio State University, 2014, Instructor — economic and social geography, geography education
Eric Billmeyer, M.A., University of Colorado, 2004, Senior Instructor — fluvial geomorphology, restoration, sedimentology, geospatial tools
Matthew Gottfried, M.A., University of Toledo, 2005, Instructor and Geospatial Technologies Specialist — GIS, digital methodologies
Marie Hoerner, Ph.D., University of Chicago, 2017, Instructor — paleoclimate, paleoecology, sedimentary geology
Michael P. Larkin, M.S., University of Colorado at Boulder, 2000, Senior Instructor — cultural geography, human geography

EMERITAE:

Eve Gruntfest, Ph.D., University of Colorado, 1982, Professor Emerita — natural hazards, weather and society integrated studies

Thomas P. Huber, Ph.D., University of Colorado, 1980, Professor Emeritus — geomorphology, remote sensing, Colorado/mountain environments
Robert P. Larkin, Ph.D., The Pennsylvania State University, 1973, Professor Emeritus — population, geographic education

UNIVERSITY OF COLORADO, DENVER

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 1975

DEGREES OFFERED: B.A. in Geography, M.S. in Environmental Science, M.A. in Applied Geography and Geospatial Science

GRANTED 1/1/18–12/31/18: 35 B.A. Geography, 12 M.S., 11 M.A., 35 GIS Certificates

STUDENTS IN RESIDENCE: 128 B.A. Majors, 68 Masters

CHAIR: Peter Anthamatten

DEPARTMENT PROGRAM ASSISTANT: Sue Eddleman

DEPARTMENT ADMINISTRATIVE ASSISTANT: Meron Ayele

FOR MORE INFORMATION AND UNDERGRADUATE APPLICATION:

Admissions, University of Colorado Denver, <http://www.ucdenver.edu/apply/>. For program brochures and other department information including admission to the graduate program contact: Department of Geography and Environmental Sciences, University of Colorado Denver, Downtown Denver Campus, Box 172, PO Box 173364, Denver, CO, 80217-3364. Telephone: 303-315-7525. Internet: <http://clas.ucdenver.edu/ges>

PROGRAMS AND RESEARCH FACILITIES: CU Denver is a dynamic university consisting of 13 schools and colleges and 140 programs spread over two campuses. Located in Downtown Denver, the Department of Geography and Environmental Sciences offers a BA in Geography, an MS in Environmental Science, and an MA in Applied Geography and Geospatial Science, which has Professional Science Masters (PSM) certification. The department also offers certificates in: GIS, Sustainable Urban Agriculture, and Environmental Science Education. Department strengths coalesce around the study of human-environment interaction, emphasizing historic and contemporary climate change, landscape transformation, the conservation and management of cultural and natural resources, political ecology, environmental history, natural hazards and disaster management, urban sustainability, and environmental health.

The department forms the core of GIS activity on campus and is a key player in the Facility for Advanced Spatial Technology (FAST) lab, which is a multidisciplinary laboratory providing state-of-the-art geospatial science technology for teaching. The lab has site licenses for the most advanced GIS, image processing and database management software available in the industry. In addition, the department has a new research-dedicated Geospatial Analysis and Mapping (GAM) lab and a community engagement studio space. Other department research facilities include: the Five Fridges Farm Field Research Station, a 13 acre urban farm near downtown used to support the department's program in urban agriculture; an environmental hydrology laboratory; and a climate science laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester plan. For admissions information, please see: <http://www.ucdenver.edu/apply/>. For financial aid, please see: <http://www.ucdenver.edu/aid/>

FACULTY:

- Peter Anthamatten, Ph.D., Minnesota, 2007, Associate Professor* — medical geography, spatial analysis, cartography, GIS, nutrition, geographic education
- Christy Briles, P.D., University of Oregon, 2008, Assistant Professor* — paleoecology, biogeography, climate change, palynology
- Frederick B. Chambers, Ph.D., Arizona State, 1990, Associate Professor* — glacier-climate interrelationships, boundary layer climatology
- Yi-Chia Chen, Ph.D., Louisiana State University, 2013, Sr. Instructor* — political/cultural ecology, representation of heritage landscapes, geography of heritage tourism, construction of place identities
- Anne Chin, Ph.D., Arizona State, 1994, Professor* — fluvial geomorphology, hydrology, environmental geomorphology
- Kirsten Christensen, M.A. University of Colorado Denver, Instructor* — urban geography, North America
- Benjamin Crawford, Ph.D., University of British Columbia, 2014, Assistant Professor* — urban climates, air quality, greenhouse gas emissions, renewable energy meteorology, measurement networks
- Matthew Cross, Ph.D., University of Colorado Denver, 2018, Assistant Clinical Teaching Track Professor* — remote sensing, GIS, climatology
- Rudi Hartmann, Ph.D., Munich, 1983, Associate Clinical Teaching Track Professor* — world regional geography, Europe, China, tourism planning, geographic education
- Pamela Jansma, Ph.D., Northwestern, 1988, Professor and Dean of the College of Liberal Arts and Sciences* — geosciences, global positioning system, active tectonics of the Caribbean region
- Katharine Kelsey, Ph.D., University of Colorado Boulder, 2015, Assistant Professor* — climate change, terrestrial biogeochemistry, biosphere-atmosphere exchange, landscape ecology
- Rafael Moreno-Sanchez, Ph.D., Colorado State University, 1992, Associate Professor* — land use planning, natural resources management, GIS modeling, internet mapping, Mexico
- Brian Page, Ph.D., California-Berkeley, 1993, Associate Professor* — political economy of natural resource development, historical geography, urban geography, China, North America
- Gregory Simon, Ph.D., Washington, 2007, Associate Professor* — environmental governance, political ecology, science studies, political economy of development, environmental history, India, US West
- Amanda Weaver, Ph.D. University of Denver, 2014, Sr. Instructor* — urban geography, GIS, geographic education
- Bryan Wee (Wee Shao-Chang, Bryan; Wee Shao-Zhang, Bryan) Ph.D., Purdue, 2007, Associate Professor* — environmental education, sustainability, cultural geography

EMERITI FACULTY:

- Wes LeMasurier, Ph.D., Stanford, 1965* — igneous petrology, volcanology, volcanic geology of Antarctica
- John Wyckoff, Ph.D., Utah, 1980, Associate Professor* — landscape ecology/biogeography, environmental remote sensing, GIS

UNIVERSITY OF DENVER

DEPARTMENT OF GEOGRAPHY & THE ENVIRONMENT

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., M.A., Ph.D. in Geography; M.S. in GISc (on-campus and on-line); B.A., B.S. in Environmental Science

GRANTED 9/1/17-8/31/18: 24 Bachelors (Geography), 20 Bachelors (Environmental Science), 20 Masters, Ph.D.

GEOGRAPHY STUDENTS IN RESIDENCE: 47 Majors, 15 Masters, 6 Ph.D.

NOT IN RESIDENCE: 32 Masters

ENVIRONMENTAL SCIENCE STUDENTS IN RESIDENCE: 126 Majors

CHAIR: Michael Keables

DEPARTMENT ASSISTANT TO THE CHAIR: Patricia Guerra

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Denver, 2050 E. Iliff Ave., Denver, Colorado 80208. Telephone (303) 871-2513. Fax (303) 871-2201. Internet: www.du.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The University of Denver is the oldest independent university in the Rocky Mountain region, and has a total enrollment of over 12,000 students. Its location within a large metropolitan area in close proximity to the Rocky Mountains provides an ideal laboratory for physical and human geographers alike. At the undergraduate level, the Department offers a Geography major and minor, an Environmental Science major and minor, and minors in Geology, Geographic Information Science, Sustainability, and Tourism. At the graduate level, the Department offers both the Master's and Doctoral degrees in Geography, with particular strength in the areas of biogeography, climatology, economic geography, geographic information science, geomorphology, global change, human environment interaction, Latin America, population, Quaternary studies, transportation geography, and urban geography. The Department also offers on-campus and on-line Master of Science degrees in Geographic Information Science. The applied aspects of each area are emphasized to enhance vocational opportunities for graduates. A paid internship program is available with municipal, state, and federal agencies and private firms located in the Denver area for physical geography, human geography, and geographic information science students at both the graduate and undergraduate levels. Facilities at the University and within the Department provide a wide variety of teaching and research opportunities. Departmental lab facilities include a 24-seat GIS instructional lab, a 14-seat Advanced GIS Lab, a Palynology Lab, Soils Lab, Remote Sensing Lab, Climatology Lab, and a Special Projects Lab. The Department maintains an inventory of mapping grade GPS equipment and GPS processing software. We currently maintain 10 Trimble Juno SB handheld GPS units and several Garmin handheld GPS devices, as well as an ASD SPECTRORADIOMETER. The Department also maintains a community GPS base station serving the Front Range of Colorado. The University of Denver has an ESRI University Site License with most ESRI software products available. Students will find ArcInfo and Extensions installed in the GIS laboratories. We also maintain current licenses for ERDAS Imagine, ENVI, and other GIS and image processing software. In addition, the Department has an extensive map library and equipment for its geomorphology/soils/pollen laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The program of study includes: 1) foundation courses, 2) a core of courses intended to provide each student with knowledge fundamental to geographers, and 3) an array of classes in the areas of human, physical, and GIScience, from which the students choose. Students can also register for our block of field courses in the Fall quarter. Courses taught in the field span geographic scales from the Denver metropolitan area to our field station on Mt. Evans, to developing landscapes in Guatemala or to examine relationships between humans and the environment in Europe, Nicaragua, and in the Sonora and Baja regions of Mexico. The university also provides an all-expense paid study abroad opportunity for all undergraduate students. Admission requires submission of high school and/or college transcripts, SAT or ACT scores, a personal essay, and recommendation(s) from previous teachers or counselors. The

University has available a variety of financial aid opportunities for which most students can qualify.

GRADUATE: At the Doctoral level, a research-based dissertation is required, together with appropriate course work, tools, and comprehensive exam. Topical areas of focus include biogeography, climatology, economic geography, geographic information science, geomorphology, global change, human-environment interaction, Latin America, population, Quaternary studies, transportation, and urban geography. At the Master's level, the MA in Geography includes subfields within: (1) Physical Geography, (2) Human Geography, (3) Human-Environment Interaction, or (4) Geographic Information Science. The department also offers both an on-campus and on-line MS degree program in geographic information science (MS-GISc). Geospatial technology areas include: automated cartography; geographic information systems; global positioning systems; image processing; remote sensing; air photo interpretation; and spatial analysis methods and modeling. In all cases, the Department prides itself in the ability to tailor individual programs to complement the student's interests within a basic framework of practical requirements. Because this is a relatively small department, the student has the opportunity to work closely with his/her advisor. Admission requires submission of appropriate academic transcripts, Graduate Record Examination scores, three letters of recommendation, and applicant's statement of interest. The Department has available a number of graduate teaching and research assistantships. The assistantships carry a stipend and full tuition scholarship plus health insurance coverage. No out-of-state fees are charged to the student.

FACULTY:

- E. Eric Boschmann, Ph.D., Ohio State University, 2008, Associate Professor and Director of Graduate Studies* — urban, economic, commuting, mixed-methods, GIS
- J. Michael Daniels, Ph.D., University of Wisconsin, 2002, Associate Professor* — geomorphology, environmental change, soils, hydrology
- Andrew R. Goetz, Ph.D., Ohio State University, 1987, Professor* — transportation, urban geography/planning, economic geography
- Hillary Hamann, Ph.D., University of Colorado-Boulder, 2002, Teaching Professor* — hydrology, watershed biogeochemistry, physical geography, water resources, conservation
- Helen Hazen, Ph.D., University of Minnesota-Twin Cities, 2006, Teaching Associate Professor* — health and environment, environmental conservation
- Steven R. Hick, MA, University of Missouri, 1983, Professor of the Practice, Director, MS-GISc Program* — geographic information science, project management, cartography, criminology
- Michael J. Keables, Ph.D., University of Wisconsin-Madison, 1986, Associate Professor and Chair* — climatology, water resources, climate variability
- Michael W. Kerwin, Ph.D., University of Colorado, Associate Professor and Director, Environmental Science Program* — Quaternary geology, dendroclimatology
- Kristopher Kuzera, Ph.D., San Diego State University, University of California, Santa Barbara, 2011, Teaching Assistant Professor and Internship Program Director* — GIScience, remote sensing, statistical analysis
- Jing Li, Ph.D., George Mason University, 2012, Associate Professor* — geovisualization, spatiotemporal data modeling, high performance geocomputation, web-based GIS
- Hanson Nyantakyi-Frimpong, Ph.D., The University of Western Ontario, Canada, 2014, Assistant Professor* — human-environment interactions, climate change, environmental justice, Africa
- Rebecca L. Powell, Ph.D., University of California-Santa Barbara, 2006, Associate Professor* — human-environment interaction, remote sensing, statistics, land use/land cover, geographic information science (GISc)

Donald G. Sullivan, Ph.D., University of California-Berkeley, 1989, Associate Professor — Quaternary studies, biogeography, environmental change

Paul C. Sutton, Ph.D., University of California-Santa Barbara, 1999, Professor — geographic information science (GISc), ecological economics, human-environment interactions, population geography

Matthew J. Taylor, Ph.D., Arizona State University, 2003, Professor — Latin America, political ecology, development

Erika Trigos Rubio, Ph.D., University of Oxford, 2010, Teaching Associate Professor — vulnerability and adaptation to climate change, geographic information science, Latin America

Guiming Zhang, Ph.D., The University of Wisconsin-Madison, 2018, Assistant Professor — geographic information science (GISc), volunteered geographic information (VGI), big geospatial data, spatial analysis, predictive mapping

ADJUNCT FACULTY:

Michelle Moran-Taylor, Ph.D., Anthropology, Arizona State University, 2003, Adjunct Professor — cultural geography, cultural ecology, human migration

Martha Narey, Ph.D., University of Denver, 1999, Adjunct Professor — dendroclimatology, drought climatology, climate history, paleoenvironments, vegetation change, rural land use, American Indians

Sean Tierney, Ph.D., University of Denver, 2009, Adjunct Professor — economic geography, energy, transportation

EMERITUS FACULTY:

David B. Longbrake, Ph.D., University of Iowa, 1972, Professor Emeritus — urban geography, urban and regional planning, quantitative methods, global position systems, geographic information systems

Terrence J. Toy, Ph.D., University of Denver, 1973, Professor Emeritus — geomorphology, hillslopes, reclamation of disturbed lands, erosion

UNIVERSITY OF NORTHERN COLORADO

DEPARTMENT OF GEOGRAPHY, GIS, and SUSTAINABILITY

DATE FOUNDED: 1968

DEGREES OFFERED: B.A. Geography; Graduate

Certificate in Geography Education; B.A. Environmental and Sustainability Studies

GRANTED 9/1/18-8/31/19: 26 Bachelors (16 Geography; 10 Environmental & Sustainability Studies)

MAJORS: 125

DEPARTMENT CHAIR: James Doerner

ADMINISTRATIVE ASST: Brooks Pardew

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. James Doerner, Department of Geography, GIS, and Sustainability, University of Northern Colorado, Greeley, Colorado 80639. Telephone (970) 351- 2715. Fax (970) 351-2890. E-mail: james.doerner@unco.edu. Internet: <https://www.unco.edu/hss-geography-gis-sustainability/>

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Bachelor of Arts. The department offers a major in Geography with the following choices of study emphasis: (a) Global and Area Studies; (b) Geographic Information Sciences, and (c) Secondary Teaching. Internship opportunities are available for students. The Department maintains a GIS lab supplied with a range

of statistical, mapping, remote sensing, and GIS applications for student use. The emphasis area in Secondary Teaching meets all requirements for licensure to teach Secondary Social Studies in Colorado. The Department also offers a major in Environmental and Sustainability Studies.

GRADUATE: The Department offers a Graduate Certificate in Geography Education for teachers, consisting of 12 credit hours of graduate courses in Geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates year-round on the semester system (two semesters equal one academic year).

UNDERGRADUATE: For information on new undergraduate and transfer admissions, please see <http://www.unco.edu/admissions/request/>.

For information on financial aid, please see <http://www.unco.edu/ofa/index.asp>.

GRADUATE: For information on admission to the Graduate Certificate in Geography Education please see <http://www.unco.edu/grad/admissions/index.html>.

FACULTY:

Karen Barton, Ph.D., University of Arizona, 2000, Professor — human-environmental relations, sustainability, Africa
James P. Doerner, Ph.D., University of Denver, 1994, Professor — biogeography, paleoenvironmental change, Asia
James M. Dunn, Ph.D., University of Colorado, Boulder, 1993, Professor — geography education, environmental systems, Canada
Katherine Johnson, Ph.D., University of California, Berkeley, 2002, Associate Professor — economic, political, urban, planning
Phil Klein, Ph.D., University of Colorado, Boulder, 1993, Professor — international geography education, social studies education, cultural, Europe
Jieun Lee, Ph.D., Michigan State University, 2014, Assistant Professor — GIS, urban sustainability, spatial analysis, gender, transportation, public health
Chelsie Romulo, Ph.D., George Mason University, 2017, Assistant Professor — natural resource management, sustainability, conservation, stem education
Jessica Salo, Ph.D., Colorado State University, 2014, Associate Professor — GIS, remote sensing, landscape ecology, riparian ecology
Timothy Vowles, Ph.D., University of Denver, 2000, Adjunct Instructor — air transportation, economic, urban, New Zealand

EMERITI FACULTY:

David B. Cole, Ph.D., University of Colorado, Boulder
Charles O. Collins, Ph.D., University of Kansas
John L. Dietz, Ph.D., Syracuse University
David M. Diggs, Ph.D., University of Colorado, Boulder
Kevin C. Kearns, Ph.D., St. Louis University
Richard K. Ormrod, Ph.D., Pennsylvania State University
Steven L. Scott, D.A., University of Northern Colorado

CONNECTICUT

CENTRAL CONNECTICUT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1969

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.A. in Geography, B.S. in Tourism & Hospitality Studies, M.S. in Geography

GRANTED 9/1/18 – 8/31/19: 48 Bachelors, 17 Masters

MAJORS: 115 Undergraduate, 51 Graduate

CHAIR: Charles Button

SECRETARY: Diane Cannata

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Charles Button, Chair, Department of Geography, Central Connecticut State University, 1615 Stanley St., New Britain, Connecticut 06050. Tel (860) 832-2785. Fax (860) 832-3140. E-mail: buttonche@ccsu.edu. Internet: www.geography.ccsu.edu.

UNDERGRADUATE PROGRAMS: Several specializations are available for students pursuing a degree in Geography at Central Connecticut State University. Each specialization is designed to provide students with the training necessary to enter careers in their field. A minor is also available for each specialization tract for those looking to expand their knowledge without majoring in Geography. Geography majors may also minor in a different geographic specialty. The following specializations are available at CCSU:

- *Environmental Geography:* This track is ideal for students interested in understanding human interactions with the environment and physical systems of the Earth. Environmental Geography courses provide students with a deeper understanding of the interplay between the social and natural sciences. Students studying Environmental Geography are interested in careers in fields such as resource management, environmental & sustainable planning, outdoor/environmental education, environmental assessment/monitoring/restoration, and air/water/soil pollution prevention.
- *General / Regional Geography:* A specialization of General / Regional Geography includes an assortment of courses from each field of Geography, providing a broad base of education for future endeavors. The fields of urban planning, environmental, sustainability, social science teaching, and Geographic Information Sciences (GIS) applications all come under the purview of a professional geographer.
- *Geographic Information Science:* This track is designed to prepare students for careers in the Geographic Information Systems (GIS), Mapping and Remote Sensing (RS), as well as their applications in various fields (e.g. planning, marketing, crime mapping, health, environmental protection, and natural resource management). The degrees are particularly appropriate for those who intend to work for government (at all levels) or for private businesses.
- *Planning:* The Planning Specialization prepares students for jobs as town or city planners with municipalities; as regional planners for regional councils of government (COG); and for positions at a variety of state agencies, non-profits and private consultant firms. The Planning curriculum introduces students to the historical, legal and applied contexts of planning in the United States and in the State of Connecticut, as well as to the various subfields of planning

such as transportation planning, urban design, environmental planning, and economic development.

- **Tourism:** This program focuses on the geographic nature of tourism development. It is particularly appropriate for those considering working for municipal, state or federal agencies (e.g., planning, parks and/or recreation, ecotourism/nature-based tourism organizations, cultural/historical tourism agencies, and tourism development entities). Students choose a minor (e.g., Marketing, a foreign language, etc.) that complements their tourism career interests.

The Geography Department at CCSU also offers a B.S. in *Tourism & Hospitality Studies* geared towards those interested in managing hotels, restaurants, attractions, and other hospitality industry functions. This program differs from the Geographic specialization in Tourism through its emphasis on the business of attracting, transporting, lodging and entertaining, and providing customer service and hospitality.

GRADUATE PROGRAMS: The graduate program at Central Connecticut State University is designed to be flexible in order to meet the varied needs of a wide range of students with varied academic backgrounds. Each graduate student's planned program of study is custom-designed to fit the needs of each individual student based on the student's interests and faculty expertise and to provide the best possible preparation for the career or future Ph.D. program chosen by the student. The following M.S. degree options are available at CCSU:

- **Geography:** The M.S. in Geography has been used as a springboard by those interested in further graduate study. Several graduates have gone on to Ph.D. programs at major universities. However, most graduate students are interested in using the M.S. in Geography as a terminal degree that will prepare them for careers in several technical areas.
- **Geography with Specialization in Global Sustainability:** The Global Sustainability Specialization is a 30 credit graduate degree program designed to enable students to examine global environmental, social, and economic challenges facing society and to explore possible sustainable solutions to these challenges.

FACILITIES: Departmental facilities include 2 fully-equipped GIS, cartography, and air photo interpretation labs. Our network includes 36 computers, plus digitizers, scanners, black/white and color laser printers, and a large scale plotter. We have over 25,000 sheets in our U.S. Federal Government Map Depository Collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Detailed admission requirement information is available at www.ccsu.edu. A limited number of graduate assistantships are available. Timothy J. Rickard Scholarships are also available for Geography majors.

FULL-TIME FACULTY:

Richard W. Benfield, Ph.D., Oklahoma, 1998, Professor — Tourism, Recreation, Europe, Russia & N.I.S
Charles Button, Ph.D., Cincinnati, 2003, Professor — Water Resources, Environmental & Physical Geography
Timothy J. Garceau, Ph.D., Connecticut, 2015, Assistant Professor — Urban & Regional Planning, Transportation Planning, Urban Geography, Human Geography, Conservation, Historic Preservation
Eunhye Kim, Ph.D., Arizona State, 2019, Assistant Professor — Tourism, Event Management, Hospitality, Cultural Tourism
Jeffery C. Kreeger, Ph.D., South Carolina, 2017, Assistant Professor — Hospitality, Tourism, GIS, Revenue Management

Peter A. Kwaku Kyem, Ph.D., Clark, 1997, Professor — Resource/Environmental/Physical Geography, GIS, Map Reading, Sub-Saharan Africa

Yunliang Meng, Ph.D., Western Ontario, 2010, Associate Professor — GIS, Public Participatory Planning, Discrimination & Racial Profiling

Cynthia Pope, Ph.D., Arizona, 2002, Professor — Medical Geography, Gender & Sexuality Studies, Latin America

Xiaoping Shen, Ph.D., Ottawa, 1995, Professor — Economic, China, GIS, Cartography

Brian J. Sommers, Ph.D., Arizona, 1994, Professor and Interim Dean, School of Arts and Sciences — Urban Geography, Planning, Historic Preservation, Geography of Wine

EMERITUS FACULTY:

John E. Harmon, Ph.D., Boston, 1979, Professor Emeritus — GIS, Transportation Planning, Field Methods

Timothy J. Rickard, Ph.D., Kansas, 1974, Professor Emeritus — Rural Planning, Europe

PART-TIME FACULTY:

Patricia Houser, Ph.D., Columbia, 2007, Lecturer — Geography, Urban & Regional Planning, Environmental Planning, Tourism Planning

Angelina Kendra, Ph.D., Virginia Tech, 2002, Lecturer — Recreation & Tourism

Donald Poland, Ph.D., London, 1999, Lecturer — Urban & Regional Planning, Geography, Comparative Urbanism

Thomas E. Sherer, Jr., M.S., Central Connecticut State, 1990, Lecturer — World Regional Geography, Map Reading, Cartography

UNIVERSITY OF CONNECTICUT

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1976

DEGREES OFFERED: B.A., B.S., M.A., Ph.D., Graduate Certificate in GIS

GRANTED 09/01/18-08/31/19: 10 Bachelors, 1 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 20 Majors, 3 M.A., 24 Ph.D.

CHAIR: Chuanrong (Cindy) Zhang

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Anji Seth, Graduate Coordinator, Department of Geography, Unit 4148, 215 Glenbrook Road, Austin Building Room 427, University of Connecticut, Storrs, Connecticut 06269-4148. Telephone (860) 486-3656. Fax (860) 486-1348. E-mail: anji.seth@uconn.edu. Internet: www.geography.uconn.edu

PROGRAMS AND RESEARCH FACILITIES: The Department offers programs leading to Ph.D., M.A., or B.A./B.S. degrees in Geography. It also offers both an online and blended graduate certificate in GIS. The Department offers a broad program in geography with long-standing strengths in GIScience, spatial analysis and statistics, location theory and economic geography. Current emphases of our program are sustainability, environment and planning; GIS and spatial analysis; society, space, and social change; and climate and environmental change. With respect to the MA and BA/BS degrees, the Department has created strong and flexible programs with a consistent emphasis on the development of marketable, professional skills with a focus on spatial analysis, quantitative and qualitative methodologies, and geographic information systems. The department has strong ties to other departments and programs across the university including, among others, the Center for Integrative Geosciences, the Environmental Studies Program, the Women's, Gender, and Sexuality Studies

Program, Center for Environmental Sciences and Engineering; Institute for Collaboration on Health, Intervention, and Policy, Department of Civil and Environmental Engineering in the College of Engineering; Department of Natural Resources and the Environment in the College of Agriculture, Health and Natural Resources; the International Studies Association, the Connecticut State Data Center, Global Studies, and the Center for Excellence in Teaching and Learning.

As a department in a major research university, the support facilities are excellent. A Windows-based instructional lab is used for spatial analysis, GIS, and cartography. Graduate students have 24/7 access to a research computer lab, as well as access to a physical geography lab, survey and field equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. B.A. requires eight geography courses plus four related electives; the B.S. has a six-course core with three electives. The Master of Arts degree has options for a thesis (24 credits of coursework plus 6 credits of thesis research) or coursework and a research paper (30 credits). The graduate certificate program (online and on-campus) consists of two core courses and two electives. The Ph.D. program normally involves a three to four year course of study with a minimum 15 credits of content coursework beyond the Master's degree, plus dissertation. Submission of GREs is strongly recommended for admission and required for applications for teaching and research assistantships. Applications for admission to the departments graduate and certificate programs are accepted any time during the year. However, applications for financial aid (teaching and research assistantships) are reviewed only once annually for applications received by December 15th each year.

FACULTY:

Carol Atkinson-Palombo, Ph.D., Arizona State, 2007, Associate Professor and Director, Environmental Studies — sustainable cities, urban transportation, renewable energy
William H. Berentsen, Ph.D., Ohio State, 1976, Professor — regional development and change, landscapes, Europe and U.S.A.
Mark Boyer, Ph.D., Maryland, 1988, Board of Trustees Distinguished Professor — globalization, global-local linkages, environmental policy, climate change, political economy
Amy Burnicki, Ph.D., Michigan, 2008, Assistant Professor-in-Residence in Geography and Department of Civil and Environmental Engineering — GIScience, quantitative methods, land change science, spatial analysis and modeling
Tim Byrne, Ph.D., Univ. of Calif., Santa Cruz, 1981, Professor in Geography, Center for Integrative Geosciences, and Marine Sciences — marine geology and tectonics, convergent margin geology, structural geology
Thomas J. Cooke, Ph.D., Indiana, 1993, Professor — urban, economic, population, quantitative methods
Debanuj DasGupta, Ph.D., Ohio State, 2016, Assistant Professor — race, ethnicities, & place, feminist geography, mobilities & migration, geographies of sexualities, geographies of disabilities
Heidi Dierksen, Ph.D., Univ. of Calif., Santa Barbara, 2000, Professor, Avery Point Campus — coastal optics and remote sensing to address questions related to biological and physical processes in the ocean
Ken Foote, Ph.D., Chicago, 1982, Professor — GIScience and visualization, interactive and multimedia cartography, landscape history, geography in higher education
Julie Fosdick, Ph.D., Stanford University, 2012, Assistant Professor in Geography and Center for Integrative Geosciences — sedimentary geology, thermochronology, and paleogeography
Debarchana (Debs) Ghosh, Ph.D., Minnesota, 2009, Associate Professor — health geography, HIV/AIDS, drug use, GIScience, social network analysis, mixed methods
Dean M. Hanink, Ph.D., Georgia, 1980, Professor — economic, regional development

John-Andrew Jolly-Ballantine, Ph.D., Univ. of Calif., Santa Barbara, 2008, Associate Professor in Residence — geography education, sustainability, geomorphology, remote sensing, hydrology
Weidong Li, Ph.D., China Agricultural University, 1995, Research Scientist — geospatial statistics and geo-computation, environmental informatics, GIScience, soil and landscape mapping, land use change and remote sensing
Richard Mrozinski, M.A., Connecticut, 1996, Instructor — GIScience
William Ouimet, Ph.D., Massachusetts Institute of Technology, 2007, Associate Professor in Geography and Center for Integrative Geosciences — geomorphology, earth surface processes, human-environment interactions and landscape evolution
Lisa Park Boush, Ph.D., Arizona, 1995, Professor and Director, Center for Integrative Geosciences — climate change, biodiversity and sustainability
Anji Seth, Ph.D., Michigan, 1995, Professor — climate change, society and climate
Scott Stephenson, Ph.D., UCLA, 2014, Assistant Professor — climate change, climate policy, GIS, political geography, transportation
Clay Tabor, Ph.D., Michigan, 2015, Assistant Professor — paleoclimates, water Isotopes, climate change
Nathaniel S. Trumbull, Ph.D., Washington, 2006, Associate Professor and Director, Maritime Studies — urban management, water resources planning and management, urban and community development, regional planning, geographic information systems, information technology and education
Daniel Weiner, Ph.D., Clark, 1986, Professor and Vice President for Global Affairs — development geography, political ecology, GIS and society
Chuanrong Zhang, Ph.D., Wisconsin, Milwaukee, 2004, Professor and Department Head — GIScience, remote sensing, spatial analysis

ASSOCIATED FACULTY:

Norman Garrick, Ph.D. Purdue, 1986, Associate Professor of Civil and Environmental Engineering — sustainable transportation and urban planning
Phoebe Godfrey, Ph.D. SUNY Binghamton, Assistant Professor in Residence of Sociology — social justice and ecological and social sustainability

EMERITUS and RETIRED FACULTY:

Robert G. Cromley, Ph.D., Ohio State, 1978, Professor Emeritus
Peter L. Halvorson, Ph.D., Cincinnati, 1970, Professor Emeritus
Ross MacKinnon, Ph.D., Northwestern, 1968, Professor Emeritus
Jeffrey P. Osleeb, Ph.D., SUNY Buffalo, 1974, Professor Emeritus

DELAWARE

UNIVERSITY OF DELAWARE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1971

DEGREES OFFERED: B.A. (Geography, Geography Education, Environmental Studies), B.S. (Meteorology and Climatology, Environmental Science), M.A. and M.S. (Geography), Ph.D. (Climatology, Geography), Graduate Geographic Information Science Certificate

GRANTED 9/1/17-8/31/18: 68 Bachelors, 5 Masters, 2 Ph.D., 4 GIS Certificate

STUDENTS IN RESIDENCE: 261 Majors (23 Geography, 135 Environmental Science, 88 Environmental Studies, 15 Meteorology and Climatology), 10 Masters, 17 Ph.D., 17 GIS Certificate

CHAIR: Delphis Levia
ASSISTANT TO THE CHAIR: Kaci Middlemas

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Delphis Levia, Chair, Department of Geography, University of Delaware, Newark, DE 19716. Telephone: (302) 831-2294. Fax (302) 831-6654 (Faxes should be directed to Delphis Levia) E-mail: info@geog.udel.edu Internet: <http://www.ceoe.udel.edu/schools-departments/departments-of-geography>

GRADUATE PROGRAMS AND RESEARCH FACILITIES: Delaware's graduate programs provide opportunities to interact closely with faculty whose research interests encompass one or more of three broad areas: climatology, ecohydrology, and human-environment interactions.

Our Ph.D. degree in Climatology builds on the longstanding climatology tradition in the department with additional faculty and resources within the College of Earth, Ocean and Environment. The climatology faculty research focus on land/ocean/ice-atmosphere interactions, and climate dynamics and variability. The faculty employ a wide range of models, from cloud scale to climate scale, and use environmental observations including surface, upper air, and satellite data, along with state-of-the-art methods of analysis and modeling to study our climate system.

The Geography Ph.D. degree serves as the umbrella degree for advanced geographic research in both physical and human geography. The physical geography research includes cryospheric studies (sea ice, glaciers, snowcover) and ecohydrology research (vegetation change, biogeochemical changes in forests, linkages between hydrology and ecosystem processes). A new human geography focused PhD encourages research in human-environmental relations, political ecology and in fieldwork at home and abroad. Interdisciplinary work is encouraged from across the university and in collaborations with local, national, and international partners. The department is flexible, focusing on individual interests and encouraging multidisciplinary work.

Delaware's masters programs in Geography provide individualized coursework and professional training, with an emphasis on developing research and analytic abilities, as well as professional communication skills. A thesis is required of all masters students.

Graduate GIS Certificate program is designed to provide the theoretical underpinnings of GIS to make informed use of geographic technologies and to gain the technical skills needed to construct and solve problems in the physical and social realms. The program requires one core graduate GIS course followed by 9 additional graduate GIS credit hours.

Topical Emphases:

Climatology emphasizes the study of interactions between the earth and atmosphere and their role in environmental problems. Faculty research interests fall within all the traditional subareas of climatology, including climate dynamics, hydroclimatology, physical climatology, microclimatology, paleoclimatology, and synoptic weather-analysis climatology. Human impacts on energy and moisture exchanges, and climatic influences on socioeconomic activities are of increasing importance and allow many opportunities for interdisciplinary and cross-disciplinary research.

Ecohydrology encompasses research where primary processes in the soil, vegetative layer, or other aspects of the near-surface landscape. Such interests include the effects of forest cover on hydrological and biogeochemical flows and the linkages between hydrology and ecosystem processes.

Cryosphere studies feature heavily in both climate and land-surface research, including snowcover and snowfall studies, glacier dynamics

and variations, and sea-ice dynamics and development of sea-ice datasets.

Human geography faculty are examining the adaptations to a changing world focusing on topics of environment and society, sustainability and justice, and urbanization and development. Current research project include the study of Guatemalan immigration to Delaware and its impact on migrant and host communities, political ecology of health with an interest in the historical relationships between health and urbanization in the North American context, geographic and policy dimensions of development in western China (especially as they are related to water resources and climate change), and food and agricultural systems in Mexico (focus on how local actors interact with transnational development organizations to shape landuse policies and agricultural practices).

Field research and measurement provide a major tool of research in this department. The Delaware Environmental Observing System (DEOS) established and maintains over 50 automated weather stations in Delaware and nearby, providing real-time weather information for regional environmental research as well as for a wide variety of outside users. Geographic studies are conducted as multiple scales from local to the global scale.

Research methods encompass analysis and synthesis of existing data, including data from observational networks, remote sensing sources, the census, modeling output, and other archival sources. Geographic Information Science (GIS) is used as an analysis and presentation tool in most of our research areas, and nearly all of our graduate students opt for significant training in GIS. GIS skills are complemented by training in remote-sensing, image analysis, statistical methods, and database programming. Although all masters and doctoral theses require topical research areas, emphasis on the research methods is commonly allowed at the masters level. The Graduate GIS Certificate Program prepares students to utilize GIS in their program area of study by developing the student's theoretical underpinnings of GIS and to develop their technical skills.

The University and Department cover student and faculty computing and computer network needs. All graduate student offices include department-provided workstations. The University provides licensed software sufficient for a wide variety of uses, including GIS, image processing, and statistical analysis software. The Geography Department operates the University's GIS classroom as a state-of-the-art teaching facility. Departmentally owned workstations and data servers handle most of our data-intensive applications. A computer programmer/analyst assist with use of these resources. The Department's computing resources are supplemented by high-end Unix servers and computer clusters at the University level and by supercomputer resources available through SURAGRID, supporting some of our larger data analysis projects and our atmospheric modeling.

The Department maintains a strong interest in geographic education, and graduate students can participate in outreach activities at local, regional, and national levels. The Delaware Geographic Alliance is headquartered in the Department and employs a full-time coordinator. Its mission is to enhance education at the K-12 level throughout the state of Delaware, primarily through providing existing teachers with resources and education.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University operates on the semester system. Admission requirements are an undergraduate GPA of 3.0 (4-point scale) and combined verbal and quantitative minimum GRE scores of 300 for the masters and Ph.D. programs. Applicants scoring lower on these criteria may be considered if they demonstrate superior aptitude in other respects. Admission is competitive and is based on the number of well-qualified applicants and the availability of faculty and

financial resources. The graduate program will consider applicants without previous background in geography, although remedial work may be required as a condition of acceptance. Admission requirements for the Ph.D. program also include a thesis-based masters degree in geography or a discipline closely related to the proposed area of study, and demonstrated methodological training. Financial support is available through fellowships, research assistantships, and teaching assistantships. Financial support for entering graduate students is awarded on a competitive basis.

FACULTY:

Saleem H. Ali, Ph.D., MIT, 2000, Blue & Gold Distinguished Professor of Energy & Environment — environmental conflict resolution, resource geography, military geography
Cristina Archer, Ph.D., Stanford University, 2004, Associate Professor — renewable energy, wind power, meteorology, climate change, air quality, numerical modeling of atmospheric processes.
Kyle F. Davis, Ph.D., University of Virginia, 2016, Assistant Professor — sustainability; agriculture and global environmental change; food and nutrition security; GIS and remote sensing; rural livelihoods
Tracy L. DeLiberty, Ph.D., University of Oklahoma, 1994, Associate Professor — climatology, sea ice, GIS, remote sensing
Jing Gao, Ph.D., University of Wisconsin-Madison, 2013, Assistant Professor — geospatial data science, machine learning, uncertainty analysis and modeling, social dimensions of global environmental change, urban land cover and land use change, spatial population studies
Cathleen A. Geiger, Ph.D., Dartmouth College, 1996, Research Associate Professor — climatology, mechanics, kinematics, and dynamics of sea ice, cryosphere, polar regions
Brian Hanson, Ph.D., University of Minnesota, 1985, Professor — climate dynamics, glaciology, numerical modeling
Paul Jackson, Ph.D., University of Toronto, 2011, Assistant Professor — urban geography and political ecology of health
Julie Michelle Klinger, Ph.D., University of California, Berkeley, 2015, Assistant Professor — natural resources, territory, land use and livelihood change, frontier geopolitics, environment, development, technology, Brazil, China, Outer Space
Daniel J. Leathers, Ph.D., Pennsylvania State University, 1988, Professor and Delaware State Climatologist — snowfall and snow cover studies, cryosphere, atmospheric dynamics, hydroclimatology, microclimate
David R. Legates, Ph.D., University of Delaware, 1988, Professor and Coordinator of the Delaware Geographic Alliance — hydroclimatology, precipitation, snowfall measurement, global climate change, remote sensing of precipitation, computational methods
Delphis F. Levita, Ph.D., Clark University, 2000, Professor and Chair — biometeorology, ecohydrology, biogeochemistry, field methods and instrumentation, environmental management
Pinki Mondal, Ph.D., University of Florida, 2011, Assistant Professor — remote sensing and GIS, land use land cover change, human-environment interactions, agricultural systems, climate impacts
Lindsay Naylor, Ph.D., University of Oregon, 2014, Assistant Professor — political geography, food and agricultural systems, critical development studies, critical geopolitics, Latin America
Sara Rauscher, Ph.D., University of Wisconsin-Madison, 2004, Assistant Professor — regional climate modeling dynamics, climate change and variability
April Veness, Ph.D., University of Minnesota, 1984, Associate Professor — urban/social geography, minority problems and places, geographic thought
Dana Veron, Ph.D., Scripps Institution of Oceanography, University of California-San Diego, 2000, Associate Professor and Director of the Environmental Science and Studies Program — regional modeling in Arctic/Antarctic, Arctic energy budget, cloud forcing and feedback, sea breeze, wind resource assessment, air-sea interactions

EMERITUS:

Edmunds V. Bunkše
Frederick Nelson
Thomas Meierding
Peter Rees
Yda Schreuder
Cort Willmott

PROFESSIONAL ACADEMIC STAFF:

Kevin Brinson, M.S., University of Delaware, 2006, Director, Delaware Environmental Observing System — climatology, environmental sensing
Christina Callahan, B.A., University of Delaware, 1997, Associate Director, Delaware Environmental Monitoring & Analysis Center — mapping
Anne Dienert, M.Ed., Delaware, 1990, Delaware Geographic Alliance, Office Manager & Elementary School Manager — geographic education
Christopher Hughes, Ph.D., Delaware, 2016, Applications Developer, Delaware Environmental Observing System — climatology
David Huntley, B.S., Rutgers University, 1997, Meteorological Technician, Delaware Environmental Observing System — instrumentation
Kenji Matsuura, Ph.D., Delaware, 1992, Geographic Programmer/Analyst — climatology, database management, computer applications
Mary Schorse, Ph.D., Delaware, 2015, Delaware Geographic Alliance, Secondary & High School Manager — geographic education
Matthew Shatley, B.S., Delaware, 2008, Computer Research Specialist — computer science, satellite receiving station, database management
James Simkins, M.S., Wisconsin, 2017, Applications Programmer, Delaware Environmental Observing System — climatology

JOINT FACULTY:

John M. Byrne, Ph.D., University of Delaware, 1980, Professor (joint appointment with the Center for Energy and Environmental Policy) and Director of the Center for Energy and Environmental Policy (CEEP) — political economy; sustainable development; environmental justice; technology, environment and society
Gerald J. Kauffman, Ph.D., University of Delaware, 2014, Assistant Professor — water science and policy, hydrology, watershed planning, ecological economics
Holly Michael, Ph.D., MIT, 2005, Associate Professor (joint appointment with Geological Sciences) — coastal groundwater dynamics, groundwater-surface water interaction, groundwater flow and solute transport modeling, water supply sustainability, geostatistical modeling of subsurface heterogeneity
Matthew J. Oliver, Ph.D., Rutgers University, 2006, Associate Professor — biological oceanography, remote sensing, robotics, dynamic spatial planning, instrumentation, animal tagging, big data
Michael A. O'Neal, Ph.D., Washington, 2005, Professor (joint appointment with Geological Sciences) — glacial and fluvial geomorphology, quaternary, geology and geochronology, GIS
James Pizzuto, Ph.D., Minnesota 1982, Professor (joint appointment with Department of Geological Sciences) — fluvial geomorphology
Andrea Sarzynski, Ph.D., George Washington University, 2006, Associate Professor (joint appointment with School of Public Policy and Administration) — urbanization and environmental change, environmental policy and politics, urban and regional planning
Anthony Seraphin, Ph.D., Delaware, 2004, Associate Professor (joint appointment with Department of Mathematical Sciences) — climate datasets, pollution transport

Rodrigo Vargas, Ph.D., 2007, University of California- Riverside, Associate Professor (joint appointment with Plant & Soil Sciences) — ecosystem ecology, bioclimatology, soil-plant-atmosphere interactions, carbon cycling

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION OF GEOGRAPHERS

DATE FOUNDED: 1904

EXECUTIVE DIRECTOR: Douglas Richardson

FOR MORE INFORMATION WRITE TO: American Association of Geographers, 1710 Sixteenth Street NW, Washington, DC 20009-3198. Voice 202-234-1450. Fax 202-234-2744. Email: gaia@aag.org. Internet: <http://www.aag.org>.

PROGRAMS: The American Association of Geographers (AAG) was founded to promote and encourage geographic research and education and to disseminate research findings. The AAG currently counts over 12,000 members in the United States, Canada, and other countries throughout the world. AAG members work, teach, and conduct research at colleges, universities, and in business and government. Many others are independent scholars or students.

The Association accomplishes its goals by publishing its three quarterly journals, the Annals of the American Association of Geographers, the AAG Review of Books and The Professional Geographer, and the monthly AAG Newsletter; through outreach and educational programs; through research grants and contracts with government agencies; through the programs of its nine regional divisions, sixty-four specialty groups, and six affinity groups; and through multiple conferences and its annual meetings. At its most recent Annual Meeting in Washington, DC in April 2019, over 6,000 research papers, interactive short papers, and illustrated papers were presented on numerous topics by more than 8,500 geographers who attended. The AAG's 2020 Annual Meeting will be held from April 6-10, 2020 in Denver, Colorado. Professor Sheryl Luzzadder-Beach of University of Texas at Austin currently serves as president of the AAG. Professor David Kaplan of Kent State University is vice president. Professor Derek Alderman of University of Tennessee Knoxville is immediate past president. Additional details regarding AAG history and operations are contained in the Handbook of the AAG, available at <http://aag.org/guide>.

STAFF:

Jennifer Cassidento, Publications Director
Zan Dodson, Director, Program Management and Research
Coline Dony, Senior Geography Researcher
Colleen Dougherty, IT Director
Emily Fekete, Social Media and Engagement Coordinator
Liza Giebel, IT Support Specialist
Niem Huynh, AAG Research Fellow
Jolene Keen, Research Associate
Michelle Kinzer, Government Relations Manager
Oscar Larson, Director, AAG Meetings
Michelle Ledoux, Membership Director
Candice Luebbering, Senior Research Geographer and Director of Outreach and Engagement
Robin Maier, Journals Production Editor (The Professional Geographer)

Candida Mannozi, Director, Operations
Teri Martin, Director, Finance and Accounting
Reacha O'Neal, Administrative Assistant
Dwayne Parks, Accounting Specialist
Becky Pendergast, Director, Communications and Design
Mark Revell, Workforce Development Specialist, AAG Guide Editor
Douglas Richardson, Executive Director
Michael Solem, Senior Advisor for Geography Education
Meredith Stone, Annual Meeting and Outreach Associate
Yonette Thomas, Senior Advisor

GEORGE WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

DEGREES OFFERED: B.A., M.S.

GRANTED 9/1/17-8/31/18: 39 Bachelors, 11 Masters

STUDENTS IN RESIDENCE: 137 Majors, 23 Masters

CHAIR: Lisa Benton-Short

DEPARTMENT ADMINISTRATIVE ASST: Andrii Berdnyk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chairman, Department of Geography, 2036 H St NW, 217 Samson Hall, George Washington University, Washington, DC 20052. Telephone (202) 994-6185. Fax (202) 994-2484. E-mail: geog@gwu.edu Internet: geography.columbian.gwu.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is located in the heart of Washington, DC, within walking distance of the Departments of State, the World Bank, the Organization of American States, the White House, and short subway rides to the Library of Congress, the National Institutes of Health, and many other research facilities. The department has a large spatial analysis lab and a physical geography lab. In addition, faculty in the department work closely with the Elliott School of International Affairs, the Latin America and Hemispheric Studies Program, Sigur Center for Asian Studies, the Institute for Middle East Studies, and Environmental Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Department offers a Bachelor of Arts in Geography which is made up of 36 credit hours in the major. Beyond the introductory sequence, there is a core curriculum of two courses in each of the following groups: 1) physical, 2) human, 3) techniques and one course in 4) regional. An additional requirement is a senior proseminar in geography. The Department also offers a Bachelor of Arts in Environmental Studies, which is an interdisciplinary degree. Minors in Geography and Geographic Information Systems (GIS) are also offered.

The Master of Science degree program requires a B.A. or B.S. degree in geography or a related field in the social or natural sciences. Thesis and non-thesis options are available. The thesis option requires a minimum of 30 semester hours, including Thesis Research credit. The non-thesis option requires 36 hours of graduate work. The program of study has a three-course core, after which the student selects courses in conjunction with an advisor and the student's graduate committee. Collaborative research between faculty and graduate students is a hallmark of the M.S. program, which emphasizes strong quantitative and research skills in geographical analysis. Students often co-author conference presentations and research publications. The M.S. program focuses on three areas of departmental expertise: the urban environment and sustainability; urbanization, migration and development; and applied geospatial techniques. A limited number of

fellowships and teaching assistantships are available, as are internship possibilities with various agencies. The Department also offers a graduate GIS Certificate Program, a 12-credit program with rolling admission open to students who already have a B.A. or B.S. degree. Masters students may earn both the M.S. and the GIS Certificate simultaneously.

FACULTY:

Mona Atia, Ph. D., University of Washington, 2008, Associate Professor of Geography and International Affairs — economic development, cultural, the Middle East
Ginger R.H. Allington, Ph.D., Saint Louis University, 2012, Assistant Professor — arid rangelands, social-ecological systems modeling, land cover/land use change
Lisa M. Benton-Short, Ph.D., Syracuse University, 1997, Professor and Chair of Geography — urban geography, urban sustainability environmental issues
Elizabeth Chacko, Ph.D., UCLA, 1997, Professor of Geography — population, cultural and urban geography, South Asia
Declan Cullen, Ph.D., Syracuse University, 2013, Assistant Professor of Geography — cultural geography, economic geography, development studies, social theory, colonialism
Ryan Engstrom, Ph.D., San Diego State University, 2005, Associate Professor of Geography — physical geography, remote sensing
Brendan Hurley, M.S. in Environmental Management, Duke University, 2007, Assistant Professor of Geography — geospatial statistics, techniques of spatial analysis
Melissa Keeley, Ph. D., Technical University of Berlin, 2007, Assistant Professor of Geography — urban sustainability, green infrastructure, environmental policy
Michael Mann, Ph.D., Boston University, 2011, Assistant Professor of Geography — spatial modeling and prediction, land use change, wildfire, agriculture
Marie D. Price, Ph.D., Syracuse University, 1991, Professor — political, cultural, population, Latin America
David R. Rain, Ph.D., Pennsylvania State University, 1997, Associate Professor of Geography — urban, development, Sub-Saharan Africa, Geographic Information Systems
Nikolay Shiklomanov, Ph.D., University of Delaware, 2001, Associate Professor of Geography — Arctic environments and permafrost, spatial analysis, geomorphology, climate change
Dmitry Streletskiy, Ph.D., University of Delaware, 2010, Associate Professor of Geography — climate change, arctic environments, geography of Russia, periglacial geomorphology, GIS

TECHNICAL STAFF:

Richard Hinton, MGIS, Pennsylvania State University, 2014, Lecturer of Geography — cartography, geographic information systems, geospatial analysis

EMERITI:

John C. Lowe, Ph.D., Clark University, 1969 — urban and transportation geography
Dorn C. McGrath, Jr., MCP, Harvard University, 1959, Professor — urban and regional planning, Latin America, transportation

U.S. DEPARTMENT OF STATE

OFFICE OF THE GEOGRAPHER AND GLOBAL ISSUES

DATE FOUNDED: 1929

DIRECTOR: Lee R. Schwartz, The Geographer, U.S. Department of State

FOR FURTHER INFORMATION ABOUT CAREER OPPORTUNITIES AND APPLICATIONS PROCEDURES CONTACT: Personnel Officer, Bureau of Intelligence and Research,

INR/EX/HR, Room 6880, Department of State, Washington, D.C. 20520-6510. Telephone (202) 647-1988. Fax (202) 647-0504.

PROGRAMS AND RESEARCH FACILITIES: The Office of the Geographer and Global Issues carries out current research and analysis of international geographic issues of interest to senior U.S. policy makers. Areas of research include international boundaries, territorial and maritime issues; population, migration, and refugee flows; national asylum and immigration policies; transboundary environmental and public health problems; humanitarian relief concerns; war crimes and atrocities prevention; food and water security; climate change; human and wildlife trafficking; and issues involving the United Nations and other international organizations. Specifically:

- World-Wide Human Geography Data Working Group (<https://www.wwhgd.org/>)
- Secondary Cities (<https://secondarycities.state.gov/>)
- MapGive (<https://mapgive.state.gov/>)
- Board on Geographic Names (<https://geonames.usgs.gov/>)

BASIC QUALIFICATIONS: Analytical positions for geographers are available infrequently. Specific job requirements will determine qualifications but a graduate degree in Geography, foreign language, and excellent writing skills are recommended.

STAFF:

Lee R. Schwartz, Ph.D. Columbia, 1986, Office Director, Geographer — political and population geography, former Soviet Union/Eastern Europe, complex emergencies, refugees, human rights, crisis mapping, geospatial sciences for sustainable development, applied imagery analysis, and international diplomacy.
Jo-Ellen Adkins, J.D., International law, University of Detroit Mercy School of Law Graduate of the London Law Program specializing in international law B.A. Journalism, Mass Communication, Political Science, University of Iowa, Director, National Geospatial-Intelligence Agency Support Team
Colleen Altstock, BA International Studies, Asian Studies, and Economics, University of Washington, 2002; Multilateral, Transnational Issues, and Human Rights Division Chief
Laura Cline, M.A. Geography, 2004, B.A. International Affairs, 2002, George Washington University; Geographer & Humanitarian Affairs Analyst, Humanitarian Information Unit
Sydney A. Cross, M.A. Political Science, Howard University, 2012; B.A. International Affairs, Trinity Washington University, 2010. Foreign Affairs Analyst, Humanitarian Information Unit
Kristen Dennison M.A. Political Science, Pennsylvania State University 2011; B.A. International Politics, International Studies, Pennsylvania State University 2011; Analyst – Human rights and democratization
Leo Dillon, M.S. Geography, University of South Carolina, 1984; Cartographer and Chief of the Geographic Information Unit, foreign geographic names
Eric R.M. Doornbos, M.A. in Security Studies, Georgetown University, 2015; B.A. in History and International Relations, Calvin College, 2013 — International Boundary and Sovereignty issues
Christine Fellenz, B.A., University of Wisconsin-Parkside, 1996; Cartographer, Humanitarian Information Unit
Tom J. Gertin, M.S. Geoinformatics and Geospatial Intelligence, George Mason University, 2012; B.A. Public and Urban Affairs, Virginia Polytechnic Institute and State University, 2007. Geospatial Analyst, Humanitarian Information Unit
LTC Bryan A. Harmon, M.S. Administration, Central Michigan University 2013; B.S. Agricultural Economics, Purdue University 2001, Military Liaison Officer, Humanitarian Information Unit

Michelle A. Herber, BS Imaging Science, Rochester Institute of Technology, 2009; Geospatial Analyst, National Geospatial-Intelligence Agency Support Team

Sukhraj Kaur, M.A. Political Science, George Mason University, 2015; B.A. Government and International Politics, George Mason University, 2013. Humanitarian Analyst, Humanitarian Information Unit

Adrienne Keen, Ph.D. Infectious Disease Modeling and Epidemiology, University of London, 2013; M.S. Ecology, Evolution, and Behavior, University of Minnesota, 2007; B.S. Biological Sciences and B.A. Physiology, University of Minnesota, 2004 - Global Health, Environment, and S&T Analyst

Dennis J. King, Post-Graduate Certificate in Knowledge Management, George Washington University, 2007, M.S. Columbia University, 1983, B. A. University of Florida, 1980, Humanitarian Information Unit – Humanitarian Analyst

Melinda J. Laituri, Ph.D., University of Arizona, 1993; M.S. California State University, Chico, 1985; B.A. University of California, Berkeley, 1979, Science Advisor, Humanitarian Information Unit; Professor, Colorado State University – geographic information systems, water resource management, watershed science, disaster management, indigenous peoples, local knowledge systems

Ryan Latgis, B.S. Geographical Sciences: GIS/Computer Cartography, University of Maryland, 2016; Humanitarian Researcher, Humanitarian Information Unit

James Liddle, BA Mathematics and History, Bucknell University, 1996; Humanitarian Information Unit Chief

Paulette Lloyd, Ph.D., University of California, Los Angeles, 2005, Foreign Affairs Research Analyst – trafficking in persons, global women's issues, international justice and accountability

Brooke E. Marston, M.S. Geography and graduate certificate in Geographic Information Science, Oregon State University, 2014; B.A. Geography and B.M. Woodwind Performance, University of Colorado Boulder, 2012; Cartographer, Geographic Information Unit

Andrew McKenna, B.A. Geography and International Affairs, University of North Carolina at Chapel Hill, 2011, Geographer & Humanitarian Affairs Analyst

Michael D. Morin, M.A. George Washington University, 1987; B.A. University of Maine-Orono, 1984, Foreign Affairs Analyst – international justice and accountability, war crimes, atrocity prevention

Kathleena M. Mumford, B.A. Geography, George Washington University, 2012; Analyst, Humanitarian Information Unit

Erika K. Nunez, B.A. Global Studies and Peace, War, and Defense, University of North Carolina at Chapel Hill, 2013, Humanitarian Researcher, Humanitarian Information Unit

Rachel L Sauer, J.D. and graduate certificate in Human Rights University of Connecticut School of Law, 2010; B.A. Political Science and International Studies University of Illinois, 2007. Analyst – Civilian security, religion, Atrocity Prevention Board

Rod Schoonover, PhD Chemical Physics, University of Michigan, 1993; B.S. Chemistry, B.S. Physics, University of Kansas, 1987, Science and Technology Analyst

Christine Lamers Somer, BA Cultural Geography, Illinois State University, Deputy Director, National Geospatial-Intelligence Agency Support Team

Gene Thorp, B.A. Geography and B.A. History, University of Maryland Baltimore County, 1992; Cartographer, Geographic Information Unit

Karen A. Tokarsky, M.A. Clinical Psychology, Marshall University, 1985; B.S. Psychology, Indiana University of Pennsylvania, 1983, Administrative Officer

Gary W. Tripmacher, M.A. in International Affairs, George Washington University 2009; B.A. in History, Boston College 2002, Analyst - UN, International Organizations

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

DEPARTMENT OF GLOBAL AND SOCIOCULTURAL STUDIES

DATE FOUNDED: 2008

DEGREES OFFERED: B.A. Geography; B.A. Sociology/Anthropology; M.A. and Ph.D. Global and Sociocultural Studies (GSS)

GRANTED 2016-2017: 9 Geography B.A.; 61 Sociology/Anthropology B.A.; 8 GSS M.A.; 7 GSS Ph.D.

MAJORS: 25 Geography B.A.; 347 Sociology/Anthropology B.A.; 6 GSS M.A.; 59 GSS Ph.D.

HEAD: Guillermo Grenier

DEPARTMENT OFFICE MANAGER: Gonzalo Crivelli

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Florida International University's Department of Global & Sociocultural Studies, 11200 S.W. 8 Street, SIPA 340, Miami, FL 33199 – Telephone: (305)-348-2247 – Fax: (305)-348-3605 – Email: gss@fiu.edu – Website: <http://gss.fiu.edu/>

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: The geography Bachelor of Arts degree program at FIU offers students the opportunity to develop knowledge and skills in economic and cultural geography, development, gender and international studies, GIS, and political ecology. The Department has strong regional expertise in Latin America, the Caribbean, Africa, the Middle East, and North America.

Graduate: The graduate program in Global and Sociocultural Studies is a core department in the Steven J. Green School of International and Public Affairs. The Department integrates the disciplinary approaches of geography, anthropology, and sociology with cross-disciplinary theorizing and research. The M.A. and Ph.D. curricula are organized by three intersecting themes: Identities & Inequalities; Migrations & Diasporas; and Nature-Society. Disciplinary concentration in Geography is an option for the Ph.D. as is a graduate certificate in Geographical Information Systems (GIS). Facilities: The Department is located in the Green School of International and Public Affairs Building situated in the center of the campus. The building features state-of-the-art classrooms, faculty offices, a graduate student office suite, a 500-seat auditorium with simultaneous translation booths, two language labs, and a GIS and data processing lab. In addition, students have access to the university's state-of-the-art GIS facility.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate admissions requirements are the same as those for admission to the Steven J. Green School of International and Public Affairs. Geography majors are required to complete two lower division geography courses as program prerequisites. The degree requires 30 credits for completion. Students are encouraged to pursue double majors, minors, and certification in related fields of study. Graduate admissions are submitted on-line through FIU's University Graduate School, <http://gradschool.fiu.edu/>. In addition, a separate statement of purpose and three letters of recommendation should be sent directly to the Department. Please see the Department's web pages for further information. Graduate students may apply for teaching assistantships (stipend plus tuition waiver) and several on-campus fellowships.

FACULTY:

Aslihan Akkaya, Ph.D., Southern Illinois University-Carbondale, 2012, Lecturer [SOC] — social media, language and identity, ethics, piety, gender and sexuality, Islam

Mitzi Carter, PhD, University of California, Berkeley, Anthropology, 2016 — anthropology, East Asian studies and the African and Africa Diaspora Program

Young Rae Choi, Ph.D., Ohio State University, 2015, Assistant Professor [GEO] — marine and coastal governance, political ecology, East Asia

Jorge Duany, Ph.D., University of California, 1985, Professor [ANT] — migration, ethnicity, race, nationalism and transnationalism

Juliet Erazo, Ph.D., University of Michigan, 2003, Associate Professor [ANT] — indigenous social movements, globalization, environmental anthropology, political ecology; Amazonia, the Andes, Ecuador

Christopher Girard, Ph.D., University of Wisconsin-Madison, 1988, Associate Professor [SOC] — research methods, deviance, medical sociology, social problems, stratification

Ricardo Gonzalez, Ph.D., University of Hawaii, 2008, Instructor [GEO] — coastal/marine geography, political ecology, cultural geography, Latin America, Caribbean, Europe

Guillermo Grenier, Ph.D., University of New Mexico, 1986, Professor [SOC] — labor relations, sociology of work, ethnicity, immigration; United States, Cuba/Latin America

Kevin Grove, Ph.D., Ohio State University, 2011, Assistant Professor [GEO] — environmental security, development, geopolitics, Caribbean political economy, vulnerability, adaptation and resilience, urban political ecology

Percy Hintzen, Ph.D., Yale University, 1981, Professor [SOC] — comparative political sociology, postcolonial studies, political & economic development, Caribbean political-economy, diaspora studies, African studies, critical methodology

Gail Hollander, Ph.D., University of Iowa, 1999, Associate Professor [GEO] — economic geography, agro-environmental conflict, food system theory, feminist geography; North America and the Caribbean

A. Douglas Kincaid, Ph.D., Johns Hopkins University, 1987, Associate Professor [SOC] — political sociology, urban/rural sociology, sociology of development; Central America, Latin America

Qing Lai, Ph.D., University of Michigan, 2014, Assistant Professor [SOC] — quantitative methods, demography, life course, social stratification and inequalities, globalization, development, China, social psychology

Katherine Lineberger, Ph.D., University of Colorado at Boulder, 2009, Instructor [SOC]

Shearon Lowery, Ph.D., Washington State University, 1979, Associate Professor [SOC] — social deviance, mass communications, juvenile delinquency, criminology

Sarah Mahler, Ph.D., Columbia University, 1992, Associate Professor [ANT] — urban anthropology, cultural anthropology, physical anthropology, Latin America, Caribbean, North America

Matthew Marr, Ph.D., University of California-Los Angeles, 2007, Associate Professor [SOC] — urban sociology, Japanese society, qualitative research methods, globalization, poverty, public sociology, Japan, United States

Roderick Neumann, Ph.D., University of California-Berkeley, 1992, Professor [GEO] — political ecology, landscape and identity, nature-society, social theory, Africa, Europe

Ulrich Oslender, Ph.D., University of Glasgow, 2001, Associate Professor [GEO] — political geography, cultural geography, political ecology, social movements, Latin America, Colombia, cultural politics of blackness, forced displacement, geopolitical discourses on terror

Mark Padilla, Ph.D., Emory University, 2003, Associate Professor [ANT] — critical medical anthropology, global health, Latin America, Caribbean, Dominican Republic, tourism studies, gender/sexuality studies, HIV/AIDS research and prevention, mixed methods research on health inequities

Vrushali Patil, Ph.D., University of Maryland, 2006, Associate Professor [SOC] — gender, sexuality, culture, transnationalism, feminist theory

Andrea Queeley, Ph.D., City University of New York, 2007, Associate Professor [ANT] — cultural anthropology, social inequality, black popular culture, anthropological fieldwork, African diaspora studies, the Caribbean

Jean Rahier, Ph.D., University of Paris, 1994, Professor [ANT] — race relations, African studies, Africa, Latin America

Derrick Scott, Ph.D., University of Maryland, 2012, Instructor [GEO] — urban geography, geo-economics/politics, GIS, housing issues, new-urbanism, smart growth areas, West Indies, U.S. Cities, Sub-Saharan Africa

Benjamin Smith, Ph.D., University of Kentucky, 2008, Associate Professor [GEO] — cultural landscapes, economic geographies, urban geographies, contemporary Persian Gulf

Richard Tardamio, Ph.D., Johns Hopkins University, 1979, Associate Professor [SOC] — political economy of development, urban sociology, Latin America

Nelson Varas-Diaz, Ph.D., University of Puerto Rico, 2002, Professor [SOC] — social stigmatization of disease (e.g. HIV/AIDS), marginalized groups (e.g. transgender individuals) and cultural practices (i.e. heavy metal music, religion), research methods, Caribbean Region

Dennis Wiedman, Ph.D., University of Oklahoma, 1979, Clinical Associate Professor [ANT] — medical anthropology, organizational culture, environment anthropology, urban anthropology, ethnohistorical research methods, applied anthropology, Native Americans

FLORIDA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1925

GRADUATE PROGRAMS FOUNDED: M.A. 1930, Ph.D. 1995, M.S. GIScience 2006

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

GRANTED 8/31/2004-5/30/19: 32 M.A., 194 M.S., 57 Ph.D.

STUDENTS IN RESIDENCE: 224 Majors, 35 Masters, 33 Ph.D.

CHAIR: James B. Elsner

GRADUATE DIRECTOR: Chris Uejio

DEPARTMENT ADMINISTRATIVE ASST: Adam Ware

FOR FURTHER INFORMATION: Graduate School (www.gradschool.fsu.edu) and Geography Graduate Director, Dr. Chris Uejio (850-644-5913, cuejio@fsu.edu) at the Department of Geography, 323 Bellamy Building, 113 Collegiate Loop, Florida State University, Tallahassee, Florida 32306-2190. Tel: (850) 644-1706. Fax: (850) 644-5913. www.geography.fsu.edu

PROGRAMS AND RESEARCH FACILITIES: Geography at Florida State University investigates critical issues dealing with geospatial inquiry and human-environment interaction. Particular focus is given to methodological and theoretical studies relating to: cities & urban flows; black geographies; climate change, risk & society; urban GIS & remote sensing; and biodiversity, conservation & management. Recent geospatial research includes land use modeling, image classification, transportation optimization, regionalization, time series analysis, network analysis, dasymetric models, neural nets, Bayesian probabilities, landscape dynamics, fractal geometry, and scale dependence. Human-environmental research examines the human costs and physical damage from hurricanes and tornadoes, changing biodiversity and ecosystems, flood frequency, coastal habitats, marine conservation and protection, energy consumption, environmental health and justice, waste management, urban political ecology, race and labor geographies,

black and ethnic injustice, population vulnerability, and policies for natural resource management. The undergraduate program in Geography consists of 34 semester hours, and the interdisciplinary STEM program, Environment & Society requires 41 semester hours. The master's program in geography comprises of 33 semester hours; the thesis is defended orally. The professional master's program GIScience consists of 32 credit hours, contains a capstone, and may be completed within one calendar year. Research and teaching are conducted in two fully-equipped and purpose-built GIS labs with all major GIS and remote sensing proprietary software, as well as dedicated GIS teaching assistants. The Ph.D. degree requires 33 credit hours, and courses in geographic philosophy, research methods, quantitative/qualitative approaches, along with a course on professional development. A comprehensive examination contains written and oral components, and the dissertation requires 24 credit hours as well as an oral defense upon completion. Recent masters and doctoral recipients have been placed in academic positions, state/federal environmental agencies, and private software companies. The Department also enjoys productive relationships with institutions such as, Florida Resources and Environmental Analysis Center, Institute for Government, Fish & Wildlife Conservation Commission, Department of Transport, USDA Forest Service, National Parks, and Tallahassee-Leon County GIS.

ADMISSION REQUIREMENTS AND FINANCIAL AID:

Graduate Admission requires a minimum GPA of 3.0 and/or a GRE score of at least 144 (quant) and 153 (verbal). Non-native English speakers need a TOEFL of 550 (PBT) or 80 (IBT). Funding for graduate assistantships is available at the current rate of approximately \$18,014 per academic year (Fall and Spring), plus tuition waiver (with possibility of summer teaching for an additional \$2,500). Other sources of funding include research assistantships, university fellowships, online mentoring, and internships with local and state institutions.

FACULTY:

Ronald Doel, Ph.D., Princeton, 1990, Associate Professor of History — environmental history, international relations, Arctic
James Elsner, Ph.D., Wisconsin-Milwaukee, 1988, Earl B. & Sophia H. Shaw Professor & Chair — hurricanes, tornadoes, spatial statistics, climatology
Mabel Gergan, Ph.D., University of North Carolina at Chapel Hill, 2016 — the Himalayan region, indigenous youth, hazards and precarity, climate justice, postcolonial environmental politics, race and ethnicity in South Asia
Mark Horner, Ph.D., Ohio State, 2002, Professor — GIS, transportation, spatial analysis, urban geography
Bradford Johnson, Ph.D., University of Georgia, 2018, Visiting Professor — weather, climate, and the urban environment
Sarah Lester, Ph.D., California-Santa Barbara, 2007, Assistant Professor — marine conservation, biogeography, macroecology, sustainable seafood
Tyler McCreary, Ph.D., York, Canada, 2014, Assistant Professor — race & indigeneity, environmental justice, political ecology, legal & labor geographies
Victor Mesev, Ph.D., Bristol, England, 1995, Harrison V. Chase Distinguished Professor — GIS, remote sensing, cartography, urban analytics
Stephanie Pau, Ph.D., UCLA, 2009, Assistant Professor — biogeography, remote sensing, tropical forests, c4 grasses, climate change
Caroline Sage Ponder, Ph.D., University of British Columbia, 2017 — municipal debt, urban social reproduction, infrastructure, geographies of racialization, urban social movements, just socio-ecological transitions, socio-spatial theory, political economy
Christopher Uejio, Ph.D., Wisconsin-Madison, 2011, Assistant Professor & Graduate Director — public health, medical geography, climate change, vulnerability

Mort Winsberg, Ph.D., University of Florida, 1958, Professor Emeritus — Florida, weather and climate, residential segregation, agriculture, Latin America

Sandy Wong, Ph.D., University of Illinois at Urbana-Champaign, 2017 — health inequalities, social processes of disablement and mobility, environmental influences on health, mixed quantitative and qualitative methods, health GIS

Xiaojun Yang, Ph.D., Georgia, 2000, Professor — remote sensing, GIS, urban ecology, coastal ecosystems

Tingting Zhao, Ph.D., Michigan, 2007, Associate Professor — GIS, energy, sustainability

ADJUNCT FACULTY:

Genevieve Brackins, Ph.D., Florida State, 2014 — geographies of gender, environment & justice

Madeleine Hart, M.S., Florida State, 2012 — GIS, water resources

Ava Holt, DrPH, Florida Agricultural and Mechanical University, 2016 — postdoctoral researcher, health equity and environmental justice in climate change adaptation and intervention planning, assessment of changes in infectious disease epidemiology due to climate variation, examination of potential cancer risks and climate hazards

Catherine Howard, Ph.D., Walden, 2010 — medical geography, epidemiology, public health

Trina Merrick, Ph.D., Vanderbilt, 2018 — postdoctoral researcher, remote sensing, spectroscopy from satellites and unmanned aerial systems (UAS), solar-induced fluorescence and gross primary production, other vegetation health indices, tropical vegetation, interdisciplinary collaborations to answer ecological questions about vegetation in the tropics

Loury Migliorelli, M.S., Florida State, 2014 — biogeography

Richard Miller, Ph.D., Wisconsin-Milwaukee, 1987 — landforms, US national parks

Laurie Molina, Ph.D., Florida State, 1997 — geographic education

Sean Nickerson, M.S., Florida State, 2015 — GIS, spatial databases, drone mapping

Nicholas Quinton, Ph.D., Florida State, 2014 — electoral geography, economic geography

Georgianna Strode, M.S., Programmer for FREAC — interactive mapping and the delivery of data via the Internet

Scott Weisman, M.S., Florida State, 2007 — GIS, local government

Jacqueline Windus, B.S. Florida State, 2008 — environmental risk and sustainability, archaeology

SANTA FE COLLEGE

DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES

DATE FOUNDED: 1966

DEGREES OFFERED: A.A., A.S., Non-Major B.S., B.A.

GRANTED 8/01/2017 to 7/31/2018: 240 Bachelors, 2,287 Associates of Arts, 519 Associates in Science (College-wide)

CHAIR: David Tegeder

DEPARTMENT ACADEMIC ASST: Ms. Mikayla Robinson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Heidi J. L. Lannon, Department of Social and Behavioral Sciences, Santa Fe College, 3000 NW83rd Street, L-250, Gainesville, FL 32606. Telephone (352) 381-7082.

E-mail: heidi.lannon@sfcollege.edu

Internet: <http://www.sfcollege.edu>

PROGRAMS AND RESEARCH FACILITIES: Associates and Bachelors degree programs are offered and Geography is part of a multidisciplinary academic unit linking social and behavioral sciences

within the College. The Department of Social and Behavioral Sciences at Santa Fe College offers courses in human, physical and world regional geography in addition to the disciplines of anthropology, history, political science, sociology and psychology. Courses in geography are the core for the Certificate in International Studies at Santa Fe College. The department's overarching objective is to integrate the disciplines of geography, anthropology, history, political science, sociology and psychology to enhance the lives of the students through the understanding human and environmental interactions.

Individual emphases include the themes of: (1) applied physical geography and fieldwork; (2) regional analysis and culture; (3) study abroad programs; and (4) geographic techniques: Study abroad trips that contain geography courses include those to Ghana, Costa Rica, Ecuador, and the United Kingdom. Students can also participate in the Santa Fe College Honors Program and other concentrations/minors within the College.

The department coordinates the Seahorse Key Coastal Resources Laboratory in conjunction with the University of Florida (www.skml.clas.ufl.edu). Additionally, the department has a computer facility dedicated to Geospatial Information Sciences and has a new multi-function GIS teaching lab. The College has a natural teaching area on campus dedicated to field work. The area includes 2 sinkholes, mesic hammock, loblolly pine and scrub oak environments, as well as an area used for controlled burns. Santa Fe College has a large karst cave system, operated by the Santa Fe College Foundation, which is used for the field experience. Santa Fe College also has a teaching zoo, rock garden and planetarium that are utilized in the dissemination of geography.

The department has students active in The Global Society and the World Travelers groups on campus. Students enrolled in the geography programs participate in a campus-wide International Studies Certificate and the Phi Theta Kappa Honors Society.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Santa Fe College is on a semester plan. Admission requirements are available from: Office of Admissions, Santa Fe College, 3000 NW 83rd Street, Building R, Gainesville, FL 32606 (<http://www.sfcollge.edu/admission/>). Financial Aid information may be obtained from the Director of Financial Aid, Santa Fe College, 3000 NW 83rd Street, Building R, Gainesville, FL 32606, (<http://www.sfcollge.edu/finacialaid>).

FACULTY:

Heidi J. L. Lannon, Ph.D., University of Florida, 2005, Associate Professor, Honors Faculty — coastal geomorphology, study abroad programs, field work, physical geography, geomorphology, honors

Neil Devine, M.S., Rutgers University, 1988, Assistant Professor, Adjunct — sustainability, cultural geography, environmental science

Kim Feigenbaum, M.S., University of Florida, 1990, Assistant Professor, Adjunct — regional geography, Eastern Europe, geographic education

Jean Vincent, M.S., University of Nebraska at Omaha, 1986, Assistant Professor, Adjunct — cultural geography, environmental science, geographic education

UNIVERSITY OF FLORIDA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1941

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A. and B.S. in Geography, B.A. in Environmental Geosciences, B.A. and B.S. in Medical Geography in Global Health, B.A. and B.S. in Geographical Sciences and Sustainability, M.A., M.S., Ph.D.

STUDENTS: 135 Majors, 10 Masters, 35 Ph.D.

MINORS: Geography, Medical Geography

CERTIFICATES: Geospatial Information Analysis, Digital Geography & GIS, Meteorology and Climatology, Applied Atmospheric Sciences, Medical Geography in Global Health

CHAIR: Dr. Jane Southworth

GRADUATE COORDINATOR: Dr. Sadie J. Ryan

UNDERGRADUATE COORDINATOR: Dr. Liang Mao

DEPARTMENT CONTACT: Alex Henao

FOR CATALOG AND FURTHER INFORMATION CONTACT:

Dr. Sadie Ryan email: sjryan@ufl.edu, Graduate Coordinator, Alex Henao, ahenao@ufl.edu or, contact the faculty of interest directly, Department of Geography, PO Box 117315, University of Florida, Gainesville, Florida 32611-7315. Telephone (352) 392-0494. Fax (352) 392-8855. WWW: <http://geog.ufl.edu/>

PROGRAMS AND RESEARCH FACILITIES: The Department offers four main areas of specialization for undergraduate training and graduate research:

Focus Area 1: Geospatial Analysis and Techniques. Modeling, Measurement, Visualization and Computation: techniques for the collection, analysis, manipulation, interpretation and display of geospatial data, using tools such as GIS, Remote Sensing, GPS, and Spatial Statistics. A variety of software is utilized such as ARCGIS, R, ERDAS Imagine, ENVI, Python, Java, C++, Matlab, SQL, SPSS, Google Earth Engine, NOAA's Weather and Climate Toolkit and more. Many courses are taught within our own geospatial analysis labs or flipped classroom environment space.

Focus Area 2: Medical Geography in Global Health (MGH). Medical geography, an important area of health research, applies concepts, methods, and techniques from geography to investigate health-related topics across the world, focusing on spatial aspects of human and animal (livestock and wildlife) disease and health intervention.

Focus Area 3: Earth System Science. This is the science of the atmosphere, land, biota, and water from a geospatial perspective. By combining hot topic or contemporary issues such as climate change, environmental extremes, and hazards, this focus area emphasizes the integrative nature of physical and environmental geography. These are the biophysical science questions that help drive management and policy.

Focus Area 4: Global, Environmental, and Social Change. This focus covers the areas of (a) Politics and the Environment; (b) Resources, Environment and Society; and (c) Regional and Global: Economic, Political, Demographic, and Social Change.

Politics and the Environment - Environmental issues are increasingly politicized. This section will investigate the two-way interactions between politics and environmental change at local, national and international scales. Political Ecology is one frame to understand multi-scalar interactions from the global to the local level and how it

unfolds in specific places, presenting social and environmental challenges.

Resources, Environment and Society - Generating, managing, and sustaining resources and coping with the consequences of their use have and will continue to be one of the main challenges confronting human societies. In this section we engage the dynamics of environmental security, including food, water, energy, and biodiversity, and challenges from local to global scales. Understanding the coupling of natural and human systems is essential to ensure a resilient future for humans and ecosystems.

Regional and Global: Economic, Political, Demographic, and Social Change - The world is becoming increasingly integrated and globalized, but retains tremendous cultural and environmental diversity. In this section we explore multiple dimensions of economic, political, demographic, and social change and interconnection in the world's major regions (Africa, Latin America, Asia, And Europe). We also examine forces and factors affecting international business, trade, immigration, and global production and consumption networks.

The department has state-of-the art GIS, remote sensing, and computer cartography facilities, with two fully equipped teaching laboratories, a 3D printing facility, a flipped classroom, a research and teaching preparatory lab, and extensive research equipment in several individual faculty laboratories. The department is strongly tied to many other units on campus, and is one of the principal participants of several campus-wide institutes and centers: the Center for African Studies and the Center for Latin American Studies, the Land Use and Environmental Change Institute; the Emerging Pathogens Institute, the Climate Institute, the Water Institute. Many faculty members in the department are also appointed to the faculty of the virtual School of Natural Resources and Environment (SNRE).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The academic year consists of two semesters and two summer sessions. Admission to the Graduate School requires the completion of a baccalaureate degree from an accredited college, a B average or better (or its equivalent), a minimum GRE verbal score of 140 (new scale), three letters of recommendation, and a Statement of Purpose. Foreign students whose first language is not English are required to obtain satisfactory scores (IELTS: 6. MELAB: 77. TOEFL (Internet-Based): 80. TOEFL (Paper-Based): 550). The Fall semester at the University of Florida generally begins around August 20, and the Spring semester begins around January 5 (see University website for exact dates). Applicants for the M.A., M.S. or Ph.D. degrees will be considered irrespective of their previous specialization in the physical and social sciences and humanities. Deficiencies in undergraduate coursework in geography may be corrected concurrently with registration in appropriate graduate level courses.

The Department of Geography and the University of Florida offer various types of financial support for qualified graduate students. Teaching assistantships are awarded on a competitive basis for the nine-month academic year and for the two summer semesters. Waivers for out-of-state tuition are included. Stipends begin at about \$18,000 plus tuition waiver for the nine month academic year and at about \$4,500 for a 6-week summer semester. A limited number of fellowship awards for highly qualified applicants may carry stipends of \$30,000 for 12 months. Research assistantships for the nine-month academic year and the summer semesters are also sometimes available from faculty members seeking assistance on grant-supported research projects. Research assistantship stipends are determined by the individual faculty member. NDEA Title VI Fellowships may be available for students interested in Latin American or African studies. Applications for teaching and research assistantships for the Fall Semester should be submitted by January 1.

The University also awards on a competitive basis a number of fellowships and scholarships for which new geography graduate

students are often eligible. Other fellowships and supplemental awards are also available from the department or other units of the university. (Candidates should check university website for current information on financial aid and awards.) Applications considered for most of these awards should be submitted by January 1.

All information about applying to the graduate program can be found at <http://geog.ufl.edu/programs/grad/admissions/>. The online Graduate Catalog is found at <http://gradcatalog.ufl.edu/>. Other inquiries should be directed to the Graduate School, Grinter Hall, University of Florida, Gainesville, Florida 32611.

FACULTY:

Kevin Ash, Ph.D., University of South Carolina, 2015, Assistant Professor — climatology, hazards, risk, human-environmental interactions, GIS

Michael W. Binford, Ph.D., Indiana, 1980, Professor — land-water interactions, human-environment interactions, GIS and remote sensing in environmental systems, paleoecology, tropical and subtropical Americas, southern and east Africa, Southeast Asia

Jason K. Blackburn, Ph.D. Louisiana State University, 2006, Associate Professor — medical geography, spatial aspects of zoonotic diseases, species distribution modeling, central Asia, North America, southern Africa

Brian Child, Ph.D., University of Oxford, 1988, Associate Professor — community based natural resource management, human-environment interactions, southern Africa

Timothy J. Fik, Ph.D., Arizona, 1989, Associate Professor — economic, urban, quantitative methods

Gregory E. Glass, Ph.D., Kansas, 1983, Professor — medical, biogeography, human-environment interactions, zoonotic and insect-borne diseases, biological threat reduction programs

Gabriela Hamerlinck, Ph.D., University of Iowa, 2015, Lecturer — medical geography and quantitative biology

Yujie Hu, Ph.D., Louisiana State University, 2016, Assistant Professor — transportation, human mobility and accessibility, public health, crime, and human-environment interactions

Liang Mao, Ph.D., State University of New York at Buffalo, 2010, Associate Professor — medical, spatial modeling for disease epidemics, disease control strategies, spatial/social network analysis, GIS/RS for environmental health

Corene J. Matyas, Ph.D. Pennsylvania State University, 2005, Associate Professor — climatology, severe weather, tropical cyclone behavior and modeling

Joann Mossa, Ph.D., Louisiana State, 1990, Professor — fluvial geomorphology, coastal studies, hydrology, human impacts in river and coastal settings, river restoration

Esther Mullens, Ph.D., University of Oklahoma, 2014, Assistant Professor — climate dynamics, climate adaptation, Extreme weather

Michael Norris, Ph.D., University of Hawai'i at Manoa, 2014, Research Assistant Professor — medical geography, spatial epidemiology

Sadie J. Ryan, Ph.D., California – Berkeley, 2006, Associate Professor — medical, biogeography, spatial and ecological aspects of disease transmission, Africa, Antarctica, North America

Katherine Serafin, Ph.D., Oregon State University, 2017, Assistant Professor — sea level rise, sustainability, risk and resilience of coastal communities, extreme events, flooding, climate change

Cynthia S. Simmons, Ph.D., Florida State University, 1999, Associate Professor — human-environment interactions, political economy, political ecology, land-change science, sustainability, South America, Amazon

Moulay Anwar Sounny-Slitine, Lecturer — GIS, programming, GIS applications, development, hydrology, geomorphology, North America

Jane Southworth, Ph.D., Indiana University, 2000, Professor — remote sensing, climatology, time-series analysis, savanna dynamics, climate variability and climate change, coupled social-ecological systems

Robert T. Walker, Ph.D. University of Pennsylvania, 1984, Professor — nature-society studies, land-change science, geospatial analysis

Peter R. Waylen, Ph.D., McMaster, 1982, Professor — hydrology, quantitative methods, modeling, climate variability, water resources

Olivier J. Walther, Ph.D., University of Lausanne, 2006, Assistant Professor — security and conflict, international trade, economic geography, social network analysis

EMERITI FACULTY:

Stephen M. Golant, Ph.D., Washington, 1972, Professor — social, behavioral, social gerontology, urban

Abraham C. Goldman, Ph.D., Clark, 1986, Associate Professor and Director of the Center for African Studies — tropical agriculture and land use, Africa, resources and conservation

Cesar N. Caviedes, D.Sc., Freiburg, 1969, Professor Emeritus — South America, environmental systems, political

Barbara E. McDade-Gordon, Ph.D., Texas, 1992, Associate Professor Emerita — economic, economic development, Africa, African diaspora

Nigel J.H. Smith, Ph.D., UC, Berkeley, 1976, Professor Emeritus — conservation and development of natural resources, ethnecology, Amazonia

AFFILIATED FACULTY:

Joel Correia, Ph.D., University of Colorado, 2017, Assistant Professor, Center for Latin American Studies — indigenous politics and indigeneity, human rights, social and environmental justice, development, territory, political ecology, applied and participatory research methods, Paraguay

Heidi Lannon, Ph.D., Florida 2005, Professor, Sante Fe Community College — geomorphology, hydrology, physical geography, geographic education, Africa, North America

Stephen Mullens, M.S., University of Oklahoma, 2010, Adjunct Instructor — social media and weather, communicating science

Andrew Noss, Ph.D., Florida, 1995, Courtesy Assistant Professor of Geography — cultural geography, natural resource management, Africa, Latin America

Marilyn E. Swisher, Ph.D., Florida, 1982, Associate Professor of Home Economics — tropical agriculture, women in agricultural development

GEORGIA

GEORGIA COLLEGE AND STATE UNIVERSITY

DEPARTMENT OF HISTORY AND GEOGRAPHY

DATE FOUNDED: 2010

DEGREES OFFERED: B.A. in Geography

DEGREES GRANTED 9/1/18-8/31/19: 7

MAJORS: 30

CHAIR/PROGRAM COORDINATOR: Aran

MacKinnon/Amy Sumpter

ADMINISTRATIVE ASSISTANT: Amy Mimes

FOR FURTHER INFORMATION AND CATALOG WRITE TO: Dr. Amy R. Sumpter, Department of History and Geography, Georgia College CBX 120, Milledgeville, GA 31061,

Telephone (478)445-2035. Email: amy.sumpter@gcsu.edu.
Internet: <https://www.gcsu.edu/artsandsciences/history/geography-ba>

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts degree in Geography at Georgia College & State University was created in 2010 to serve as a general geography major in the College of Arts & Sciences at Georgia's Public Liberal Arts University. We have crafted a degree program with a balanced emphasis on Human Geography, Physical/Environmental Geography, Regional Analysis, and Geographic Techniques. Our graduates are well prepared for several careers, from geographic education to geospatial science, military service, or graduate school. As a public liberal arts university, we encourage our majors to coordinate their coursework toward minors or second majors, including history, environmental science, and political science.

Following the completion of a core curriculum requiring two physical geography and two human geography courses, students participate in a sophomore-level research seminar and complete nine courses in five major areas at the upper-level: (1) human geography; (2) physical and environmental geography; (3) regional analysis; (4) geographic techniques; and (5) senior capstone (e.g., thesis, research paper, internship, study abroad, teaching practicum, or applied study). Majors can also participate in an Honors Program and other concentrations/minors within the College. Internships designed for geography majors are available. The department sponsors the Geography Club, and students participate in several other cross-campus and community activities.

The department now offers a GISc Certificate requiring 18-22 hours of upper-level coursework with a capstone experience that includes an internship or applied research project.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Georgia College is on a semester plan. Admission requirements are available from: Office of Admissions, Georgia College CBX 023, Milledgeville, Georgia, 31061 (<http://www.gcsu.edu/admissions/>). Financial Aid information may be obtained from the Office of Financial Aid, Georgia College CBX 030, Milledgeville, Georgia 31061, (<http://www.gcsu.edu/financialaid/>).

FACULTY:

Chuck Fahrner, Ph.D., University of South Carolina, 2001, Professor — political geography, geography of health, geographic education, Europe, Middle East

Doug Oetter, Ph.D., Oregon State University, 2002, Professor — remote sensing, geographic information, physical geography, land cover change, South America

Amy Sumpter, Ph.D., Louisiana State University, 2008, Associate Professor — race and ethnicity, cultural geography, American South

Mark Rochelo, Ph.D., Florida Atlantic University, 2017, Lecturer — remote sensing, drones, geographic information systems, historical cartography, archeology

GEORGIA INSTITUTE OF TECHNOLOGY

SCHOOL OF CITY AND REGIONAL PLANNING

DATE FOUNDED: 1952

DEGREES OFFERED: Master of City and Regional

Planning, M.S. in Geographic Information Science and

Technology, Ph.D. in City and Regional Planning

DEGREES GRANTED (Or Expected) 9/1/18 – 8/31/19: 64 MCRP, 14 MS-GIST, 5 Ph.D.

MAJORS: 111 MCRP, 14 MS-GIST, 24 Ph.D., 21 dual degree

CHAIR: Subhrajit Guhathakurta

PROGRAM ADMINISTRATIVE ASSISTANT: Johnnie Sawyer, Academic Advisor

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
School of City and Regional Planning, 245 4th Street NW, Atlanta GA 30332-0155. Telephone: (404) 894-2350. Fax: (404) 894-1628. Email: crp@design.gatech.edu Website: <https://planning.gatech.edu>

PROGRAMS AND RESEARCH FACILITIES: Georgia Tech's School of City and Regional Planning is a global leader in the creation of sustainable, resilient and just cities and regions, aiming for the highest levels of international learning and professional engagement. A research-led and highly interdisciplinary community of scholars, the School faculty includes five Fellows of the American Institute of Certified Planners, recent editors of the Journal of the American Planning Association and of the Journal of Planning Education and Research, and former chief operating officers of the Georgia Regional Transportation Authority, and the Atlanta City Planning Department. Graduate students arrive with ambitions to solve the world's most vexing problems resulting from population growth, economic disparities, resource shortages and climate change, and after graduation become leaders in the city planning profession, the development industry, the non-profit sector and academia. Specializations include economic development, environmental and health planning, housing and community development, land use planning, transportation, and urban design.

The School is home to four research centers: the Georgia Center for Quality Growth and Regional Development; the Center for Spatial Planning Analytics and Visualization; the Sino-U.S. Eco-Urban Lab; and the Urban Climate Lab; all of which provide research opportunities and financial support to many of our students. Planning students work with other centers and institutes across the Tech campus, including the Enterprise Innovation Institute, Brook Byers Institute of Sustainable Systems, GTRI Office of Policy Analysis and Research, Georgia Transportation Institute, and Georgia Water Resources Research Institute. Tech's award winning Co-op study program matches planning students with forward-looking and respected city planning firms and agencies in the Atlanta metropolitan area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: All degree program applicants must complete a Georgia Tech application for graduate admission; provide three letters of recommendation, official transcripts, and GRE scores taken within the last five years; TOEFL scores are required for applicants whose first language is other than English. Dual degree applicants must be admitted to each degree program separately. The deadline to be considered for merit-based departmental aid (such as fellowships and graduate research assistantships) and for the PhD program is January 15. All other applications should be submitted by February 15 (MCRP) or March 15 (MS-GIST).

The MCRP curriculum is a two-year, 55-semester-hour program. This degree requires seven core courses, a specialization, 12 hours of electives, and a thesis or applied research paper. The MS-GIST is a STEM degree with a three-semester (fall/spring/summer), 34-hour curriculum comprised of core and specialized coursework, as well as electives. The PhD program requires a minimum of two years of residency devoted to coursework, with a minimum of 15 hours of study in a major field, a minimum of 9 hours in a minor field, and a minimum of 16 hours in the program core. Please visit our website for more details: planning.gatech.edu.

Students are eligible to apply for various fellowships, graduate research and teaching assistantships, and our co-op program. GRAs, GTAs, and co-ops come with a tuition waiver and stipend.

FACULTY:

Nisha Botchwey, Associate Professor, PhD, University of Virginia — community development, public health, community engagement, qualitative methods

Jennifer Clark, Adjunct Associate Professor, PhD, Cornell University — economic development and smart cities, regional economic development, urban economics, science, technology, and innovation policy

Michael Dobbins, FAICP, FAIA, M.Arch, Yale University — urban design and architecture, citizen advocacy, planning regulation and administration

William Drummond, Associate Professor, PhD, University of North Carolina at Chapel Hill — geographic information systems, land use policy and planning, planning analytic methods

Ellen Dunham-Jones, Adjunct Professor, M.Arch, Princeton University — new urbanism, suburban redevelopment, dead malls, post-industrial landscapes, autonomous vehicles

Michael Elliott, Associate Professor, PhD, Massachusetts Institute of Technology — negotiation and public policy dispute management, environmental planning and risk management, sustainable communities

Alberto Fuentes, Assistant Professor, PhD, Massachusetts Institute of Technology — global development

Randall Guensler, Adjunct Professor, PhD, University of California at Davis — transportation planning, vehicle activity monitoring, air quality modeling, environmental impact assessment

Subhrajit Guhathakurta, Professor, PhD, University of California at Berkeley — geographic information systems, sustainability, planning support systems, housing, international development

Nancey Green Leigh, Professor, PhD, University of California at Berkeley — economic development planning, sustainable development, industrial restructuring

Julian Juergensmeyer, Adjunct Professor, JD, Duke University — growth management law, zoning and land use, international and comparative law

Elora Raymond, Assistant Professor, PhD, Georgia Institute of Technology — housing, community, and real estate development

Catherine Ross, Regents Professor, Harry West Professor, PhD, Cornell University — transportation planning and impact analysis, land use planning, urban revitalization, sustainable development and quality growth

Brian Stone, Professor, PhD, Georgia Institute of Technology — environmental planning, climate and health, urban design

Timothy Welch, Assistant Professor, PhD, University of Maryland — transportation and land use policy, urban planning

Perry Yang, Associate Professor, PhD, National Taiwan University — urban design, urban simulation and geographic information systems, landscape ecology

EMERITUS FACULTY:

Thomas Debo, Professor Emeritus, PhD, Georgia Institute of Technology, 1975 — stormwater management, civil engineering,

Larry Keating, FAICP, Professor Emeritus, PhD, University of Wisconsin at Madison, 1978 — housing economics and policy, real estate and urban land economics, community development

David Sawicki, FAICP, Professor Emeritus, PhD, Cornell University, 1970 — policy analysis and planning, economic development, oceans management

Bruce Stiftel, FAICP, Professor Emeritus, PhD, University of North Carolina at Chapel Hill — planning theory, citizen participation and conflict resolution, environmental planning, global urbanization

GEORGIA SOUTHERN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1964

DEGREES OFFERED: B.A. and B.S. in Geology; B.A. and B.S. in Geography; M.S. Applied Geography

GRANTED 8/1/17-6/30/18: 23 Bachelors

MAJORS: 72

CHAIR: Dr. James Reichard

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Geology and Geography, Georgia Southern University, PO Box 8149, Statesboro, Georgia 30460-8149. Telephone (912) 478-5361. Fax (912) 478-0668. Internet: <http://cosm.georgiasouthern.edu/geo/>

PROGRAM AND RESEARCH FACILITIES: The Department of Geology and Geography offers the B.S. and B.A. degrees in Geology, the B.A. and B.S. in Geography as well as undergraduate minors in geography, GIS, and geology. The Department also offers a Master of Science degree in Applied Geography. The undergraduate geography programs require 124 semester hours, while a minor requires a minimum of 15 semester hours. The M.S. program offers thesis and non-thesis option and requires 36 semester hours for completion. The Geography Program is a campus leader in study abroad offerings and international research, while undergraduate and graduate Geography programs offer students a broad range of courses in human, physical, and regional geography as well as GIS and remote sensing.

Georgia Southern University is a Carnegie Doctoral/Research University and is a unit of the University System of Georgia. University enrollment is more than 27,000 students. The main campus is located in Statesboro, while the Armstrong campus is located less than 50 miles away in historic Savannah. The Department of Geology and Geography operates a research facility, the Applied Coastal Research Laboratory, on Skidaway Island, Georgia, a 250 acre field station at the Ogeechee River just east of the Statesboro campus, and has an executed MOU with the Mindo Cloud Forest Reserve in Ecuador to provide research opportunities for faculty and students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Georgia Southern University operates on the semester system. Financial aid is available to qualified students through the University's Financial Aid Office. For information concerning admission requirements, contact the Admissions Office, Georgia Southern University, PO Box 8024, Statesboro, Georgia 30460. Telephone (912) 478-5391.

FACULTY:

Christine M. Hladik, Ph.D., Georgia, 2012, Associate Professor of Geography — remote sensing, coastal and marsh environments, modeling

C.J. Jackson, Ph.D., Georgia, 2010, Associate Professor of Geology — coastal geology, shoreline evolution, remote sensing

Jacque L. Kelly, Ph.D., Hawaii-Manoa, 2012, Associate Professor of Geology — groundwater geochemistry, coastal hydrology, remote sensing

Meimei Lin, Ph.D., Miami University, 2015, Assistant Professor of Geography — GIS, remote sensing, agricultural landscapes

Amy Potter, Ph.D., LSU, 2013, Associate Professor of Geography — Caribbean and U.S. South, tourism, African diaspora, migration

Nicholas C. Radko, MS, Georgia, 2011, Lecturer in Geology — environmental geology, field methods

James S. Reichard, Ph.D., Purdue, 1995, Professor of Geology and Chair — hydrogeology, environmental geology

Kathlyn M. Smith, Ph.D., Michigan, 2010, Associate Professor of Geology — paleoecology, invertebrate paleontology

Travis Swanson, Ph.D., University of Texas-Austin, 2015, Assistant Professor of Geology — sedimentology, stratigraphy

Wei Tu, Ph.D., Texas A&M, 2004, Professor of Geography — GIS, economic, China, Asia

John T. Van Stan, Ph.D., Delaware, 2012, Associate Professor of Geography — forest hydrology, biogeochemical processes, field methods

R. Kelly Vance, Ph.D., New Mexico Tech, 1989, Professor of Geology — economic geology, igneous and metamorphic petrology

Robert A. Yarbrough, Ph.D., Georgia, 2006, Associate Professor of Geography — population, immigration, conservation

Gale A. Bishop, Ph.D., Texas, 1971, Emeritus — paleontology, crab ecology, sea turtles

James H. Darrell, Ph.D., Louisiana State, 1973, Associate Professor Emeritus — paleontology, sedimentology, environmental geology

Daniel B. Good, Ph.D., Tennessee, 1973, Professor Emeritus — cultural geography, resource conservation, historical geography

Dallas D. Rhodes, Ph.D., Syracuse, 1973, Professor Emeritus — geomorphology, neotectonics, Holocene climate change

Fredrick J. Rich, Ph.D., Penn State, 1979, Professor Emeritus — coastal plain geomorphology, palynology, paleoecology

Charles H. Trupe, III, Ph.D., North Carolina, 1997, Associate Professor Emeritus — structural geology, petrography

GEORGIA STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DEGREES OFFERED: BA, BS in Geosciences

(Concentrations in Geography, Geology, Environmental Geosciences, or Urban Studies); MS in Geosciences

(Concentrations in Geography, Water Science, or

Geology); PhD in Chemistry (Concentration in Geology);

Graduate Certificate in Geographic Information Science,

Undergraduate Certificates in Water Science,

Sustainability, and Geographic Information Science

STUDENTS: 120 Majors, 50 Masters, 4 PhD

CHAIR: Katherine Hankins

BUSINESS MANAGER: Basirat Lawal

FOR FURTHER INFORMATION WRITE TO: Dr. Nadine Kabengi, Director of Graduate Studies in Geosciences, Department of Geosciences, Georgia State University, P.O. Box 4105, Atlanta, Georgia 30303. Email: geosgraddirector@gsu.edu; Telephone (404) 413-5207. Fax (404) 413-5768. Or to Dr. Christy Visaggi, Director of Undergraduate Studies in Geosciences, Department of Geosciences, Georgia State University, Atlanta, GA 30302-4105 Telephone: 404 413-5755. Internet: <http://geosciences.gsu.edu>

PROGRAMS AND RESEARCH FACILITIES:

The Undergraduate and Graduate programs in Geography provide both broad interdisciplinary backgrounds and in-depth disciplinary research and educational opportunities in urban geography, geographic information science, hydrology, climatology, biogeography, and applied geography. Graduate students may elect either a thesis or capstone option, in Geography, Geology, or Water Sciences. Students work with the leading software and hardware including remote aerial vehicles, digital image analysis, remote sensing, ERDAS/Imagine, ArcGIS, and others. Many students take advantage of the numerous internship, employment, and training opportunities, as well as the many state and federal offices within walking distance of the university in the heart of downtown Atlanta.

ADMISSION REQUIREMENTS AND FINANCIAL AID:

All current admissions requirements, information on financial aid and graduate student support, and the online admissions portal are available at <http://admissions.gsu.edu>

FACULTY:

Hassan A. Babaie, Ph.D., Northwestern 1984, Associate Professor — structural geology, geoinformatics
Dajun Dai, Ph.D., Southern Illinois University, 2007, Associate Professor — GIS, health disparities
Daniel M. Deocampo, Ph.D., Rutgers, 2001, Professor — sedimentology, environmental geochemistry
Jeremy E. Diem, Ph.D., Arizona, 2000, Professor — air pollution, applied climatology
W. Crawford Elliott, Ph.D., Case Western Reserve 1988, Associate Professor — clay mineralogy, environmental geology
Katherine Hankins, Ph.D., University of Georgia 2004, Professor and Chair — urban geography
Paulo J. Hidalgo-Odio, Ph.D., 2011, Michigan State, Lecturer — petrology
Nadine Kabengi, Ph.D., University of Florida, Associate Professor — soil science, thermochemistry, environmental geochemistry
Lawrence W. Kiage, Ph.D., Louisiana State University, 2007, Associate Professor — biogeography, paleoenvironments
Sarah H. Ledford, Ph.D., Syracuse University, 2016, Assistant Professor — hydrology, hydrogeology
Brian K. Meyer, Ph.D., Georgia State, 2013, Lecturer — hydrogeology, environmental geology
Richard Milligan, Ph.D., University of Georgia, 2016, Assistant Professor — political ecology, water governance, race and environment
Jan Nijman, Ph.D., UC Boulder, Distinguished University Professor and Director of the Urban Studies Institute — urban geography
Ricardo Nogueira, Ph.D., Louisiana State University, 2009, Lecturer — climatology, extreme weather
Risa I. Palm, Ph.D. Minnesota, 1972, Professor, Provost and Senior Vice President for Academic Affairs — urban geography
Kavita Pandit, Ph.D., Ohio State, Professor and Associate Provost for Faculty Affairs — population geography
Luke Pangle, Ph.D., Oregon State University, 2013, Assistant Professor — vadose zone hydrology, ecology, biogeochemistry
Christy Visaggi, Ph.D., University of North Carolina Wilmington, 2012, Lecturer — paleobiology, paleontology, marine biology, geoscience education

EMERITI FACULTY:

Sanford H. Bederman, Ph.D., Minnesota 1973, Professor Emeritus
William J. Fritz, Ph.D., Montana, 1980, Professor Emeritus
Carole E. Hill, Ph.D., University of Georgia 1972, Professor Emeritus
Timothy E. La Tour, Ph.D., University of Western Ontario, 1979, Associate Professor Emeritus
Malcolm A. Murray, Ph.D., Syracuse 1955, Professor Emeritus
Richard R. Pillsbury, Ph.D., Pennsylvania State 1968, Professor Emeritus
Truman A. Hartshorn, Ph.D., Iowa 1968, Professor Emeritus

KENNESAW STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ANTHROPOLOGY**DATE FOUNDED:** 2006**DEGREES OFFERED:** B.A. in Geography (online and traditional formats); B.S. in Geographic Information Science; Certificate in Geographic Information Sciences (online and traditional formats); Minor in Geography**GRANTED TO DATE:** 130 B.S. Geographic Information Science; 105 B.A. Geography**STUDENTS IN RESIDENCE:** 31 Geographic Information Science; 48 Geography**CHAIR:** Susan Kirkpatrick Smith, Ph.D.**DEPARTMENT ADMINISTRATIVE ASSISTANT:**
Susanne Rothery**FOR CATALOG AND FURTHER INFORMATION WRITE TO:**

Dr. Matthew Mitchelson, Kennesaw State University, Geography and Anthropology Department, 402 Bartow Ave, Bldg. 22 MB#2203, Kennesaw, GA, 30144. Telephone (470) 578-2373. Fax (470) 578-9147. E-mail: mmitch81@kennesaw.edu. Department: <http://ga.hss.kennesaw.edu/>. University: <http://www.kennesaw.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.A. in Geography (in online and traditional formats), a B.S. in Geographic Information Science (GISc), a Certificate in Geographic Information Sciences, and a Minor in Geography. The Department is strongly focused on preparing students for a globalized world. Faculty members have worked with students in research and study abroad programs in Argentina, Belize, Bolivia, Chile, China, Ecuador, England, France, Greece, Italy, Peru, Russia, and Spain with new programs being developed. Faculty are also actively involved with undergraduate cross-disciplinary programs and the Ph.D. in International Conflict Management.

Students who enroll in the B.A. program immerse themselves in a multifaceted and inherently interdisciplinary field that requires them to have a competency in a foreign language, and an understanding of the fundamental concepts in human geography, physical geography, and geospatial techniques. The degree is tailored to each student based on his/her educational interests and career goals, with emphases on the traditional subfields and themes of the discipline such as cultural, political, economic, urban, and regional geography, physical and environmental geography, and the study of cities and suburbs. All BA students must complete either an internship or conduct research with a faculty member. Coursework is often complemented with both study abroad and faculty-led research opportunities. Courses in Geographic Information Systems can be taken by students seeking the B.A.

The B.S. in Geographic Information Science (GISc) has a strong professional component that prepares students for employment in the GIS field. Coursework integrates practical geospatial skills and technologies with scientific, technological and contextual knowledge. Students may select a concentration in either urban systems or environmental systems. The GISc degree also embeds an Information Technology Certificate, with coursework that complements the GIS and GIT knowledge students need for success in today's geospatial job market. All GISc majors and GIS Certificate students are required to complete a geospatial internship, co-op or practicum.

The Department currently has twelve full-time geography faculty members with strong research records and experience. They hold expertise in the broad fields of geography and environmental studies, including cultural geography, economic geography, GIS, remote sensing, urbanization, water resources, fluvial geomorphology, biogeography, soils, environmental health, and natural resource management.

ACADEMIC PLAN, ADMISSION REQUIREMENT, AND FINANCIAL AID: Semester System.

Admission requirements: a completed undergraduate application for Admission to KSU submitted online, official scores on all required college entrance tests (either SAT or ACT), official high school and college transcripts.

Financial Aid: student employment opportunities and need-based awards including Federal programs available.

FACULTY:

Erinn Bariteau, M.S., Mississippi State University, 2015, M.S. Lemoyne College, 2007 Lecturer — physical geography, meteorology, severe storms and hail related events, GIS
Nancy Hoalst-Pullen, Ph.D. University of Colorado at Boulder, 2008, Professor — beer, forest dynamics, soils, watershed biogeochemistry, applications of GIS, geospatial education
Ulrike Ingram, M.A., Georgia State University, 2006, Lecturer & GIS Director — geotechnology
Paul McDaniel, Ph.D., University of North Carolina at Charlotte, 2013, Assistant Professor — urban geography, immigrant integration and receptivity, community change and engagement
Matt Mitchelson, Ph.D., University of Georgia, 2010, Associate Professor, Assistant Chair & Geography (B.A.) Coordinator — urban-economic and political geography, geographies of imprisonment, multi- and mixed-method research
Mark Patterson, Ph.D., University of Arizona, 1998, Professor — GIS, remote sensing, natural resources
Jason Rhodes, Ph.D., University of Georgia, 2013, Lecturer — urban geography, landscape studies, political economy, social theory
Vanessa Slinger-Friedman, Ph.D., University of Florida, 2002, Professor and Environmental Studies Coordinator — cultural geography, natural resource management, tropical conservation and development, ecotourism, tropical agriculture, Latin America, the Caribbean, Sub-Saharan Africa, pedagogy
Garrett Smith, Ph.D., University of California at Davis, 1996, Associate Professor & Online Geography (B.A.) Coordinator — cultural & economic geography, forest resources
Bradley Suther, Ph.D., University of Georgia, 2013, Assistant Professor — fluvial geomorphology, soils, Quaternary studies, the southeastern United States
Jun Tu, Ph.D., Graduate Center of the City University of New York, 2008, Associate Professor — environmental geography, medical geography, water resources, air pollution, GIS and spatial analysis, environmental health, urbanization, China
Matthew T. Waller, M.A., Georgia State University, 2010, M.Ed., University of Georgia, 1997, Lecturer — geographic literacy and education, cultural geography, development, aid, and structural adjustment, Sub-Saharan Africa

HAWAII

UNIVERSITY OF HAWAII AT MANOA

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENT
DATE FOUNDED: 1927

GRADUATE PROGRAM FOUNDED: 1931

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 2017-2018: 14 B.A., 7 M.A., 2 Ph.D.

STUDENTS IN RESIDENCE: 55 B.A., 17 M.A., 33 Ph.D.

CHAIR: Reece Jones

GRADUATE CHAIR: Krisna Suryanata

UNDERGRADUATE CHAIR: David Beilman

DEPARTMENT SECRETARY: Judy Naumu

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department Secretary, Department of Geography, 2424 Maile Way, Saunders 445, University of Hawaii at Manoa, Honolulu, Hawaii 96822. Telephone (808) 956-8465. Fax (808) 956-3512.
E-mail: uhmgeog@hawaii.edu. Internet: <http://www.geography.hawaii.edu/>

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to B.A., M.A., Ph.D. degrees in Geography. We also offer a certificate in GIS. The University of Hawaii's location offers natural advantages for studies of the peoples and lands of Asia and the Pacific. Faculty interests and supporting strengths of the University and the East-West Center provide opportunities for students to pursue interests in areas such as: environment (biogeography, climatology, hydrology, marine ecology), human geography (political, cultural, social, political ecology), and geographic technologies (GIS, remote sensing, cartography, field techniques). The department emphasizes fieldwork (both local and in the Asia-Pacific region) and the integrative nature of the discipline. Departmental research facilities include laboratories for: climate and eco-hydrology, geomorphology, global environmental change science, cartography, GIS, and geo-environmental remote sensing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The University of Hawaii at Manoa is on a semester system with 31 credits in geography required for the major. This includes 16 credits of required general geography courses, and 15 credits of upper division electives. Students are encouraged to focus their upper division electives in one of three streams (human geography, environmental geography, or geospatial technologies). There are no special admission requirements for the major and any student in good academic standing (2.0 or better GPA) is eligible. **CERTIFICATE:** A total of seven (7) courses are required, three of which are required and four are selective.

GRADUATE: Students define their specialization in consultation with their adviser and advisory committees. The M.A. program includes a core program of seminars (7 credits), courses within the area of specialization (12 credits), research skills (3 credits) and a thesis. Ph.D. requirements include a core program of seminars (4 credits), courses within a defined area of specialization (minimum 15 credits), plus an approved sequence of advanced courses in research techniques (minimum 6 credits). Candidates must present a dissertation proposal at a department colloquium, pass written and oral comprehensive examinations, and defend a dissertation. Admission to the M.A. program requires a minimum grade point average of B (3.00 on a four-point scale) during the junior and senior years. Admission to the Ph.D. program requires a superior record in graduate work and evidence of research ability. Both M.A. and Ph.D. applicants must submit transcripts, GRE scores (aptitude tests only), and letters of appraisal from three referees (prefer academic). Available departmental financial aid includes teaching assistantships and tuition waiver awards. In addition, East-West Center Scholarships are available to Americans studying Asian or Pacific topics, as well as foreign students from Asian or Pacific nations. The application deadline for department assistantships is January 15, and November 1 for East-West Center Scholarships. Prospective students should contact faculty with compatible interests as early as possible to facilitate planning.

FACULTY:

David W. Beilman, Ph.D., UCLA, 2006, Associate Professor — biogeography, climate change, wetland ecosystems
Qi Chen, Ph.D., UC Berkeley, 2007, Professor — remote sensing, GIS and applications in environmental science
Thomas W. Giambelluca, Ph.D., Hawaii, 1983, Professor — ecohydrology, climatology, climate change
Hong Jiang, Ph.D., Clark, 1997, Associate Professor — cultural geography, perception of nature, ideas of nature in Chinese thought
Reece M. Jones, Ph.D., Wisconsin at Madison, 2008, Professor — political geography, borders, territory, sovereignty, South Asia
Lisa C. Kelley, Ph.D., UC Berkeley, 2017, Assistant Professor — critical physical geography, land use, agrarian change, Southeast Asia

Camilo Mora, Ph.D., Windsor, 2004, Associate Professor — biodiversity patterns, processes, threats, conservation, and their implications for human welfare

Mary Mostafanezhad, Ph.D., Hawaii, 2011, Associate Professor — humanitarianism, political ecology, critical geopolitics, Southeast Asia

Yi Qiang, Ph.D., Ghent (Belgium), 2012, Assistant Professor — GIS, visual analytics, geocomputation

Alison Rieser, LL.M., Yale, 1990, Professor — political geography of oceans, oceanic legal histories, politics of marine science

Krisnawati Suryanata, Ph.D., UC Berkeley, 1994, Professor — political economy of natural resources, agriculture and food, political ecology, community-based natural resource management, Indonesia

Ross A. Sutherland, Ph.D., Toronto, 1988, Professor — geomorphology, environmental contaminants, erosion, data analysis

Brian W. Szuster, Ph.D., Victoria (Canada), 2001, Associate Professor — environmental impact assessment, marine tourism, coastal management, Thailand

EMERITUS FACULTY:

Sen-dou Chang, Ph.D., Washington, 1961, Professor — China, regional development

Murray Chapman, Ph.D., Washington, 1970 — population (mobility), field methods, Melanesia

Roland Fuchs, Ph.D., Clark, 1959 — population, urbanization and development in Asia

Gary A. Fuller, Ph.D., Pennsylvania State, 1972 — population, geography of prophylaxis

Nancy D. Lewis, Ph.D., University of California, Berkeley, 1981 — human health, development, gender, human ecology, climate change, development

Brian J. Murtin, Ph.D., Minnesota, 1970 — historical, cultural, tropical agrarian systems, New Zealand

Mark A. Ridgley, Ph.D., Pennsylvania State University, 1986 — human, environment systems analysis

Lyndon Wester, Ph.D., UCLA, 1975 — plant geography, Southeast Asia

COOPERATING AND AFFILIATE GRADUATE FACULTY:

Lars Bejder, Ph.D., Dalhousie (Canada), 2005 — cetaceans, human impact on coastal development and tourism

Henry Diaz, Ph.D., Colorado, 1985 — climate change

Jefferson Fox, Ph.D., Wisconsin, 1983 — community-based management, land cover change, spatial information technology

Erik C. Franklin, Ph.D., Hawaii, 2012 — marine biology, spatial modeling, application of GIS

Abby G. Frazier, Ph.D. Hawaii, 2016 — rainfall in Hawaii, climate variability, big data analysis, landscape ecology

Laurel Mei-Singh, Ph.D., CUNY, 2016 — environment, racial capitalism, indigeneity, militarism

Mark D. Merlin, Ph.D., Hawaii, 1979 — biogeography, natural history of Hawaii

Carlie Wiener, Ph.D., York, 2016 — marine tourism, natural-human dynamic of the coastal environment

Kevin Woods, Ph.D. UC-Berkeley, 2017 — forest resources, war and environment in Burma

IDAHO

UNIVERSITY OF IDAHO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1970

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.S. Geography, M.S., Ph.D., GIS Certificate, Climate Change Certificate

GRANTED 9/1/2017-8/31/2018: 13 Bachelors, 6 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 23 Majors, 6 Masters, 7 Ph.D., 27 Certificates

DEPARTMENT CHAIR: Raymond Dezzani

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Renee Jensen-Hasfurther

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Administrative Assistant, Department of Geography, University of Idaho, 875 Perimeter Drive MS 3021, Moscow, Idaho 83844-3021. Telephone: (208) 885-6216. E-mail: geography@uidaho.edu. Internet: www.uidaho.edu/sci/geography/.

PROGRAMS AND RESEARCH FACILITIES: The department offers B.S., M.S. and Ph.D. programs in Geography, as well as certificates in Climate Change and GIS. Areas of emphasis at both the undergraduate and graduate levels include climate science, glaciology, biophysical and human dimensions of climate change, hazards, political geography, economic geography, remote sensing, and GIS and spatial analysis. Our facilities include remote sensing and GIS teaching labs as well as research labs in climate science, ice core analysis, applications of remote sensing and GIS to wildland fire, landscape-scale carbon cycling and mitigation/adaptation of climate change. GIS instruction has been part of the program for over 30 years and the department now has a wide network of graduates working in the Pacific Northwest region who help with internship and employment placement opportunities. In addition to general education and geography requirements, geography students may take courses in the related colleges and programs at the University of Idaho, in fields such as forestry, agriculture, architecture, environmental science, water science, bioregional planning, engineering, law, and business. Washington State University (WSU) is only 8 miles away in Pullman, WA and students may take advantage of resources and coursework there in atmospheric science, environmental impact assessment, and environmental engineering.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The department offers a program leading to the degree of B.S. in Geography as well as certificates in Climate Change and GIS certificate. Students are not required to select an option, but may choose to focus their coursework to obtain depth in any of these areas: hazards and society, global & regional studies, Geographic Information Systems (GIS), remote sensing, weather and climate, biophysical and/or human aspects of climate change. The B.S. degree requires 120 total credits, of which 36 must be in Geography.

M.S. AND PH.D.: The department has expanded in recent years via strategic hires focused around biophysical and human dimensions of climate change. These hires have complemented existing faculty expertise in climate, global and regional studies, remote sensing and GIS, spatial statistics, economic and political geography, and transportation. Prospective graduate students are encouraged to visit our department web page to learn more about faculty research

interests. In addition to our core programs in Geography, faculty advise students in University of Idaho interdisciplinary programs such as Environmental Science, Water Resources and Bioregional Planning. Students pursuing M.S. degrees may choose between a thesis-based and non-thesis professional option.

Admissions to the Graduate College requires a minimum GPA of 3.0 overall, current (within 5 years) GRE scores, and 3 letters of recommendation from professors and/or job supervisors evaluating applicant's ability to pursue graduate studies. Transcripts of all academic experience and general Graduate Record Examination (GREs) are required. Undergraduate degree need not be in geography, but students entering the program with degrees in other fields are required to take some additional coursework in Geography beyond the requirements for the M.S. or Ph.D. requirements.

Admissions to the Ph.D. Program requires a Master's degree, current GRE scores, a letter of interest stating research interest, three letters of reference, and transcripts. Part-time teaching assistantships, research assistantships, and fellowships are available along with other financial aid in the form of scholarships and work study.

GIS CERTIFICATE: The GIS Certificate Program is designed to serve students and professionals either in a degree program or separate from a degree program. The certificate requires 15 credits of GIS-related coursework. For more information about the program, please visit our web site.

CLIMATE CHANGE CERTIFICATE: The Climate Change Certificate Program serves students and professionals either in or separately from a degree program, but is of primary interest to students majoring in related fields such as Environmental Science, Forestry, Fire Ecology, and Natural Resource Conservation. The certificate requires 15 credits of climate change-related coursework. For more information about the program, please visit our web site.

FACULTY:

John Abatzoglou, Ph.D., University of California Irvine, 2009, Associate Professor — weather and climate, climate change impacts on fire and water resources in the American West, hydrology, meteorology, ecosystem dynamics

Raymond Dezzani, Ph.D., California, Riverside, 1996, Professor — spatial statistics, political and economic geography, globalization, regional political/economic integration and inequality, world-systems analysis

Chao Fan, Ph.D., Arizona State University, 2017, Assistant Professor — Geographic information science, remote sensing, spatial analysis and modeling, urban heat island mitigation, vegetation modeling, land cover land use change, agriculture management

Grant Harley, Ph.D., University of Tennessee, 2012, Assistant Professor — Dendrochronology, paleoclimatology, climate change, wildfire, drought, cave and karst environments

Jeffrey A. Hicke, Ph.D., University of Colorado at Boulder, Colorado, 2000, Associate Professor — global environmental change, interaction of climate, forests and disturbances such as wildfire and insect outbreaks

Karen Humes, Ph.D., University of Arizona, 1992, Professor — Applications of remote sensing and GIS in hydrology, environmental science, planning for renewable energy

Haifeng Liao, Ph.D. University of Utah, 2014, Assistant Professor — Economic geography, regional development, globalization, China, urbanization, land use, land use-transportation interactions, spatial statistics

Thomas Ptak, Ph.D., University of Oregon, 2017, Assistant Professor — Human geography, energy geography

Steven Radil, Ph.D. University of Illinois, 2011, Assistant Professor — political geography, politics of conflict, spatial analysis, and police militarization in the U.S.

RESEARCH FACULTY:

Vladimir Aizen, Ph.D., Academy of Sciences, Moscow, Russia, 1988, Research Professor — alpine hydrology, glaciology and glacioclimatology

Elena Aizen, Ph.D. Russian Academy of Sciences, Moscow, Russia, 1986, Research Professor — climatology, glaciology, paleoclimate reconstruction, and mathematical modeling of the climate systems

PROFESSOR EMERITUS:

Kang-tsung Chang

Allan Jokisaari

Gundars Rudzitis

Sam Scripser

ILLINOIS

AUGUSTANA COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

DEGREES OFFERED: B.A.

GRANTED 8/25/16-8/20/17: 16 Majors, 8 Minors

STUDENTS IN RESIDENCE: 44 Majors, 13 Minors

CHAIR: Jennifer Burnham

DEPARTMENT ADMINISTRATIVE ASST: Jennifer Milner

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, Augustana College, 639 38th St., Rock Island, Illinois 61201. Telephone (309) 794-7845. Fax (309) 794-7564. E-mail: jenniferburnham@augustana.edu. Internet: <http://www.augustana.edu/academics/areas-of-study/geography>

GENERAL PROGRAM: The department functions as an integral part of the general curriculum of this 2,500-student liberal arts college and provides a solid major for students planning on graduate school in geography or planning. It serves annually over 600 students in 24 different courses plus independent study and field experience options. Upper level courses are offered thematically in physical, environmental, historical, urban geography and planning, regionally on Latin America and the Arctic, and in a sequence of methodological and techniques courses in cartography, GIS and geographic research. The department is committed to cross-disciplinary links and is involved in instructional activities with the biology, education, English, geology, history, political science, public health, and Spanish departments. Geography is one of the core departments in the college's environmental studies program.

SPECIAL PROGRAMS: Our department prides itself on experiential learning experiences for our students. Nearly all of our classes include a field experience or community partnership component. Field experiences range from short neighborhood trips, to weekend trips, to 10-day trips to a region of the U.S., and even travel to Greenland! Field research is also important for our students and faculty. To facilitate classroom and student research projects on the Mississippi River and in the local region, our department utilizes two boats and three college-owned field stations which total 600 acres of prairie, forest, and riparian habitats. We also utilize campus and community resources like our student-run campus garden, local community gardens, and historic archives. Through its local network of community partners, the department works with multiple federal, state, and private organizations to host student interns and coordinate class projects and senior research opportunities. Under special coordinated accelerated degree arrangements with Duke University

and the University of Illinois, students may spend three years at Augustana and then two or three years at the university, earning a B.A. from Augustana and a Masters in Environmental Management or Forestry from Duke or a Masters in Landscape Architecture from the University of Illinois.

FACILITIES: The department is located in Swenson Hall of Geosciences. The Loring Map Library contains over 100,000 maps and approximately 6,000 remotely-sensed images. Computer facilities for quantitative and graphics work include PCs with ESRI GIS software and Adobe graphic packages. The geography department has a boat for research and teaching on the Mississippi River: a 29-foot passenger boat rated for 25 students that serves as a floating classroom with bathymetric and sediment-surveying capabilities. Augustana owns and manages three research field stations totaling 600 acres in northern Illinois. These sites contain ecologically significant habitats that can be used for student and faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Flexible ten-week, three term system (Switching to a semester based system, with 3.5 week January term, in fall of 2019). Admission is competitive and selective. Admitted students excel in a challenging college prep curriculum and rank in the top quarter of high school class; the middle 50 per cent of students score between 24-29 on the ACT. Ninety per cent of students received financial assistance in the form of need-based or merit-based resources.

FACULTY:

Jennifer Burnham, Ph.D., Washington, 2007, Associate Professor and Chair — physical, soils, cartography, climate change, Arctic
Reuben Heine, Ph.D., Southern Illinois, 2006, Professor — physical, GIS, water resources
Christopher Strunk, Ph.D. Minnesota, 2012, Associate Professor — urban, economic, conservation, Latin America
Matthew Fockler, Ph.D. Montana State, 2014, Assistant Professor — cultural, historical geography of the U.S., land management

CHICAGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, SOCIOLOGY, HISTORY, AFRICAN-AMERICAN STUDIES, AND ANTHROPOLOGY

DATE FOUNDED: 1958

DEGREES OFFERED: MA in Geography, MA in Geography with GIScience Concentration, Graduate Certificate in Community Development, Graduate Certificate in GIScience

DEGREES GRANTED 9/1/18 – 8/31/19: 5

MAJORS: 21

CHAIR: Gebeyehu Mulugeta

ADMINISTRATIVE ASST: Joice Aryee

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Gebeyehu Mulugeta, Geography Program, Chicago State University, 901 S. King Dr. Chicago, IL 60628. Phone: (773) 995-2362 Email: gmuluget@csu.edu

PROGRAMS AND RESEARCH FACILITIES: The department offers a flexible M.A. program in geography is designed for students interested in teaching, government, private employment, or further education and research. A six hour core forms the basis of both the basic M.A. degree and the M.A. in Geography with a Concentration in GIScience. There are no language requirements. A thesis is required. Most graduate courses are offered at night or online. The Department also offers Graduate Certificates in Geographic Information Systems

and in Community Development, as well as undergraduate minors in Geography and Geographic Information Systems.

The Fredrick Blum Neighborhood Assistance Center, housed in Geography, is a multidisciplinary effort to mobilize the resources of the University to support community development projects. In addition to providing faculty with opportunities for involvement in instruction, research and consulting activities, the program creates learning experiences for both undergraduate and graduate students from disciplines across the University. Students in a variety of fields are able to assist in research and work with community groups. CSU's library and the department's laboratory facilities are enhanced by the resources of the Chicago Metropolitan Area, which also serves as a source of extensive and varied urban field work and internship opportunities. The GIS laboratory is equipped with sixteen networked workstations. Applications residing on the computers include ArcGIS and Extensions, ERDAS IMAGINE, IRISI, SPSS, and word processing and spread sheet programs.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: GRADUATE: Admission requirements: (1) a Bachelor's degree with a grade average of B or better although promising students may be admitted conditionally with a slightly lower average and (2) fifteen hours of undergraduate work in geography, although admission is sometimes possible with fewer hours. The University is on the semester system. Scholarships, assistantships, and loan and work-study programs are available. Student Internships are available at public agencies, civic organizations, and in private industry.

FACULTY:

Daniel Block, Ph.D., UCLA, 1997, Professor and Coordinator of the Neighborhood Assistance Center — food systems, community development, medical, cartography, GIS
Tekleab Gala, Ph.D., Western Ontario, 2011, Assistant Professor of Geography — remote sensing, GIS, soils, medical
Gebeyehu Mulugeta, Ph.D., Michigan State, 1991, Professor of Geography — cartography, GIS, remote sensing, quantitative methods, Africa

DEPAUL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1898

DEPARTMENT FOUNDED: 1948

DEGREES OFFERED: B.A., Certificate in GIS

GRANTED 01/01/18-12/31/18: 14 B.A., 23 GIS Certificates

STUDENTS IN RESIDENCE: 44 B.A., 45 GIS Certificates

CHAIR: Winifred Curran, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: DePaul University, Department of Geography, 990 W. Fullerton Avenue, Suite 4300, Chicago, Illinois 60614. Telephone (773) 325-7669. E-mail: geography@depaul.edu. Web: <https://las.depaul.edu/academics/geography/Pages/default.aspx>

PROGRAMS AND RESEARCH FACILITIES: The Bachelor of Arts in Geography is offered by DePaul's College of Liberal Arts and Social Sciences. It provides Geography majors with a choice of four concentrations: (1) Urban Development and Planning; (2) Environment and Society; (3) GIS and Geotechnology; (4) Standard Geography. Students in the major can also pursue the Honors Program, double majors or other disciplinary minors. The Department offers a broad Geography curriculum, balancing courses in theory, thematic fields, methods, and technical areas of the discipline. Particular strengths are Urban Geography, GIS and Remote Sensing, Political Ecology, Environmental Geography, and Political

Geography. Geography is also a key component of DePaul's interdisciplinary MA in Sustainable Urban Development which began in 2013-14, and provides leadership to the interdisciplinary undergraduate minors in both Food Studies and in Architecture and Urbanism. A close-knit Department of eight tenure-track faculty allows strong cooperation between faculty and students, and the possibility to design customized programs of instruction. The Department supports the Mu Alpha chapter of Gamma Theta Upsilon and was honored with the AAG's Award for Bachelors Program Excellence in 2016.

DePaul students may pursue their studies on either of the two campuses located in Chicago's Lincoln Park and the Loop. Programs in the Department of Geography are primarily offered on DePaul's Lincoln Park Campus, located in close proximity to Lake Michigan, Wrigley Field, and the "L" trains of the Chicago Transit Authority. The University has been aggressively improving its physical facilities having recently constructed a large library complex, a Science Quad, a 4-level fitness facility and Student Center at the Lincoln Park Campus, new Theater and Music School facilities, and a 10,000 seat sports arena which opened in 2017. The growing collection of the DePaul University libraries includes almost 720,000 physical volumes, in addition to 275,000 e-books, 37,270 microform volumes, over 6,000 printed serial subscriptions and 62,000 digital subscriptions, and varied on-line and audiovisual collections including subscriptions to media streaming services. Access via I-SHARE on-line allows students to identify and access materials from 85 other colleges and universities in Illinois. In addition, current students, faculty, and staff have access to 375 electronic databases. Our location in Chicago provides students a vast array of academic resources, such as the Newberry Library, and the libraries of the Art Institute, the Field Museum of Natural History and the Chicago History Museum, as well as several other large academic libraries. Furthermore, the city provides significant opportunities for student field work and Geography-related internships which complement academic studies at DePaul with practical experience.

The Department has been instrumental in introducing GIS across the University curriculum. In summer 2016 the Department of Geography opened a new, state of the art 18-terminal GIS Laboratory, a high-end facility geared to support students and faculty with interests in the areas of geospatial analysis and modeling, remote sensing, and cartographic design. This facility supports the undergraduate Certificate Program in GIS, which was initiated in 1996, and the new Graduate Certificate in GIS which became available in Summer 2018.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: DePaul University operates on the quarter system. Admission is possible for any academic quarter. Admission requirements, university catalogues and program information are available through the Office of Admissions, College of Liberal Arts and Social Sciences, DePaul University, 2352 North Clifton Avenue, Chicago, Illinois 60614. Telephone: (773) 325-7310 or on the web at www.depaul.edu. Inquiries concerning financial aid should be directed to the Office of Financial Aid, DePaul University, 1 East Jackson Blvd, Suite 9000, Chicago, Illinois 60604-2287.

FACULTY:

Carrie Breibach, Ph.D., Syracuse, 2006, Instructor — cultural, economic, gender
Alec Brownlow, Ph.D., Clark, 2003, Associate Professor — urban environmental, political ecology, human-nature interaction, social theory
Winifred Curran, Ph.D., Clark, 2004, Associate Professor and Chair — urban, social, economic, gender
John Goldman, MS, Penn State, 1986, Instructor — meteorology, quantitative methods
Nandhini Gulasingham, MS, DePaul University, 2002, Instructor — GIS

Euan Hague, Ph.D., Syracuse, 1998, Professor — cultural, urban, historical, political
Sungsoon (Julie) Hwang, Ph.D., SUNY at Buffalo, 2005, Associate Professor — GIS, transportation, housing
Connie Johnston, Ph.D., Clark, 2013, Instructor — cultural, feminist, animal geographies
Heidi J. Nast, Ph.D., McGill, 1992, Professor, International Studies Program — cultural, urban, gender, sexuality, geographic thought, Africa (affiliated faculty)
Alex G. Papadopoulos, Ph.D., University of Chicago, 1993, Professor — urban, political, European Union, Balkans
Maxim Samson, Ph.D., University of Leeds, 2017 — cultural, urban, religious
Maureen Sioh, Ph.D., University of British Columbia, 2000, Associate Professor — economic, development, environment, Southeast Asia
Heather Smith, MA, Columbia University (NY), 2000, Instructor — urban planning
Byungyun Yang, Ph.D., University of Georgia, 2011, Assistant Professor — GIS, remote sensing

STAFF:

Cassie Follet, MA, West Virginia University, 2016, GIS Coordinator

EASTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOLOGY/GEOGRAPHY

DATE FOUNDED: 1895

DEGREES OFFERED: B.S. in Geology, B.S. in Geography, B.S. in Science Teacher Certification (Earth Science designation), Professional Science Masters in GIS, Minors in Broadcast Meteorology, Earth Science, Geography, Geographic Information Sciences, and Geology

GRANTED 9/1/17 - 8/31/18: 5 in Geology (B.S.); 3 in Geography (B.S.); 3 in GIS (PSM)

UNDERGRADUATE MAJORS: 30

CHAIR: Diane Burns

DEPARTMENTAL OFFICE MANAGER: Susan Kile

FOR CATALOG AND FURTHER INFORMATION WRITE:

Department of Geology/Geography, 600 Lincoln Avenue, Eastern Illinois University, Charleston, Illinois 61920-6033. Telephone (217) 581-2626. E-mail: geoscience@www.eiu.edu. Internet: www.eiu.edu/~geoscience.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geology/Geography in the College of Sciences offers the B.S. degree in Geology and the B.S. degree in Geography, both of which can be coupled with an Accelerated PSM to reduce time towards completion of the advanced degree. Program options available in Geography include the Human Geography Option and Environmental/Physical Geography Option. Students must complete 36 semester hours of geography, earth science, geology or other approved elective courses selected from their option menu in addition to 13 semester hours of required courses. Undergraduate minors are offered in Geology, Geography, Earth Science, and two interdisciplinary minors in Geographic Information Sciences and Broadcast Meteorology. In addition, an Honors Program is offered to Geology and Geography majors who maintain a 3.5 cumulative grade-point average (on a 4-point scale).

The department also offers a teacher certification program, a B.S. in Science (Earth Science designation), and participates in an interdisciplinary Master's program: Professional Science Masters in Geographic Information Sciences (PSM in GIS). Participants

completing the B.S. in Science requirement will be certified to teach biological sciences, chemistry, earth sciences, and physics. The B.S. in Science, in addition to earth sciences, requires relevant courses in biological sciences, chemistry, and physics.

The PSM in GIS includes coursework in Biological Sciences, Business Administration, Geography, Earth Science, Political Science and Sociology. The PSM is a non-thesis master's program that requires a capstone internship experience. This is now also being offered as an accelerated program (undergraduates who qualify can take courses at the graduate level that would satisfy undergrad requirements; upon completion of their B.S., they only do an additional year of coursework/requirements to obtain the PSM. Another alternative which is being developed is offering this degree completely online.

Programs are enhanced by established departmental field programs, internships, independent studies, student/faculty collaborative research opportunities, scholarships, and honors programs. Student's academic experiences are enhanced by the unique departmental collaboration between geologists and geographers and faculty specialties in both disciplines. Field experiences include day, weekend and week-long field trips as well as the required six week field camp for Geology undergraduates.

Students in the Department of Geology/Geography have available several classroom and research laboratories including the Surficial Processes Lab, Geographic Information Sciences Lab, Paleontology Lab, and XRD/Microscopy Lab. The GIS labs contain state of the art personal computers, printers and plotters and make use of ArcGIS, ENVI and Surfer along with other current relevant software. A dedicated server is maintained for faculty and students in the department, and all graduate students are assigned work desks in two office for their research/study. The department is located in the Physical Science Building, centrally located on a tree-shaded 320 acre campus. Eastern, situated in East Central Illinois in the city of Charleston (population 30,000), is primarily a residential campus with approximately 8,500 full-time students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: For information about programs in the Department of Geology and Geography, contact: Chair (geoscience@eiu.edu). For information about admission requirements, contact: Office of Admissions (admissions@eiu.edu). Financial aid is available to qualified students through the Financial Aid Office – see the website for more information: (<https://www.eiu.edu/admissions/financial.php>).

FACULTY

Diane M. Burns, Ph.D., Wyoming, 2006, Chair, Associate Professor of Geology — sedimentology, stratigraphy
Michael W. Cornebise, Ph.D., Tennessee, 2003, Interim Associate Dean of the College of Sciences, Professor of Geography — population geography, cultural geography
Cameron D. Craig, M.A., Indiana State, 2002, Instructor — climatology, physical geography, atmospheric education
Jake R. Crandall, M.S., Southern Illinois University, 2015, Carbondale, Instructor — mineralogy, petrology, planetary geology, structural geology
James A. Davis, Ph.D., Kansas State, 2001, Associate Professor of Geography — human/economic geography, resources
Katherine Lewandowski, Ph.D., Ohio State, 2008, Associate Professor of Geology — Cenozoic climate change and paleoceanography, benthic foraminiferal micropaleontology, paleoecology, evolution, and stratigraphy, Geoscience education
Barry J. Kronenfeld, Ph.D., SUNY-Buffalo, 2004, Associate Professor of Geography — geographic information systems, historical U.S. landscape change, cartography

Christopher R. Laingen, Ph.D., Kansas State, 2009, Associate Professor of Geography — remote sensing and GIS in regional (bio)geography, rural geography, agricultural geography, changing rural geographies of U.S. Midwest/Corn Belt/Heartland

James D. Riley, Ph.D., Illinois, Urbana-Champaign, 2012 Associate Professor of Geography — regional geomorphology, hydrology
David C. Viertel, Ph.D., Texas State, 2008, Associate Professor of Geography — remote sensing, urban environments

ILLINOIS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, GEOLOGY, AND THE ENVIRONMENT

DATE FOUNDED: 1857

DEGREES OFFERED: B.A., B.S. in Geography; B.S. in Geology; M.S. in Hydrogeology; B.S. in Environmental Systems Science and Sustainability

GRANTED 2018: 20 Geography; 21 Geology; 3 Hydrogeology

MAJORS 2018: 89 Geography; 57 Geology; 19 Hydrogeology

CHAIR: Dagmar Budikova

ADMINISTRATIVE AIDE: Karen Dunton

FOR CATALOG AND FURTHER INFORMATION: Department of Geography, Geology, and the Environment - Illinois State University, Campus Box 4400, Normal, Illinois 61790-4400. Telephone (309) 438-7649. Fax (309) 438-5310. E-mail: geo@ilstu.edu. Internet: <http://www.geo.ilstu.edu/>.

PROGRAMS AND RESEARCH FACILITIES: Program fields correspond with faculty expertise that include: physical and applied climatology, paleoclimatology, human-environment interactions, geographic information systems, cartography, remote sensing, hydrology, and quantitative methods. Faculty members have regional strengths and many have conducted foreign, national, or local fieldwork.

The Institute of Geospatial Analysis & Mapping (GEOMAP) was dedicated in 2008. Its mission is to support research activities that aim to improve our understanding of complex interactions between human and natural systems through the application of state-of-the-art geographic information sciences and technologies. Technical skills in cartography and GIS are especially popular among our students.

The department maintains 4 computer labs equipped with the latest hardware and software packages for current applications in physical and human geography.

The University Library has a substantial map collection and more than 2,000,000 volumes supplemented by a courier service to the University of Illinois Library and the Center for Research Libraries.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Geography majors are required to take 50 credit hours, ranging from introductory, regional requirements, thematic requirements, and electives. The major requires a capstone internship that provides an opportunity for the students to find employment prospects in geography and related fields. Four themes bridge the differences in faculty expertise and training. These themes are: Community and Regional Development, Environmental Science, Geographic Information Systems and Technology, and Human-Environment Interactions.

The Geography Teacher Certification major prepares students to become teachers in grades 6 through 12 and helps them gain certification as Geography and Social Science teachers. The requirements are similar to those in the non-teaching major with additional certification courses in the College of Education. 56 hours are required. Student teaching is part of the Teacher Certification requirement.

The department will begin offering a new B.S. degree in Environmental Systems Science and Sustainability in fall 2019. This highly interdisciplinary program is grounded in geographic training and other liberal arts and sciences. The department also offers an interdisciplinary minor, Environmental Studies, which requires substantial course work in geography.

The department offers a Geography Minor which requires 21 hours of Geography classes.

FACULTY:

Tenley Banik, Ph.D., Vanderbilt University, 2015, Assistant Professor — mineralogy, petrology, volcanology
Amy Bloom, Ph.D., Utah, 2006, Instructional Assistant Professor — climate and environmental change, paleobiogeography, quaternary environments
Dagmar Budikova, Ph.D., Calgary, 2001, Department Chair, Professor — climatology, GIS, quantitative methods
James E. Day, Ph.D., Iowa, 1988, Professor — invertebrate paleontology, paleoecology
Alec L Foster, Ph.D., Temple University, 2016, Assistant Professor — urban environmental, political, sustainability, socio-ecological systems
Matthew Himley, Ph.D., Syracuse, 2010, Associate Professor — environmental, political, Latin America
John C. Kostelnick, Ph.D., Kansas, 2006, Professor — GIS, cartography, cultural geography
Megan Maher, B.S., Illinois State University, 2014, Administrative Professional — GIS, cartography, special statistics
David H. Malone, Ph.D., Wisconsin, 1994, Distinguished Professor — structural geology, stratigraphy
Paul Meister, MS., Illinois State, 2016, Administrative Professional — general education, computation lab specialist
Eric Peterson, Ph.D., Missouri-Columbia, 2002, University Professor — hydrogeology, karst, modeling
Catherine O'Reilly, Ph.D., Arizona, 2001, Associate Professor — limnology, biogeochemistry
Reecia Orzeck, Ph.D., Syracuse, 2007, Assistant Professor — human, cultural, Middle East
R.J. Rowley, Ph.D., Kansas, 2009, Associate Professor — GIS, urban, human, cultural geography
Wondwosen Seyoum, Ph.D., University of Georgia, 2016, Assistant Professor — hydrogeology, remote sensing, modeling, water management
Jonathan Thayne, Ph.D., Kansas, 2009, Associate Professor — remote sensing, GIS, biogeography
Jill Freund Thomas, M.S., Idaho, 1986, Administrative Professional — geography-earth science education, cartography
Lisa Tranel, Ph.D., Virginia Tech, 2010, Associate Professor — active tectonics and geomorphology
Henry J. Zintambila, Ph.D., Hawaii, 1982, Assistant Professor — climatology, Africa

EMERITI FACULTY:

Paul S. Anderson, Ph.D., Australian National, 1979
James R. Carter, Ph.D., Georgia, 1973
Robert G. Corbett, Ph.D., Michigan, 1964
E. Joan Miller, Ph.D., North Carolina, 1965
Robert S. Nelson, Ph.D., Iowa, 1970
Michael D. Sublett, Ph.D., Chicago, 1974
William D. Walters, Jr, Ph.D., Indiana, 1974

NORTHEASTERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1965

DEGREES OFFERED: B.A. Geography, B.A.

Environmental Studies, M.A. Geography and Environmental Studies, Certificate in Geographic Information Science, Graduate Certificate in Geographic Information Science.

GRANTED 6/1/18-5/30/19: 11 Geog B.A., 25 ES B.A., 8 M.A., 10 GIS Certificates (undergraduate and graduate)

STUDENTS: 21 Geog B.A., 37 ES B.A., 24 M.A., 27 GIS Certificates (undergraduate and graduate)

CHAIR: Erick Howenstine, Ph.D. (773) 442-5647 E-Howenstine@neiu.edu

COORDINATOR: Scott Hegerty, Ph.D. (773-442-5695 S-Hegerty@neiu.edu

ADMINISTRATIVE ASSISTANT: Lauren DeMaat (773) 442-5640 hges@neiu.edu, www.neiu.edu/ges

FOR CATALOG AND FURTHER INFORMATION:

Department of Geography & Environmental Studies, Northeastern Illinois University 5500 N. St. Louis, Chicago, IL 60625 Website: www.neiu.edu

PROGRAMS AND RESEARCH FACILITIES:

The Bachelor of Arts in Geography, in the College of Arts and Sciences, is a traditional geography degree with an emphasis on urban planning, GIS, and environmental issues. It combines the conceptual disciplinary work within human and physical geography with the integrative tools of GIS, cartography, spatial statistics, and field methods. The Department of Geography & Environmental Studies (G&ES) also offers a B.A. in Environmental Studies, with emphasis on policy/planning or education/interpretation. A 33-hour Master of Arts in Geography and Environmental Studies combines all these strengths and allows students to design their own research track. The Department introduced GIS to the curriculum in 1991 and now offers two certificates, one at the undergraduate and one at the graduate level. Each is each comprised of five geospatial courses as well as statistics. A minor in Geography, one in Environmental Studies, and one in Geographic Information Science are also offered.

Northeastern is primarily a commuter university with nearly 10,000 students attending classes at four locations in the Chicagoland area. G&ES is housed on the University's main campus on Chicago's far north side. The main campus is set on 67 landscaped acres surrounded by a quiet residential community, with ample parking and access by public transportation. Northeastern was named sixth "Best Investment" in higher education nationwide by Newsweek, and its student body is ranked among the most diverse in the Midwest. The University's first residential housing unit opened on the main campus Fall 2016.

G&ES classes make use of the Chicago surroundings by way of field trips, service-learning, guest lecturers, and adjunct faculty drawn from the professional community. Geography students may undertake a carefully designed and supervised internship in urban planning, GIS, or other field in the student's career or research interest. There are also opportunities for student/faculty research projects and the department offers an annual guided Field Camp, abroad. Class sizes are small and all sections are taught by a core of five tenure track faculty members, a strong group of regular Instructors and active professionals who contribute to the rich curriculum. Students may also incorporate a limited number of courses from other departments into their degree

with advisor approval.

G&ES maintains two computer laboratories with student access 24/7. Technical courses are scheduled in “smart” classrooms and the department’s more traditional classroom is also fitted with laptops for student in-class use. A number of courses are also available online.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Northeastern Illinois University uses a semester calendar, with two six-week and one 12-week summer sessions. Information for scholarships, federal and state assistance, loans, and employment is available on the web site: www.neiu.edu or by phone: (773) 583-4050.

FACULTY:

Judy Bock, Instructor, M.A. Geography & Environmental Studies, Northeastern Illinois University 1982 — geography education
Kari Burnett, Instructor, PhD Geography Rutgers University 2012 — human geography
Thomas Brecheisen, Instructor, Ph.D. Civil Engineering, University of Illinois at Chicago 2017 — environmental studies
Robyn Flakne, Instructor, Ph.D. Forestry, University of Minnesota, St. Paul 2000 — urban environment, forest resources
Dennis Grammenos, Associate Professor, Ph.D. Geography, University of Illinois, Urbana-Champaign, 2000 — urban/social geography
Erick Howenstine, Professor, Ph.D. Geography, University of Washington 1989 — GIS, cartography
Melinda Storie, Assistant Professor and G&ES Coordinator, Ph.D. Natural Resources and Environmental Sciences 2008, University of Illinois, Urbana-Champaign — environmental education, environmental interpretation, conservation psychology
Alex W. Peimer, Assistant Professor, Ph.D. Geography, University of Illinois Urbana-Champaign, 2016 — environmental policy and governance, water resources, political ecology
Ting Liu, Assistant Professor and GIS Coordinator, Ph.D. Geography, Florida State University 2014 — GIS, remote sensing, land change science

NORTHERN ILLINOIS UNIVERSITY

DEPARTMENT OF GEOGRAPHIC AND ATMOSPHERIC SCIENCES

DATE FOUNDED: 1968

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: B.A., B.S., M.S., Ph.D. in

Geography, B.S. in Meteorology, Certificates in GIS/GIA
GRANTED 9/1/17 - 8/31/18: 27 Bachelors, 4 Masters, 3
Ph.D.

STUDENTS IN RESIDENCE: 90 Majors, 9 Masters, 9
Ph.D.

NOT IN RESIDENCE: 11 Bachelors, 3 Masters, 3 Ph.D.

CHAIR: David Changnon

DEPARTMENT ADMINISTRATIVE ASST: Janet
Gianfrancesco

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** Coordinator of Graduate Studies, Department of Geographic and
Atmospheric Sciences, Davis Hall 118, Northern Illinois University,
DeKalb, Illinois 60115. Telephone: (815) 753-6826. Fax (815) 753-
6872. Internet: www.geog.niu.edu

PROGRAMS AND RESEARCH FACILITIES: The B.S. and B.A.
in Geography are structured around three fields of study: natural

environmental systems, human geography, GI Science. Undergraduate and graduate Certificates in GIS can be earned online, or as part of degree program on campus. Degree-seeking students may participate in experiential learning in the department’s labs and through internships, mentored research, and the department’s programs in community-based geography. The B.S. program in geomatics meets State of Illinois educational requirements for the (NCEES) Surveyor In-Training exam.

The B.S. in Meteorology is a science-based, pre-professional program conforming to American Meteorological Society and National Weather Service standards. Mentored research and internships are available in a variety of weather analysis, applied meteorology and applied climatology fields. Students may take courses in broadcast media through the university’s Communication Studies program. All students are required to complete three semesters of calculus, one year of calculus-based physics, one semester of statistics, and one semester of a programming language.

The Ph.D. and M.S. programs invite students with interests in climatology, environmental systems, GI Science, hydrology, soils, weather-related hazards, health, urban, transportation geography. The Master of Science program normally takes two years to complete; the Ph.D. requires 60 semester hours beyond the master’s degree, including dissertation. All students must successfully complete core courses in the intellectual basis of modern geography, research methods, and quantitative methods, and successfully pass an oral comprehensive exam. Masters students may choose a 30 credit hour thesis track or a 36 credit hour non-thesis track. Doctoral students complete at least 6 semester hours in topical advanced course work, at least 6 hours of applications experience, at least 9 semester hours in cognate fields outside the department, and a dissertation.

The department maintains a variety of laboratories to support teaching and research in climatology, GI Science, meteorology, remote sensing, soil science, and spatial analysis. Resources include: instrumentation for the analysis of soil physical and chemical properties, tree ring cores, and stream flow; field sampling tools; GPS and land surveying equipment; a fixed-site automated weather station and mobile weather stations; field photosynthesis system; soil sampling ATV; and germination/growth chamber. The department also operates the community’s National Weather Service cooperative weather station.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Graduate: N.I.U. operates on a semester system. Admission as a graduate student requires a bachelor’s degree from an accredited college or university, a GPA of at least 2.75 (4-point system), and approval of the Department of Geography.

Assistantships and fellowships are awarded for the 9-month academic year with a 12-month waiver of tuition. Applications for graduate assistantships and fellowships should be sent as early as possible; preferably before January 15. Students pursuing a specialization in mapping science or GIS may apply for the Richard E. Dahlberg Scholarship, awarded annually. Grants to support thesis/dissertation research are available through the William Morris Davis Memorial Research Fund. Research positions and internships providing work experience, income, and/or academic credit may also be available. Students interested in funding supports should direct inquiries to the Coordinator of Graduate Studies. Admission decisions are based on a combination of GPA, a statement of research interest and purpose in pursuing the graduate degree, and at least two letters of evaluation.

FACULTY:

Walker S. Ashley, Ph.D., Georgia, 2005, Professor — weather-related hazards, mesoscale meteorology/ climatology, environmental risk, GIS

David Changnon, Ph.D., Colorado State, 1991, Professor — applied climatology, climate impacts, climate variability and extremes

Xuwei Chen, Ph.D., Texas State, 2006, Associate Professor — transportation analysis and modeling, emergency evacuation, spatial analysis, geovisualization, GIS

Courtney M. Gallaher, Ph.D., Michigan State, 2012, Associate Professor — sustainable food systems, environmental management, gender issues, Africa

Victorio (Victor) Gensini, Ph.D., University of Georgia, 2014, Assistant Professor — severe convective storms, synoptic meteorology, GIS techniques

Michael E. Konen, Ph.D., Iowa State, 1999, Associate Professor — pedologic, geomorphic, and hydrologic processes

Wei Luo, Ph.D., Washington University, 1995, Professor — geomorphology (Earth and Mars), hydrology, GIS applications, Web-based technology in teaching

Jie Song, Ph.D., Delaware, 1995, Professor — boundary layer meteorology, micrometeorology, atmosphere-plant-soil interaction, numerical modeling

James Wilson, Ph.D., North Carolina, 1991, Associate Professor — public and environmental health, medical geography, hazards, GIS

LABORATORY PROFESSIONALS & INSTRUCTORS:

Kory Allred, PLS, Ph.D., Northern Illinois, 2017, Geomatics Instructor — Land Surveying, glacial landforms (Mars & Earth), GIS

Philip P. Young, M.S., Northern Illinois, 2012, GIS Project Director — geovisualization

ADJUNCT FACULTY:

James Angel, Ph.D., Illinois, 1996 — climatology

Sharon T. Ashley, Ph.D., Georgia, 2006 — climatology, hazards

Richard Boniak, Ph.D., SIU-Carbondale, 2007 — physical geography, soils, environmental management

Robert T. Fahey, Ph.D., University of Wisconsin, 2011 — forest ecologist

Julie D. Jastrow, Ph.D., University of Illinois-Chicago, 1994 — soil biology

William P. Kleiman, M.S.Ed., Northern Illinois, 1986 — restoration ecology

Michael T. Ritsche, M.S., Northern Illinois, 2001 — climatology, weather instrumentation

Mark W. Stelford, Ph.D., Northern Illinois, 2001 — soils, spatial analysis, agriculture

DEPARTMENT ASSOCIATES:

Robert B. Ridinger, Librarian, Subject Area Specialist

SOUTHERN ILLINOIS UNIVERSITY CARBONDALE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL RESOURCES

DATE FOUNDED: 1936

GRADUATE PROGRAM FOUNDED: 1936

DEGREES OFFERED: BS Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Undergraduate Minor in Geography and Environmental Resources; Undergraduate Minor in Sustainability; Undergraduate Minor in GIS; Undergraduate Interdisciplinary Minor in Environmental Studies; MS Geography and Environmental Resources (specializations in Environmental Sustainability, Geographic Information Science, and Climate and Water Resources); Graduate Certificate in Sustainability;

Graduate Certificate in GIS; PhD in Environmental Resources and Policy

GRANTED (1/1/18-12/31/18): 14 Bachelors, 2 Masters
STUDENTS IN RESIDENCE (1/1/18-12/31/18): 39 Majors, 16 Masters

CHAIR: Justin Schoof

DEPARTMENT OFFICE ADMINISTRATOR: Laura Germann

UNDERGRADUATE AND GRADUATE PROGRAMS

ASSISTANT: Samuel Bates

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Resources, Southern Illinois University Carbondale, 1000 Faner Drive, Room 4520, Carbondale, Illinois 62901. Telephone 618.536.3375. Fax 618.453.6465. Email geog@siu.edu. Internet <http://co-la.siu.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES: Geography at SIU Carbondale focuses on environmental sustainability, geographic information science, climatology, and water resources at the undergraduate and graduate levels. Field work, computer-based analysis, and internships are prominent components of the integrated environmental problem-solving approach evident in both undergraduate and graduate programs. We have two computer labs: the Environmental GIS Laboratory and the Advanced Geospatial Analysis Laboratory, which give our students hands-on experience with current computing technology.

The computing environment at the SIU Carbondale campus provides easy access and 24-hour availability to all SIU Carbondale students. SIUs recently renovated Morris Library is one of the largest in North America with 2.6 million volumes, 200,000 e-books, 43,000 current periodicals and serials, 255,000 maps and 93,000 aerial photographs. We are located in Carbondale, a city of 26,000 residents that is 100 miles southeast of St. Louis. Our region is rugged and picturesque, with two state parks and five large recreational lakes within ten miles of campus. Students often conduct fieldwork in the nearby natural areas, including the Shawnee National Forest and federal and state wildlife refuges. The SIU Sustainability Council works to bring together and highlight campus programs and departments that work to make campus more sustainable while also conducting research and helping the campus community achieve sustainability. The SIU Carbondale Green Fund supports on-campus renewable energy, energy efficiency, and sustainability by providing funding for projects, student travel, and research. The town of Carbondale is also environmentally progressive with curb-side recycling, a comprehensive public bus system, and three weekly farmers' markets. Overall, the Department of Geography and Environmental Resources at SIU Carbondale represents an academic unit within a diverse ecological and social setting.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, FINANCIAL AID: SIU Carbondale operates on a 16-week semester system, with additional sessions (4-week and 8-week) within the summer.

Undergraduate Program: Majors earn a Bachelor of Science degree in Geography and Environmental Resources studying the dynamic relationship between nature and society in the field and the computer laboratory as well as in the traditional classroom. Students choose among three specializations: Environmental Sustainability, Geographic Information Science (GIS), or Climate and Water Resources. A foundation of core courses helps students develop the analytic and research skills appropriate to their research interest. SIU Carbondale awards a wide range of scholarships based on financial need and/or academic performance. Additional scholarships are awarded by the Department of Geography and Environmental Resources.

Graduate Certificate Program: We currently offer two graduate certificates to help students build the skills that are currently in demand in the US job market. The Certificate in Sustainability addresses emerging needs for sustainable development, while the Certificate in GIS prepares students for the growing market in geospatial techniques.

Graduate Program: Students earn a Master of Science degree in Geography and Environmental Resources with a concentration in Environmental Sustainability, Geographic Information Science (GIS), or Climate and Water Resources. Submit applications by January 15 to ensure consideration for financial support for the Fall semester. Late applications will be considered for admission when possible. Visit <http://gradschool.siu.edu/> for admissions details. Financial awards include teaching assistantships, research assistantships, and University fellowships. Assistantships are \$12,690 for nine months plus tuition waiver. Limited summer financial assistance is available.

PhD Program in Environmental Resources and Policy: This interdisciplinary doctoral program features six concentrations in: Earth and Environmental Processes; Energy and Mineral Resources; Environmental Policy and Administration; Forestry, Agricultural and Rural Land Resources; GIS and Environmental Modeling; and Water Resources (<http://info.erp.siu.edu/>).

FACULTY:

Leslie A. Duram, Ph.D., Colorado, 1994, Professor — agricultural geography, organic agriculture, rural land use, watershed management

Trenton Ford, Ph.D., Texas A&M University, 2015, Assistant Professor — land-atmosphere interactions, drought prediction, North American hydroclimatology, remote sensing hydrology

Ruopu Li, Ph.D., University of Nebraska, 2012, Assistant Professor — land use modeling, land suitability, lidar-derived hydrographic modeling, groundwater, climate change impacts on water resources

Jonathan Remo, Ph.D., Southern Illinois University Carbondale, 2008, Associate Professor — fluvial geomorphology, river and floodplain management, natural hazards, hydraulic, geospatial, and hazard modeling

Justin Schoof, Ph.D., Indiana University, 2004, Professor and Chair — climate variability and change, climatological methods, applied climatology

Audrey Wagner, M.S., Southern Illinois University, 2011, Lecturer — meteorology and climatology

Guangxing Wang, Ph.D., University of Helsinki, Finland, 1996, Professor — remote sensing, spatial statistics, GIS, environmental modeling and simulation, land cover change

Julie Weinert, Ph.D. Ohio State University, 2008, Senior Lecturer — tourism geography, geography of ecotourism, feminist geography, geography of globalization, geography of development

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1957

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.A., B.S., M.S. in Geography

DEGREES GRANTED 2018: 30 Bachelors, 8 Masters

STUDENTS IN RESIDENCE: 80 Majors, 20 Masters

CHAIR: Susan Hume

DEPARTMENT SECRETARY: Cat Yurkovich

FOR CATALOG AND FURTHER INFORMATION: Department of Geography, Box 1459, Southern Illinois University Edwardsville, Edwardsville, Illinois 62026-1459. Telephone (618) 650-2090. Fax (618) 650-3591. E-mail: shume@siue.edu. Internet: www.siu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The diversity of faculty interests permits a variety of options for specializations at both the undergraduate and graduate levels. The department has a modern and well-equipped geospatial technology laboratory. Internships with various companies and government entities in the St. Louis metropolitan area may be available for undergraduate and graduate students.

The departmental faculty are engaged in ongoing research in the St. Louis metropolitan area, which provides the opportunity for independent projects in which geographic skills can be applied toward solving real world problems. Undergraduate and graduate students have the opportunity to work on faculty-led research projects. In addition, a number of internship opportunities are available in the local area. Undergraduate courses are offered during the day and occasional evenings (academic year), and online (summer), which permits students to combine their education with part-time or possibly full-time employment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University is on the semester system with 120 semester hours required for graduation. The department offers a B.A. or B.S. program in Geography consisting of 36 semester hours. A minor or an Area of Specialization (18 hours) related to career goals is required. Inquiries regarding financial aid may be directed to the Financial Aid Office.

Graduate: The Department offers a 30-semester hour program leading to a Master of Science in Geography. A core of four courses (12 hours) is required which consists of courses in research methods, techniques, history and philosophy, and one seminar. With the approval of the department, up to 6 hours from related disciplines may be applied toward the degree program. Students frequently take courses in the Anthropology, Computer Science, Education, Environmental Sciences, Computer Management Information Systems, Mathematics, Political Science, Public Administration, or Sociology programs. A variety of program options are possible and course of study can be structured to reflect individual goals and objectives. Both a thesis and non-thesis option are available within the M.S. The non-thesis option requires 6 credit hours of additional coursework and the successful completion of a graduate research project consisting of a research paper and oral presentation.

To be admitted to the program, students should have preparation in Geography or related areas and an undergraduate grade point average of 2.8 (on a 4.0 scale) or better. Applicants who do not meet these requirements may be considered on a case-by-case basis. The Department has graduate assistantships that provide a stipend and tuition waiver for qualified students on a competitive basis.

FULL AND PART-TIME FACULTY:

The Geography Department has 13 full-time tenured and tenure-track faculty, one of whom is jointly appointed with the Department of Environmental Sciences.

Gillian Acheson, Ph.D., Texas A&M University, 2003, Professor — geographic education, human geography, cultural landscape, population, social justice

Alan W. Black, Ph.D., University of Georgia, 2015, Assistant Professor — climatology, climate change, atmospheric hazards, extreme events

Stacey R. Brown, Ph.D., Oklahoma State University, 2011, Associate Professor — human geography, medical geography, GIS, quantitative methods

Michael L. Grossman, Ph.D., University of Wisconsin, 2003, Professor — physical geography, geomorphology, hydrology

James Hanlon, Ph.D., University of Kentucky, 2008, Associate Professor — urban, cultural, and historical geography, public and affordable housing, urban redevelopment, racial segregation and inequality, social theory

Mark L. Hildebrandt, Ph.D., Arizona State University, 1999, Associate Professor — climatology, meteorology, polar and alpine environments

Shunfu Hu, Ph.D., University of Georgia, 1998, Professor — GIS, multimedia mapping, remote sensing

Susan E. Hume, Ph.D., University of Oregon, 2005, Professor and Chair — migration studies, ethnic geography, urban geography, geographic education

Adriana E. Martinez, Ph.D., University of Oregon, 2013, Associate Professor — fluvial geomorphology, physical geography, GIS

Francis O. Odemerho, Ph.D., Clark University, 1982, Associate Professor — physical geography, geomorphology, Africa

Randall S. Pearson, Ph.D., Indiana State University, 1993, Professor and Director of the Laboratory for Applied Spatial Analysis — remote sensing, GIS, physical geography

Wendy Shaw, Ph.D., University of Georgia, 1994, Professor — cultural, philosophy/history of geography, development, geographic education

Bin Zhou, Ph.D., University of Georgia, 1995, Professor — economic and urban geography, development, quantitative techniques, Asia

SOUTHWESTERN ILLINOIS COLLEGE

DEPARTMENT OF GEOGRAPHY, HISTORY, AND POLITICAL SCIENCE

DEGREES OFFERED: A.A. with a concentration in Geography

CHAIR: Carolyn Myers

FOR FURTHER INFORMATION WRITE TO: Jeff Arnold, Southwestern Illinois College, Department of Geography, History, and Political Science, 2500 Carlyle Rd., Belleville, Illinois 62221-5899. Telephone (618) 235-2700, ext. 5412. Fax (618) 235-1578. Internet: www.swic.edu

COURSES OFFERED: World Regional Geography, Introduction to Weather and Climate, GIS I, GIS II, Economic Geography, Field Course: Travel/Study Tour, Regional: North America

MATRICULATION AGREEMENTS WITH FOUR-YEAR COLLEGES/UNIVERSITIES: The State Universities of Illinois.

FACULTY:
Jeff Arnold

PART-TIME FACULTY:
R. Lynn Bradley, Andrew Stawarski

UNIVERSITY OF CHICAGO

COMMITTEE ON GEOGRAPHICAL SCIENCES

DATE FOUNDED: 1902

DEGREES OFFERED: B.A. in Geographical Sciences;
Minor in Geographic Information Science; Masters of Arts Program in the Social Sciences (MAPSS);
Concentration in Geographic Information Sciences

GRANTED 2016-18: 18 B.A. Geographical Sciences

MAJORS: 20 Undergraduate Geographical Sciences

CHAIR: Luc Anselin

PROGRAM ADMINISTRATIVE ASST: Stefani Metos

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Committee on Geographical Sciences, 5730 S. Woodlawn, Suite 104, University of Chicago, Chicago, Illinois 60637. Telephone (773) 702-8301. E-mail: anselin@uchicago.edu. Internet: <https://geography.uchicago.edu>

PROGRAMS AND RESEARCH FACILITIES: The Committee on Geographical Sciences offers a geospatial perspective on fundamental issues in the urban, environmental, and social sciences. The main area of interest is the interaction between physical/natural environments, built environments, and people, utilizing a geospatial perspective to explore issues that impact neighborhoods, cities, regions, and global communities. Example topics include: cultural landscapes and morphological agency, the social justice of urban design, the impact of climate change on urban sustainability, and the geo-visualization of economic disparities. Many opportunities are available to engage in research through the Center for Spatial Data Science (<https://spatial.uchicago.edu>), the Mansueto Institute for Urban Innovation (<https://miurban.uchicago.edu>), and the extensive collections at the UChicago Map Library (<http://guides.lib.uchicago.edu/c.php?g=546121&3746283>).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Admission is to the University of Chicago College (<http://collegecatalog.uchicago.edu/thecollege/introduction/>). The University of Chicago College curriculum has three components: general education requirements (1500 units), a major (900-1900 units), and electives (800-1800 units). A minimum of 4200 units of credits (forty-two 100-unit courses) is required for the undergraduate degree. Of all credits earned, at least 3800 must be earned via course enrollment, as opposed to credit earned via examination. Students choose courses across the curriculum in consultation with College advisers and faculty counselors.

The Committee on Geographical Sciences offers a track on spatial analysis as an option in the Social Sciences Core. These courses do not count towards the major. The BA degree in geographical sciences calls for the satisfactory completion of eleven courses, at least eight of which must be in geographical sciences. The required courses include an introduction to GIS; the senior seminar; and at least nine additional geography courses, up to three of which may be in approved related fields. A BA thesis is prepared in connection with the senior seminar.

The Minor in Geographical Information Sciences consists of six core courses and one elective from a series of offerings. The core courses provide a coherent exposure to rigorous spatial thinking and its incorporation into the methodologies of geographic information systems, spatial analysis, and spatial data science.

The Masters of Arts Program in the Social Sciences (MAPSS) at the University of Chicago (<https://mapss.uchicago.edu>) is a one year program consisting of nine graduate courses and a MA thesis. The Concentration in Geographic Information Science consists of a five-course curriculum that provides a coherent introduction to spatial

thinking, geospatial analysis, geo-computation, and geo-visualization techniques, with a focus on policy-relevant research across the social sciences.

FACULTY:

Luc Anselin, Ph.D., Cornell University, 1980, Stein-Freiler Distinguished Service Professor of Sociology and the College; Director Center for Spatial Data Science — geographic information science, spatial econometrics, regional science

Marc Berman, Ph.D., University of Michigan, 2010, Associate Professor of Psychology and the College — environmental neuroscience, computational social science, multivariate analysis

Luis Bettencourt, Ph.D., University College London, 1996, Pritzker Director of the Mansueto Institute for Urban Innovation and Professor of Ecology and Evolution — urban science, complex systems theory, urbanization

Kathleen Cagney, Ph.D. Johns Hopkins University, 1998, Professor of Sociology and the College; Director, Population Research Center — geography of health, population studies, neighborhood dynamics

Terry Nichols Clark, Ph.D., Columbia University, 1967, Professor of Sociology — urban sociology, urban politics, scenes

Michael Conzen, Ph.D., University of Wisconsin, Madison, 1972, Professor of Geography — urban morphology, historical geography, cultural geography

Kevin Credit, Ph.D., Michigan State University, 2018, Lecturer in Geographic Information Science — geographic information science, transportation, economic development

Marynia Kolak, Ph.D., Arizona State University, 2017, Lecturer in Geographic Information Science — geographic information science, social epidemiology, health geography

Sabina Shaikh, Ph.D., University of California, Davis, 1999, Senior Lecturer, Environmental and Urban Studies — environmental economics, natural resource management, sustainability

Emily Talen, Ph.D., University of California, Santa Barbara, 1995, Professor of Urbanism — urban design, community planning, new urbanism

Robert Vargas, Ph.D., Northwestern University, 2012, Neubauer Family Assistant Professor of Sociology and the College; Director, Violence, Law and Politics Lab — political sociology, criminology, urban geography

UNIVERSITY OF ILLINOIS

DEPARTMENT OF GEOGRAPHY & GEOGRAPHIC INFORMATION SCIENCE

DATE FOUNDED: 1949

DEGREES OFFERED: BA, BS, MA, MS, PSM in Geography, PhD

GRANTED 9/1/18 – 8/31/19: 18 BA, 2 MA, 3 MS, 6 PSM, 8 PhD

STUDENTS IN RESIDENCE: 45 Majors, 11 Minors

CHAIR: Shaowen Wang

DEPARTMENT ADMINISTRATIVE ASST: Matt Cohn

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography & GIS, Room 2044, Natural History Building, 1301 W. Green Street, Urbana, Illinois 61801. Email: geography@illinois.edu

PROGRAMS AND RESEARCH FACILITIES: The department is organized into four areas of specialization for training of graduate students: 1) Geographic Information Science including space-time GIS, remote sensing, computational GIS and cyberinfrastructure, and applications of GIS to geographic problems; 2) River, Watershed and Landscape Dynamics concentrating on fluvial geomorphology, watershed hydrology, ecohydrology, and landscape modeling; 3)

Society, Space and Environments concentrating on political ecology, development geography, politics of the environment, social vulnerability, green buildings and infrastructure, and 4) Cities and Metropolitan Areas with emphases in urban health and quality of life, urban governance and politics, race, class, and city policing, critical studies of urban transportation and mobilities, globalization, neoliberalization and the city.

Professional Science Master's (PSM) program in GIS: The PSM combines scientific and professional training in GIS and Business to prepare students for careers with businesses that use and develop geospatial technologies. Students build a flexible, cross-disciplinary expertise around a strong Geographic Information Science core, while acquiring business knowledge and professional skills. The business curriculum includes technology management, marketing, entrepreneurship, project and/or project management and finance. PSM students typically complete the program in sixteen months, consisting of three full-time semesters and a required summer internship. Students in this program may not hold assistantships or other tuition and fee waiver-generating appointments.

Departmental facilities include an instructional GIS laboratory with state-of-the-art hardware and a variety of software including ArcGIS, ERDAS, ENVI, and spatial statistical software. The department also has an Earth materials laboratory for soil and fluvial analysis. The department is home to several specialized research centers: 1) the CyberGIS Center for Advanced Digital and Spatial Studies, which was established as a partnership among several units on campus and focuses on computationally intensive spatial analysis and modeling, high-performance and collaborative GIS, and cyberinfrastructure-based geospatial problem-solving environments and applications; and 2) the Space-Time Analysis Research (STAR) Lab which seeks to develop and apply innovative analytical methods to analyze complex, high-resolution space-time data in health, transport, and urban geographic research. Other research facilities on campus include the largest publicly supported university library in the United States. The Map and Geography Library contains an excellent collection of monographs and journals and one of the largest map collections in the country. There is also access to the National Center for Super Computing Applications, and the department has close research and teaching ties to the Illinois State Geological, Natural History, and Water Surveys and their analytical facilities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Minimum standard for admission to the Master's program is a B average, higher for the Ph.D. program. Scores from the Graduate Record Examination must be submitted, along with three letters of recommendation. Teaching assistantships, research assistantships and several Graduate College and departmental fellowships are available. Currently, 50%- time nine-month appointments for assistants carry a minimum stipend of about \$17,500 plus tuition waiver. Nearly all resident graduate students (except PSM) are supported by assistantships, fellowships, or scholarships.

FACULTY:

James Best, Ph.D., London, 1985, Professor — process sedimentology, flow-sediment interactions

Julie Cidell, Ph.D., Minnesota, 2003, Associate Professor — transportation, GIS, economic geography, urban political ecology, urban sustainability

Piotr Ciencala, Ph.D., University of British Columbia, 2015, Assistant Professor — ecogeomorphology and ecohydraulics, impact of land use and climate change on streams, river and watershed conservation

Chunyuan Diao, Ph.D., University of Buffalo, 2017, Assistant Professor — remote sensing, Geographic Information Science and biogeography

Brian J. Jefferson, Ph.D., New School for Social Research, 2013, Assistant Professor — urban geography, carceral geography and critical social theory

Shakil Kashem, Ph.D., University of Illinois, 2015, Teaching Assistant Professor — GIS, environmental policy and planning, disaster risk management, urban growth modeling

Mei-Po Kwan, Ph.D., University of California, Santa Barbara, 1994, Professor — environmental health, mobility, urban/transport geography, GIScience, ICT

Sara L. McLafferty, Ph.D., Iowa, 1979, Professor — geography of health, spatial analysis, urban geography, GIS

Bruce L. Rhoads, Ph.D., Arizona State, 1986, Professor — fluvial geomorphology, environmental management, stream restoration, philosophy of geomorphology

Murugesu Sivapalan, Ph.D., Princeton, 1986, Professor — watershed hydrology, runoff processes, chemical and biological processes in water quality

Shaowen Wang, Ph.D., Iowa, 2004, Professor, Head of Department and Director, CyberGIS Center — cyberinfrastructure, geographic information science, large-scale geospatial problem solving

David Wilson, Ph.D., Rutgers, 1985, Professor — urban, social theory, political, neighborhood dynamics

EMERITI FACULTY:

Thomas J. Bassett, Ph.D., California-Berkeley, 1984, Professor Emeritus — African agrarian systems, political ecology, agriculture development and socio-cultural change, history of cartography

Bruce M. Hannon, Ph.D., Illinois, 1970, Professor Emeritus — energy use and conservation, environmental planning, ecological modeling

Geoffrey J.D. Hewings, Ph.D., Washington, 1969, Professor Emeritus and Director, Regional Economics Applications Laboratory — regional science, methods of urban and regional analysis, regional economic models and forecasting

John A. Jakle, Ph.D., Indiana, 1967, Professor Emeritus — historical, cultural, urban social geography, American landscape

Ezekiel Kalipeni, Ph.D., North Carolina, Chapel Hill, 1986, Professor — environmental and resource issues, population, migration, health care, Africa

Colin E. Thorn, Ph.D., Colorado, 1974, Professor Emeritus — alpine and periglacial geomorphology, philosophy and theory of geomorphology

DEPARTMENTAL AFFILIATES:

Brian Dill, Ph.D., U. of Minnesota, 2007, Associate Professor — development, political sociology, globalization, sustainability, renewable energy

Zsuzsa Gille, Ph.D., California-Santa Cruz, 1999, Associate Professor, Sociology — environmental sociology, sociology of knowledge, globalization

Jenny M. Johnson, M.S., Illinois, 1985, Map and Geography Librarian and Associate Professor of Library Administration — maps, journals, and other library/geography issues

Kaiyu Guan, Ph.D., Princeton, 2013, Assistant Professor, Natural Resources & Environmental Sciences — water-ecosystem-food nexus

Faranak Mirafteb, Ph.D., Berkeley, 1995, Professor, Urban and Regional Planning — social aspects of urban development

Gary Parker, Ph.D., Minnesota, 1974, Professor, Civil Engineering and Geology — river morphodynamics, turbidity flows, alluvial processes

Surangi Punyasena, Ph.D., Chicago, Assistant Professor, Plant Biology — ecology, evolution, conservation

Gillen D'Arcy Wood, Ph.D., Columbia University, 2000, Professor — Environmental humanities, climate change, sustainability

DEPARTMENTAL ADJUNCTS:

James R. Angel, Ph.D., Illinois, 1996, Professional Scientist and Illinois State Climatologist, Illinois State Water Survey — applied climatology, hydroclimatology, statistics, climate change and climate-product delivery systems

Richard Berg, Ph.D., Illinois, 1979, Director of Illinois State Geological Survey — environmental geology, geological mapping, soil geomorphology

Ashwini Chhatre, Ph.D., Duke, 2006, Senior Research Fellow and Visiting Professor, Indian School of Business Environmental politics — geography of south Asia, political science

Charles Ehlschlaeger, Ph.D., California Santa Barbara, 1998 — environmental modeling

Ulrike Gerhard, Ph.D., 2005, Universitat Wurzburg, Chair of Human Geography of North America, Heidelberg University — urban developments and discourses, urban inequalities, global cities, comparative perspectives, interdisciplinary approaches, North American cities

Jesse Ribot, Ph.D., California-Berkeley, 1989, Professor — environmental policy, local government, rural representation, distributional equity, social vulnerability

James Westervelt, Ph.D., Illinois, 1996, Research Scientist, Construction Engineering Research Laboratory — ecological modeling, GIS, urban planning

WESTERN ILLINOIS UNIVERSITY

DEPARTMENT OF EARTH, ATMOSPHERIC, AND GEOGRAPHIC INFORMATION SCIENCES

DATE FOUNDED: 1917

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.S. Geography and GIS, B.S.

Geology, B.S. Meteorology, M.A. Geography

GRANTED 7/1/18-5/16/19: 5 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 30 Undergraduate, 12 Graduate

NOT IN RESIDENCE: 4 Masters

CHAIR: Samuel Thompson

DEPARTMENT ADMINISTRATIVE ASST: Deborah Lutz

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Samuel Thompson, Chair, Department of Earth, Atmospheric, and Geographic Information Sciences, Western Illinois University, 1 University Cir., Macomb, Illinois 61455-1390. Telephone (309) 298-1648. Fax (309) 298-3003. E-mail: eagis@wiu.edu. Internet: www.wiu.edu/eagis/.

PROGRAMS AND RESEARCH FACILITIES: The department offers three options within its M.A. program: thesis, applied project, and professional plan. Each of these programs provides students with a degree of flexibility. There are five core courses common to each program. All other aspects of the program are elective, and can be tailored to suit individual objectives. The thesis option is intended for those who plan to enter a doctoral program and/or pursue careers in research. The applied project option is designed to give students practical real-world work experience on a project that may involve an internship. Finally, the professional plan serves practicing professionals and those about to enter the workplace. Students in all programs must submit a proposal for their final product (thesis, applied project or professional plan) and defend the results of their undertaking before a three-member faculty committee.

Department facilities are housed in Tillman Hall and include office space for all full-time graduate students; two GIS labs with more than 60 networked machines running ESRI GIS software and ERDAS Imagine; a County GIS Center responsible for all GIS analysis for the City of Macomb and McDonough County; meteorology laboratory with Linux computers, weather station and weather radar.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The department offers Bachelor of Science degrees in Geography & GIS, Geology, and Meteorology as well as minors in Geography, Geology, GIS, and Weather and Climate. The Geography/GIS degree includes options in geospatial science or general geography. The Geology degree includes an option in paleontology. The Meteorology degree is designed to meet the NWS and AMS curricular requirements.

GRADUATE: Admission requires that the applicant have a Bachelor's degree from an accredited institution and an overall grade-point average of at least 2.75 (on a 4-point scale), or a grade-point of at least 3.0 for the last two years of undergraduate work. Applicants should have completed at least 24 semester hours of Geography. Students who lack preparation in basic cartographic techniques and/or basic quantitative analysis techniques are required to complete coursework as deficiencies. Students with deficiencies may elect to—and are strongly encouraged to—complete deficiencies prior to beginning the program. Graduate assistantships are available. Assistants receive monthly stipends and their tuition charges are waived. The GRE is highly recommended.

FACULTY:

Steven W. Bennett, Ph.D., Indiana University, 1994, Associate Professor — hydrogeology and surficial processes
Marcus Buker, Ph.D., University of Wisconsin, 2004, Associate Professor — advanced meteorology
Jongnam Choi, Ph.D., University of Georgia, 2001, Professor — climatology, satellite meteorology, biogeography
Yongxin Deng, Ph.D., Southern California, 2005, Professor — GIS, soils, conservation, world regional
Raymond Greene, Ph.D., University of Georgia, 2000, Associate Professor — GIS, quantitative methods, Africa
Redina Herman, Ph.D., University of Illinois, 2003, Associate Professor — advanced meteorology
Ranbir Kang, Ph.D., Oklahoma State, 2005, Associate Professor — physical geography, GIS
Fuyuan Liang, Ph.D., University of Georgia, 2008, Associate Professor — Pleistocene geomorphology, physical, remote sensing
Kyle Mayborn, Ph.D., University of California, 2000, Professor — mineralogy, structural geology, petrology
Leslie Melim, Ph.D., Southern Methodist, 1991, Professor — sedimentary geology, igneous and metamorphic petrology
Christopher D. Merrett, Ph.D., University of Iowa, 1994, Professor and Director, Illinois Institute for Rural Affairs — geographic thought, political geography, Canada and the United States
Christopher J. Sutton, Ph.D., University of Denver, 1995, Professor — urban, cartography
Samuel Thompson, Ph.D., The University of Akron, 2001, Professor — urban/regional planning, population

INDIANA

BALL STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 07/01/17 – 06/30/18: 26 Bachelors, 5 Masters

MAJORS: 115 Majors, 7 Masters

CHAIR: Kevin Turcotte

DEPARTMENT ADMINISTRATIVE COORDINATOR:

Teresa Wilson

FOR CATALOG INFORMATION WRITE TO: Kevin Turcotte, Ball State University, Geography, Muncie, Indiana 47306-0470. Telephone (765) 285-1776. Fax (765) 285-2351. Email: turk@bsu.edu. Web: <http://www.bsu.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES:

Programs: The Department of Geography offers both undergraduate and graduate programs that integrate education and technical training for purposes of analyzing space and time from a geographic perspective. Undergraduate programs in human geography, travel/tourism, GIScience and meteorology/climatology lead to B.A. or B.S. degrees, or to one of four minors in geography for students majoring in peripheral fields. M.S. degree emphasis is typically either GIScience or Applied Atmospheric Sciences, although flexibility exists to prepare students for a variety of positions in industry, business, education, and government.

Faculty expertise is found within the areas of cultural-historical geography, urban geography, political geography, geographic education, tourism, cartography, remote sensing/GIS, applied meteorology and climatology, and environmental hazards. Regional specializations include Europe and Russia, South and East Asia, and North America.

Research Facilities: The Department of Geography is housed in the Cooper Science Building with excellent facilities for research and grant/contract work. A staff cartographer is also available. Facilities include labs for GIScience and meteorology/climatology.

The Geography Department houses the GIScience Teaching and Learning Lab which consist of two spaces dedicated to teaching and research in the GISciences. This teaching space accommodates up to 30 students and provides an environment especially conducive to collaborative methodologies and active learning. Each student has updated desktop computers with access to the latest versions of GIS, remote sensing, and other geospatial software packages that are part of the GIScience curriculum at Ball State. The research space accommodates 12-14 people and provides an opportunity for interdisciplinary and/or specialized research using the tools of GIScience. The space features 12 high-end customizable workstations with access to all the GIScience software available in the teaching space. These labs are open to all Geography majors and students enrolled in departmental courses. Ball State University has site licenses for ESRI, ERDAS Imagine and Adobe software.

The department also houses the BSU Meteorology and Climatology Laboratory, which serves a focal point for the analysis of real-time meteorological and climatological data. Primary operations of the weather station include the collection of data through real-time weather observations, the compilation and summarization of weather data, the communication of severe weather information to broadcast media and general public, and the development of both short-and long-term weather forecasts. The BSU Meteorology and Climatology Laboratory serves as the center of the operations for the Ball State Storm Chase Team, which provides real-time field observations of severe weather in central Indiana in support of National Weather Service and local emergency management severe weather operations.

Research at Ball State University is also supported through the Alexander M. Bracken Library which offers convenient access to more than 1.5 million books, periodicals, microforms, audiovisual materials, microcomputer software, government publications, manuscripts, archival records, and electronic databases. The Bracken Library is a depository for over 145,000 maps from the U.S. Geological Survey, U.S. Defense Mapping Agency, U.S. National Ocean Service, and Indiana Geological Survey. Additional materials not directly available from Bracken Library may be obtained through Interlibrary Loan (ILL).

Ball State University is located in Muncie (population 67,000), Indiana, situated within an agricultural region consisting of small towns in close proximity to the Great Lakes and the metropolitan area of Indianapolis (population 1.5 million). These physical and cultural surroundings offer a wide variety of settings for geographic research. Muncie itself (also known as “Middletown, USA”) has been the focus of well-known cultural and social research since the 1920s which has popularized the city as *the* “representative” American community.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Ball State University operates on a semester system. There are two five-week summer sessions and a single ten-week summer semester.

Academic Plan - Undergraduate: The undergraduate Geography program at Ball State University offers four different options within the major, and a major in Meteorology and Climatology.

Concentration 1. Human Geography. This concentration is designed for students interested in the human dimensions of geography. Whether from a social science or humanities perspective, students apply interests in urbanization, religion, language, population, economics, ethnicity, and politics in a spatial context that includes local, regional, and global scales.

Concentration 2. Travel and tourism. This concentration provides students the geographical knowledge, the analytical skills, and the practical experience that are beneficial for successful careers in the travel/tourism industry. The sequence of specialized courses addresses the spatial, organizational, social, and economic aspects of sustainable tourism development, as well as the interaction between tourists and destinations.

Concentration 3. GIScience. This concentration is a technical specialization for students interested in solving social and environmental problems through advanced spatial information technology. Students learn how to visualize information in ways that reveal relationships, patterns, and trends by using computer software for cartography, remote sensing, and GIS. Cartography is the art and science of making maps; remote sensing provides a means to capture visual and digital information about the earth through airborne cameras and advanced electronic spaceborne sensors; a geographic information system is a set of computer tools for analyzing spatial data.

Concentration 4. Meteorological Studies. This concentration is intended for students with interests in weather and climate who seek positions in which knowledge of meteorology and climatology is ancillary to satisfying primary task objectives. Students completing degrees in this concentration find employment in a variety of enterprises, including emergency management, environmental analysis, and transportation planning.

Meteorology and Climatology. The major in Meteorology and Climatology appeals to students with primary interests in weather forecasting and/or atmospheric research. This major meets American Meteorological Society (AMS) qualifications for the title “meteorologist,” and Federal Civil Service requirements (GS 1340) for employment by the National Weather Service (NWS). Both students with broadcast meteorology aspirations and those pursuing public or private sector meteorology careers benefit from the systematic investigations of earth-atmosphere system and subsystem dynamics and to train you in the use of technology (satellites, radar, automated weather observations, and numerical weather prediction) to analyze these systems on a variety of spatial and temporal scales. The department offers a number of opportunities for students, including participation in the Cardinal Weather Service and optional coursework in Broadcast Meteorology.

The department also offers minors in human geography, travel and tourism, meteorology and climatology, and GIScience.

Academic Plan - Graduate: Specialized M.S. programs in GIScience and Applied Atmospheric Sciences apply to state-of-the-art technologies such as remote sensing, GIS, and advanced cartographic methods in various sub-disciplines of geography and allied sciences. A set of core courses in geographic theory (history and philosophy, research methods, quantitative methods) and a thesis project are requirements of both M.S. programs.

GIScience Emphasis. The GIScience emphasis provides advanced education and training in the area of spatial analysis, with intensive studies in cartography, remote sensing, and GIS. Among the essential components of the program are theory, research methods, and application development. To fulfill this goal, practical experience obtained from internships and field research is integrated into the formal curriculum. A wide range of courses are available to meet the student's specific interests. The courses range from advanced cartography, remote sensing, and GIS methods of analysis to designing customized interfaces for modeling and/or viewing purposes. Students can choose to specialize in one of the technical areas or all three. Thesis research topics can be in human or physical geography.

Applied Atmospheric Science Emphasis. The Applied Atmospheric Science emphasis is designed to meet the educational needs of students with strong interests in climatology, weather analysis and forecasting, severe local storms, climate dynamics related to severe local storm environments, and/or mitigation of severe weather in an emergency managements setting.

Graduate Admission Requirements: All successful applicants must first meet the requirements of the Graduate School, then be accepted for graduate work by the Department of Geography. Separate application packets are required for the Graduate School and the department. The department application packet must include GRE scores, transcripts of all previous undergraduate and graduate coursework, three letters of reference, and a carefully constructed statement of the student's research interests.

Financial Aid: There are several research assistantships available that provide full-tuition remission and a stipend. Students receiving stipends provide 20 hours of service per week.

FACULTY:

Christopher Airriess, Ph.D., Kentucky, 1989, Professor — development, cultural landscapes, ethnicity, Southeast and East Asia
Reuben Allen, Ph.D. Indiana State University 2015, Instructor — physical geography, cultural geography and world regional geography
Adam Berland, Ph.D., Minnesota, 2012, Assistant Professor — geographic information science, spatial analysis, urban environments
Call, David, Ph.D., Syracuse University, 2007, Associate Professor — weather and society, climatology, hazards and meteorology
Jill Coleman, Ph.D., Ohio State, 2005, Professor — climatology, bioclimatology, quantitative methods
Nathan Hitchens, Ph.D., Purdue University, 2010, Assistant Professor — forecast evaluation and verification, climatology, extreme weather
Jerzy Jemiolo, Ph.D., Jagiellonian (Krakow, Poland), 1982, Associate Professor — tourism, transportation, cultural, Europe, Russia
William Price, Ph.D., University of Kansas, 2014, Assistant Professor — cultural heritage, sustainable tourism, industrial tourism, indigenous geography
Jörn Seemann, Ph.D., Louisiana State University, 2010, Assistant Professor — maps and society, cartography, cultural geography, Latin America

Carol Shears, M.A.E., Ball State, 1982, Assistant Professor — geographic education, physical geography
Kevin Turcotte, Ph.D., Indiana State, 1990, Professor and Chair — GIS, programming GIS
Jason Yang, Ph.D., University of Rhode Island, 2003, Professor — remote sensing, geographic information systems, spatial statistics, research methods
Petra Zimmermann, Ph.D., University of Delaware, 2003, Associate Professor — applied climatology and meteorology, geographic information systems, quantitative methods

INDIANA UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

GRANTED 6/1/17-5/31/18: 8 Bachelors, 3 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 34 Majors, 18 Ph.D.

NOT IN RESIDENCE: 3 Ph.D.

CHAIR: Rebecca Lave

DEPARTMENT ADMINISTRATIVE ASST: Kristi Carlson, Susan White

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Susan White, Department of Geography, Indiana University, Student Bldg. 120, Bloomington, Indiana 47405. Telephone: (812) 855-6303. Fax: (812) 855-1661. E-mail: geog@indiana.edu. Internet: <https://geography.indiana.edu/>

PROGRAM AND RESEARCH FACILITIES: The Ph.D. program is designed to develop each student's abilities to carry out significant research in geography. Graduate study within the department is comprised of five fields: climate and environmental change, food and agriculture, geographic information systems and remote sensing, cities, development and justice, and water resources. Courses in theory, research design, and methods constitute the core of study for all advanced degrees.

Students studying for the Ph.D. are expected to develop a command of theory in their areas of research specialization and demonstrate a capacity to carry out independent research of significant importance. Formal requirements include a set of core courses, a comprehensive examination and completion of the Ph.D. dissertation.

Undergraduate studies leading to the B.A. or B.S. degree emphasize geography as the basis of a strong liberal education. Undergraduate students are also encouraged to develop analytical skills in areas such as geographic information science and statistics.

Indiana University ranks among the top universities in the nation with respect to computing facilities.

The department works closely with other divisions of Indiana University, including the Center for the Assessment of Socio-Economic Landscapes, the Ostrom Workshop on Political Theory, the Center for Race and Ethnicity Studies, the Study of Global Change, the Russian and East European Institute, East Asian Studies, Latin American and Caribbean Studies, African Studies, Institute for European Studies, and Central Eurasian Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Indiana University is on the semester system. The department admits students with Bachelor's and/or Master's degree to our Ph.D. program. The department has no terminal Master's degree programs at this time. An undergraduate major in geography, or a close equivalent, and a B average are required for admission to the

Ph.D. program. GRE scores are optional. Many graduate students receive financial support as teaching assistants or through fellowships and scholarships. Almost all financial awards include fee scholarships which cover the costs of tuition. Teaching assistants may carry up to 12 hours of graduate credit per semester and are expected to work 20 hours per week in the department. Other awards include University Fellowships, Dissertation Year Fellowships, summer fellowships, and grants-in-aid for doctoral students. Applications for financial aid should be received by December 15.

FACULTY:

Ishan Ashutosh, Ph.D., Syracuse University, 2010, Assistant Professor — urban geography; political geography; cultural geography; migration/diaspora; postcolonial studies

Elizabeth Dunn, Ph.D., John Hopkins University, 1998, Professor — cities; development and justice; food; agriculture

Michael Dwyer, Ph.D., University of California Berkeley, 2011, Visiting Assistant Professor — development studies; political ecology; land governance; Southeast Asia

Darren Ficklin, Ph.D., University of California, Davis, 2010, Associate Professor — watershed hydrology; surface water, groundwater, and water quality modeling; examining the effects of climate change on the hydrologic cycle; examining the effects of climate change on aquatic species ecosystems; drought modeling and assessment

Tae Hee Hwang, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor — ecohydrology; remote sensing; landscape ecology

Yuri Kim, Ph.D., 2012, University of North Carolina, Chapel Hill, Lecturer — watershed hydrology; hydrologic modeling; water resources backcast and forecast under the climate change and Landuse/Landcover changes; geographic information systems and remote sensing

Daniel C. Knudsen, Ph.D., Indiana University, 1984, Professor — critical food studies; tourism theory; nationalities studies

Rebecca Lave, Ph.D., University of California, Berkeley, 2008, Associate Professor — critical physical geography; political ecology; political economy and social theory; science and technology studies; stream restoration and fluvial geomorphology; agricultural NPS pollution in the Midwest

Sally Letsinger, Ph.D., Indiana University, 2001, Associate Research Scientist — watershed hydrology, especially in areas of complex terrain; 3D groundwater modeling; GIS and remote sensing as tools for special data analysis; numerical methods to solve geologic and hydrogeologic problems; land-surface energy balance modeling; hydrologic implications of a changing climate; water infrastructure, waster sustainability; soil moisture, vapor-intrusion studies

Natasha MacBean, Ph.D., University College London, UK, 2011, Assistant Professor — global environmental and climate change; carbon and biogeochemical cycles; vegetation dynamics; terrestrial biosphere/land surface modeling; environmental remote sensing; model-data fusion/data assimilation

Julio Postigo, Ph.D., The University of Texas at Austin, 2012, Assistant Professor — small farmers social-ecological systems; rural development; pastoralists; sustainability; climate change; evidence-base policy; social dimensions of global environmental change; adaptation and resilience; cultural and political ecology; social, natural and GIS methods

Justin Maxwell, Ph.D., University of North Carolina, Greensboro, 2012, Associate Professor — climatology; biogeography; dendrochronology; forest disturbances

Scott Robeson, Ph.D., University of Delaware, 1992, Professor — climate change detection and impacts; statistical analysis of environmental change; spatial statistics and time-series analysis

Annie Shattuck, Ph.D., University of California Berkeley, 2018, Assistant Professor — food systems; food sovereignty, and agrarian change from a critical geographic perspective

Kurt Waldman, Ph.D., Michigan State University, 2014, Assistant Professor — agricultural and environmental decision making; behavioral science and food security; consumer preference and food policy; food system sustainability

ADJUNCT FACULTY:

Eduardo Brondizio, Ph.D., Indiana University, 1996, Professor — socio-ecological systems; environmental and economic anthropology

Kelly K. Caylor, Ph.D., University of Virginia, 2003, Associate Professor — ecohydrology (i.e. the interface between plant ecology and surface hydrology); surface hydrology, dryland ecology and pastoralist agricultural systems; land degradation; hydrological controls on subsistence agricultural productivity

Stephanie DeBoer, Ph.D., University of Southern California, 2007, Associate Professor — transnational or global film and media studies; film and media co-production; film and media's intersection with space, place, and location; East Asian film and media; Japanese and Chinese language film and media; inter-Asia cultural studies; memory and film/media; "new" media and globalization; film and media theory and criticism

Danilo Dragoni, Ph.D., Cornell University, 2003, Assistant Professor — energy and mass (water and carbon dioxide) exchange in urban and forest systems; plant response to change in environmental forcings

Owen Dwyer, Ph.D., Kentucky, 2000, Professor — urban geography, American social movements; civil rights movements and the museums and memorial landscapes that commemorate it; geographic education

James Farmer, Ph.D., Indiana University, 2009, Associate Professor — motivations and barriers to sustainable behavior; mixed-methods research designs to examine behavior variables in private land conservation; land trust activities; participation in local food systems, and the human dimensions of sustainable agriculture and rural living

Chunfeng Huang, Ph.D., Texas A&M University, 2001, Associate Professor — spatial statistics; geostatistics; smoothing splines

Carl Ipsen, Ph.D., University of California, Berkeley, 1992, Professor — Italy: fascism; population; children; smoking; food

Kimberly Novick, Ph.D., Duke, 2010, Associate Professor — forest ecology; ecosystem carbon and water cycling; biometeorology

A. Faiz Rahman, Ph.D., University of Arizona, 1996, Professor — spatially distributed carbon cycle science using high resolution remote sensing; application of GIScience methods in spatial and temporal scaling studies; visualization of spatially dynamic and time-series of raster and vector data

Rinku Roy Chowdhury, Ph.D., Clark University, 2003, Associate Professor — land change science; human dimensions of global environmental change; cultural and political ecology; GIS/RS; landscape and conservation ecology

Philip S. Stevens, Ph.D., Harvard University, 1990, Professor — chemical mechanisms which influence local air quality and global climate change; field measurements and modeling of the atmosphere

Dallen Timothy, Ph.D., University of Waterloo, 1996, Professor — international boundaries; heritage tourism and conservation; religious tourism; politics of heritage; global tourism

Jeffrey S. Wilson, Ph.D., Indiana State University, 1998, Professor — remote sensing and geographic information science

EMERITI FACULTY:

Bennet Brabson, Ph.D., MIT, 1966, Professor — wind energy; climate change

Timothy S. Brothers, Ph.D., University of California, Los Angeles, 1985, Associate Professor — biogeography; environment

Dennis Conway, Ph.D., University of Texas, Austin, 1976, Professor — development; transnational migration; migration-development relationships

Charles E. Greer, Ph.D., University of Washington, 1975, Associate Professor — China; resource management

Emilio Moran, Ph.D., University of Florida, 1975, J.A. Hannah Professor of Global Change Science and Professor, Department of Geography, Michigan State University Founder, Anthropological Center for Training and Research on Global Environmental Change (ACT) — tropical ecosystem ecology; Amazon basin; secondary successional forest; human ecology

Ernest H. Wohlenberg, Ph.D., Washington, 1970, Associate Professor — economic; natural resources; economic developments

Roman Zlotin, Ph.D., USSR Academy of Sciences, Moscow, 1970, Senior Lecturer — animal, plant, ecosystem and soil geography; structure, function and dynamic of terrestrial biodiversity; plant-animal interactions; global and regional patterns of organic matter production and decomposition; human-induced degradation of environment; biodiversity and public health

INDIANA UNIVERSITY-PURDUE UNIVERSITY INDIANAPOLIS

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1981

DEGREES OFFERED: B.A. in Geography, M.S. and

Certificate Programs in Geographic Information Science

GRANTED 9/1/18-5/31/19: 6 Bachelors, 1 M.S., 7 Graduate Certificates

STUDENTS: 25 Undergraduate, 6 M.S., 15 Graduate Certificates

CHAIR: Owen Dwyer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, 213 Cavanaugh, 425 University Blvd., Indianapolis, Indiana 46202-5140. Telephone (317) 274-8877. Fax (317) 278-5220. E-mail: geogdept@iupui.edu. Internet: <http://liberalarts.iupui.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES:

The IUPUI Department of Geography emphasizes excellence in teaching, original research, and student/faculty interaction. Areas of research emphasis include geographic information science, environmental remote sensing, medical geography, urban and rural landscapes. Regional specialties include Latin America, Africa, Europe, Japan and East Asia, and North America. Practical field experience and internship programs cover a wide range of topics including GIS, cartography, soil conservation, urban planning, and environmental analysis.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Graduate: Research interests coincident with those of the Department and evidence of competence to pursue graduate work at the M.S. level; application requires transcripts, three letters of recommendation. GRE scores required for M.S. Undergraduate: Admission to the university depends on high school rank, high school curriculum, and SAT scores. Financial Aid: fellowships, stipends, research support including Federal programs available.

FACULTY:

Andrew Baker, PhD, Tennessee, 2015, Lecturer — globalization of sport, GIS and social theory, popular cultural geography, urban geography

Anirudha Banerjee, PhD, Iowa, 2004, Associate Professor — GIS, spatial analysis, medical geography, cultural geography

Owen Dwyer, PhD, Kentucky, 2000, Professor, Chair, and Director of Graduate Studies — urban geography, cultural geography

Daniel P. Johnson, PhD, Indiana State, 2007, Associate Professor — GIS, remote sensing, physical geography, spatial analysis, climate change and health

Vijay O. Lulla, PhD, Indiana State, 2010, Assistant Professor — remote sensing, GIS, cartography
Jeffrey S. Wilson, PhD, Indiana State, 1998, Professor and Associate Dean for Research — health and environment, geographic information science, environmental remote sensing

AFFILIATED FACULTY:

Sarah E. Wiehe, MD, MPH, Associate Professor of Pediatrics — adolescent medicine, contextual effects on health, sexually transmitted infections

VALPARAISO UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND METEOROLOGY

DATE FOUNDED: 1931

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/17-12/31/18: 8 Bachelors in Geography (4 B.A., 4 B.S.)

MAJORS: 24 in Geography

CHAIR: Teresa Bals-Elsholz

DEPARTMENT ADMINISTRATIVE ASST: Rusta Ault

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Admissions, Valparaiso University, Valparaiso, Indiana 46383. Telephone (219) 464-5140. Fax (219) 548-7738. E-mail: geomet@valpo.edu. Internet: <http://www.valpo.edu/geography-meteorology/>

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.A. in Geography with strong foundational work in geography and GIS followed by advanced study in one of four career areas: physical and environmental geography, urban geography and regional planning, computer cartography and GIS, or human and cultural geography. The B.S. in Geography focuses upon environmental geography, physical geography, and geospatial analysis. The department also offers a B.A. in Geography Education, a B.S. in Meteorology, and minors in Geography, Meteorology, and GIS. The Department and the University emphasize close contacts between faculty and students. Students undertake independent study projects, work closely with faculty on undergraduate research, and complete internships. Physical facilities include a map depository of the Army Map Service and USGS; the VU Weather Center; Dual-Polarization Doppler Weather Radar; and the F.P. Kallay GIS Laboratory. Fieldwork is an important part of the curriculum. Regular courses include visits to the nearby Indiana Dunes National Park, Kankakee Valley, and Chicago. Other field courses to farther destinations are also offered periodically. Many students take advantage of one of Valparaiso's International Study Programs in China, Japan, England, France, Germany, Namibia, Costa Rica, or Mexico. VU students organize and participate in Geography Club and GTU. Valparaiso University's Geography program has established and maintains a long held tradition in securing entrance into graduate programs and fulfilling careers.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Application for admission to any program of the University, or for financial aid, can be obtained by visiting <http://www.valpo.edu/admission/apply/> or by writing to the Office of Admissions and Financial Aid, Valparaiso University, Valparaiso, Indiana 46383. Scholastic Aptitude Test (SAT) of CEEB or the ACT Assessment of American College Testing Program required. Eighty percent of students receive Financial Aid.

FACULTY:

Teresa Bals-Elsholz, Ph.D., SUNY-Albany, 2001, Associate Professor — dynamic and synoptic meteorology, computer applications

Craig A. Clark, Ph.D., Iowa State, 2007, Associate Professor — boundary layer meteorology, climate change, dispersion modeling

Bharath Ganesh Babu, Ph.D., Indiana State, 2009, Associate Professor — GIS and remote sensing, biogeography, environmental conservation

Kevin H. Goebbert, Ph.D., Oklahoma, 2009, Associate Professor — synoptic meteorology, tropical meteorology, large and small scale forecasting

Jon T. Kilpinen, Ph.D., Texas, 1994, Dean of the College of Arts and Sciences and Professor — historical geography, GIS, cultural, Europe, United States

Michael W. Longan, Ph.D., Colorado, 2000, Professor — urban geography, rural geography, cultural, communications, Asia, and media

Jon-Paul P McCool, Ph.D., Cincinnati, 2017, Assistant Professor — geochronology, geomorphology, soils, human-environment interaction

Adam Stepanek, Ph.D., Purdue, 2017, Assistant Professor — aviation meteorology, sub-seasonal prediction, severe weather, military applications

Bart J. Wolf, Ph.D., Wisconsin, 1991, Professor — synoptic meteorology, large and small scale forecasting, severe storms

IOWA

UNIVERSITY OF IOWA

DEPARTMENT OF GEOGRAPHICAL AND SUSTAINABILITY SCIENCES

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.A., Ph.D.

GRANTED 8/1/17 - 7/31/18: 8 Bachelors, 4 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 63 Majors, 9 Masters, 12 Ph.D.

NOT IN RESIDENCE: 3 Ph.D.

CHAIR: David A. Bennett

DEPARTMENTAL ADMINISTRATOR: Angela Bellew

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions Coordinator, The University of Iowa, Department of Geography, 316 Jessup Hall, Iowa City, Iowa 52242-1316. Telephone (319) 335-0150. Fax (319) 335-2725. E-mail: geography@uiowa.edu. Website: <http://clas.uiowa.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: Professional and research degrees are offered in geography at The University of Iowa. The goal of our research graduate program is to prepare students to conduct creative research involving the development and use of geographic theories and methods. Our professional program is designed to provide students with the knowledge and skill needed to apply advanced geographic information technologies to real world problems. Through these programs, we prepare students for positions in research, teaching, or applied geography. Success in achieving these goals has been demonstrated by the strong demand for University of Iowa graduates to fill positions on college and university faculties, and with private and government organizations engaged in both research and practice.

Our program specializes in: 1) environmental dynamics, 2) health geography, 3) geographic information science (GIScience), 4) sustainability science, 5) urban ecology, and 6) environmental hazards. Our research is often team-based and occurs at the

intersection of two or more of these areas. GIScience as well as theories and models of environmental and social processes are central to these endeavors. We encourage students to gain experience in multiple areas and to design programs of study and research that reflect their interests, background, and goals. Each student works closely with their advisor to design this program, and active participation in research is a critical component of the graduate experience in the department. Faculty and graduate students frequently collaborate on research. To foster community and intellectual exchange, we encourage students to participate in regional and national professional meetings, seminars, reading groups, and a departmental colloquium series.

The university and the City of Iowa City provide a stimulating social, cultural, and academic environment. Excellent bookstores, galleries, and restaurants, as well as Hancher Auditorium, a world class performance hall, provide big city advantages without the high costs and inconveniences of big city living. Academically, the University of Iowa is highly-ranked nationally and includes a medical school and the world-renowned Iowa Writers Workshop. Faculty and students participate in a variety of interdisciplinary research and teaching programs through key research centers and groups at the University. These include the Center for Global & Regional Environmental Research (CGRER), Environmental Modeling and Exposure Assessment Facility, Center for Health Effects of Environmental Contamination, Public Policy Center, International Programs, Interdisciplinary Graduate Program in Informatics, Quaternary Studies Group, College of Public Health, Department of Civil and Environmental Engineering, and IIHR—Hydroscience & Engineering. Our faculty members maintain close working relationships with faculty from many disciplines across campus, and students are encouraged to explore such opportunities.

A B.A. or B.S. degree in geography is not a prerequisite for entry into the graduate program, but students are expected to have an undergraduate background relevant to pursuing graduate work in their specialty within geography. Depending on the strength and suitability of their prior training students may be required to take courses that are prerequisites for courses in their elected areas.

The department houses and maintains two computer facilities: the Geographic Information Systems Instructional Laboratory (GISIL) and a departmental research laboratory. The GISIL, which is the teaching facility for GIS and GIS applications courses, is equipped with 26 workstations. The department provides access to GPS receivers, terrestrial LiDAR and aerial hyperspectral imaging sensors, UAVs (unmanned aerial vehicles), a 3D printer, and an Oculus Rift and other Virtual Reality equipment. There is also equipment for field-based biogeographical and ecological studies, and a wide variety of software for mapping, statistical analysis, and GIS. The department also participates in an advanced GIS facility housed in CGRER and has access to high performance computing clusters maintained by the university.

ACADEMIC PLANS, ADMISSION REQUIREMENTS AND FINANCIAL AID:

UNDERGRADUATE: The University is on the semester system. To qualify for admission as an undergraduate major in the department, a student must meet the requirements of the College of Liberal Arts. Questions concerning financial aid should be addressed to the University Student Financial Aid Office in Room 108 Calvin Hall or [admissions@uiowa.edu](http://admissions.uiowa.edu).

GRADUATE: Admission: In determining the admission of a student to its graduate program, the department considers the total record of each student individually, including: (1) undergraduate grade point average, especially from the junior and senior years; (2) scores on the Graduate Record Examination (GRE) General Test; (3) at least three letters of recommendation; (4) an essay in which the applicant sets forth the reasons for wanting to pursue the study of geography at The

University of Iowa. Application instructions: <http://grad.admissions.uiowa.edu/academics/geography-ma-or-phd>.

M.A. Degree Requirements: The M.A. is designed to be completed in four semesters. It requires a minimum of 30 semester hours of graduate work, of which 18 semester hours must be graduate-only courses. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the completion of appropriate course work and a M.A. thesis. A two-year coursework M.A., including a M.A. with specialization in GIScience, is offered.

Ph.D. Degree Requirements: The Ph.D. is a four- to five-year, post-baccalaureate program. While students typically enter the program after completing a MA or MS degree, exceptions can be made for highly qualified and motivated individuals who wish to enter the program directly from an undergraduate program. Competence in a specific area of geography, across the breadth of geography, and in geographical methods is demonstrated by the passing of comprehensive examinations and completion and defense of a dissertation.

Financial Aid: Many admitted students are supported through graduate assistantships. Regular departmental Teaching and Research Assistantships carry stipends of \$19,236 for the two semester academic year of 2018-19, plus a full tuition scholarship and healthcare benefits. External research grants also provide for research assistants.

The 2019-20 tuition and fees rate for in-state graduate students is \$11,665 for the academic year. Out-of-state students pay \$30,613. All half-time and quarter-time Teaching and Research Assistants are charged at in-state rates, and are provided with a full tuition scholarship for the academic year. All half-time and quarter-time Teaching and Research Assistants are also provided with a 50% fee reduction. The deadline for applicants who wish to be considered for financial aid awards is December 31.

FACULTY:

Marc P. Armstrong, Ph.D., Illinois, 1986, Professor, Collegiate Fellow, and Associate Dean — geographic information science, computational geography

David A. Bennett, Ph.D., Iowa, 1994, Professor and Chair — geographic information science, sustainability, environmental modeling, land use/land cover change

Margaret Carrel, Ph.D., North Carolina, 2011, Associate Professor — health, infectious disease ecology, landscape genetics, population

Matthew Dannenberg, Ph.D., North Carolina, 2017, Assistant Professor — global change ecology, climate, remote sensing, dendrochronology

Caglar Koylu, Ph.D., South Carolina, 2014, Assistant Professor — geographic information science, geo-social networks, big data, visualization

Marc Linderman, Ph.D., Michigan State University, 2002, Associate Professor — remote sensing, environmental modeling, land use/land cover

Carly E. Nichols, Ph.D., University of Arizona, 2019, Assistant Professor — health geography, political ecology, feminist geography

Claire E. Pavlik, Ph.D., Minnesota, 1990, Lecturer — economic, healthcare, qualitative research methods

Tyler Priest, Ph.D., Wisconsin-Madison, 1996, Associate Professor — energy and environmental policy

Heather A. Sander, Ph.D., University of Minnesota, 2009, Associate Professor — urban ecology, ecosystem services, human-environment interaction in urban systems

Silvia Secchi, Ph.D., Iowa State University, 2000, Associate Professor — environmental economics, environmental and conservation policy, economic, geographical, and environmental modeling

Eric Tate, Ph.D., South Carolina, 2011, Associate Professor — flood hazards, social vulnerability and resilience, uncertainty analysis

ADJUNCT FACULTY:

Joshua Busard, MURP, Illinois, 2006, Adjunct Instructor — sustainable urban development, urban and regional planning, LEED certification

Marian V. Muste, Ph.D., Iowa, 1995, Adjunct Faculty — cyberinfrastructure platforms, digital watersheds, sensors and sensing networks for integrated watershed research

Mary Skopec, Ph.D., Iowa, 1999, Adjunct Assistant Professor — water quality, fate and transport of pesticides, monitoring design and optimization, emerging environmental contaminants (pharmaceuticals), and watershed monitoring

Kathleen Stewart, Ph.D., Maine, 1999, Adjunct Associate Professor — geographic information science, modeling geospatial semantics, spatiotemporal data modeling, ontologies and GIS

EMERITI FACULTY:

George P. Malanson, Ph.D., UCLA, 1983, Coleman-Miller Professor Emeritus — ecological modeling, biogeography, landscape ecology, land use/land cover

Michael L. McNulty, Ph.D., Northwestern, 1966, Professor Emeritus — Third World and regional development, urban-rural linkages, Africa

David R. Reynolds, Ph.D., Northwestern, 1966, Professor Emeritus — political, urban, political economy, locational and community effect

R. Rajagopal, Ph.D., Michigan, 1973, Professor Emeritus — environmental measurements, methods, monitoring, modeling and management, information systems, regulation, policy

Rebecca S. Roberts, Ph.D., Oregon State, 1982, Associate Professor Emeritus — political economy of the environment and natural resources, water and agriculture

Gerard Rushton, Ph.D., Iowa, 1964, Professor Emeritus — location theory, health, geographic information science, behavioral

UNIVERSITY OF NORTHERN IOWA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1969

GRADUATE PROGRAM FOUNDED: 1969

DEGREES OFFERED: B.A., B.S., M.A.

GRANTED 6/1/18-5/31/19: 11 Bachelors, 5 Masters

STUDENTS IN RESIDENCE: 33 Majors, 19 Masters

HEAD: Mark Welford

DEPARTMENT ADMINISTRATIVE ASST: Sue Gleason

FOR CATALOG AND FURTHER INFORMATION CONTACT:

Dr. Mark Welford, Head, Department of Geography, University of Northern Iowa, Cedar Falls, Iowa 50614-0406. Telephone (319) 273-2772. Fax (319) 273-7103. E-mail: welfordm@uni.edu. Internet: <http://www.uni.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: The Department offers both a BA degree in Geography and a BS degree in Geographic Information Science. There are three concentrations within the BA undergraduate geography major: Globalization and Regional Geography, Planning and Development, and Environmental Systems and Sustainability. There are also three BS major concentrations: Economic Geography and Business, Planning and Policy, and Environmental Science and Policy. A Certificate in Geographic Information Systems and Cartography is also available. The Master of Arts degree is offered with emphases in many subfields of geography including physical/environmental geography (geomorphology, soils,

water resources), planning and development (urban, economic, transportation, regional analysis, business geographics), geographic education, GIS, and remote sensing. The Department is located in the Innovative Teaching and Technology Center. The Department houses the Arctic, Remote and Cold Territories Interdisciplinary Center (ARCTICenter) and Geoinformatics, Teaching, Research, Education and Extension Center (GeoTREE), as well as the Geographic Alliance of Iowa. The facilities include a 24-seat Computer Teaching Lab, a Soils and Geomorphology Lab, Iowa Low Altitude Remote Sensing Lab, an Environmental Characterization and Analysis Lab, and a Research Lab for graduate students. Specialized field and laboratory equipment include a hydraulic soil coring machine, a petrographic micro-video system, a Beckman-Coulter laser diffraction particle-size analyzer, a laser-induced breakdown spectroscopy system for elemental analysis, a Rigaku x-ray diffraction system for mineralogical analysis, a ground-based VNIR & SWIR hyperspectral imaging system, a hand-held spectroradiometer, and Trimble GPS receivers. Specialized computer software packages include Erdas Imagine, ENVI, eCognition, IDRISI, and the Esri suite of GIS products.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: The M.A. degree program is designed to be completed in four semesters. Both thesis (32-hr minimum) and non-thesis (38-hr minimum) tracks are available in the M.A. program. For regular admission into the M.A. program, the Department requires an overall undergraduate GPA of at least 3.00, at least two letters of recommendation, and a two-page essay outlining interests in Geography, reasons for application to the MA program at the University of Northern Iowa, and future career goals. GRE scores are not required but will be considered if submitted. Graduate Assistantships for research positions and teaching assistant positions and a limited number of Tuition Scholarships are available.

FACULTY:

Dennis E. Dahms, Ph.D., Kansas, 1991, Professor — Quaternary stratigraphy and paleoecology, climate change, soil geomorphology

John DeGroote, MS, Wisconsin - Stevens Point, 2001, Instructor and Director of GeoTREE Center — GIS, geoinformatics

James Dietrich, Ph.D., Oregon, 2014, Assistant Professor — remote sensing, fluvial geomorphology, GIS, environmental monitoring

Bingqing Liang, Ph.D., Indiana State, 2008, Assistant Professor — GIS, remote sensing, environmental

David W. May, Ph.D., Wisconsin - Madison, 1986, Professor — paleoindian geoarchaeology, Holocene alluvial stratigraphy

Lisa Millsaps, Ph.D., Kansas State, 2016, Assistant Professor — geography/GIS education, climate change/sustainability education

Alex P. Oberle, Ph.D., Arizona State, 2005, Associate Professor — geography education, urban, ethnic, Latin America

J. Henry Owusu, Ph.D., Iowa, 1993, Professor — economic, cultural, development, Africa

Patrick P. Pease, Ph.D., Texas A&M, 1998, Professor — geomorphology, aeolian, desert, sediment transport, field methods

Andrey Petrov, Ph.D., Toronto, 2008, Associate Professor — economic, GIS, population, Arctic

Mark R. Welford, Ph.D., Illinois, 1993, Professor and Head — conservation, biogeography and geodynamics of Andean cloud forest, historic hurricane frequency, spatial epidemiology

ADJUNCT/EMERITI/AFFILIATED FACULTY:

Rebecca Kauten, ABD, Iowa, Adjunct Instructor

Chris Simenson, M.A., Northern Iowa, 2004, Adjunct Instructor

Kirk Stufflebeam, M.A., Northern Iowa, 1992, Adjunct Instructor

Mark D. Ecker, Ph.D., Connecticut, 1997, Professor of Mathematics

C. Murray Austin, Ph.D., Pennsylvania, 1971, Professor Emeritus

Thomas Fogarty, Ph.D., Pennsylvania, 1978, Professor Emeritus

James F. Fryman, Ph.D., North Carolina, 1981, Professor Emeritus
Jonathan J. Lu, Ph.D., Washington, 1971, Professor Emeritus
Kay E. Weller, Ph.D., Kansas State, 1993, Professor Emeritus
Tim R. Strauss, Ph.D., Washington, 1994, Professor Emeritus
Tatiana S. Degai, Ph.D. Arizona, 2016, Postdoctoral Scholar
Lee Huskey, Ph.D. Washington University-St. Louis, 1977, Visiting Scientist
Medeia Csoba DeHaas, Ph.D. University of Alaska Fairbanks, 2009, Visiting Scientist

KANSAS

FORT HAYS STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1955

DEGREES OFFERED: B.S. (available on campus and online); M.S. in Geosciences, Geology and Geography

CURRENT MAJORS: 145 Undergraduate, 23 Graduate

CHAIR: Laura E. Wilson, Interim

GRADUATE COORDINATOR: Laura Wilson Brantley

DEPARTMENT ADMINISTRATIVE ASST: Ms. Patricia Duffey

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Laura E. Wilson, Department of Geosciences, Fort Hays State University, 600 Park St, Hays, Kansas 67601-4099. Telephone (785) 628-5389. E-mail: lewilson6@fhsu.edu
 Internet: <http://www.fhsu.edu/geo/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geosciences offers geography specializations that can be tailored to the student's goals and interests. Our entire undergraduate program is offered on campus and online, including an undergraduate certificate in GIS. Graduate students can choose a thesis-based or non-thesis degree program designed to be finished in two years (30 hours of course work). The curriculum is very flexible and designed to encourage cross-discipline study. The Department of Geosciences also offers geology specializations that can be tailored to individual student goals and interests.

While previously part of the College of Arts & Sciences, we are excited to be a founding member of the Werth College of Science, Technology and Mathematics along with departments of agriculture, applied technology, biology, chemistry, math and computer science, and physics in a college that is designed to improve resources and visibility for our students.

The department maintains excellent facilities, including advanced classroom technology, multiple sample-prep and analysis labs, and a GIS lab reserved only for our students. Field experiences are an important part of our culture, so all students have the opportunity for travel, research, and field work. The Sternberg Museum of Natural History is also a part of our university and department. The museum serves the public through educational exhibits and programs while also housing more than 3 million specimens used for research in several different disciplines.

Fort Hays State University is located in Hays, Kansas at the intersection of Interstate 70 and U.S. Highway 183 on the eastern edge of the High Plains. The city of Hays has a population of ~20,000, but its role as a regional center of commerce and culture allow it to offer many more amenities than might be expected of comparably sized towns. Denver, Kansas City, and Wichita are directly accessible via

interstate highways. Fort Hays State University has an enrollment of more than 14,000 students, but fewer than 5000 are on campus. So, the university has the feel of a traditional, liberal-arts university with small class sizes, updated facilities, and accessible instructors and administrators.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Fort Hays State University is on a semester plan. Undergraduate admission inquiries should be made to the Admissions Office (<http://www.fhsu.edu/admissions/>). Graduate-school admissions are processed by the Graduate School (<http://www.fhsu.edu/academic/gradschl/>).

Fort Hays State University is exceptionally affordable, and in-state tuition is offered to residents of Kansas and the adjacent states. In-state tuition is offered also to students who qualify for the Midwest Student Exchange Program, and residents of Arizona, Texas, Virginia, and Wyoming are eligible for up to \$20,000 in undergraduate scholarships simply by earning a 980 on the SAT, a 21 on the ACT, a 2.5 GPA, or by graduating in the top 33% of your class. The Department of Geosciences offers more than \$30,000 in scholarships each year in addition to the university opportunities.

FACULTY:

Henry Agbogun, Ph.D., University of New Brunswick, 2011, Assistant Professor — geophysics, hydrogeology, engineering geology
Hendratta Ali., Ph.D., Oklahoma State University, 2010, Associate Professor — petroleum geology
Keith Bremer, Ph.D., Texas State University, 2011, Assistant Professor — human geography, urban sustainability
P. Grady Dixon, Ph.D., Arizona State University, 2005, Professor and Interim Dean — meteorology, climatology, physical geography
Richard Lisichenko, Ph.D., Kansas State University, 1999, Professor — geography, GIS
Tom Schafer, Ph.D., Kansas State University, 2000, Associate Professor — physical geography, cartography
Jeanne Sumrall, Ph.D., Mississippi State University, 2015, Instructor — geoscience education, environmental science
Jonathan Sumrall, Ph.D., Mississippi State University, 2013, Assistant Professor — sedimentology, carbonate petrology, and isotope geochemistry
Laura Wilson Brantley, Ph.D., University of Colorado, 2012, Interim Chair, Associate Professor and Chief Curator of Sternberg Museum of Natural History — paleontology

KANSAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1959

DEGREES OFFERED: B.A., B.S., M.A., Ph.D.

GRANTED: 9/1/18-8/31/19: 11 Bachelors, 4 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 30 Majors, 7 Masters, 9 Ph.D.

NOT IN RESIDENCE: 4 Ph.D.

HEAD: Charles W. Martin

GRADUATE PROGRAM INFORMATION: Douglas Goodin, Department of Geography, 1002 Seaton Hall, Kansas State University, Manhattan, KS 66506-2904. Telephone (785) 532-6727. Fax (785) 532-7310. E-mail: dgoodin@ksu.edu. Internet: www.ksu.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The program builds from a strong base in three traditional areas of geographic scholarship: human, cultural and regional geography; earth system

geography; and geographic information sciences. Examples of collaboration involve nature-society interactions, population and health, and land change analysis. Rural landscapes and sustainability are the thematic core for the program, consistent with the land grant mission of KSU. Within each area students may pursue research more specific to their individual interests. Within the areas of human, cultural and regional geography, faculty specialties include landscape symbolism, ethnic landscapes, place identity, and religious landscapes. Faculty have regional expertise in North America, Europe, China, South Asia, Latin America, Sub-Saharan Africa, the Great Plains, American West, and in mountainous regions throughout the world. Earth systems geography includes geomorphology, soils, hydrology, biogeography, landscape ecology, paleoecology, climate variability and change, and environmental modeling. Nature-society interactions include studies of human dimensions of environmental change, natural hazards, rural land use and rural change, environmental modeling, water resources, and environmental perception. Population and health geographies include population migration and distribution, spatial patterns of diseases and health outcomes, rural settlement, and sustainable rural communities. Geographic information science includes GIS, remote sensing, spatial modeling, geocomputational and programming methods, Internet GIS, and visualization techniques. Multidisciplinary graduate and undergraduate certificates in GIScience, administered by the department, are also available.

The department has a strong research and teaching reputation and ranks highly among the social and physical sciences at KSU. These strengths have translated into several large grants that support collaborative research between students and faculty. Benefits of the geography graduate program include a balanced curriculum, a broad-based approach to research/scholarship, and a commitment to fieldwork as a component of geographic inquiry. The moderate size of the department fosters an informal, friendly atmosphere with ample opportunity to develop close rapport with faculty members and with visiting research scholars. Department resources include the Geographic Information Systems and Spatial Analysis Laboratory (GISSAL), a remote sensing research lab, a GIS/remote sensing teaching lab, a physical geography teaching lab, and analytical laboratories focused on research in Paleoenvironmental Change and Earth System Science.

The rolling and tree-shaded university campus is located in Manhattan, population approximately 53,000. Manhattan is situated eight miles north of I-70 in an attractive area of the Flint Hills, adjacent to Tuttle Creek Reservoir and Konza Prairie Biological Station, and one hour north of the Tallgrass Prairie National Preserve.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The geography major requires 37 credit hours; either a B.S. or B.A. may be earned. Students may also select the preplanning option that requires an additional twenty-one credit hours of planning-related courses.

GRADUATE: Master's students may pursue either a 30 credit hour thesis option or a 32 credit hour report option. Regular admission to the Graduate School and the Department of Geography requires a 3.0 GPA (4.0 scale), three letters of recommendation, submission of GRE scores, official transcripts, and a one- to two-page statement of interests and objectives. Ph.D. applicants should have attained a score of at least 1100 on the combined verbal and quantitative components of the GRE. Ph.D. students are encouraged to pursue research that fits with the department's core areas and complements the rural and land grant tradition of Kansas State University.

Several nine-month appointments as a Graduate Teaching Assistant or Graduate Research Assistant are available each year on a competitive basis; additional support may also be available for summer months. Full-time GTAs receive a stipend and a full waiver of tuition. GRAs,

supported from geography faculty research grants, receive a stipend and in-state tuition rates. A limited number of competitive Graduate School stipend supplements may also enhance graduate stipends.

FACULTY:

- Marcellus M. Caldas, D.Sc. University of Sao Paulo (Brazil), 2001, Ph.D. Michigan State, 2008, Professor* — land use and land cover change (LULCC), GIS and remote sensing applications to LULCC, biofuel policies, land reform in Latin America
- Douglas G. Goodin, Ph.D., Nebraska, 1993, Professor* — climatology, remote sensing, ecology of infectious disease, spatial analysis and modeling
- Lisa M. Butler Harrington, Ph.D., Oklahoma, 1986, Professor* — rural land use, natural resources, sustainability, nature-society relationships, public lands, hazards, Pacific Northwest, U.S.
- J.M. Shawn Hutchinson, Ph.D., Kansas State, 2000, Professor and Director, GISSAL* — environmental modeling, GIS, remote sensing, water resources, biogeography, computer mapping and visualization, biosecurity
- Audrey J. Joslin, Ph.D., Texas A&M, 2015, Assistant Professor* — environmental governance, political ecology, biodiversity conservation, ecosystem services management, Latin America
- Abigail L. Langston, Ph.D., Colorado, 2014, Assistant Professor* — quantitative geomorphology, landscape evolution modeling, fluvial geomorphology, hydrology, Rocky Mountains
- Max Lu, Ph.D., Indiana, 1996, Professor* — population and health geographies, regional development, spatial analysis and modeling, China
- Charles W. Martin, Ph.D., Kansas, 1990, Professor and Head* — fluvial geomorphology, environmental geography, trace metals in fluvial systems, Germany
- Kendra K. McLauchlan, Ph.D., Minnesota, 2004, Professor* — biogeography, soils, environmental geography, paleoecology, North America
- Katherine S. Nelson, PhD., Vanderbilt, 2018, Assistant Professor* — nature-society relationships, resilience, natural hazards, spatial analysis and modeling
- Bimal K. Paul, Ph.D., Kent State, 1987, Professor* — natural hazards, medical/health geography, population geography, quantitative methods, South Asia, Great Plains
- Jeffrey S. Smith, Ph.D., Arizona State, 1997, Professor* — cultural geography, historical geography, place attachment, migration, American Southwest, Mexico
- Arnaud J.A.M. Temme, Ph.D., Wageningen (Netherlands), 2008, Associate Professor* — geomorphology, soil geography, soil and landscape evolution modelling, mountain soils and geography, Europe
- Jida Wang, Ph.D., UCLA, 2013, Assistant Professor* — remote sensing, GIS modeling, hydrological dynamics

ADJUNCT AND ANCILLARY FACULTY:

- Melinda D. Daniels, Ph.D., Illinois, 2003, Associate Research Scientist at Stroud Water Research Center (Avondale, PA)* — fluvial geomorphology, environmental restoration, stream ecosystems ecology, water resources and environmental management
- Anne Jacquin, Ph.D., French Polytechnic National Institute of Toulouse (INPT), 2010, Researcher and Instructor at INPT-Ecole d'Ingénieurs de Purpan (Toulouse, France)* — remote sensing, GIS, ecosystem and agrosystem processes
- Kamlesh P. Lulla, Ph.D., Indiana State, 1983, Ph.D., Baroda (India), 1977, Chief Scientist for Earth and Imaging Sciences, NASA Johnson Space Center* — environmental geography, land use/land cover, remote sensing, GIS
- M. Duane Nellis, Ph.D., Oregon State University, 1980, President of Ohio University* — remote sensing, land cover analysis, GIS
- Francesco Orsi, Ph.D., Trento (Italy), 2010, Independent Scholar, Bologna, Italy* — spatial modeling, land use and ecosystem services, protected area management, sustainable transportation

Ram Raghavan, Ph.D., Kansas State University, 2011, Assistant Professor (Diagnostic Medicine/Pathobiology) — remote sensing, GIS, spatial epidemiology

Charles W. Rice, PhD, University of Kentucky, 1983, University Distinguished Professor (Agronomy) — soil microbiology, climate change, soil quality

Matthew R. Sanderson, Ph.D., University of Utah, 2008, Professor (Sociology) — globalization, development, migration

David R. Seamon, Ph.D., Clark, 1977, Professor (Architecture) — sense of place, urban social

EMERITI FACULTY:

Kevin Blake

Charles E. Bussing

Karen De Bres Cole

John A. Harrington, Jr.

David E. Kromm

Richard A. Marston

H.L. Seyler

William R. Siddall

UNIVERSITY OF KANSAS

DEPARTMENT OF GEOGRAPHY AND ATMOSPHERIC SCIENCE

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1958

DEGREES OFFERED: B.A., B.S., B.G.S., M.A., M.S.,
Ph.D.

GRANTED 9/1/17-8/31/18: 16 Bachelors, 5 Masters, 6 Ph.D.
STUDENTS IN RESIDENCE: 90 Majors, 11 M.A., 14 M.S.,
33 Ph.D.

NOT IN RESIDENCE: 3 Masters, 2 Ph.D.

CHAIR: Nathaniel Brunsell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Graduate Studies Committee, Department of Geography and Atmospheric Science, University of Kansas, 1475 Jayhawk Blvd., Room 213, Lawrence, Kansas 66045-7613. Telephone (785) 864-5143. Fax (785) 864-5378. E-mail: kugeog@ku.edu. Internet: www.geog.ku.edu.

PROGRAMS AND RESEARCH FACILITIES: The department graduate program emphasizes environment studies, GIS-cartography-remote sensing, and cultural/regional geography. Each is well supported by faculty strength throughout the university and by appropriate laboratory and library facilities. The environment program is composed of physical geography (geomorphology, soils, Quaternary studies, and bio/geochemistry) and atmospheric sciences (meteorology, climatology, and paleoclimatology). The department has specialized research laboratories for soils, sedimentology, palynology, and rock magnetism.

The GIS-cartography-remote sensing program is a highly interconnected unit that builds on pioneering work in cartography and remote sensing begun at Kansas in the 1950s under George Jenks and David Simonett, respectively. The GIS program emphasizes spatial data management, dissemination, geovisualization, and spatial analysis and modeling. Current remote-sensing research includes a wide range of environmental and agricultural issues at scales from small watersheds to continents. Cartographers concentrate primarily on design, visualization, history of cartography, and novel display methods. The department houses its own cartographic and GIS service center. Geographers also are the major participants in the university's remote-sensing applications center.

The cultural/regional programs take advantage of Kansas's well-developed interdisciplinary language and area-studies centers for Africa, East Asia, Latin America, and Russia-East Europe. All four of these centers have been designated National Resource Centers by the U.S. Department of Education during the past decade. The university's American Studies program and its T.R. Smith map collection are similarly regarded as among the best in the nation. Specific strengths within the cultural realm include political economy, development studies, indigenous studies, social theory and historical, humanistic, political, and economic geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Admission to graduate standing requires superior academic performance at the undergraduate level and demonstrated competence in physical, human, and regional geography, and in geographic techniques. GRE scores and an application fee are required. The university follows the two-semester system with nine credit hours as the usual load. Thesis hours, directed readings, and some course work are also offered during an eight-week summer session.

The Geography M.A. and M.S. thesis program requirement is for thirty hours of graduate-level work, including the thesis. Two seminars and distribution requirements are designed to provide a core of training in human/regional, physical, and techniques. These are supplemented by courses in the student's area of interest.

The Atmospheric Science M.S. thesis program requirement is for thirty hours of graduate-level work, including the thesis. The breadth of the program and the diverse research topics explored by the faculty are able to accommodate students with a variety of interests.

A greater degree of specialization is expected for the Geography Ph.D. Sixty hours beyond the M.A. or M.S. are required, including twenty to thirty hours of work on the dissertation. There are various options to satisfy the foreign languages and/or other research skills requirement, including reading knowledge of one foreign language and proficiency in a research skill related to the candidate's area of specialization.

The Ph.D. degree in Atmospheric Science requires a minimum of sixty hours: thirty hours of coursework and thirty hours of dissertation research. Students will acquire a research skill in mathematics, statistics or applied science.

Several sources of financial aid are available to graduate students. Teaching and research assistantships within the department, the Kansas Applied Remote Sensing Program, the Kansas and U.S. Geological Surveys, and the Area Studies Centers are the primary sources of aid; limited funds are also available for the summer period. Other sources of support include Graduate School Honors Fellowships, Dissertation Fellowships, work study, student loans, and the several categories of grants from the Office of Education, the National Science Foundation, and similar organizations.

FACULTY:

David A. Braaten, Ph.D., UC-Davis, 1988, Professor — atmospheric science, climate change, remote sensing

Andrea E. Brookfield, Ph.D., Waterloo, 2009, Assistant Professor — hydrological modeling to simulate flow and contaminant transport

J. Christopher Brown, Ph.D., UCLA, 1999, Professor — political ecology, tropical environments, Latin America

Nathaniel A. Brunsell, Ph.D., Utah State, 2003, Professor — land-atmosphere interactions, remote sensing, micrometeorology

So-Min Cheong, Ph.D., Washington, 2001, Associate Professor — economic, sustainable resources, East Asia

Abel Chikanda, Ph.D., Western University, 2010, Assistant Professor — migration and development, food security and informal economy, Africa

Alexander C. Diener, Ph.D., Wisconsin, 2003, Associate Professor — political, social, cultural, Central Eurasia

Stephen L. Egbert, Ph.D., Kansas, 1994, Professor — remote sensing, geographic information science

Peter H. Herlihy, Ph.D., Louisiana State, 1986, Professor — cultural, historical, Latin America

Jay T. Johnson, Ph.D., University of Hawaii at Manoa, 2003, Professor — cultural geography, comparative Indigenous Nations studies, post-colonialism

Ting Lei, Ph.D., UC-Santa Barbara, 2010, Assistant Professor — GIS, remote sensing, and transportation

Xingong Li, Ph.D., South Carolina, 2000, Professor — geographic information science, spatial analysis, GIS and remote sensing of hydrologic processes

David B. Mechem, Ph.D., Washington, 2003, Professor — cloud microphysics and dynamics, mesoscale processes, numerical modeling, boundary layer clouds

Shannon O'Lear, Ph.D., Syracuse, 1997, Professor — cultural, political, Russia, the Caucasus and Central Asia, environmental policy

Bing Pu, Ph.D., Cornell, 2011, Assistant Professor — climatological modeling and observational analysis of drought, dust interactions and low level jet dynamics

David A. Rahn, Ph.D., Wyoming, 2008, Associate Professor — atmospheric science, mesoscale and synoptic meteorology

Kathryn A. Rhine, Ph.D., Brown, 2010, Associate Professor — cultural, medical, Nigeria, global health

Di Shi, Ph.D., Florida State, 2016, Lecturer and Director of Cartographic Services — remote sensing, land cover mapping, cartography

Justin P. Stachnik, Ph.D., Texas A&M, 2013, Assistant Professor — tropical meteorology, mesoscale precipitating systems, radar and satellite meteorology, cloud physics and dynamics

Pamela L. Sullivan, Ph.D., Florida International University, 2011, Assistant Professor — ecohydrology, hydrogeology, aqueous geochemistry

Cornelius J. van der Veen, Ph.D., University of Utrecht (Netherlands), 1986, Professor — glaciology, ice-climate interactions, global change

Barney Warf, Ph.D., University of Washington, 1985, Professor — economic geography, social theory, urban geography

AFFILIATED FACULTY:

Joseph Brewer, Ph.D., Arizona, 2008, Courtesy Assistant Professor — natural resources management for American Indians & Alaskan Natives, Indian land tenure

Kelly Kindscher, Ph.D., Kansas, 1991, Courtesy Professor — plant community ecology research

Rolfe D. Mandel, Ph.D., Kansas, 1990, Courtesy Professor — soils, geoarchaeology, Quaternary sediments

EMERITI FACULTY:

Leslie Dienes, Ph.D., Chicago, 1968

William C. Johnson, Ph.D., Wisconsin, 1976

George F. McCleary, Jr., Ph.D., Wisconsin, 1969

Robert W. McColl, Ph.D., Washington, 1964

James R. Shortridge, Ph.D., Kansas, 1972

Curtis J. Sorenson, Ph.D., Wisconsin, 1973

Donna F. Tucker, Ph.D., Colorado State, 1987

KENTUCKY

UNIVERSITY OF KENTUCKY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1944

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.S., M.A., Ph.D. in

Geography; online M.S. in Digital Mapping

STUDENTS IN RESIDENCE: 32 B.A./B.S., 7 M.A., 19 Ph.D.

NOT IN RESIDENCE: 1 M.A., 17 Ph.D.

INTERIM CHAIR (2019-20): Matthew Zook

(zook@uky.edu)

ADMINISTRATIVE ASSISTANT: Lori Tyndall

(Geography@uky.edu)

DIRECTOR OF GRADUATE STUDIES: Tad Mutersbaugh

(tad.mutersbaugh@uky.edu)

DIRECTOR OF UNDERGRADUATE STUDIES:

Matthew Wilson (matthew.w.wilson@uky.edu)

CONTACT INFORMATION: 817 Patterson Office Tower, University of Kentucky, Lexington, KY 40506-0027. Telephone: (859) 257-2931; Fax: (859) 257-6277. For more detailed information: <https://geography.as.uky.edu/>.

The Department is known for high quality research and graduate education in human geography, physical geography, and critical GIS/GIScience. Program strengths include close faculty-student interaction, flexibility in designing an appropriate plan of study, and research training seminars. Emphasis at both the MA and PhD levels is placed on theoretical and methodological training, which is closely integrated with students attaining both breadth and depth in substantive domains. Graduate student research is empirically rich, with data usually acquired through fieldwork. The faculty is committed to assisting students in obtaining external research funding and in disseminating research findings through professional journals and conferences. We also offer professional development seminars. Graduate students gain valuable experience as instructors, and they participate actively in departmental service and governance through various committees.

Faculty and student research focuses on interrelated thematic clusters. Research seminars are organized around topics relevant to these clusters, with thematic content varying with current graduate student and faculty interests. Faculty has regional expertise in a variety of domestic and international settings. Students have access to faculty with a variety of methodological expertise. The University supports excellent computational facilities; the department houses computing, GIS, and mapping activities in the Gyula Pauer Center for Cartography & GIS. The WT Young library houses over 2.6 million volumes and supports on-line, full-text journal access. Strong linkages are maintained with interdisciplinary research centers on campus.

ACADEMIC PLAN, ADMISSION, FINANCIAL AID:

UNDERGRADUATE: Semester system. First year admission is based on probable success as indicated from high school grades and ACT results.

GRADUATE: Admission is based on a combination of: undergraduate and graduate grade point averages; scores on the GRE; a written statement of research interests and professional goals; three letters of recommendation. No single criterion is dominant, but the combination must demonstrate the applicant's potential for success in graduate study. Inquiries should be directed to the Director of Graduate Studies.

Information on the formal application process is available at our web site.

The department offers graduate teaching assistantships, which carry a stipend (\$15,800 for the year 2019-20), plus full tuition remission and health coverage. Fellowship support is also available, at the departmental level and through intra-university competitions.

Please visit our website at <https://geography.as.uky.edu/> for full details and descriptions of the department, its faculty, graduate students, research clusters, and related information.

FACULTY:

Betsy Beymer-Farris, Ph.D. University of Illinois at Urbana-Champaign, 2011, Assistant Professor and Director of the Environmental and Sustainability Studies Program — political ecology, gender, climate change, marine and coastal resource use and management, East Africa

Stanley D. Brunn, Ph.D. The Ohio State University, 1966, Professor Emeritus — social and political geography, information and communication, North America, Europe, and Central Asia

Richard Donohue, Ph.D. University of Wisconsin-Madison, 2014, Assistant Professor — cartography, geospatial web technologies, web mapping design

Patricia Ehrkamp, Ph.D. University of Minnesota, 2002, Professor and Chair (2020-21) — political, urban, feminist geography, immigration, citizenship, feminist geopolitics, critical refugee studies

Jen Jack Gieseke, Ph.D. Graduate Center of the City University of New York, 2013, Assistant Professor — cultural geography, geographies of gender and sexuality, digital studies, urban geography, feminist and queer theory

Nick Lally, Ph.D. University of Wisconsin-Madison, 2018, Assistant Professor — critical mapping, algorithms, digital geographies

Liang Liang, Ph.D. University of Wisconsin-Milwaukee, 2009, Associate Professor — bioclimatology, landscape phenology, remote sensing, spatial ecology

Priscilla McCutcheon, Ph.D. University of Georgia, 2011, Assistant Professor — social geography, black geographies, food and sustainable agriculture, U.S. South

Tad Mutersbaugh, Ph.D. University of California-Berkeley, 1994, Professor and Director of Graduate Studies — political ecology, gender & development, agrarian studies, certified commodities, Mexico and Latin America

Lydia Pelot-Hobbs, Ph.D. City University of New York, 2019, Assistant Professor — the carceral state, racial capitalism; Black, feminist, and queer geographies, social movements, the US South

Jonathan Phillips, Ph.D. Rutgers, 1985, Professor — geomorphology, pedology, earth surface systems

Lynn Roche-Phillips, Ph.D. University of Louisville, 2013, Associate Professor — applied geography, urban planning, growth management, and thoroughbred industry

Karl Raitz, Ph.D. Minnesota, 1970, Professor Emeritus — American landscapes, historical geography, U.S., Appalachia, visual methods

Susan Roberts, Ph.D. Syracuse, 1992, Professor and Associate Provost — global political economy, financial capital, development, feminist theories

Michael Samers, D. Phil Oxford University, 1997, Professor — economic and urban geography, immigration, alternative forms of economic development, international finance, France, European Union, US

Theodore R. Schatzki, Ph.D. University of California, Berkeley (philosophy), 1986, Professor — social ontology, theories of human activity, philosophy of social science, 20th-century continental thought

Richard Schein, Ph.D. Syracuse, 1989, Professor and Associate Dean — cultural landscapes, urban geography, U.S. historical geography

Nari Senanayake, Ph.D. Penn State University, 2018, Assistant Professor — critical health geographies, political ecology, South Asia

Gary Shannon, Ph.D. Michigan, 1970, Professor — medical geography: disease ecology, health services delivery, telemedicine, global dynamics of health and disease

Boyd Shearer, M.A., University of Kentucky, 1999, Lecturer — cartography and design, GIS and GPS, scenic landscape analysis, weather and climate, public parks, web mapping

Tony Stallins, Ph.D. University of Georgia, 2000, Associate Professor — biogeography, complexity, climate change, political ecology, science and technology studies

Alice Turkington, Ph.D. Queens University-Belfast, 1999, Associate Professor — geomorphology, weathering, urban environments, applied geomorphology

Andrew Wood, Ph.D. Ohio State, 1993, Associate Professor — economic geography, urban studies, politics of local economic development

Matthew W. Wilson, Ph.D. University of Washington, 2009, Associate Professor and Director of Undergraduate Studies — critical GIS, urban political geography, science and technology studies

Matthew Zook, Ph.D. University of California, Berkeley, 2001, Professor and Interim Chair — digital geographies, urban technologies, financial geography, geosocial media, big data

GYULA PAUER CENTER FOR CARTOGRAPHY AND GIS:

Jeff Levy, M.P.H. Kentucky, 2018, GIS Program Coordinator — GIS and applications in public health, planning, transportation, and historical research

AFFILIATED AND ADJUNCT FACULTY:

William Andrews, Ph.D. Kentucky, 2004, Kentucky Geological Survey — geomorphology, Quaternary mapping, physiography, fluvial erosion

Oliver Fröhling, MA, University of Nebraska-Lincoln, 1993, Director, Centro de Encuentros y Diálogos Interculturales (CEDI), Oaxaca, Mexico — development and anti-development, NGOs, regional autonomy movements in Mexico

Daniel Marion Ph.D. University of Iowa, 2001, U.S. Forest Service — hydrology, stream channel morphology, forest ecosystems, soils

Graham D. Rowles Ph.D. Clark 1976, Professor and Director, Graduate Center for Gerontology — aging and the elderly, social, rural, qualitative research methods

John F. Watkins Ph.D. Colorado, 1986, Associate Professor — population, aging and the elderly, migration, Appalachia

UNIVERSITY OF LOUISVILLE

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES

DATE FOUNDED: 1972

DEGREES OFFERED: B.S. in Applied Geography; M.S. in Applied Geography

GRANTED 7/1/17-6/30/18: 32 Bachelors; 5 Masters

MAJORS: 137

CHAIR: David A. Howarth

DEPARTMENT BUSINESS MANAGER: Sharon M. O'Bryan

CONTACT INFORMATION: Department of Geography and Geosciences, University of Louisville, 206 Lutz Hall, Belknap Campus, Louisville, Kentucky 40292. Telephone (502) 852-6844. Fax (502) 852-4560. For more information visit: www.louisville.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department offers B.S. and M.S. degrees in Applied Geography. B.S. students

choose one of four tracks: Urban Analysis, Environmental Analysis, Geospatial Technologies, and Human and Cultural Dynamics. The B.S. degree has a common core consisting of Global Environment, Power of Place, Globalization and Diversity, Introduction to Mapping and Geospatial Technologies, Sustainable Human Environments, Quantitative Analysis, Research Methods, and Senior Thesis. Advanced specialization courses include Climatology, Geomorphology, Geopolitics, Qualitative Methods, Hydrology, Medical Geography, Remote Sensing, GIS, Programming for GIS and Spatial Data Analysis, Transportation, Locational Analysis, GIS and urban demographic analysis. Majors have found employment in nearby private or public agencies, or are pursuing graduate studies.

The M.S. curriculum is a two-year program of study for full-time students. Foundation courses for the degree include History of Geography, Advanced Spatial Statistics, Approaches and Methods in Applied Geography, Qualitative Analysis, and Proposal Development. Thesis and non-thesis options are available.

The department enjoys a good relationship with local government and has an active internship program with several agencies. The department houses the University's Center for Geographic Information Sciences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to Admissions Office at the University.

FACULTY:

- C. Andrew Day, Ph.D., Texas State, Associate Professor* — climate change, land cover change, hydrology/water resources, sustainability of physical systems
- Andrea Gaughan, Ph.D., Florida, Associate Professor* — human-environment dynamics, land systems, population mapping, remote sensing, spatial modeling
- Jafar Hadizadeh, Ph.D., Imperial College, Great Britain, Professor* — structural geology and rock mechanics
- David A. Howarth, Ph.D., Ohio State, Professor* — climatology, short term climate variability, meteorology, urban climatology, geography education
- Carrie Mott, Ph.D., University of Kentucky, Assistant Professor* — race, settler colonialism, reclamation, justice, borderlands, pedagogy, micropolitics, political geography, feminist geography, historical geography, the US West
- Jason Naylor, Ph.D., North Dakota, Assistant Professor* — meteorology, severe weather, tornadoes, numerical weather prediction, storm-scale modeling
- Maegen Rochner, Ph.D., University of Tennessee, Assistant Professor* — dendrochronology, biogeography, geomorphology, climate change, human-environment interaction
- Wei Song, Ph.D., Ohio State, Professor* — transportation and location analysis, urban and regional studies, GIS applications, quantitative methods, China
- Forrest R. Stevens, Ph.D., University of Florida, Assistant Professor* — integrated modeling and quantitative spatial analyses, land systems science, remote sensing, rural lands and livelihoods
- Margath A. Walker, Ph.D., Kentucky, Associate Professor* — urban geography, social theory, qualitative research methodology, border security, Latin America
- Hai Feng (Charlie) Zhang, Ph.D., South Carolina, Associate Professor* — crime mapping, health geography, GIS, spatial analysis methods, China

ASSOCIATE AND EMERITI FACULTY:

- John L. Anderson, Ph.D., Kentucky, 1974, Assistant Professor*
- Don E. Bierman, Ph.D., Michigan State, 1970, Professor Emeritus*
- Terra A. Clarke, Ph.D., UC, Riverside, 1977, Professor Emerita*
- K. Lal Gauri, Ph.D., Bonn, 1964, Professor Emeritus*
- George A. Lager, Ph.D., British Columbia, 1975, Professor Emeritus*
- Clara A. Leuthart, Ph.D., Louisville, 1975, Professor Emerita*

Keith R. Mountain, Ph.D., Ohio State, 1990, Professor Emeritus
Dennis L. Spetz, Ed.D., Indiana, 1971, Professor Emeritus

LOUISIANA

LOUISIANA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1928

GRADUATE PROGRAM FOUNDED: 1933

DEGREES OFFERED: BA, BS, MS and PhD in Geography;

BA, MA, and PhD in Anthropology

GRANTED 7/1/17 – 6/30/18: 49 Bachelor's, 15 Master's, 11

PhD (Geography and Anthropology)

STUDENTS IN RESIDENCE: 148 Majors, 33 Master's, 51

PhD (Geography and Anthropology)

CHAIR: Fahui Wang

ASSISTANT TO THE CHAIR: Linda Strain

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Graduate Director (E-mail: gradsec@lsu.edu), Department of Geography & Anthropology, Louisiana State University, Baton Rouge, Louisiana 70803. Telephone (225) 578-5942. Fax (225) 578-4420. E-mail: gachair@lsu.edu. Internet: www.ga.lsu.edu.

PROGRAMS AND RESEARCH FACILITIES: Geography at LSU explores the environmental and spatial relations of nature and culture through field, archival, qualitative, and quantitative research. The bi-disciplinary Department of Geography & Anthropology offers four degree programs in geography. The geography BS and BA programs provide the full range of geographical instruction appropriate to a liberal arts and science education; the geography MS program accents breadth of professional geographical training; the geography PhD program trains high-quality teachers, researchers, and administrators in all aspects of geographical sciences with specialized research and scholarship in physical geography, human geography, and mapping sciences.

Inquiry focuses on: *Physical Geography* - synoptic climatology, hydroclimatology, paleoclimatology, hydrology, and fluvial and coastal geomorphology and resources; *Human Geography* - cultural, cultural ecology, historical, settlement, and environmental, transportation, crime, health, urban; *Geographic Information Science (GIS)* - computer cartography, aerial photography, remote sensing, spatial analysis, and geographic information systems. Latin America is our most studied region. Current faculty and graduate students also conduct field research in North and Central America, Central and East Asia, Africa, and Europe.

Resources and facilities at LSU are ample and varied. LSU's Middleton Library with over 2.5 million volumes, 3.4 million microforms, and more than 7 million manuscripts is especially strong in geography and anthropology (<http://www.lib.lsu.edu/>). The department's Cartographic Information Center (CIC), one of the nation's largest academic map libraries, houses more than 500,000 maps and aerial photographs (<http://www.cic.lsu.edu/>). In addition to the CIC, the department's GIS concentration is supported by two GIS laboratories. Facilities for research include laboratories for historical, cultural and linguistic analysis; geomorphology; material culture; paleoclimatology (PAST Lab); and archaeology; as well as a 3D Digital Imaging Lab, the FACES Lab, the Louisiana Office of State Climatology, and the Southern Regional Climate Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Selection is based on compatibility of interests with departmental programs, as well as grades, letters of recommendation, and Graduate Record Examination scores. For regular admission, the LSU Graduate School requires an undergraduate grade point average of at least 3.0. To be competitive for financial aid an applicant should exceed these minimum requirements.

Graduate Assistantships (nine months) start at \$12,750 for– master’s and \$15,050 for– PhD. Pruitt assistantships start higher. Regents (\$12,000-\$20,000) and Perkins Diversity Fellowships (\$18,000) are available to outstanding PhD applicants. Grants for fieldwork (\$200 - \$1,500) are available each year through the Robert C. West Field Research, and R.J. Russell and Materials awards (<http://www.ga.lsu.edu/>).

FULL-TIME FACULTY:

John M. Anderson, MLIS, Louisiana State University, 1995, Associate Librarian, Director of the Cartographic Information Center — historical maps, U.S. Geological Survey, U.S. Coast and Geodetic Survey, Louisiana, battlefields

Mary Jill Brody, PhD, Washington, 1982, Doris Z. Stone Professor — linguistics, discourse analysis, anthropology, Mayan languages

Juliet K. Brophy, PhD, Texas A&M, 2011, Assistant Professor — hominin evolution, craniodental morphometric analyses, paleoenvironmental reconstruction, elliptical fourier analysis, taphonomy, southern Africa

David Chicoine, PhD, University of East Anglia, 2007, Associate Professor and Graduate Director — archaeological anthropology, complex societies, Central Andes, coastal Peru, early urbanism, material culture, foodways, architecture, visual arts, funerary practices

Craig E. Colten, PhD, Syracuse, 1984, Carl O. Sauer Professor — historical, environmental, American South

Kristine L. DeLong, PhD, University of South Florida, 2008, Associate Professor — paleoclimate, tropical climate variability, time series analysis, Gulf of Mexico/Caribbean and southwest Pacific

Alex Haberlie, PhD, Northern Illinois University, 2018, Assistant Professor — climate change, atmospheric hazards, machine learning, digital image processing, model evaluation

Joyce M. Jackson, PhD, Indiana, 1988, Professor — Ethnomusicology-folklore; sacred and secular rituals in Africa and the African Diaspora; performance centered studies; carnivalesque identities; Southern U.S.; New Orleans, Louisiana

Barry Keim, PhD, Louisiana State University, 1994, Richard J. Russell Professor and Louisiana State Climatologist — climatic change, extreme events, hydroclimatology, climate data

Kory Konsoer, PhD, University of Illinois, Urbana-Champaign, 2014, Assistant Professor, LSU Coastal Studies Institute (CSI) Fellow — fluvial geomorphology, sediment transport, river hydraulics, watershed hydrology

Michael Leitner, PhD, SUNY-Buffalo, 1997, Professor — spatial analysis and GIS, computer cartography, Europe

Ginesse A. Listi, PhD, Tulane, 2008, Assistant Professor-Research, Director FACES Lab — physical and forensic anthropology

Brian Marks, PhD, University of Arizona, 2010, Assistant Professor — Political geography, economic geography, fisheries and aquaculture, Southeast Asia, U.S. Gulf Coast

Kent Mathewson, PhD, Wisconsin, 1987, Fred B. Kniffen Professor — cultural, historical, cultural ecology, history of geography, Latin America, American South

Heather McKillop, PhD, California-Santa Barbara, 1987, Thomas and Lillian Landrum Alumni Professor — coastal and underwater archaeology, Maya, Belize, 3D Digital Imaging and 3D Printing

Shelley Xuelian Meng, PhD, Texas State University, San Marcos, 2010, Associate Professor, LSU Coastal Studies Institute (CSI) Fellow — Topographic mapping and costal morphology, LiDAR and UAV, land dynamics analysis, image processing and feature extraction

Steven Namikas, PhD, Southern California, 1999, Associate Professor — coastal and aeolian geomorphology, sediment transport, environmental monitoring and modeling

Micha Rahder, PhD, UC Santa Cruz, 2014, Assistant Professor — science and technology studies, environmental anthropology, tropical forest conservation, political ecology, more-than-human worlds

Helen A. Regis, PhD, Tulane, 1997, Associate Professor — cities, public space, tourism, cultural heritage, race, ethnographic methods, collaborative anthropology, North America, African Diaspora

Kevin Robbins, PhD, North Carolina State, 1987, Associate Professor, Director of the Southern Regional Climate Center — agricultural climatology

David Sathiaraj, PhD, Louisiana State University, 2013, Assistant Professor-Research/Associate Director SRCC — big data analytics for geosciences, spatiotemporal data mining, climate informatics, data science and engr.

Rebecca Saunders, PhD, Florida, 1992, William G. Haag Professor of Archaeology and Associate Professor and Associate Curator of Anthropology, Museum of Natural Science — contact period studies, southeastern U.S. prehistory, costal adaptations, and pottery analysis

Andrew Sluyter, PhD, Texas, 1995, Professor — historical, cultural and political ecology; place, landscape, ethnicity and social theory; Latin America, the Caribbean and Louisiana

Robert Tague, PhD, Kent State, 1986, Earlene Nolan Sanders Alumni Professor — physical anthropology, paleodemography, osteology, and reproductive biology

Jill Trepanier, PhD, Florida State University 2012, Associate Professor — Statistical climatology, tropical cyclones, extreme climate events, societal risk

Lei Wang, PhD, Texas A&M, 2006, Associate Professor — GIS, quantitative methods, terrain and hydrological analysis, remote sensing

Fahui Wang, PhD, Ohio State, 1995, James J. Parsons Professor and Department Chair — urban, economic, and transportation geography, public policy (health, crime) and planning, GIS, quantitative methods

Teresa Wilson, PhD, Arkansas, 2014, Assistant Professor-Research — FACES Lab, forensic anthropology and bioarchaeology

ADJUNCT FACULTY:

Alan W. Black, PhD, Georgia, 2015, Assistant Professor-Research — climatology, climatic change, atmospheric hazards, extreme events

DeWitt Braud Jr., Director, Academic Area, Coastal Studies Institute
Kerry R. Chance, PhD, University of Chicago, 2011, Assistant Professor — cultural, political, legal and Africanist anthropology
Linda Scott Cummings, PhD, Colorado, 1989, Director of Paleo Research Institute

Dydia DeLyser, PhD, Syracuse, 1998, Associate Professor — landscape and social memory, cultural, historical, urban, gender, qualitative methods and academic and professional writing

Brooks Ellwood, PhD, Rhode Island, 1977, Professor of Geology & Geophysics — geophysics, stratigraphy, geoarchaeology, magnetic/geophysical/geoarchaeological studies in Europe, Africa, Asia and North America

Elizabeth Graham, PhD, Cambridge, 1938

Diana M. Greenlee, PhD, Washington, 2002, Assistant Professor — Poverty Point Station Archaeologist

Joon Heo, PhD, University of Wisconsin-Madison, 2001

Charles McGimsey, PhD, S Illinois University Carbondale, 1995, State Archaeologist — Southeastern archaeology

Mark A. Rees, PhD, Oklahoma, 2001, Professor — archaeology

Charles Wayne Smith, PhD, Texas A&M, 1995, Associate Professor — historical archaeology, artifact conservation, visual anthropology, digital imaging

EMERITI FACULTY:

Jay D. Edwards, PhD, Tulane, 1970, Professor Emeritus — cultural anthropology, folklore, vernacular architecture, Caribbean and Louisiana

Patrick Hesp, PhD, Sydney, Australia, 1982, Professor Emeritus — coastal geomorphology, coastal and desert dune morphodynamics, coastal zone management

Anthony J. Lewis, PhD, Kansas, 1971, Professor Emeritus — remote sensing, physical, geomorphology, air photo

Richard H. Kesel, PhD, Maryland, 1971, Professor Emeritus — geomorphology, soils, biogeography

Robert A. Muller, PhD, Syracuse, 1962, Former Director, Southern Regional Climate Center — climatology, hydrology, synoptic meteorology, North America

AFFILIATED FACULTY AND STAFF:

Maria Allaire, MA, Louisiana State University, 2002, Research Associate — FACES Lab, Louisiana Repository for Missing Persons and Unidentified Remains

Kyle Brehe, MS, S. Dakota School of Mines, 2007, Research Associate and Services Climatologist — climatology

Luke Driskell, MS, Louisiana State University, 2010, Computer Analyst

Larry Livaudais, MFA, University of Florida 1996, Imaging Specialist/Research Associate — FACES Lab, facial reconstruction

Emily F. Wieggers, MA, Louisiana State University, 2017, Laboratory Assistant-Research Associate — FACES Lab

MAINE

UNIVERSITY OF SOUTHERN MAINE

GEOGRAPHY-ANTHROPOLOGY PROGRAM

DATE FOUNDED: 1971

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 11 Bachelors

MAJORS: 44

CHAIR: Lydia Savage

DEPARTMENT ADMINISTRATIVE ASST: Peter S. Witham

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: University of Southern Maine, 300 Bailey Hall, 37 College Ave., Gorham, Maine 04038. Telephone (207) 780-5321. Fax (207) 780-5167; (Muskie School of Public Service) (207) 780-4847. Internet: www.usm.maine.edu/gany, <http://usm.maine.edu/gis/>

PROGRAMS AND RESEARCH FACILITIES: The Geography-Anthropology program is part of the Muskie School of Public Service, is affiliated with the Osher Map Library and Smith Center for Cartographic Education, and is the home of USM-GIS. It offers a 36-39 credit hour interdisciplinary undergraduate degree in which students combine both disciplines to study human-environment interrelationships. Students are encouraged to complete an internship or to complete a field school as part of their course of study. They may concentrate in one of three tracks: Sustainable Cultures; Communities; Cultural; Natural Heritage Management, or; Applied GIS and Geospatial Analysis. Geography-Anthropology Teacher

Education tracks for both elementary and secondary education are available. Minors are available in anthropology, archaeology, geography, planning and GIS. Students can also earn a 12-14 credit Certificate in Applied GIS. Students can also opt to apply for an accelerated admissions Master's degree in Planning Policy and Management.

The Bachelor of Arts in geography-anthropology emphasizes the integration of the two disciplines and the common interests in examining the relationship between human populations and their natural and built environments. The major is an interdisciplinary degree program. Students enrolled in the major may specialize in any one of three tracks in: (1) Sustainable Cultures and Communities; (2) Cultural and Natural Heritage Management; or (3) Applied Geographic Information Systems (GIS) and Geospatial Analysis. The undergraduate BA in Geography-Anthropology (GYA) and graduate Master's in Policy, Planning, and Management (MPPM) programs in the Muskie School of Public Service offer an accelerated undergraduate-graduate degree pathway for prospective students. The close disciplinary connections between these programs and their focus on the relationship between human populations and their natural and built environment, sustainability, community development, policy and planning allow for a unique undergraduate-graduate educational opportunity.

The major thrust of the program's work at all levels, from teaching to research, is in developing and applying disciplinary skills to real world problem-solving. Six dedicated Geography, GIS and Archaeology laboratories and an array of field equipment support this effort.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: The undergraduate academic semester of 12 to 15 hours for full-time status is the current organizational system. Admission requirements are two-track with high school diplomas and adequate SAT scores for traditional students and open admissions with remedial help available for others. Financial aid is available for those who qualify.

FACULTY:

Matthew Bampton, Ph.D., Clark, 1992, Professor — GIS, human-environment interaction, geomorphology

Marcia-Anne Dobres, Ph.D., University of California at Berkeley, 1995, Lecturer — gender, race, agency, technology, Ice Age art, museums, anthropology of indigenous visual culture, and history and sociopolitics of archaeology

Matthew Edney, Ph.D., Wisconsin-Madison, 1990, Professor and Faculty Scholar, Osher Map Library and Smith Center for Cartographic Education — history of cartography, history of geography, historical geography

Nathan D. Hamilton, Ph.D., Pittsburgh, 1985, Associate Professor — Northeast prehistory, Andean Peru prehistory, maritime adaptation, quantitative methods

Sarah Lockridge, Ph.D., American University, 2008, Lecturer — gender, economics, development and tourism, indigenous rights, race, ethnicity, nation, and global climate change

Firooz Pavi, Ph.D., Ohio State University, 1999, Professor — human-environment interactions, landscape change, remote sensing/GIS

Lydia A. Savage, Ph.D., Clark, 1996, Professor — social geography, urban geography, gender issues, labor unions

Mark Swanson, Professor, PhD, North Eastern, 1975 — structural geology, field mapping, GIS, drone survey

Vinton Valentine, Ph.D., University of Delaware, 2003, Adjunct Professor; Director of GIS — GIS, remote sensing, free & open source geospatial software, coastal and marine geography

EMERITI:

Diana C. Crader, Ph.D., UC, Berkeley, 1981, Associate Professor — African prehistory, zooarchaeology, human evolution

Dave D. Davis, Ph.D., Yale, 1975, Professor — archeology, material culture theory, West Indies
Franklin D. Hodges, M.A. Clark, 1966, Associate Professor — geography of Maine, economic geography
Judy Tizon, Ph.D., UC, Santa Barbara, 1975, Associate Professor — cultural anthropology, culture theory, victims of progress, women in cross cultural perspective

MARYLAND

FROSTBURG STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1964

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/17-8/31/18: 19 Bachelors

MAJORS: 85

CHAIR: Richard A. Russo

DEPARTMENT ADMINISTRATIVE ASST: Gale A. Yutzky

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, Frostburg State University, 101 Braddock Rd., 201 Gunter Hall, Frostburg, Maryland 21532. Telephone (301) 687-4369 or 4053. Fax (301) 687-4495. E-mail: rarusso@frostburg.edu. Internet: www.frostburg.edu/dept/geog/.

PROGRAMS AND RESEARCH FACILITIES: Programs available are a major in Geography with concentrations in Mapping and Geospatial Sciences, Global Systems Analysis, Climate Science, a major in Earth Science with an Environmental Science concentration and a Teaching Certification option, and a major in Environmental Analysis and Planning. An internship program is available with a variety of local, state and federal agencies and firms. The department strives to provide students with a balance of academic and applied preparation.

The department's classrooms, laboratories, and offices are located in a building complete with wireless internet service. Departmental resources include surveying equipment complemented by seven total stations and data collectors, a map library housing a variety of topographic and thematic maps, a soils lab, and rock and mineral specimens. The department houses three well-equipped networked computer labs for geographical data processing. The Environmental Engineering, Geographic Visualization, GeoProcessing, and GiScience labs combined contain a total of 37 workstations, two 42" plotters, one 60" plotter, one 42" scanner, and 2 large-format digitizing tablets. Other peripherals include color printers, laser jet printers, small-scale format scanners, and table-top digitizing tablets. Software available to students includes ESRI's suite GIS software, AUTOCAD, ENVI, Adobe Illustrator, SPSS and Surfer.

The Department operates with the Western Maryland Regional Geographic Information Center geared to research grants and contracts. The Ort Library has federal repository status and maintains a collection of maps, government documents, and geographic journals.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission or financial aid is available from the Office of Admissions. SAT scores are required.

FACULTY:

Phillip P. Allen, Ph.D., Coventry University, UK, 2005, Associate Professor — physical geography (Quaternary period; last 2.5 million years), historical geology, physical geology, soils genesis and characterization, geomorphic evolution of landscapes, especially in upland and cold climate regions
Tianna A. Bogart, Ph.D., Delaware, 2013, Assistant Professor — climatology, global climate modeling, land-atmosphere interactions, and data bias
Jonathan M. Flood, Ph.D., Texas at Austin, 2016, Assistant Professor — hydrology, geoarchaeology, paleoenvironments, geochemistry, human ecology
Francis L. Precht, Ph.D., Georgia, 1989, GISP, Professor — biogeography, GIScience, conservation
Matthew E. Rampott, Ph.D., 2006, Kansas, Associate Professor — remote sensing, image interpretation, geographic data handling, environmental geography
Richard A. Russo, Ph.D., 2009, Maryland, Associate Professor — cultural, regional and urban geography, linguistic minorities, geography of food
James C. Saku, Ph.D., 1995, Saskatchewan, Professor — economic development, North America, human, quantitative analysis, locational analysis, transportation, Sub-Saharan Africa
William A. Wetherholt, Ph.D., 2016, Kansas State, Assistant Professor — rural geography, place attachment, critical cartography, privacy and ethics in GiSci, qualitative methods, geographic education

LECTURERS:

Tracy L. Edwards, M.A., Syracuse, 2010, Lecturer — human and physical geography, sustainability studies
Adam P. Lewis, M.Ed., Frostburg State, 1994, Lecturer — human, physical and world regional geography

EMERITI:

Henry W. Bullamore, AICP, Ph.D., Iowa, 1978, Professor — urban, land use, regional planning, research methods, tourism
Craig L. Caupp, Ph.D., Utah State, 1986, Professor — land development and reclamation, environmental impact assessment, water quality modeling, environmental law
James V. Cotton, Ed.D., Pennsylvania State, 1958, Professor Emeritus — North America, economic and human geography
Donald W. Duckson, Jr., Ph.D., Colorado, 1979, Professor Emeritus — fluvial geomorphology, hydrology, environmental monitoring and evaluation, surveying, physical geology, and earth-science education
Charles J. Farmer, Ph.D., Maryland, 1984, Professor Emeritus — historical geography, human geography
William Nizinski, M.S., Pennsylvania, 1956, Associate Professor Emeritus — cartography, remote sensing, aerial photo interpretation
John M. Riley, Ph.D., Maryland, 1978, Professor Emeritus — economic geography, conservation, physical geography, geographic education, Maryland and Russia
Thomas W. Small, Ph.D., Wisconsin-Madison, 1973, Professor Emeritus — glacial and pleistocene geomorphology, soils genesis and characterization, soil analysis, historical geology

SALISBURY UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOSCIENCES

DATE FOUNDED: 1955

DEGREES OFFERED: B.S. in Geography; B.S. in Earth Science; B.S. in Urban and Regional Planning; M.S. in GIS Management

GRANTED 9/1/17-8/31/18: 43 Bachelors, 12 Masters

MAJORS: 101 Geography; 53 Earth Science; 18 Urban and Regional Planning; 12 Masters

CHAIR: Daniel W. Harris

PROGRAM MANAGEMENT SPECIALIST: Jennifer Horsman

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Geosciences, Salisbury University, 1101 Camden Ave., Salisbury, Maryland 21801. Telephone (410) 543-6460. Fax (410) 548-4506. E-mail: dwharris@salisbury.edu Internet: www.salisbury.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Departmental program emphasizes geographic concepts, techniques, skills and their application to the solution of environmental, land use and public planning problems. There are five tracks in the undergraduate Geography major: Atmospheric Science, Geographic Information Science, Human Geography, Physical Geography, and General Geography. The Department also offers a major in Earth Science, including a General Earth Science track and tracks in Secondary Education, Marine Geosciences, and GeoEnvironmental Science and a major in Urban and Regional Planning, with tracks in Land Use Planning and Environmental Planning. An internship program is available for interested students. As a student-centered department, the faculty concentrates on high quality teaching and advising, and active engagement in undergraduate research while maintaining an open-door policy. The Department offers a Master of Science in GIS Management (MSGISM). The MSGISM program is a professional science master's degree, where students focus equally on the science and management of GIS technology. Targeted particularly at practitioners in the public sphere, the program is all on-line. For more information, please see www.salisbury.edu/geography/msgism.

The Department is in the endowed Richard A. Henson School of Science and Technology, and is housed in Henson Science Hall, offering well-equipped "smart" classrooms and modern laboratory facilities. The Department maintains its own computer laboratory, equipped with 48 computers, color and laser printers, plotters, and scanners. We have site licenses for ESRI, Manifold GIS, ENVI and MATLAB products and have a variety of digital image processing and cartographic software. The Department has laboratories dedicated to Physical Geography and Geology for instruction and research, three unmanned aerial vehicles, a 12,000 sheet (USGS Depository) topographic map collection, a server devoted to spatial data, and a large rock and mineral collection. The Zeta Eta Chapter of Gamma Theta Upsilon, the Geographic Society, the Smart Growth Club and the AMS Student Chapter are available for extracurricular participation. The Department's Eastern Shore Regional GIS Cooperative conducts grant and contract work in GIS, remote sensing, and cartography and frequently employs geography majors.

Salisbury University is located on U.S. Route 13 in Salisbury, MD, which has a metropolitan population of 80,000 and lies 30 miles west of Ocean City, MD; 115 miles southeast of Baltimore and Washington, D.C.; and, 125 miles south of Philadelphia.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System, Applications for admission and/or financial aid should be made to the Admissions Office. MSGISM: year-round instruction and rolling admission. Application must be made to SU Graduate School. See website (above) for details and admission forms.

FACULTY:

Amal K. Ali, Ph.D., Florida State University, 2002, Professor — land use planning, urban policy, smart growth

Gina Bloodworth, Ph.D., Pennsylvania State University, 2005, Associate Professor — resource management, water resources, environmental policy & law

Thomas R. Cawthern, Ph.D., University of New Hampshire, 2013, Associate Professor — geochemistry, sedimentology, stratigraphy, marine geology

Mara Chen, Ph.D., University of Iowa, 1992, Professor — remote sensing, environmental geology, GIS, geosciences education

Mark de Socio, Ph.D., University of Cincinnati, 2005, Associate Professor — economic geography, political geography, regional economic development, business-state relations

Stuart Hamilton, Ph.D., University of Southern Mississippi, 2012, Associate Professor — GIS, remote sensing, land cover change

Daniel W. Harris, Ph.D., University of Maryland, 2012, Associate Professor and Department Chair — physical geography, geoscience education, GIS

Arthur J. Lembo, Jr., Ph.D., SUNY College of Env. Sci. & Forestry, 1997, Professor — GIS, spatial modeling, extreme event monitoring, cartography, mapping science, quantitative methods

Fulbert Namwamba, Ph.D., Iowa State University, 1998, Professor — geology, water resources and environmental studies

Darren B. Parnell, Ph.D., University of South Carolina, 2005, Professor — climatology, meteorology, quantitative methods

Andrea Presotto, Ph.D., University of Georgia, 2015, Visiting Assistant Professor — GIS, remote sensing, animal movement and spatial cognition

Craig A. Ramseyer, Ph.D., University of Georgia, 2016, Assistant Professor — climatology and meteorology

Michael S. Scott, Ph.D., University of South Carolina, 1998, Professor and Interim Dean — GIS, environmental hazards, cartography

Keota Silaphone, ABD, University of Maryland, Lecturer — GIS, terrestrial nutrient inputs, watershed planning

Brent R. Skeeter, Ph.D., University of Nebraska-Lincoln, 1988, Professor and Associate Chair — climatology, meteorology, research methods

Vanessa Smullen, ABD, University of Maryland, Lecturer — physical geography, environmental engineering, groundwater, physical science

Brent J. Zaprowski, Ph.D., Lehigh University, 2001, Professor — geomorphology, coastal processes, sediment analysis, geoscience education

TOWSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL PLANNING

DATE FOUNDED: 1955

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A., B.S., M.A., Combined B.A or B.S / M.A.

GRANTED: 9/1/16-8/31/17: 30 Bachelors, 8 Masters

STUDENTS IN RESIDENCE: 88 Majors, 15 Masters

CHAIR: Charles Schmitz (cschmitz@towson.edu)

GRADUATE COORDINATOR: Todd Moore (tmoore@towson.edu)

FOR CATALOG AND FURTHER INFORMATION: Check the department website at www.towson.edu/geography.

CONTACT INFORMATION: Department of Geography and Environmental Planning, Towson University, 8000 York Rd., Towson, Maryland 21252. Telephone (410) 704-2973. E-mail: cschmitz@towson.edu.

PROGRAMS AND RESEARCH FACILITIES: Towson University offers a major and a minor in Geography and Environmental Planning, a major in Geography and Land Surveying in partnership with the Community College of Baltimore County-Catonsville, a minor in Geographic Information Sciences, and a minor in Climate, Weather and Society. In addition, the department offers a

combined bachelor's / master's program for academically qualified students that enables them to complete both degrees in five years. In addition to coursework, students may participate in directed research, internships, service learning, study away, and travel study. An up-to-date computer lab serves the department's needs in the areas of GIS, statistical analysis, digital cartography, air photo and remote sensing. Among the department's resources are a physical geography lab, and a remote weather station that serves the university and is linked to the National Weather Service. Towson University is situated just north of Baltimore city, placing it within easy driving distance of Washington, D.C. and Philadelphia with their major research assets. Annapolis is only thirty minutes away. In addition, a number of other universities and colleges, with their complementary facilities, are located in and around metropolitan Baltimore. Teaching excellence is a hallmark of the University and of the Department.

MASTER'S PROGRAM: The program is designed to provide a broad mastery of the field through a balanced curriculum of topical and regional studies with research experiences. Requirements for the M.A. are the successful completion of 36 semester hours for the non-thesis option or 30 semester hours plus a 6-credit thesis. Most courses are taught during the evening hours, and most graduate students are part-time students. Each year the department supports two to three graduate assistants.

UNDERGRADUATE ADMISSIONS AND FINANCIAL AID: Admission to the university is essentially based on evaluation of high school records and the SAT1 or ACT tests. A number of financial aid programs are available; for further information contact: Financial Aid Office, Towson University, 8000 York Road, Towson, Maryland 21252. Telephone (410) 704 4236. <http://onestop.towson.edu/finaid/>

GRADUATE ADMISSIONS AND FINANCIAL AID: Semester system. Admission is based on evaluation of individual applicant's experience, letters of recommendation (minimum of two) and a transcript of previous course work. Admission is competitive; a minimum of two undergraduate geography courses with a G.P.A. of 3.0 or higher is required for full admission.

FULL-TIME FACULTY:

Kent Barnes, Ph.D., Rutgers, 1984, Professor — Natural and technological hazards, environmental planning and impact analysis, quantitative methods, Australia and New Zealand
Natasha Fath, Ph.D., Moscow State University, Lecturer — Russia, environmental geography, physical, world regional
Kelsey Hanrahan, Ph.D., University of Kentucky, 2015, Assistant Professor — Development and Livelihoods, Gender and Ageing, Families and Intergenerational Relationships, Feminist Geographies, Geographies of Care, Sub-Saharan Africa, Qualitative Methodologies
Sya Buryn Kedzior, Ph.D. University of Kentucky, 2011, Associate Professor — Pollution knowledge and hydropolitics in the Ganges River Basin
Kang Shou Lu, Ph.D., Clemson, 2001, Professor — Spatial analysis, landuse planning, tourism management, GIS
Alan Marcus, Ph.D., University of Massachusetts - Amherst, 2008, Associate Professor — Brazil, Latin America, Migration, Race, Cultural Geography, Ethnic Geography
Todd W. Moore, Ph.D., Texas State University-San Marcos, 2013, Associate Professor — Severe weather hazards and climate change
John M. Morgan III, Ph.D., Maryland, 1980, Professor and Director Emeritus of The Center for Geographic Information Sciences — GIS, outdoor recreation planning and management, remote sensing, Alaska
Robert Neff, Ph.D., The Pennsylvania State University, 2005, Lecturer — Urban geography, transportation, planning for climate change, urban sustainability

Martin C. Roberge, Ph.D., Arizona State, 1999, Professor — Hydrology, fluvial geomorphology, data science, open source software development
Charles Schmitz, Ph.D., Berkeley, 1997, Professor and Chair — Human, Middle East, political economy
James M. Smith, Ph.D. Kent State University, 2005, Associate Professor — Ethnic identities, globalization and politics, East Asia
Jeremy Tasch, Ph.D., Clark, 2006, Professor — Eurasia, Arctic Studies, political ecology
Paporn Thebpanya, Ph.D., Georgia, 2003, Professor — Cartography/geographic visualization, GIS, remote sensing
Virginia Thompson, Ph.D., Oklahoma, 1995, Associate Professor — Urban, social, regional, geographic education

PART-TIME FACULTY:

Douglas Adams, M.A. — GIS database design, photogrammetry, GIS applications in emergency management
Kathrine Brower, MLA, MSUP — Urban planning, environmental psychology, landscape architecture
D. Brett Collins, M.A. — Human geography, international affairs
Charles L. Goodman, M.R.C.P. — Transportation planning, comprehensive planning
Nayoung Jo, Ph.D. — Physical, human, environmental, and world regional geography
Jonathan Lesh, M.A. — Physical, human, geography of Maryland, urban systems
Jeremy Monn, M.A. — Geospatial applications
Timothy Scott Pruett, Ph.D. — Physical, human and world regional geography
Henry L. Schupple, Jr., M.A. — World regional, physical geography

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC)

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SYSTEMS

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 2018

DEGREES OFFERED: B.A., B.S., joint Bachelors/Masters Degree, M.S., Professional Studies Certificate in GIS, Masters of Professional Studies (MPS) in GIS, Ph.D.

GRANTED 1/1/18-12/31/18: 74 Bachelors

MAJORS: 262 Majors, 6 Masters, 2 Ph.D.

CHAIR: Alan Yeakley

DEPARTMENT OFFICE MANAGER: Robin Schmidbauer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Environmental Systems, 211 Sondheim Building, University of Maryland Baltimore County, 1000 Hilltop Circle, Baltimore, Maryland 21250. Telephone (410) 455-2002. Fax (410) 455-1056. Internet: <http://ges.umbc.edu/>

PROGRAMS AND RESEARCH FACILITIES: The department offers a B.A. degree in geography & environmental studies, a B.S. in environmental science & geography, and a certificate in GIScience. The department has two graduate programs: a Masters of Professional Studies (M.P.S.) in GIS, and a M.S. and PhD in Geography and Environmental Systems.

The department's undergraduate curriculum includes introductory course work in physical and human geography and environmental science. Students take upper division courses based upon their degree programs (see our website at <https://ges.umbc.edu/> for specifics) but generally all students take a broad range of courses that include

human and physical geography, environmental science, environmental studies and GIS. Each student's major program is designed in consultation with a faculty advisor in order to ensure both breadth and rigor in academic preparation for graduate school or professional employment. Students are encouraged to complete internships with public agencies, private-sector companies, or nonprofit organizations. Opportunities are also available for involvement in faculty research projects or in student- designed projects that may be funded through competitive awards available from the University.

The Professional Studies Certificate in GIS and the Masters of Professional Studies in GIS are intended to provide an advanced level of education to professionals working in the region's robust geospatial technology industry. The two programs have a particular focus on the information systems and computer science aspects of GIS and are intended to provide professionals with specialized training in the technical and analytical aspects of GIS.

The graduate program has three areas of concentration available to students: (1) Environmental Systems, including water resources and earth-surface processes, ecosystem science, and atmospheric processes; (2) Human Geography, with an emphasis on coupled human-natural systems including the impacts of human activities on the environment, the socioeconomic consequences of environmental degradation, and environmental policy; and (3) Geographic Information Science and Remote Sensing. Research on the urban environment is a particular strength among the opportunities available through our program. The areas of concentration identified above are not separate programs and do not have separate application requirements; students may elect to pursue a program of study that draws from multiple areas to suit their particular needs.

The department is at the interface among natural science, social science, public policy, engineering and information technology, with faculty who have background and collaborative relationships in both research and teaching related to all of these areas. The spatial perspective central to Geography as a discipline provides an analytical framework that bridges disciplinary boundaries and utilizes the tools of GIS to assist in our understanding of complex patterns in the natural and human environment. Collaborative relationships with other academic programs on campus include Public Policy, Economics, the School of Aging Studies, Civil and Environmental Engineering, Computer Science, Information Systems, Mathematics and Statistics, Biological Sciences, and Physics.

The environment is a key focus area of education and research on the UMBC campus. In addition to a core group of interested faculty from the natural sciences, social sciences and engineering, the campus hosts the field headquarters of the Baltimore Ecosystem Study (BES), an NSF and U.S. Forest Service-supported Urban Long-Term Ecological Research Site; the Joint Center for Earth Systems Technology (JCET), a NASA/UMBC consortium focusing on earth systems science and the application of remote sensing technology to monitoring of the earth's atmosphere and surface; the Center for Urban Environmental Research and Education (CUERE), focusing on the environmental, social and economic consequences of landscape transformation associated with urban and suburban development; and the U.S. Geological Survey Water Science Center for the MD-DE-DC region, which is located in the campus Research Park with a staff of 60+ personnel. In addition UMBC is a partner, along with several other University of Maryland institutions as well as other research universities and federal agencies, in the Chesapeake Watershed Cooperative Ecosystem Studies Unit (CESU), part of a national CESU network. The concentration of environment-related research activity on campus provides a rich and diverse set of opportunities for prospective graduate students entering our program.

The Department has three teaching labs designed to support undergraduate as well as graduate education: the GIS/Remote Sensing lab has 33 workstations running windows OS, the lab software

includes ArcGIS Desktop 10.5.1, ENVI, R, QGIS, and Agisoft Photoscan software along with selected other packages; the cartography lab has an additional 17 workstations designed for smaller more advanced courses that empathize group work and team projects. The environmental science lab has 24 seats and supports multiple classes in environmental science and ecology. Additional facilities are available on campus for undergraduate and graduate students working on projects at CUERE, including a hydrology laboratory and local hydrologic data collection networks, and analytical labs for processing of water, sediment and soil samples. USGS has installed field-monitoring stations on campus that can be used for training purposes. There are a broad range of internship opportunities in the region as well as on campus through BES, CUERE, JCET/GEST, and USGS.

UMBC is an outstanding geographic location for students and faculty. Baltimore is within convenient driving distance of New York, Philadelphia, Pittsburgh, and Washington, D.C. The proximity of the Appalachians, the Piedmont, and the Coastal Plain, including the Chesapeake Bay, offers many research opportunities. In addition to UMBC's own library facilities, other research libraries and facilities are readily accessible at the Johns Hopkins University, the University of Maryland College Park, the Pratt Library of Baltimore, the U.S. Department of Agriculture in Beltsville, the Library of Congress, and the National Archives I and II. In addition, the proximity of UMBC to the federal agency universe of the Washington D.C. area (e.g., EPA, Departments of the Interior, Agriculture, Transportation, NASA, NOAA, USFS, NPS, USGS) provides extraordinary opportunities for students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: UMBC is on a semester schedule. A limited number of courses are available in summer and winter sessions. The B.A. requires a minimum of 48 credit hours (44 within the department), the B.S. requires 63 credit hours (39 within the department). The department has two minor degrees, each of which requires 18 credit hours of course work. Interested applicants should write the Director of Admissions, UMBC, for complete instructions and criteria for admission. New freshman applicants must provide SAT scores. Financial aid is available, and interested prospective applicants are encouraged to write the Office of Financial Aid for a listing of programs and requirements. The department also offers a joint Bachelor/Masters degree option.

Graduate: UMBC is on a semester schedule. Students wishing to enter the Ph.D. or M.S. programs in Geography and Environmental Systems must meet the minimum standards for admission to the University of Maryland Graduate School, Baltimore. Candidates for admission must have earned a minimum GPA in the undergraduate degree of 3.0 overall and 3.3 for the major. All applicants must submit scores for the Graduate Record Examination, letters of recommendation, and a statement that outlines education goals and research interests. The department will have a limited number of Graduate Assistantships available. More details are available at our website:

<http://ges.umbc.edu/>

FACULTY:

Dena Aufseeser, Ph.D., University of Washington, 2012, Assistant Professor — critical poverty studies, urban change, international development

Matthew Baker, Ph.D., University of Michigan, 2002, Professor — ecosystems ecology, stream and riparian ecology, landscape ecology, quantitative methods

Dawn Biehler, Ph.D., University of Wisconsin, 2007, Associate Professor — health geography, urban environmental history, environmental justice

Suzanne Braunschweig, Ph.D., Virginia Polytechnic Institute and State University, 1993, Senior Lecturer and Director of Interdisciplinary Science Program — plant biology and ecology, science education

Erle C. Ellis, Ph.D., Cornell, 1990, Professor — biogeochemistry, landscape ecology, managed ecosystems

Matthew Fagan, Ph.D., Columbia, 2014, Assistant Professor — forest ecology, conservation biology, sustainability science

Jeffrey Halverson, Ph.D., University of Virginia, 1995, Professor — tropical meteorology, hurricanes and severe weather

Christine Hawn, Ph.D., North Carolina State University, 2015, Assistant Professor — conservation ecology, citizen science, environmental justice, trophic ecology, landscape ecology

Margaret Holland, Ph.D., University of Wisconsin-Madison, 2009, Associate Professor — conservation and development, geospatial analysis of human-environment interactions, protected areas

David Lansing, Ph.D., Ohio State, 2009, Associate Professor — nature-society, environmental policy, agrarian change

Dillon Mahmoudi, Ph.D., Portland State University, 2017, Assistant Professor — critical GIS, economic geography, urban studies, labor markets, digital geography

Andrew J. Miller, Ph.D., Johns Hopkins, 1983, Professor — geomorphology, hydrology, water resources, urban environment

Ashanté Reese, Ph.D., American University 2015, Assistant Professor — food and culture, food inequities, race and place, race and health

Joseph C. School, M.A., Temple, 1983, Instructor and Director of GeoSpatial Labs — cartography

Colin Studds, Ph.D., University of Maryland, 2009, Assistant Professor — macrobiology, biogeography, species management strategies in context of global change

Chris Swan, Ph.D., University of Maryland, 2003, Professor — community ecology, aquatic ecosystems

Yolanda Valencia, Ph.D., University of Washington, 2019, Assistant Professor — race and ethnicity, migration, community, justice, social stratification, feminist theory

Alan Yeakley, Ph.D., University of Virginia, 1993, Professor and Chair — urban ecology, wetland and riparian ecology, watershed hydrology, biogeochemistry, water quality

AFFILIATE FACULTY:

Chris Steele, Ph.D., University of Maryland, 2007, Affiliate Associate Professor — cultural ecology, contemporary international issues

RESEARCH FACULTY and AFFILIATE RESEARCH SCIENTISTS:

Petya Entcheva Campbell, Ph.D., University of New Hampshire, 2000, Affiliate Assistant Research Professor, Joint Center for Earth Systems Technology (JCET) — remote sensing of vegetation, vegetation biophysical parameters and spectral response

Peter Groffman, Ph.D., University of Georgia, 1984, Affiliate Research Scientist, Institute of Ecosystem Studies — environmental regulation of microbes, ecosystem function and nutrient cycling, water and air quality, soil carbon storage

Karl Fred Huemmrich, Ph.D., University of Maryland, College Park, 1995, Affiliate Associate Research Professor, JCET — remote sensing of ecosystem structure and function

Amita Mehta, Ph.D., Florida State University, 1991, Affiliate Assistant Research Professor, JCET — remote sensing, climate variability

Steward T. A. Pickett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Affiliate Research Scientist, Baltimore Ecosystem Study — urban ecosystems, function of landscape boundaries, plant community succession

Lorraine Remer, Ph.D., University of California, Davis, 1991, Affiliate Research Professor, JCET — atmospheric science

Chris Shuman, Ph.D., Pennsylvania State University, 1992, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — cryosphere, remote sensing of ice sheets, Antarctica

Ali Tokay, Ph.D., University of Illinois at Urbana-Champaign, 1993, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — cloud and precipitation physics, severe storms

Kevin Turpie, Ph.D., University of Maryland, 2012, Affiliate Associate Research Professor, Joint Center for Earth Systems Technology — ocean remote sensing, ocean ecology, coastal wetlands

EMERITI FACULTY:

Sari J. Bennett, Ph.D., University of Illinois at Urbana-Champaign, 1977, Clinical Associate Professor and Director, Maryland Geographic Alliance — economic geography, geographic education

Roger N. Dubois, Ph.D., University of Wisconsin, 1972, Associate Professor — geomorphology

Robert J. Earickson, Ph.D., University of Washington, 1968, Associate Professor — urban, medical geography

Keith D. Harries, Ph.D., UCLA, 1969, Professor — social, urban, GIS applications

Eugene (Sandy) Parker, Ph.D., University of Colorado, 1981, Associate Professor — environmental history and conservation, cultural ecology, public lands

UNIVERSITY OF MARYLAND, COLLEGE PARK

DEPARTMENT OF GEOGRAPHICAL SCIENCES

DATE FOUNDED: 1942

GRADUATE PROGRAM FOUNDED: 1942

DEGREES OFFERED: B.S., B.S./M.S. program addition, Master of Science in GIS & GEOINT (MS/GC), Ph.D.

GRANTED SPRING 2019: 60 Bachelors, 10 MPS/GIS, 3 Graduate Certificates in GIS, 2 MPS GEOINT, 1 Graduate Certificate in MPS GEOINT, 9 Ph.D.s, 2 B.S./M.S.

STUDENTS: 158 Majors, 149 MS (GIS/GEOINT) 57 Ph.D., 2 B.S./M.S.

CHAIR: Chris Justice

ASSOCIATE CHAIR: Tatiana Loboda

DIRECTOR OF ADMINISTRATION: Vivre Bell

GRADUATE APPLICATION COORDINATOR: Rachel Berndtson (Ph.D.), Kristen Bergery (MS-GIS/GEOINT)

GRADUATE DIRECTOR: Laixiang Sun

FOR FURTHER INFORMATION CONTACT: Department of Geographical Sciences, University of Maryland, 7251 Preinkert Drive, 2181 LeFrak Hall, College Park, MD 20742-8225. Telephone (301) 405-4050. Fax (301) 314-9299. Internet sites: Department, www.geog.umd.edu; Campus, www.umd.edu.

RESEARCH FACILITIES AND PROGRAMS: The University of Maryland, Department of Geographical Sciences maintains one of the most active externally funded geographic research programs in the U.S.A. Over the last two decades, this research has rapidly expanded and evolved to address the growing importance of geographical issues in public policy and research. In addition to the Teaching Faculty, there are ~100 Research Faculty in residence. The Department is housed in 25,000 sq. ft. on the main College Park campus and (11,000 sq. ft.) in an off-campus research building (Hartwick). Three teaching laboratories are dedicated to computer-based instruction of geospatial information sciences with over 75 PCs dedicated to teaching and graduate research. The research laboratories support Linux, and high-end PC machines, with very high performance processors and multi-terabyte RAID arrays. An extensive range of software is available, including satellite data processing, image analysis, and ESRI GIS

packages. Many opportunities exist for students to participate in externally funded research projects and field research. Scalable, shared departmental High Performance Computing (HPC) resources are available for graduate students and faculty to use and research projects to build on. The Department has recently developed three centers in geospatial sciences: 1) Center for Geospatial Information Science (CGIS) with faculty joint appointments in the University's Institute for Advanced Computer Studies (UMIACS). 2) Joint Carbon Cycle Science Center with the NASA Goddard Space Flight Center and 3) Remote Sensing Center of Excellence.

Research specializations in the department cover four major areas:

- *Human Dimensions of Global Change:* The department's ultimate research goal is to advance an integrated understanding of the coupled Earth system including spatially distributed human processes. Our research addresses both fundamental and applied issues in coupled human and natural systems, such as population, socio-economic development, consumption and production, poverty, climate impacts and adaptation, vulnerability and mitigation, as well as the examination of policy options and trade-offs on sustainability. Our scientists investigate both the human socio-economic system and the climate system, and their linkages.
- *Geospatial Information Science and Remote Sensing:* Collecting and interpreting geospatial data is central to everything we do as geographers, whether on computers or in the field. From local events to multi-scale processes, our faculty are developing and applying advanced remote sensing capabilities and GI Science that will help us to develop the next generation of GI technologies and understanding of the world's geography. The Department is renowned for its satellite remote sensing. Our strengths include sensor calibration and design, image processing and global product development, advanced computer modeling, scientific and geographic visualization, geocomputing, spatial statistics, and semantic learning.
- *Land Cover-Land Use Change:* Land-cover and land-use change is a key interface between human and natural systems. Our scientists are world leaders in the remote sensing of land-cover change. This information is actively combined with human socio-economic data to study past land cover and land use change and to inform advanced modeling of spatially-explicit future scenarios. These methods are used to simultaneously address social, economic, carbon, climate, biodiversity and other aspects of land-use changes. We developed global monitoring systems for agriculture, fire, droughts, floods, desertification, and other catastrophic events, to study societal impacts, adaptation and vulnerability.
- *Carbon, Vegetation Dynamics and Landscape-Scale Processes:* The department carries out a broad array of research focused on monitoring vegetation dynamics, with a particular focus on mapping and studying human and natural disturbances and their landscape-scale impacts, as well as changes to the earth surface as a result of climate variability. This research involves integration of field-based research with remotely-sensed observations to address key scientific uncertainties. Alterations to the global carbon cycle are changing atmospheric composition and climate with implications for human well-being and a particular focus of our research is on monitoring and modeling the terrestrial carbon cycle with unprecedented sophistication and resolution.

The Washington, D.C. Metropolitan area is an exceptional location in which to pursue geographic research. Many national and international agencies and organizations are within a short distance of the campus. Major national research laboratories are close by, including the NASA Goddard Space Flight Center, the Joint Global Change Research

Institute, the USDA Beltsville Agricultural Research Center, the National Archives, Bureau of the Census, National Institutes of Health, USGS, National Geospatial-Intelligence Agency (NGA), NOAA and the Offices of the US Global Change Research Program. International and non-governmental agencies are also located within easy reach, including Conservation International, The Nature Conservancy, World Wildlife Fund, the World Bank, the National Geographic Society, and many others. Corporations, businesses, and nonprofit organizations that use geographical applications are also well represented. Libraries on campus and nearby are unrivaled anywhere in the world. The University of Maryland is also located in a region of extraordinary geographic diversity, including two major urban centers (Baltimore and Washington, D.C.), the Appalachian Mountains, Piedmont, Coastal Plain, Chesapeake Bay, and the Atlantic Coast.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The College Park campus operates on a semester system. Admission applications are received for freshman and transfer-student admission. To apply online, go to www.geog.umd.edu/landing/undergraduate or e-mail geog-advise@umd.edu with any questions. UMD Geographical Sciences offers major concentrations in Geography and GIS/ Remote Sensing. Associated with these programs, the Department offers an honors program that allows undergraduates to work closely with a faculty mentor on independent research. In addition, the Department participates in the cross-campus Environmental Science and Policy (ENSP) program. Within ENSP, a multidisciplinary degree, Geography specifically sponsors (1) Land Use, (2) Global Environmental Change, and (3) Marine and Coastal Management concentrations. The Department also offers two minors: Geographic Information Science (GIS) and Remote Sensing. The GIS Minor is designed to give undergraduate students from other majors the technical skills needed to acquire, manage, and analyze geographic data. The Remote Sensing Minor is designed to use remote sensing as an analytical tool for identifying the impacts of environmental change on physical and human landscapes. For more detailed information on all undergraduate programs, see the department's web site at: www.geog.umd.edu/landing/undergraduate or email us at geog-advise@umd.edu.

Graduate: The Department of Geographical Sciences at UMD offers a PhD degree in Geographical Sciences. In addition, the Department offers Master of Science (MS) and Graduate Certificate degrees in both Geospatial Information Sciences (GIS) as well as Geospatial Intelligence (GEOINT) <http://geospatial.umd.edu/>. Admission to the Graduate program does not require prior geography studies and students from related physical and social sciences are encouraged to apply. Closing date for applications is December 14 for Fall admissions for the PhD program, and July 26 for the MS & Graduate Certificate programs. Full details of University graduate regulations can be found in The Graduate Catalog, available at www.gradschool.umd.edu/catalog. Details of the Geographical Sciences graduate degree requirements are regularly updated and available at www.geog.umd.edu.

The Master's Program: a 5 year BS/MS program option is offered to our best undergraduate students in their junior year.

The PhD Program: Admission to PhD program requires sponsorship by at least two Department Faculty members as well as meeting the admission requirements: cumulative undergraduate GPA of 3.3, GRE combined score of 320 or better. Foreign applicants must submit a Test of English as a Foreign Language (TOEFL, IBT 100). In addition, three letters of recommendation are required along with a statement of objectives and specialization consonant with current faculty specialties. Details on course requirements prior to advancement to candidacy, for students entering the program with a

Masters and Bachelors degree can be found at <https://geog.umd.edu/graduate/application-requirements>.

The Master of Science GIS and Graduate Certificate GIS Program: The Master of Science (MS) degree in Geospatial Information Sciences offers comprehensive training in the key areas of GIS, including geographic information sciences, remote sensing techniques, spatial analytical methods, web GIS, mobile GIS, open source GIS, modeling, and specialized computer programming tailored to GIS needs. The MS Graduate Certificate in GIS offers a 12-credit overview of Geospatial Information Sciences from the same topical areas. Master's degree and certificate requirements, as well as admission requirements and application forms, are posted on the web at: <http://geospatial.umd.edu/>.

The Master of Science GEOINT and Graduate Certificate GEOINT Program: The Master of Science (MS) degree in Geospatial Intelligence offers workforce-focused technical training in order to lead new initiatives in regard to GEOINT applications, data collection systems, analytic methods and mission support. The MS Graduate Certificate in GEOINT entails 15-credits based on 5 courses. Master's degree and certificate requirements, as well as admission requirements and application forms, are posted on the web at: <http://geospatial.umd.edu/>.

FINANCIAL AID: Financial Aid in the form of teaching assistantships, research assistantships, and various fellowships are available. Salary for a part-time (20 hrs/week) 9.5 month TA or GRA starts at \$21,119 plus full tuition remission and an option for health insurance, and goes to \$22,176 for a PhD student advanced to candidacy. Some opportunities exist for funding during the summer months. For more information on the following graduate programs contact: Rachel Berndtson (PhD Programs) rberndts@umd.edu, Kristen Bergery (MSGIS) kbergery@umd.edu, Ruibo Han (MS GEOINT) ruibo@umd.edu.

TENURED/TENURE-TRACK PROFESSORS:

*Giovanni Baiocchi**, Ph.D., *Durham University, Associate Professor* — environmental and ecological economics, computational economics

*Leila DeFloriani**, Ph.D., *University of Genova, 1977, Professor* — geometric modeling for scientific visualization, terrain modeling and computer graphics, and topological data analysis

*Ralph Dubayah**, Ph.D., *UC Santa Barbara, 1991, Professor* — climatology, remote sensing, spatial analysis, space-borne LiDAR

Laura Duncanson, Ph.D., *University of Maryland, 2014, Assistant Professor* — LiDAR remote sensing, data fusion, forest biomass, forest degradation

Sinead Farrell, Ph.D., *University College London, 2007, Associate Professor* — remote sensing of the polar oceans using satellite and airborne altimetry for marine geophysics and cryospheric investigations

*Matthew Hansen**, Ph.D., *University of Maryland, 2002, Professor* — land cover/land use change mapping, remote sensing, algorithm development

*George C. Hurtt**, Ph.D., *Princeton, 1997, Professor and Research Director* — theory and application of community and ecosystem ecology, mathematical models

*Christopher Justice**, Ph.D., *University of Reading, UK, 1977, Professor and Chair* — global change, land cover/land use change, remote sensing, agricultural monitoring, fire monitoring, observation systems

*Shulin Liang**, Ph.D., *Boston University, 1993, Professor* — cartography, numerical methods, remote sensing

*Tatiana Loboda**, Ph.D., *University of Maryland, 2008, Professor and Associate Chair* — wildlife monitoring and impact assessment, supporting the global agenda for malaria eradication via space-time modeling of malaria in SE Asia

Taylor Oshan, Ph.D., *Arizona State University, 2017, Assistant Professor* — spatial analysis, spatial statistics and its applications to human geography

*Julie Silva**, Ph.D., *Rutgers University, 2005, Associate Professor* — poverty and inequality, environmental justice, human dimensions of global change

Sergii Skakun, Ph.D., *National Academy of Sciences of Ukraine, 2005, Assistant Professor* — remote sensing, agricultural monitoring, machine learning in remote sensing, disaster monitoring and risk assessment

*Kathleen Stewart**, Ph.D., *University of Maine, 2001, Professor* — temporal GIS, event modeling for dynamic GIS, spatiotemporal accessibility, geospatial semantics, geospatial ontologies, spatiotemporal information retrieval

*Laixing Sun**, Ph.D., *Netherlands Institute of Social Studies, 1997, Professor and Graduate Director* — regional sciences and economics, climate change mitigation and adaptation

LECTURERS:

*Joy Adams**, Ph.D., *University of Texas at Austin, 2006* — U.S. & Canada, human geography, ethnic geography, tourism studies

Rachel Berndtson, Ph.D., *University of Maryland, 2009* — human dimensions

Micah Brachman, Ph.D., *University of California, Santa Barbara, 2012* — geospatial intelligence, hazards & emergency management, network science, active transportation

*Nathan Burch**, Ph.D., *University of Maryland, 2017* — urban planning, GIS

Ruibo Han, Ph.D., *University of Ottawa, 2012* — GIS and remote sensing

Eunjung Lim, Ph.D., *SUNY at Buffalo, 2009* — spatiotemporal analysis, GIS modeling, programming

Ronald Luna, Ph.D., *University of Maryland, 2009, Undergraduate Director* — Latin-American migration, transnationalism, cultural spaces

Jianguo Ma, Ph.D., *Cornell, 2006, MPS/GIS Program Director* — renewable energy and sustainable development

Jonathan Resop, Ph.D., *Virginia Tech, 2010* — modeling of environmental, hydrological, agricultural and ecological systems

Keith Yearwood, Ph.D., *University of Florida* — fluvial geomorphology

*Naijun Zhou**, Ph.D., *University of Wisconsin, 2005* — GIS

RESEARCH PROFESSORS:

*John Armston**, Ph.D., *University of Queensland, 2013, Assistant Research Professor* — quantitative measurement & mapping of forest and woodland structure, and the development of validated satellite mapping products

Varaprasad Bandaru, Ph.D., *University of Delaware, 2009, Associate Research Professor* — geospatial modeling of agricultural systems, biofuels, crop yield modeling, cropland carbon dynamics

*Inbal Becker-Reshef**, Ph.D., *University of Maryland, 2012, Associate Research Professor* — application of satellite information for agricultural monitoring at national and global scales

*Molly Brown**, Ph.D., *University of Maryland, 2002, Research Professor* — nature-society interface, food security, agricultural development

Louise Chini, Ph.D., *Cornell, 2003, Assistant Research Professor* — global land-use change, coupled human-natural systems, Earth system science

Ariane de Bremond, Ph.D., *UC Santa Cruz, Assistant Research Professor* — climate change and development, socio-economic teleconnections and interactions with land-use change processes, REDD

*Jan Dempewolf**, Ph.D., *University of Maryland, 2007, Assistant Research Professor* — agriculture and supporting ecosystem services, vegetation fire and land cover dynamics, remote sensing

- Ben DeVries, Ph.D., Wageningen University, 2015, Assistant Research Professor — Landsat, Sentinel, land cover change, wetlands
- Evan A. Ellicott, Ph.D., University of Maryland, 2009, Associate Research Professor — land cover and land use change, fire ecology, remote sensing
- William Emanuel, Ph.D., Oklahoma State University, 1975, Research Professor — global fire cycle, terrestrial processes, land-cover/land use changes
- Kuishuang Feng, Ph.D., University of Leeds, 2011, Associate Research Professor — sustainable consumption and production, human dimensions of global change
- Min Feng, Ph.D., Chinese Academy of Sciences, 2008, Assistant Research Professor — ecosystem services and hydrological modeling with intensive data and computation, geo-spatial based environment model development and integration
- Belen Franch*, Ph.D., Universitat de Valencia, 2013, Associate Research Professor — surface albedo, atmospheric correction in the solar spectrum, agricultural monitoring
- Louis Giglio*, Ph.D., University of Maryland, 2006, Research Professor — global fire monitoring and fire emissions, remote sensing, and satellite direct broadcast applications
- Pierre Guillevic, Ph.D., Paul Sabatier University, 1999, Associate Research Professor — thermal infrared radiometry, ecosystem and hydrological processes
- Michelle Hofton, Ph.D., Durham University, 1995, Associate Research Professor — topographical measurements and applications
- Chengquan Huang*, Ph.D., University of Maryland, 1999, Research Professor — land cover, land cover change, vegetation modeling, image analysis
- Roberto César Izaurralde*, Ph.D., Kansas State University, 1985, Research Professor — soil organic matter dynamics and greenhouse gases in agricultural systems, ecosystem response to climatic change
- David Lagomasino, Ph.D., Florida International University, 2014, Assistant Research Professor — coastal wetland processes, blue carbon dynamics, remote sensing of forest structure, surface water and groundwater interactions
- SeungKuk Lee, Ph.D., Swiss Federal Institute of Technology Zurich, 2013, Assistant Research Professor — polarimetric SAR Interferometry, 3D forest structure parameter retrieval from synthetic aperture radar (SAR) data, digital beamforming SAR system, GEDI (lidar) & TanDEM-X (SAR) data fusion for enhanced forest height/biomass estimates, blue carbon dynamics
- Mengxue Li*, Ph.D., Wuhan University of Technology, 2009, Associate Research Professor and Principal Dean for International Affairs — data and government policy, land cover/land use change, international S & T cooperation in Earth observation area
- Janet Nackoney*, Ph.D., University of Maryland, 2012, Associate Research Professor — conservation land-use planning, habitat fragmentation, land use/land cover change and deforestation monitoring, food security
- Jyoteshwar Nagol, Ph.D., University of Maryland, 2011, Assistant Research Professor — remote sensing of vegetation dynamics, agriculture and irrigation, near surface remote sensing using small UAVs
- Catherine Nakalembe, Ph.D., University of Maryland, Assistant Research Professor — agriculture remote sensing, food security, climate change
- Peter Potapov*, Ph.D., Russian Academy of Science, 2005, Associate Research Professor — forest mapping and monitoring, optical remote sensing
- Jean-Claude Roger, Ph.D., University Blaise Pascal, France, 2006, Research Professor — remote sensing of atmosphere & land, atmospheric correction, calibration/validation, radiative transfer, aerosol characterization
- Ritvik Sahajpal, Ph.D., University of Maryland, 2014, Assistant Research Professor — geostatistics, multivariate analysis, machine learning
- Wilfrid Schroeder, Ph.D., University of Maryland, 2008, Associate Research Professor — remote sensing of active fires, biomass burning emissions modeling, land cover/land use change in Amazonia, remotes sensing using UAVs
- Fernando Sedano*, Ph.D., UC Berkeley, 2008, Associate Research Professor — remote sending sensor integration at medium spatial resolution, forest degradation in African tropical woodlands, forest fire dynamics in boreal ecosystems
- Joseph Sexton*, Ph.D., Duke University, 2009, Research Assistant Professor — spatio-temporal ecosystem dynamics, sustainable ecosystem management
- Hao Tang, Ph.D., University of Maryland, 2005, Assistant Research Professor — 3D dynamics of terrestrial ecosystems using lidar remote sensing platforms
- John Townshend*, Ph.D., University College London, 1971, Research/Emeritus Professor — land cover dynamics, remote sensing, information systems
- Svetlana Turubanova, Ph.D., Russian Academy of Science, 2002, Assistant Research Professor — forest ecology, forest mapping
- Dongdong Wang*, Ph.D., University of Maryland, 2009, Associate Research Professor — remote sensing, spatial analysis
- Alyssa Whitcraft, Ph.D., University of Maryland, 2014, Associate Research Professor — agriculture, monitoring and mapping of global agriculture characteristics and processes

POSTDOCTORAL SCHOLARS:

- Sundarabalan Balasubramanian, Ph.D., Indian Institute of Technology Madras, 2015 — ocean color remote sensing, calibration/validation of ocean satellite sensors, satellite image processing, atmospheric correction techniques
- Dong Chen, Ph.D., University of Maryland, 2017 — remote sensing, wildfire, forest disturbance, boreal, tundra
- Martin Claverie, Ph.D. — remote sensing, agricultural plant science and environmental science
- André de Lima, Ph.D., Brazilian National Institute for Space Research (INPE), 2013 — geoscience, remote sensing of tropical forests
- Ben DeVries, Ph.D., Wageningen University, 2015 — Landsat, Sentinel, land-cover changes, time series, surface water, eco dynamics
- Junchuan Fan, M.S., University of Iowa, 2015 — geospatial semantics
- Riccardo Fellegara*, Ph.D., University of Genova, 2015 — spatial data structures, scientific visualization, computational topology, geometric modeling, data bases, informational systems & high performance computing
- Joanne Hall, Ph.D., University of Maryland, 2017 — impacts of weather & climate patterns on agricultural crop management & food security
- Wenlu Qi*, Ph.D., University of Maryland, 2018 — forest structure and biomass mapping, Lidar and radar remote sensing
- Varada Shevade, Ph.D., University of Maryland, 2018 — modeling impacts of land use on malaria outbreaks in SE Asia
- Xiaopeng Song, Ph.D., University of Maryland, 2015 — satellite monitoring of land cover/land use change, deforestation, urbanization
- Alexandra Tyukavina, Ph.D., University of Maryland, 2015 — remote sensing, forest cover change, carbon dynamics
- Panshi Wang, Ph.D., University of Maryland, 2017 — urbanization, machine learning, land use and land cover change
- Zhen Zhang, Ph.D., Nanjing University, 2013 — climate change analysis on terrestrial and wetland ecosystems
- Honglin Zhong, M.S., East China Normal University, 2011 — GIS, remote sensing

FACULTY SPECIALISTS:

- Bernard Adusei, M.S., University of South Dakota, 2006
- Alice Alstatt, M.S., University of Nevada, 1994
- Brian Barker, M.A., University of Maryland, 2012

Kristen Bergery, M.A., University of Maryland, 2016
 Alona Bunning, M.P.A., Columbia University, 2013
 Saurabh Channan, M.S., Johns Hopkins University, 2004
 Shannon Corrigan, M.P.P., University of Maryland, 2018
 Charlene M. DiMiceli, B.S., Portland State, 1980
 Shannon Gallagher, B.S. University of Maryland, 2016
 Madeline Guy, B.S., University of Maryland, 2017
 Michael Humber, M.S., University of Maryland, 2014
 Erin Jacobs, M.B.A., University of Maryland 1999
 Christina Justice, M.S., University of Maryland, 2015
 John Keniston, M.P.S., University of Maryland, 2017
 Indrani Komareddy, M.S., Dakota State University, 2008
 Xia Li, Ph.D., Beijing Normal University, 2013
 Kim Locke, M.E.S., Yale University, 1991
 Patrick Lola Amani, M.A., University of Maryland, 2014
 André Mazinga, University of Kinshasa, 2005
 Emma Minnis, B.A., University of Maryland, 2017
 David Minor, M.S., Michigan State University
 Mary Mitkish, B.Phil, University of Pittsburgh, 2015
 Emilie Murphy, M.S., University of Toulon-Var, 2005
 Amy Pickens, B.S., University of Maryland
 Jeff Pickering, B.R.M., Unitec Institute of Technology, 2008
 Estefania Puricelli, B.S. University of Buenos Aires
 Antonio Sanchez, B.S., University of Salamanca, 2006
 Robert A. Sohlberg, B.S., University of Maryland, 1996
 Mark B. Sullivan, B.S., University of Maryland, 1999

ADJUNCT FACULTY:

Martha Anderson, Ph.D., University of Minnesota, 1993, Adjunct Professor, Research Physical Scientist USDA: ARS Hydrology and Remote Sensing Lab
 Luigi Boschetti, Ph.D., Politecnico di Milano, 2005, Adjunct Associate Professor — global scale applications of low and medium resolution satellite data, remote sensing of fire, multitemporal algorithms, REDD+
 Ivan Csizsar*, Ph.D., Eotvos Lorand University, Budapest, 1996, Adjunct Associate Professor — remote sensing, fire science, meteorology
 Gunther Fischer*, Ph.D., Adjunct Professor, Head of Land Use Change/Agriculture Program at International Institute for Applied Systems Analysis
 Scott J. Goetz*, Ph.D., University of Maryland, 1996, Adjunct Associate Professor — remote sensing, biogeography, global terrestrial carbon flux modeling, forest ecology
 Tao He, Ph.D., 2012, Adjunct Professor — quantitative remote sensing of biogeophysical properties & remote sensing development
 Dean Hively*, Ph.D., Cornell, 2004, Adjunct Associate Professor — soil science, remote sensing, watershed biogeochemical processes, GIS, resource conservation
 Curtis Jones, Ph.D., University of Florida, 2013, Assistant Research Professor — agricultural & biological engineering, climate change
 Jeffrey G. Masek, Ph.D., Cornell University, 1994, Adjunct Associate Professor — land cover change in temperate environments, advanced computing in remote sensing, satellite remote sensing techniques
 Douglas Morton*, Ph.D., University of Maryland, 2008, Adjunct Assistant Professor — land cover change in tropical forests, remote sensing methods, ecosystem modeling
 Richard Moss*, Ph.D., Princeton University, Adjunct Professor — vulnerability assessment & adaptation to global change
 Ben Poulter, Ph.D., Duke University, Adjunct Associate Professor — carbon cycle, methane budget, dynamic global vegetation modeling, forest succession, vegetation dynamics, remote sensing
 Jun Qin, Ph.D., Beijing Normal University, Adjunct Associate Professor — quantitative remote sensing, data assimilation, climatology

David Roy*, Ph.D., Cambridge University, UK, 1993, Adjunct Professor — land use change and fire, terrestrial remote sensing
 Compton J. Tucker*, Ph.D., Colorado State University, 1975, Adjunct Professor — forestry, satellite remote sensing, AVHRR, tropical deforestation
 Krishna Vadrevu*, Ph.D., Osmania University, Adjunct Associate Professor, NASA Marshall Space Flight Center — remote sensing & GIS applications, satellite remote sensing of fires, biogeochemical cycling, biodiversity & ecology, agroecosystems & sustainability
 Eric Vermote*, Ph.D., University of Lille, 1990, Adjunct Professor — climate data records, radiative transfer, land surface reflectance, thermal (longwave) radiation, fire, aerosols
 Darrel Williams, Ph.D., University of Maryland, 1989, Adjunct Professor — forest ecosystems, remote sensing measurements, physiological ecology

***Members of the Graduate Faculty who have served or are serving on dissertation and thesis committees.**

U.S. CENSUS BUREAU

DECENNIAL CENSUS PROGRAMS DIRECTORATE GEOGRAPHY DIVISION

SCOPE OF OPERATIONS: The Geography Division plans, coordinates, and administers all geographic and cartographic activities needed to facilitate the Census Bureau's statistical programs throughout the United States and its territories. It also manages the Census Bureau's programs to continuously update the addresses, features, boundaries, imagery, and geographic entities in its nationwide, automated geographic support system.

The Geography Division conducts research into geographic concepts, methods, and standards needed to facilitate the Census Bureau's data collection and data dissemination programs; develops criteria to identify geographic entities needed for reporting statistical data where no legal entity exists; and devises systems and methodologies to provide specialized maps, geographic reports, and geographic data for publication and electronic dissemination. The division also represents the geographic, cartographic, and geospatial responsibilities of the Census Bureau within the federal government; provides expert advice on geographic and cartographic methods and practices appropriate for statistical programs; and coordinates partnership activities with tribal, federal, state, and local governments to acquire authoritative geospatial data.

CHIEF: Deirdre Dalpiaz Bishop
DEPUTY CHIEF: Gregory Hanks

AREAS, ASSISTANT DIVISION CHIEFS:

Address and Spatial Data Update: *Andrea Johnson*
 Geographic Data Collection and Products: *Laura Waggoner*
 Geographic Program Management and External Engagement: *Monique Eleby*
 Geographic Standards, Criteria, Research, and Quality: *Michael Ratcliffe*
 2020 Census Coordinator: *Brian Timko*

BRANCHES, CHIEFS:

Address Data Collection and Products: *Nathan Jones*
 Address Frame Update: *Robert Damario*
 Address and Spatial Analysis: *Lee Wentela*
 Address Standards, Criteria, and Quality: *Stuart Irby*
 Cartographic Products and Services: *Kevin Hawley*
 Federal Geographic Coordination: *Lynda Liptrap*
 Geographic Customer Service: *Trudy Suchan*
 Geographic Project Management: *Latisha White*
 Geographic Research and Innovation: *John Liadis*

Geographic Standards, Criteria, and Quality: *Vincent Osier*
Geo-Location and Imagery: *Vacant*
Partnership Communications and Outreach: *Vacant*
Spatial Data Collection and Products: *Ryan Short*
Spatial Data Update: *Daniel Keefe*

CENSUS REDISTRICTING AND VOTING RIGHTS DATA OFFICE

SCOPE OF OPERATIONS: The Census Redistricting and Voting Rights Data Office is responsible for planning, managing and evaluating the Census Bureau's Redistricting Data Program to ensure the Secretary of Commerce and the Director of the Census Bureau have met the legal requirements of Public Law 94-171 (Title 13). This law amended Title 13, United States Code (U.S.C.) to require the secretary (who delegates responsibility to the Census Director) to work closely with each state on a nonpartisan basis, to determine what Decennial Census data are needed to redraw state legislative and Congressional districts after each census. The Census Redistricting and Voting Rights Data Office is also responsible for the coordination and production of the Section 203 determinations as required by the newly reauthorized Voting Rights Act.

CHIEF: James Whitehorne
ASSISTANT CHIEF: Thomas Morton

DEMOGRAPHIC PROGRAMS POPULATION DIVISION

SCOPE OF OPERATIONS: The Population Division's activities involve analysis of the population (both domestic and international) and its social and demographic characteristics, including study of the geographic distribution of the population and its geographic mobility, representing data in statistical and cartographic forms, and delineation of selected statistical geographic entities. The division participates in data programs including the Decennial Census, the Population Estimates Program, the Current Population Survey, and the American Community Survey.

CHIEF: Karen Battle
POPULATION GEOGRAPHY CHIEF: James Fitzsimmons

SOCIAL, ECONOMIC, AND HOUSING STATISTICS DIVISION

SCOPE OF OPERATIONS: The Social, Economic, and Housing Statistics Division's activities involve production and analysis of data on the characteristics of the population. This includes the study of the geospatial aspects of geographic mobility, place of work, and commuting. The division participates in data programs including the Decennial Census, the Survey of Income and Program Participation, the Current Population Survey, and the American Community Survey.

CHIEF: David Waddington
ASSISTANT DIVISION CHIEF: Stephanie Galvin

BRANCH, CHIEF:
Journey-to-Work and Migration Statistics: *Brian McKenzie*

FIELD OPERATIONS DIRECTORATE FIELD DIVISION

SCOPE OF OPERATIONS: The Field Division plans, coordinates, and carries out the Census Bureau's field data collection programs; maintains and administers a field organization through its regional offices, temporary regional census centers, and temporary area census offices and other field offices; delineates selected statistical geographic entities in cooperation with appropriate governmental and nongovernmental officials; and provides for the effective deployment of field personnel to assure the efficient conduct of the collection of geographic and address information and census data. The Field Division's six regional offices employ geographic staff in Atlanta, Chicago, Denver, Los Angeles, New York, and Philadelphia.

CHIEF: Dale Kelly
ASSISTANT DIVISION CHIEF: Gail Leithauser

BRANCHES, CHIEFS:
Address Coverage Operations: *Karen Field*
Decennial Data Collection: *Amy Fischer*
Geographic Support: *Nicole Parent*
Group Quarters: *Crystal Miller*

MASSACHUSETTS

CLARK UNIVERSITY

GRADUATE SCHOOL OF GEOGRAPHY

DATE FOUNDED: 1921

GRADUATE PROGRAM FOUNDED: 1921

DEGREES OFFERED: B.A. and Ph.D. in Geography, B.A. in Global Environmental Studies, B.A. in Environmental Science: Earth System Science Track. Accelerated M.S. in Geographic Information Science, M.S. in Geographic Information Science for Development and Environment

GRANTED 9/1/17-8/31/18: 19 Geography Bachelors; 5 Global Environmental Studies Bachelors; 2 Environmental Science: Earth Systems Science Track Bachelors; 5 Ph.D., 7 M.A. in Geography (pre-doctoral); 12 M.S. in GIS (Accelerated Degree Program); 17 M.S. in Geographic Information Sciences for Development and Environment

STUDENTS IN RESIDENCE: 79 Geography Majors; 34 Global Environmental Studies Majors; 31 Environmental Science: Earth Systems Science Track Majors; 57 Ph.D.; 7 M.S. in GIS; 43 M.S. in Geographic Information Sciences for Development and Environment

NOT IN RESIDENCE: 4 Ph.D.

DIRECTOR: Deborah G. Martin

DEPARTMENT ADMINISTRATOR: Christine Creelman

FOR FURTHER INFORMATION WRITE TO: Assistant to the Director, Graduate School of Geography, Clark University, 950 Main St., Worcester, Massachusetts 01610-1477; Telephone: (508)793-7336; Fax: (508)793-8881; Email: geography@clarku.edu; Internet: www.clarku.edu/departments/geography.

PROGRAMS AND RESEARCH FACILITIES: The Graduate School of Geography at Clark has awarded more doctorates in Geography than any other institution in the United States. The School is central to a private institution of approximately 2,200 undergraduates and 900 graduate students. A liberal arts tradition is joined with the University-College in which faculty, graduate students, and undergraduates engage in joint teaching and research and cross-disciplinary exchange. The School offers an undergraduate and doctoral program covering all domains of Geography and an interdisciplinary undergraduate degree in Global Environmental Studies. An Earth System Science (ESS) concentration is offered to those majoring in the interdepartmental/interdisciplinary Environmental Science major. The undergraduate program permits qualified students to enter an Accelerated M.S. in GIS program. The graduate program in geography accepts students holding either a B.A./B.S. or M.A./M.S. and seeking a Ph.D. only. Although not required for the Ph.D. program, a Master's degree is available en route to the doctorate. An M.S. in Geographic Information Science (MSGIS) is also available (see below).

The School includes 20 faculty members with teaching and research interests that cover the breadth of geography and cut across disciplinary boundaries. Faculty and students in the School maintain a high level of grant- and contract-supported research conducted throughout the world dealing with human-environment, remote sensing-GIS, urban-economic, earth system science, global change, globalization, and related themes; specific ongoing projects can be found on the School's web site (www.clarku.edu/departments/geography).

In addition, the School publishes *Economic Geography*, an internationally peer-reviewed journal founded in 1925 and owned by Clark University. *Economic Geography* is currently ranked 3rd (out of 84) in Geography journals and 4th (out of 353) in Economics journals with a (2017) ISI 2-year citation impact factor of 6.438 and 5-year citation impact factor of 6.854 (www.clarku.edu/econgeography).

The School is closely linked to the George Perkins Marsh Institute (www.clarku.edu/departments/marsh/) and the Jeanne X. Kasperson Research Library that facilitates interdisciplinary and multi-institutional research on nature-society relationships. The School also works closely with Clark Labs, a research center that developed within the School. Clark Labs creates and distributes the TerrSet software system (including Idrisi, the Earth Trends Modeler and the Land Change Modeler), and conducts research in GIScience, Earth Information Science, and Conservation GIS. Finally, the School has initiated a collaborative doctoral track in Geography and Genocide Studies with the Strassler Center for Holocaust and Genocide Studies.

Clark University is located on a 50-acre campus within Worcester, the heart of central Massachusetts. Clark and ten other universities and colleges in the city and surrounding area form the Higher Education Consortium of Central Massachusetts. The School maintains a graduate student computer room and lounge, office or desk space for graduate students, and EORS (Earth Observation and Remote Sensing Laboratory), an advanced computing lab.

The Graduate School of Geography and Clark's Department of International Development, Community, and Environment (IDCE) jointly offer a M.S. degree in Geographic Information Science (MSGIS). The degree is designed as a three or four semester program for early and mid-career professionals with responsibilities in mapping, environmental database development, resource management, planning, policy implementation and environmental monitoring. For further information, contact the IDCE Department. Telephone: (508)793-7201; Fax: (508) 793-8820; Internet: <https://www.clarku.edu/academics/graduate/programs/masters/geographic-information-science/>.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. The School of Geography's undergraduate program emphasizes a broad education in the field of geography with specializations in urban-economic geography, human-environment geography, GIScience/remote sensing, and earth system science. Geography majors are required to become proficient in research methods and are encouraged to gain skills in quantitative methods, GIS, and mapping. Students with an outstanding academic record are eligible to participate in the Geography Honors program, which involves the completion of a two-semester independent honors project conducted under the supervision of a faculty member. Many geography majors study abroad, and qualified majors may be selected for Clark's prestigious Human-Environment Regional Observatory (HERO) Program which includes paid summer research fellowships and a year-long research seminar (<http://www.clarku.edu/departments/hero/>).

The School also offers a major in Global Environmental Studies (GES) and a concentration in Earth Systems Science (ESS) through Clark's Environmental Science major. GES focuses on the cultural and

political dimensions of environmental knowledge, practice, and policy, as well as environmental justice. ESS examines how the earth system's component parts interact and function as a whole through biophysical connections among land, cryosphere, atmosphere, and oceans. Both majors offer such technical skills as remote sensing and geographical information systems for those students seeking them as well as an array of internships, study abroad, and special study programs. GES majors and ESS majors are qualified to apply for the various honors and related programs noted above for geography. The Accelerated Degree Program in GIS gives qualifying Clark undergraduate students access to our high-quality graduate program and requires students to conduct original research. Applicants to the program who meet certain eligibility requirements receive a tuition scholarship during their Fifth Year to pursue a M.S. degree.

For further information regarding the academic plan, admission requirements or financial aid, please contact the Undergraduate Admissions Office, Clark University, 950 Main Street, Worcester, Massachusetts 01610-1477, Telephone: (508)793-7431. For further information on the undergraduate programs in geography, global environmental studies, or earth system science, please contact Program Administrator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282. In addition, for Global Environmental Studies, you may email ges@clarku.edu. Internet: <http://www.clarku.edu/programs/major-or-minor-global-environmental-studies>.

For the Earth System Science track in the Environmental Science major, you may also contact Professor Christopher A. Williams (CWilliams@clarku.edu); Internet: <http://www.clarku.edu/departments/ES/ess/>.

GRADUATE (PH.D. PROGRAM): Semester system. Three-year residence required for Ph.D. *Admission Requirements:* interests coincident with those of department; evidence of competence to pursue graduate work at the Ph.D. level; GRE scores required for all applicants; applicants from related fields will be considered. TOEFL scores (or the results of another English proficiency test) and the TOEFL test of spoken English (TSE) are required of those students from countries where English is not the first language. Exceptions can be made for students who are currently studying in the United States, Canada, the United Kingdom, Australia, New Zealand, and South Africa or who have received a degree from a university in those countries. The application deadline is December 31st. *Financial Aid* includes minimum 4-year tuition fellowships and research and teaching assistantships for all admitted students. All students accepted into the program are funded equally, guaranteed for the first four years of study. Interested applicants should contact Program Administrator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282.

FACULTY:

Yuko Aoyama, Ph.D., UC-Berkeley, 1996, Professor of Geography and Associate Provost and Dean of Research and Graduate Studies — economic geography, globalization, technological change, social innovation and entrepreneurship
Anthony J. Bebbington, Ph.D., Clark, 1990, Professor of Geography and Milton P. and Alice C. Higgins Professor of Environment and Society — human-environment, development geography, social movements, political ecology, extractive industries, Latin America
Asha Best, Ph.D., Rutgers University-Newark, 2017, Assistant Professor of Geography — urban geography, informality, mobilities, post-colonial and critical race theory
Youjin B. Chung, Ph.D., Cornell University, 2018, Assistant Professor of Geography — political economy of development, feminist political ecology, food and agrarian studies, critical social/feminist theory, African studies, qualitative and visual research methods

Mark Davidson, Ph.D., London, 2006, Associate Professor of Geography — urban geography, gentrification, urban politics, metropolitanism, policy-making, critical theory

J. Ronald Eastman, Ph.D., Boston, 1982, Professor of Geography, Program Director, GISDE and Director, Clark Labs — geographic information science, remote sensing, earth system informatics, land use change

Lyndon D. Estes, Ph.D., University of Virginia, 2008, Assistant Professor of Geography — geographic information science, remote sensing, land change science, agro-ecology, conservation, global change

Karen E. Frey, Ph.D., UCLA, 2005, Associate Professor of Geography and Associate Director, Graduate School of Geography — climate change, polar environments, sea ice variability, marine/terrestrial biogeochemistry, land surface hydrology, remote sensing

Dominik Kulakowski, Ph.D., University of Colorado, 2002, Associate Professor of Geography — forest ecology, mountain forest ecosystems, disturbance ecology

Deborah G. Martin, Ph.D., Minnesota, 1999, Professor of Geography and Director, Graduate School of Geography — urban/social/political geography, legal geography, urban governance/local politics, qualitative methods, place, social movements theories

James P. McCarthy, Ph.D., UC-Berkeley, 1999, Professor of Geography and Editor, *Annals of the American Association of Geographers* — political ecology, political economy, environmental governance, social theory

James T. Murphy, Ph.D., Florida, 2001, Professor of Geography and Editor-in-Chief, *Economic Geography* — economic/urban/development geography, technology, sustainable development, networks, practice theory, Africa

Jessa M. Loomis, Ph.D., University of Kentucky, 2018, Visiting Assistant Professor — financialization, feminist political economy, geographies of poverty and inequality, urban geography, debt, financial inclusion and exclusion, economic subjectivity

Richard Peet, Ph.D., UC-Berkeley, 1968, Laskoff Professor of Economics, Technology and Environment, Professor of Geography — globalization, global governance, development theory and policy, philosophy and social theory, political ecology

Robert Gilmore Pontius, Jr., Ph.D., State University of New York, 1994, Professor of Geography — geographic information science, land change science, spatial statistics, quantitative modeling

Samuel J. Ratick, Ph.D., Johns Hopkins, 1979, Professor of Geography — environment and public policy, hazards, spatial analysis, decision science, geographic information science

John Rogan, Ph.D., San Diego State University and UC-Santa Barbara, 2003, Professor of Geography — remote sensing, land cover change, biogeography, fire ecology

Rinku Roy Chowdhury, Ph.D., Clark, 2003, Associate Professor of Geography — land system science, cultural & political ecology, institutions, urban ecology, agrarian systems and agroecology, Latin America

Florencia Sangermano, Ph.D., Clark, 2009, Assistant Professor of Geography — conservation biology, geographic information science, remote sensing, landscape ecology

Christopher A. Williams, Ph.D., Duke University, 2004, Associate Professor of Geography and Program Director, *Environmental Science* — land surface hydrology, ecosystem ecology, hydroclimatic variability and change, global water and carbon cycles

AFFILIATE, ADJUNCT, AND RESEARCH FACULTY:

Edward R. Carr, Ph.D. Syracuse, 2001, Ph.D. Kentucky, 2002, Adjunct Professor of Geography and Professor and Director of International Development, Community, and Environment — livelihoods, development, human dimensions of global change, climate change adaptation, gender and identity, resilience, sub-Saharan Africa

Jacque (Jody) L. Emel, Ph.D., Arizona, 1983, Senior Research Scientist — natural resources, political ecology, feminist theory, governance, animal geographies

Jacqueline Geoghegan, Ph.D., Berkeley, 1995, Adjunct Professor of Geography and Professor and Chair of Economics — spatial economics, environmental and natural resource economics

Roger E. Kasperson, Ph.D., Chicago, 1966, Research Professor and Distinguished Scientist, George Perkins Marsh Institute — environmental hazards, global environmental change, environmental policy

Yelena Ogneva-Himmelberger, Ph.D., Clark, 1998, Adjunct Associate Professor of Geography and Associate Professor, Department of International Development, Community, and Environment — health applications of GIS and remote sensing, environmental justice and GIS, spatial statistics, land-use change and environmental degradation

Dianne E. Rocheleau, Ph.D., Florida, 1984, Senior Research Scientist, School of Geography — political ecology, environmental justice, urban ecology, gender, culture, nature, development, decolonial theories, forestry, agriculture, land and territory, social movements, network theories

B.L. Turner II, Ph.D. Wisconsin, 1974, Distinguished Research Professor, School of Geography — human-environment geography, land-change science, global environmental change

EMERITI FACULTY:

Martyn J. Bowden, Professor Emeritus

Jacque (Jody) L. Emel, Professor Emerita

Susan Hanson, Distinguished University Professor Emerita

Douglas L. Johnson, Professor Emeritus

William A. Koelsch, Professor Emeritus

Lawrence A. Lewis, Professor Emeritus

Robert C. Mitchell, Professor Emeritus

Dianne E. Rocheleau, Professor Emerita

Henry J. Steward, Professor Emeritus

MOUNT HOLYOKE COLLEGE

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1904

DEGREES OFFERED: B.A.

GRANTED 2018-2019: 464 Bachelors

MAJORS: 11 Geology; 17 Geography

CHAIR: Steve Dunn

DEPARTMENT ADMINISTRATIVE ASST: Debra LaBonte

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Serin Houston, Professor of Geography, Department of Geology and Geography, Mount Holyoke College, 50 College St., Clapp Laboratory, South Hadley, Massachusetts 01075-6419. Telephone (413) 538-2278. Fax (413) 538-2239. E-mail: dlabonte@mtholyoke.edu. Internet: <https://www.mtholyoke.edu/ac-ad/geography>.

PROGRAMS AND RESEARCH FACILITIES: Founded in 1837, Mount Holyoke became the premier model upon which other colleges for women were shaped. From an original class of 80 students, Mount Holyoke has grown to encompass an ethnically, racially, and culturally diverse student body of over 2,210 students, a faculty of

234, and an extraordinary array of academic facilities spread across an 800-acre campus. The College offers majors in 50 fields and a curriculum constantly enriched by new and innovative courses. The Williston Library stores USGS and AMS depository maps; the Library also contains about 1,600 periodical subscriptions and its total collection is more than 750,000 volumes which includes books, serials and bound periodicals; and students are able to access the Five College library system from department computers.

The Department of Geology and Geography at Mount Holyoke College offers Bachelors Degrees in Geology and Geography. Geography has been taught since the college's founding; in 1930, the combined department was created, with separate majors in each discipline. Mount Holyoke College geography majors and minors learn about the impacts of social, economic, environmental, and political processes that shape spaces and places, the science of earth systems, the implications of climate change, and the use of geographic information science (GIS) and remote sensing techniques to represent and analyze data and knowledge at different spatial scales.

The department's GeoProcessing Lab hosts state of the art hardware and software necessary for modern GIS and Remote Sensing applications. All 19 Dual Core workstations are networked and connected to two data-map-application servers, plotter, printers, and large format scanners. Our specialized software includes:

- ArcGIS
- Erdas Imagine with Photogrammetry Suite
- IDRISI
- Trimble Ecognition

Mount Holyoke is a member of the Five College consortium, sharing academic and cultural resources with Amherst, Hampshire, and Smith Colleges and the University of Massachusetts, Amherst. The more than 30,000 students attending the institutions may take courses, use library resources, and attend cultural and social events at any of the Five Colleges.

Mount Holyoke College is in South Hadley, Massachusetts, 5 miles north of the city of Holyoke and 12 miles north of Springfield. The Five-College towns of Northampton and Amherst are both 10 miles away. The college is 90 miles from Boston and 150 miles from New York City.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Mount Holyoke has a need based financial aid program and over 70% of the student body receives some form of financial aid. Student research is often funded by Mellon, College, or department grants.

FACULTY:

Steven R. Dunn, Ph.D., Wisconsin-Madison, 1989, Professor — metamorphic petrology; stable isotope geochemistry; calcite-graphite isotope thermometry

Serin Houston, Ph.D., Syracuse University, 2011, Assistant Professor — urban, cultural, and social geography; refugee and migration studies; qualitative methods

Girma Kebede, Ph.D., Syracuse University, 1982, Professor — development geography; population and food resources; Africa environments, economic development, and political conflicts

Vivian Leung, ABD., University of Washington, 2017, Mount Holyoke Fellow, Visiting Instructor — geology

Eugenio Marciano, Ph.D., Cornell University, 2006, GeoProcessing Lab Manager and Instructor in Geography — Geographic Information Systems (GIS); spatial analysis; soil science

Michelle J. Markley, Ph.D., University of Minnesota, 1998, Associate Professor — structural geology and tectonics

Mark A.S. McMenamin, Ph.D., University of California-Santa Barbara, 1984, Professor — paleontology, stratigraphy; history of life; evolution of the atmosphere; dynamic paleontology; Ediacaran fossils; Hypersea theory; Proterozoic supercontinent Rodinia; Vladimir Vernadsky's the Biosphere; convergent evolution; development and spread of biological and human innovations

Thomas L. Millette, Ph.D., Clark University, 1992, Professor — remote sensing; Geographic Information Systems (GIS); environmental and urban planning

Penny Taylor, ABD., University of Houston, 2005, Geology Lab Director — environmental geology; methods and earth science

Samuel Tuttle, Ph.D., Boston University, 2017, Visiting Assistant Professor — hydrology; soil science; data science

Alan Werner, Ph.D., University of Colorado, 1988, Professor — oceanography; environmental geology; climate change geology; sedimentology; ground water geology; surface processes; Quaternary geology

SALEM STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1932

GRADUATE PROGRAM FOUNDED: 1992

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED (yearly graduates): 36 Bachelors; 9 Masters

STUDENTS IN RESIDENCE: 86 Majors; 17 Masters; 7

Certificates

CHAIR: Keith A. Ratner

ADMINISTRATIVE ASSISTANT: Ronnette Wongus

FOR FURTHER INFORMATION WRITE TO: Dr. Keith Ratner, Department of Geography, Salem State University, 352 Lafayette St., Salem, Massachusetts 01970. Telephone (978) 542-6225. Fax (978) 542-6269. E-mail: rwongus@salemstate.edu. Internet: <https://www.salemstate.edu/academics/colleges-schools/college-arts-and-sciences/geography>

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.S. Degree in Cartography and GIS and a B.S. or B.A. degree in Geography with three concentrations; general geography, environmental sustainability, sustainable tourism. At the graduate level the department offers an MS and a graduate certificate in Geo-Information Science. All programs combine a strong academic geography background with applied fields in regional studies, physical geography, sustainable tourism development, remote sensing, computer mapping and GIS.

A senior year internship program provides for career counseling and occupational experience for academic credit. The internship program is connected to many businesses and agencies within the Salem-Boston metropolitan area, which also serves as a valuable resource for post graduate employment.

The department combines a strong background in the academic tradition of geography with applied fields such as: Environmental sustainability; Sustainable tourism; GIS; Remote sensing and digital image processing; and cartography. We train our students to be scientists as well as concerned global citizens. Faculty and students often work with local and regional and state organizations and NGOs on various environmental, socio-economic and justice related issues.

The Department is located next to the university Library, with its collections of geo-science journals and texts. Departmental facilities include the Digital Geography Laboratory (DGL), a geo-computing facility an extensive collection of mapping and analytical software.

The DGL is regarded as one of the best academic geography-based computer labs in New England.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System.

UNDERGRADUATE: Information on applications may be obtained from: <https://www.salemstate.edu/admissions-and-aid/undergraduate-admissions/applicants/first-year-applicants> or The Admissions Office, Salem State University, Salem, MA 01970, (978) 542-6200. S.A.T. Scores are required.

GRADUATE: Information on applications may be obtained from: <https://www.salemstate.edu/graduate/admissions> or The Division of Graduate Education, Salem State University, Salem, MA 01970, (978) 542-6300 GRE Scores are required.

FINANCIAL AID: Information on Financial may be found at: <https://www.salemstate.edu/finaid> or Financial Aid Department, Salem State University, Salem, MA 01970, (978) 542-6112.

Financial aid includes .E.O.G., Pell Grant, College Work-Study, Massachusetts State Scholarships, National Direct Student Loan, Massachusetts Tuition Waiver Program, Guaranteed Student Loan Program, Presidential Scholars, Alumni Scholarship awards. Graduate Assistantships are available.

FACULTY:

Ana Emlinger, Ph.D., University of Massachusetts Amherst, 2016, Assistant Professor — urban and regional planning, sustainability, cultural landscapes, Brazil

William L. Hamilton, Ph.D., Oregon State, 1980, Professor — computer assisted cartography, quantitative methods, GIS, oceanography and meteorology

John T. Hayes, Ph.D., UCLA, 1986, Associate Professor — climatology, global change, physical, environmental impact assessment, natural resource management, sustainability science

Noel Healy, Ph.D., NUI, Galway, Ireland, 2010, Associate Professor — climate and energy justice, climate politics, energy transition, sustainability, sustainable tourism

Lorri K. Krebs, Ph.D., Waterloo, Canada 2004, Professor — sustainable tourism, resource management, economic geography, entrepreneurship and the environment, Caribbean, Canada

Marcos Luma, Ph.D., University of Delaware, 2007, Professor — GIS, data science, environmental justice, social equity, sustainability

Keith A. Ratner, Ph.D., Denver, 2000, Professor, Chairman — urban, regional and transportation planning, GIS, United States,

Steven Silvern, Ph.D., Wisconsin at Madison, 1995, Professor — sustainability, Native Americans, environmental justice, political geography

Stephen S. Young, Ph.D., Clark, 1997, Professor — remote sensing, drones, environmental sustainability

PART-TIME FACULTY:

Brian Cacchiotti, M.S. University of Minnesota — meteorology, wind power

Carolyn Damato, M.S. Geography, Indiana University of Pennsylvania, 2008 — urban planning, crime and geography

Arthur A. Francis, B.S., Salem State College, 1979, Lab Meteorologist

Sheila Gibbons, M.A. University of Maryland, Environmental Policy — environmental perception, geographic education, human-environmental interaction

Anthony LaVerde, B.S., Salem State College, 2004, M.S., Salem State University, 2018 — geo-information science, spatial database, GIS software development, SQL, python, GIS data processing and analysis, GPS survey, drone imagery

Jeffrey Pearlman, M.A. Northeastern University — regional geography, United States and Canada, world regions, New England

Jacob Silverio, M.S. Environmental Studies, University of Massachusetts, Lowell — air pollution, forecasting, meteorology, sustainability

STAFF:

Kym Pappathanasi, B.A., Vermont, 1991, Systems Manager, Graduate Certificate in Cartographic Sciences, Salem State College, 1991 — Digital Geography Laboratory

EMERITUS FACULTY:

Laurence E. Goss, Jr., Ph.D., Washington at Seattle, 1973, Professor — urban and regional planning, tourism development, Europe

Stephen Matchak, Ph.D., North Carolina at Chapel Hill, 1982, Professor — tourism, cultural, landscape, New England

Theodore S. Pikora, Ph.D., Boston, 1973, Professor — recreation, tourism, research methods

UNIVERSITY OF MASSACHUSETTS AMHERST

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1938

GRADUATE PROGRAM (GEOGRAPHY) FOUNDED: 1980

DEGREES OFFERED: B.A., B.S., M.S., Ph.D.

GRANTED 9/1/18-8/31/19: Geography: 10 Bachelors, 11 Masters, 1 Ph.D.

GEOGRAPHY STUDENTS IN RESIDENCE: 43 Majors, 14 Masters, 1 Ph.D.

NOT IN RESIDENCE: 3 M.S., 1 Ph.D.

CHAIR: Stephen Burns (Geosciences)

DEPARTMENT ADMINISTRATIVE ASST: Christopher Stanavage

FOR FURTHER INFORMATION WRITE TO: Professor Piper Gaubatz, Department of Geosciences, University of Massachusetts, Amherst, Massachusetts 01003. Telephone (413) 545-0768. Fax (413) 545-1200. E-mail: gaubatz@geo.umass.edu. Web page: blogs.umass.edu/umgeog

PROGRAMS AND RESEARCH FACILITIES: The department offers an M.S. degree in geography and a Ph.D. in geosciences with a concentration in geography. Faculty specialize in Environmental History, Environmental and Conservation Issues and Policy, Political Geography, Urban Geography, Urban Environmental History, Political Ecology, Climatology, Paleoclimatology, Geomorphology, Quaternary Studies, Ecological Cycling, Spatial Information, and the regional contexts of North America, East Asia, and South Asia. Geosciences houses labs for GIS and digital mapping. A single-year (12 month) MS is possible for students who have already earned a Bachelor's degree in Geography, and for students interested in a focus on GIST. The B.A. and B.S. programs feature a core curriculum which emphasizes basic courses in both human and physical geography and skills acquisition in writing, field research, statistics, mapping, and geographic information science and technology. The B.A. program includes six concentration choices: human geography, environmental geography and sustainability, climate change and society, globalization and international studies, urban geography, and geographic information science and technology (GIST).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. Applications due November 1 for early action; January 15 for regular admission. SAT scores required. Undergraduate geography majors are enrolled in the College of Natural Sciences and must complete the College's distribution

requirements in addition to the requirements of the geography program in order to receive a Bachelor's degree. The department offers B.S. and B.A. degrees in geography. University, State, and private scholarships and grants, loans, work-study and tuition waivers are available to qualifying students. Students applying for financial aid are automatically considered for all types of aid.

GRADUATE: Semester system. GRE scores and a minimum cumulative average of 3.00 (4 point system) or equivalent is required. Deadline for applications is February 1 for admission in fall. For students interested in the one-year MS Geography GIST option, no GRE scores are required; for other applicants, GRE scores are suggested but not required. An MS in geography and a Ph.D. in Geosciences (with a concentration in geography) are offered. Teaching assistantships and minority graduate fellowships are awarded on a competitive basis, subject to availability, and carry a tuition waiver. Full- and half-time research assistantships may also be available on specific research projects.

FACULTY:

Toby Applegate, Ph.D., Rutgers, 2014, Lecturer — political and cultural geography, Europe
Forrest Bowlick, Ph.D., Texas A&M, 2016, Lecturer — GIS, Geographic Education
Piper Gaubatz, Ph.D., California-Berkeley, 1989, Professor — urban, environmental history, China, Japan, United States
Mike Rawlins, Ph.D., Univ. of New Hampshire, 2006, Extension Associate Professor — climate processes, terrestrial water and carbon cycles
Stan Stevens, Ph.D., California-Berkeley, 1989, Senior Lecturer, Graduate Program Director — political ecology, environmental and conservation issues, environmental history, protected areas, indigenous peoples
Eve Vogel, Ph.D., Oregon, 2007, Associate Professor — political and environmental geography, river and electricity policy, politics, institutions, history
Qian Yu, Ph.D., California-Berkeley, 2005, Associate Professor — GIScience, remote sensing, spatial modeling, biogeography

EMERITUS GEOGRAPHY PROFESSORS:

James A. Hafner, Ph.D., Michigan, 1970 — political ecology of development, migration, resource management, Southeast Asia in global context
William McCoy, Ph.D., Colorado, 1981 — geomorphology
Rutherford H. Platt, J.D., Chicago, 1967; Ph.D., Chicago, 1971 — ecological cities, planning law, land & water resource management
Richard W. Wilkie, Ph.D., Washington, 1968 — humanistic geography, sense of place/spirit of place, migration, Latin America, historical, visualizing information

ASSOCIATED FACULTY:

Raymond S. Bradley, Ph.D., Colorado, 1974, Distinguished Professor (Geosciences) — paleoclimatology, climatology, Arctic and alpine environments, global change
Stephen Burns, Ph.D., Duke, 1987, Professor and Department Head (Geosciences) — stable isotopes, paleoclimatology, speleothems
Brian W. Conz, Ph.D., Massachusetts, Amherst, 2008, Associate Professor (Westfield State) — political ecology, conservation, indigenous peoples, Central America
Julie Brigham-Grette, Ph.D., Colorado, 1985, Professor (Geosciences) — glacial geology, Quaternary stratigraphy and geochronology, sea level history, paleoclimatology
Robert M. DeConto, Ph.D., Colorado, 1998, Associate Professor (Geosciences) — climate modeling, oceanography, paleoceanography
Christine Hatch, Ph.D., California-Santa Cruz, 2007, Extension Assistant Professor (Geosciences) — hydrogeology, water resources and climate change, ecohydrology, surface water-ground water interactions

Isaac Larsen, Ph.D., Washington, 2013, Assistant Professor (Geosciences) — geomorphology
Justin Richardson, Ph.D., Dartmouth, 2015, Assistant Professor (Geosciences) — biogeochemistry, soils
John Woodruff, Ph.D., M.I.T., 2008, Assistant Professor (Geosciences) — sedimentology, coastal processes and hurricanes

WESTFIELD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING & SUSTAINABILITY

DATE FOUNDED: 1981

DEGREES OFFERED: Undergraduate Minors in Applied Geography, GIS, Regional Planning, Ethics and Policy, Commercial Recreation and Tourism; Undergraduate Degree in Regional Planning

GRANTED 9/2018 to 8/2019: 25 Majors in Regional Planning

STUDENTS IN RESIDENCE: 58 Minors, 50 Undergraduate Regional Planning Majors

CHAIR: Robert S. Bristow

DEPARTMENT ADMINISTRATIVE ASSISTANT:
 Lynelle Kuzontkoski

FOR FURTHER INFORMATION CONTACT: Geography, Planning & Sustainability (GPS) Westfield State University, 577 Western Avenue, Westfield, MA 01086. Telephone 413-572-8315. Fax 413-572-5470. Email lkuzontkoski@westfield.ma.edu. Internet <http://www.westfield.ma.edu/garp>. The Friends of GPS Facebook Group provide a social media presence.

PROGRAMS AND RESEARCH FACILITIES:

The Geography and Regional Planning Department of WSU offers introductory undergraduate courses in world regional, cultural, and physical geography, along with a full Bachelor of Science in Regional Planning curriculum. Upper level electives are offered in transportation geography, recreation and tourism planning, political ecology, sustainable energy, and climate change. GIS courses include Introductory and Advanced GIS, Web Based GIS, Geoprocessing and remote sensing. A GIS certificate program includes coursework in GIS, software management, remote sensing, and quantitative methods. Internships in GIS and Regional Planning are available. Undergraduate minors are offered in Applied Geography, GIS, and an interdisciplinary Commercial Recreation and Tourism.

The GPS Department has excellent facilities and equipment. A GIS lab with 20 stations is equipped with contemporary GIS, Remote Sensing, and Statistical Analysis software and is linked to large-format color printers. GPS equipment is available for class work as well as student and faculty research. A laptop cart provides mobile technology for instruction and a set of 20 Android tablets with data plans provide additional tools for classes and research such as quantitative methods, data collection and analysis in addition to the varied GIS and Remote Sensing experiences offered. We also host Liquid Galaxy, an immersive Google Earth experience for all students and visitors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University uses a semester system. Students may enroll full or part time and courses are available both on campus and online. Freshman applicants must meet the minimum eligibility requirements (a sliding scale based on a recalculated high school cumulative grade point average and SAT and/or ACT scores), established by Department of Higher Education (DHE) in order to qualify for admission to a state university. Further information is available at

<http://www.westfield.ma.edu/admissions>. Financial aid is available as need-based and merit-based scholarships.

GEOGRAPHY AND REGIONAL PLANNING FACULTY:

Carsten Braun, Ph.D., UMass-Amherst, 2006, Associate Professor — Physical Geography, Geographic Information Systems, Climate Change, Sustainable Energy
Robert S. Bristow, Ph.D., Southern Illinois University, 1990, Professor — Physical Geography, Quantitative Methods, Site Planning Studio, Tourism Planning
Brian W. Conz, Ph.D., UMass-Amherst, 2006, Associate Professor & Department Chair — Physical Geography, Political Ecology, Environmental Analysis, Central America
Alina Gross, Ph.D., UMass-Amherst, 2014, Assistant Professor — Community Planning, Urban Redevelopment, Housing
Timothy LeDoux, Ph.D., Michigan State University, 2013, Assistant Professor and Campus GIS Coordinator — Geographic Information Systems, Remote Sensing, Sustainable Foods
Karl Leiker, Ph.D., Penn State, 1976, Professor — Physical Geography, Meteorology, Severe and Unusual Weather
Dristi Neog, Ph.D., Florida State University, 2009, Assistant Professor — Community Planning, Transportation, GIS, World Regional Geography
Samuel Ndegeah, Ph.D., University of Idaho, 2015, Assistant Professor — World Regional Geography, Cultural Geography, Urban and Regional Planning, Cities of the Global South, Sub-Saharan Africa

EMERITUS FACULTY:

William Bennett, Ph.D.
Stephanie Kelly, Ed.D.
George Psychas, Ed.D.
Marijoan Bull, Ph.D.

WORCESTER STATE UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENT AND PHYSICS

DEGREES OFFERED: B.S. in Geography, B.S. in Environmental Science

GRANTED 2019: 21 (6 in Geography)

MAJORS: 35 Geography, 72 Environmental Science

CHAIR: William Hansen

FOR CATALOG INFORMATION WRITE TO: Department Secretary, Department of Earth, Environment and Physics, Worcester State University, 486 Chandler Street, Worcester, MA 01602. Telephone: 508-929-8583, E-mail: whansen@worcester.edu; Internet: <https://catalog.worcester.edu/undergraduate/school-education-health-natural-sciences/geography-earth-sciences/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth, Environment and Physics offers a B.S. degree in Geography. Students concentrate in earth systems science, environmental studies, GIS or earth science education. The department also offers a B.S. in Environmental Science, an interdisciplinary degree emphasizing earth sciences, biology and chemistry. Our hybrid department includes four physicists who offer a minor in Physics. The department is housed in the college's science building; facilities include a GIS lab and two small physical geography labs.

GEOGRAPHY FACULTY:

Patricia A. Benjamin, Ph.D., Clark University, 2002, Associate Professor — human dimensions of environmental change, cultural/political ecology, Africa, North America

Allison L. Dunn, Ph.D., Harvard University, 2006, Professor — atmospheric science, physical geography
William J. Hansen, Ph.D., City University of New York, 2002, Professor — GIS, remote sensing, cartography, environmental resource management
Douglas E. Kowalewski, Ph.D., Boston University, 2009, Associate Professor — geomorphology, climate modeling, glaciology
Nabin K. Malakar, Ph.D., University at Albany, State University of New York (SUNY) 2015 — physics, remote sensing, environmental data analytics
Alexander R. Tarr Ph.D., University of California, Berkeley, 2016, Assistant Professor — urban geography, food politics, critical GIS, social & racial justice

MICHIGAN

CALVIN UNIVERSITY

DEPARTMENT OF GEOLOGY, GEOGRAPHY, ENVIRONMENTAL STUDIES

DATE FOUNDED: 1983

DEGREES OFFERED: B.A. (Geography, Environmental Studies), B.S. (Environmental Geology, Environmental Science, Geology)

GRANTED 9/1/18 - 05/31/19: 25 Bachelors

MAJORS: 68

CHAIR: Mark D. Bjelland and Jason VanHorn

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Jason VanHorn or Mark Bjelland, Department of Geology, Geography, and Environmental Studies, Calvin College, 1740 Knollcrest Circle SE, Grand Rapids, MI 49546. Telephone (616) 526-7623. Fax (616) 526-6501. E-Mail: jvanhorn@calvin.edu, mdb38@calvin.edu. Web: <http://www.calvin.edu/geo>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geology, Geography and Environmental Studies offers Bachelor's Degrees and minor concentrations in Geography, Geology, Environmental Science, and Environmental Studies. It is a key participant in International Development Studies, Urban Studies, and Elementary and Secondary Education programs at Calvin University. Current full-time faculty include four geographers, two geologists, a specialist in environmental history and policy, and an earth science education specialist. The geography faculty have active research programs in aeolian and coastal geomorphology; environmental justice, refugee movements; Geographic Information Systems (GIS); water resources, paleoclimatology; urban sustainability, and the relevance of Christian ethics for geography and environmental studies. The curriculum emphasizes the natural, cultural, societal and spiritual contexts in which people live. The mission of the geography program is to expand students' knowledge of how humans transform and organize their physical, ecological and economic environments into cultural landscapes. Student participation in undergraduate research is a notable strength of the program. Student researchers have recently participated in investigations of coastal dune geomorphology and management; GIS applications to resource management and terrorism; community organizations among Eritrean refugees; industrial pollution and environmental justice; watershed management; public space in cities; and violence associated with natural resource conflicts. The department facilities include three teaching laboratories, two research laboratories, and a geospatial analysis laboratory for GIS, computer cartography, and spatial data analysis. The Geospatial Lab software includes ArcGIS, Erdas Imagine, Rockworks, GeoDA, Stata, and other relevant software for geographical research. The field

research lab used by physical geography students is designed for mechanical analysis of soil and sediment, and simulation of fluvial processes. Field equipment includes Juno GPS units, and a variety of meteorological, geomorphological and surveying instruments. The department also runs the on-campus weather station. The Department is a USGS repository, presently possessing over 8,000 maps. The department also operates a geospatial data server.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Calvin College is a comprehensive liberal arts college in the Reformed tradition of Christianity, located in metropolitan Grand Rapids, Michigan, on a 370-acre campus. Founded in 1876, it is one of the largest Christian colleges in North America with around 3,500 students, 100 academic programs, and an international reputation as a center of faith-shaped thinking. The academic year is based on a semester system with a January Interim. High school grades and college entrance test scores are used in selecting students for admission. Calvin College has a need and merit based financial aid program and more than 95% of the students receive some kind of financial aid. In addition, the department has a number of endowed scholarships that are awarded to students in the department. <http://www.calvin.edu/admin/admissions/>

FACULTY:

Henk Aay, Ph.D. Clark University, 1978, Emeritus Professor — cultural geography, geographic thought, Dutch immigration
Johnathan Bascom, Ph.D., University of Iowa, 1989, Professor — Africa, economic geography, refugees and internally displaced persons, geographic education
Ken Bergwerff, M.A.T., Grand Valley State University, 1988, Assistant Professor — geomorphology, science education
Mark D. Bjelland, Ph.D., University of Minnesota, 2000, Professor — urban geography, city planning, environmental justice, Geographic Information Systems
Melinda Higley, Ph.D., Illinois. 2018, Assistant Professor — paleoclimatology, sedimentology, hydrogeology, oceanography
James R. Skillen, Ph.D., Cornell University, 2006, Associate Professor — natural resource policy, environmental history, environmental ethics
C. Renee Sparks, Ph.D., University of Kansas 2001, Professor — mineralogy, petrology, structural geology, isotope geochemistry
Ralph F. Stearley, Ph.D., University of Michigan, 1990, Emeritus Professor — paleontology, historical geology, stratigraphy, sedimentology
Deanna van Dijk, Ph.D., University of Waterloo, 1998, Professor — aeolian and coastal geomorphology, cold-climate processes, wind erosion in complex environments
Jason E. VanHorn, Ph.D., Ohio State University, 2007, Associate Professor — Geographic Information Systems, cartography, remote sensing, geography of terrorism, geographic thought
Gerald Van Kooten, Ph.D. University of California, Santa Barbara, 1980, Emeritus Professor — exploration geology, geochemistry, energy

CENTRAL MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1901

DEGREES OFFERED: B.A., B.S., M.S. (Geographic Information Science)

GRANTED: 2017-2018 Year: 32 Bachelors

MAJORS: 134

CHAIR: Bin Li

DEPARTMENT ADMINISTRATIVE ASST: Nancy L. Bauer

GRADUATE COORDINATOR: Matthew Liesch

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Undergraduate Director: Mark Francek (franc1m@cmich.edu), Graduate Director: Matthew Liesch (liesc1me@cmich.edu), Department of Geography & Environmental Studies, Central Michigan University, 296A Dow Science Bldg., Mt. Pleasant, Michigan 48859. Telephone (989) 774-3323. Fax (989) 774-2907. Web: www.geo.cmich.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE:

The Department offers majors in Geography and Environmental Studies. The Geography major can pursue a concentrations in Geography, Geographic Information Science, and Environmental & Land Use Planning. Minors in Geography and Geographic Information Science are also offered. The Department has a long standing teacher preparation program and contributes to several interdisciplinary programs including the Environmental Health and Safety major and the Cultural and Global Studies program (including the Undergraduate Certificate in Human Geography). Geography courses are also components of programs in Biology, Environmental Science, Geology, Health Professions, and Sustainability and Environmental Policy.

GRADUATE: The Department offers an MS in Geographic Information Science. Thesis and non-thesis plans are available. An accelerated M.S. program is available for undergraduate seniors with exceptional academic qualification. Students can concentrate their studies in GIS, Spatial Data Science, Remote Sensing, Cartography, and/or an application area in Geography or related disciplines. The Department also participates in the interdisciplinary Graduate Certificate Program in Data Mining and the Ph.D. program in Earth and Ecosystem Science. The graduate curriculum prepares students for professional careers in public and private sectors as well as for entering Ph.D. programs.

The department maintains a wide range of leading professional software in GIS, Remote Sensing, statistics, and graphic design. Two Citrix metaframe servers allow easy access to application software through the Web. The soils/hydrology laboratory facilitates physical and chemical analysis. The department is home to the Michigan Geographic Alliance and the Center for Geographic Information Science, which provides additional resources for research and learning including a spectroscopy laboratory, a fleet of unmanned aerial systems with thermal and multispectral imagers, specialized software for photogrammetry and object-based image analysis, servers for Enterprise GIS, and a dedicated server for high-performance computing. Many faculty are members of the Institute for Great Lakes Research (IGLR) and advise undergraduate and graduate student projects related to the Great Lakes.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Central Michigan University is on the semester plan. Admission requirements are available on the university web site www.cmich.edu, or from the Director of Admissions, 100 Warriner Hall. Financial aid information may be obtained from the Director of Financial Aid, 220 Warriner Hall, Central Michigan University, Mount Pleasant, Michigan 48859. The Department offers the Thornthwaite, Olmstead, Calkins, and Richardson Scholarships.

GRADUATE: Admission to the graduate program requires applicants to (1) hold a bachelor's degree from an accredited college or university, (2) maintain at least a B average during the last 2 undergraduate years, (3) submit GRE scores, (4) submit 2 letters of recommendation, and (5) send application to the College of Graduate Studies at CMU.

Foreign students whose native language is not English must submit TOEFL scores or results of equivalent standard tests. Graduate assistantships include a 10-month stipend as well as waiver of 20 hours of tuition per year. Additional financial support is available through research assistantships and university fellowships. The Department offers the Grossa/Klopac Scholarship to students in the MS GISci program.

FACULTY:

Brian L. Becker, Ph.D., Michigan State University, 2002, Professor & Member of the Institute of Great Lakes Research — remote sensing, Great Lakes wetland ecology, environmental studies, GIS, CAD, GPS

Jorge A. Brea, Ph.D., Ohio State University, 1986, Associate Professor — population, Latin America, Third World development, urban geography

Anthony Feig, Ed.D., University of Texas at El Paso, 2004, Associate Professor — earth science education, quaternary geology

Mark Francek, Ph.D., University of Wisconsin-Milwaukee, 1988, Professor — earth science education, soils, physical geography

Marcello Graziano, Ph.D., University of Connecticut 2014, Assistant Professor & Member of The Institute for Great Lakes Research — economic geography, regional studies/regional sciences, energy geography, blue growth, mixed-methods, education & the economy

Benjamin Heumann, Ph.D., University of North Carolina at Chapel Hill, 2011, Assistant Professor, Director of CMU Center for Geographic Information Science & Member of the Institute of Great Lakes Research — remote sensing, GIS, biogeography, landscape ecology, ecological modeling, wetlands

Austin Jena Krause, M.S., University of Wisconsin-Madison, 2010, Lecturer — physical geography, environmental geography, geomorphology, hydrology, natural resources

Bin Li, Ph.D., Syracuse, 1993, Professor and Interim Chair — geographic information science, cartography, spatial statistics, remote sensing, economic geography, China

Michael J. Libbee, Ph.D., Syracuse, 1975, Professor and Co-coordinator of the Michigan Geographic Alliance — geographic education, teacher preparation, human geography

Matthew Liesch, Ph.D., Wisconsin, 2011, Associate Professor, Graduate Director & Member of the Institute of Great Lakes Research — cultural geography, vernacular landscapes, qualitative methods, environmental history, Great Lakes

M. David Meyer, Ph.D. Indiana State University, 1999, Lecturer — food and agriculture, Latin America, economic geography, cultural geography

David K. Patton, Ph.D., University of South Carolina, 1995, Professor and Acting Associate Dean — cartography, geographic visualization, GIS, urban planning

James A. Pytko, M.S., Central Michigan, 2009, Lecturer — physical geography, geographic information science

Yong Q. Tian, Ph.D., 1995, Waikato, New Zealand, Professor — geocomputation, land-water dynamics, environmental modeling, coastal ecology

XiaoGuang Wang, Ph.D., University of Michigan, 2009, Associate Professor — urban and regional planning, transportation and land use, GPS, GIS

Liann Yates, M.S.E.S., Indiana University, 1996, Lecturer — environmental science, physical geography, water resources

Tao Zheng, Ph.D. University of Maryland, 2007, Associate Professor & Member of the Institute of Great Lakes Research — atmospheric physics and chemistry modeling, data assimilation, and remote sensing

AFFILIATED:

Philip J. Gersmehl, Ph.D., University of Georgia, 1970, Research Scientist — spatial cognition, geography education

Marty Mater, B.A., Ohio University, Teacher Consultant, Michigan Geographic Alliance

EASTERN MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY & GEOLOGY

DATE FOUNDED: 1903

GRADUATE PROGRAM FOUNDED: 1927

DEGREES OFFERED: B.A., B.S., M.S.

STUDENTS IN RESIDENCE: 125 Undergraduate, 63 Graduate

GRANTED 5/30/18-05/15/19: 39 Bachelors, 36 Masters, 1 Certificate

HEAD: Rick Sambrook

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography & Geology, Eastern Michigan University, Ypsilanti, Michigan 48197. Telephone (734) 487-0218 or FAX (734) 487-6979. E-mail: rsambroo@emich.edu. World Wide Web: <http://www.emich.edu/geo/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography & Geology concentrates on the study of physical landscapes, their origins and the processes that alter them; the imprint of human activity on the earth's surface; the complex relationships among places; and the application of technology to human resource identification, conservation, and management. The department offers programs leading to the degree of Bachelor of Science/Bachelor of Arts degree with majors in EARTH SCIENCE AND EARTH SCIENCE TEACHING; GEOLOGY (including an optional concentration in hydrology); GEOGRAPHY (including an optional tourism concentration); GEOGRAPHY TEACHING; and URBAN AND REGIONAL PLANNING. Minors are offered in these fields, as well as in Geographic Information Systems, GIS and Remote Sensing, Environmental Analysis, and Historic Preservation.

Master of Science programs are offered in EARTH SCIENCE EDUCATION, GEOGRAPHIC INFORMATION SYSTEMS, URBAN PLANNING, and HISTORIC PRESERVATION. Our HISTORIC PRESERVATION graduate program, which celebrated its 30th Anniversary in 2009, is considered the largest and most comprehensive in the country. A geographic information systems and computer mapping facility is available to meet instructional and research needs. The department maintains close affiliation with the Institute for Geographic Research and Education, a research and outreach center that provides opportunities for students and faculty to apply geographic knowledge to the practical needs of communities and agencies throughout Michigan and the Great Lakes region. Four student groups are associated with department programs: the Geo-Club; Preservation Eastern, the Planning Awareness Club of Eastern (PLACE) and the Travel and Tourism Student Association.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The semester system.

UNDERGRADUATE: 1) High School diploma or equivalent, 2) meet general university admission requirements, 3) submission of ACT or SAT test scores.

GRADUATE: 1) a bachelor's degree from an accredited institution, 2) meet Graduate School requirements, 3) have attained a 2.75 GPA.

FINANCIAL AID: Numerous scholarship, grant, and loan opportunities are administered through the university's Office of Financial Aid. The department awards approximately fifteen graduate assistantships that are available for up to two years of study. Assistantships carry a tuition waiver and monthly stipend. The department also annually awards several scholarships based on grades, activities, and needs. Awards generally range from \$500 to \$1,000.

FACULTY:

Dan Bonenberger, Ph.D., West Virginia University, 2008, Associate Professor — historic preservation, heritage interpretation
Michael Bradley, Ph.D., Utah, 1988, Professor — structural geology, petrology, petroleum geology
Nancy Bryk, M.A., Michigan, 1980, M.B.A. Michigan, 2007, Associate Professor — American culture, heritage and historic interpretation, preservation and tourism, historical administration, museum studies
Christine Clark, Ph.D. University of Manitoba, 2002, Professor — mineralogy, petrology, pegmatology, environmental mineralogy
Matthew R. Cook, Ph.D. University of Tennessee Knoxville, 2016, Assistant Professor — cultural/historical geography, historic interpretation, memory studies, race and racial justice, American South, critical pedagogy
Christopher A. Gellasch, Ph.D., University of Wisconsin – Madison, 2012, Assistant Professor — hydrogeology, hydrology, hydromechanical modelling
Robert Jones, Ph.D. Portland State University, 1999, Professor — planning, urban geography, historic preservation
Heather Khan-Welsh, Ph.D., Florida State University, 2008, Associate Professor — economic and community development, urban policy and politics, urban public finance, growth management, regional planning
Tom Kovacs, Ph.D., Penn State, 2000, Professor — meteorology, Interdisciplinary Environmental Science & Society (IESS) program
Theodore Ligibel, Ph.D., Bowling Green (Ohio), 1994, Professor — cultural geography, historic preservation, cultural tourism
Steve LoDuca, Ph.D., Rochester, 1990, Professor — paleontology, sedimentology, stratigraphy
John Oswald, Ph.D., University of Texas at Austin, 2013, Associate Professor — community and regional planning, human-environment interaction, urban-political geographic analysis of divided cities and societies
M. Serena Poli, University of Padova (Italy), 1995, Professor — oceanography, micropaleontology, paleoclimatology
Eric W. Portenga, Ph.D., University of Glasgow, UK & Macquarie University, Australia, 2015, Assistant Professor — fluvial geomorphology, landscape evolution, human-landscape interactions, glacial geomorphology, cosmogenic nuclides, geoarchaeology, geochronology
Richard A. Sambrook, Ph.D., Michigan State University, 1992, Professor & Head — Latin America, regional economic development, geotourism
Hugh Semple, Ph.D., 1997, University of Manitoba, Professor — cartography, cultural geography, geographic information systems,
William F. Welsh, Ph.D., University of North Carolina-Chapel Hill, 2001, Professor — GIS, remote sensing, environmental geography
Xining Yang, Ph.D. Ohio State University, 2015, Assistant Professor — GIS, geospatial big data analytic, quantitative methods in geography, geovisualization, health geography
Yichun Xie, Ph.D., Buffalo, 1994, Professor — geographic information systems, physical geography, urban and regional planning

LECTURERS:

Kelly Victor-Burke, M.S., Eastern Michigan University, 1989, Lecturer III — geography, geotourism, tourism geography, Russia and the former Soviet Union

EMERITUS FACULTY:

Michael Kasenow, Ph.D., Western Michigan, 1994, Professor — hydrology, science education
Andrew A. Nazzaro, Ph.D., Michigan State, 1974, Professor — cultural geography, Africa, medical, international development
Norman Tyler, Ph.D. Architecture, 1987, University of Michigan, Professor — urban and regional planning, historic preservation

GRAND RAPIDS COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL SCIENCES

DEGREES OFFERED: A.A., A.S.

GEOGRAPHY MAJORS: 7

DEPARTMENT EDUCATIONAL SUPPORT

PROFESSIONAL: Stacey Herrick

FOR INFORMATION WRITE TO: Dr. M.S. DeVivo, Social Sciences Department, Grand Rapids Community College, 143 Bostwick NE, Grand Rapids, MI, 49503. E-Mail: mdevivo@grcc.edu. Web site: <https://www.grcc.edu/socialsciences/geography>

Program: The Geography program at Grand Rapids Community College (GRCC) seeks to achieve excellence by integrating a rich and challenging curriculum with field studies in the U.S. and abroad, while also making substantive contributions to geographical research. Eight undergraduate courses are listed in the curriculum, and six of them are currently offered online as writing intensive courses to students across the globe: World Regional Geography, Cultural Geography, Geography of Michigan, Immigration and Ethnicity in America, Introduction to Globalization and Inequality, and the Regional Geography of the U.S. and Canada. Additionally, the Physical Geography course is designated as a lab science, and it is offered in both hybrid and online formats. Moreover, short courses devoted to Utilities GIS are offered to students enrolled in GRCC's Public Works Academy.

GRCC Geography majors are expected to make presentations at academic conferences, and several have received scholarships and awards for field studies, as well as completion of the baccalaureate and conference participation. In recent years, students have conducted fieldwork throughout the U.S., Latin America, and Sub-Saharan Africa. Most of the program's graduates transfer to Aquinas College or Grand Valley State University to complete their undergraduate studies, and a majority of alumni have been successful in gaining funding to pursue M.A. and Ph.D. degrees in geography and urban affairs at a number of graduate programs including: Syracuse University, the University of Missouri, the University of Texas, the University of Maryland, Ohio University, Kent State University, Rutgers University, Cleveland State University, and Western Michigan University.

As GRCC is an institutional member of the World Affairs Council of Western Michigan, which is devoted to educating leaders in higher education and international business on matters pertaining to global affairs, the geography program plays a critical role. GRCC is also home to the Lambda Upsilon chapter of Gamma Theta Upsilon, which was distinguished with the award of Honors in 2013 and 2016. This GRCC chapter of the International Geographical Honor Society remains devoted to raising funds for the education of girls in Sub-Saharan Africa, while also advancing social justice in the local community and contributing to geographical scholarship; local efforts are for the most part dedicated to ameliorating food insecurity for school children and community college students.

Honorary GTU membership was awarded by Lambda Upsilon to New York Times columnist Nicholas Kristof in 2011. Annually, a geographer of distinction is invited to deliver a lecture, which is sponsored by the Visiting Geographical Scientist Program (VGSP). VGSP distinguished speakers are among those interviewed for the Conversation with a Geographer oral history series, which is broadcast on GRCC TV and available for viewing on YouTube (<https://www.grcc.edu/socialsciences/geography/conversationwithageographer>).

Among the scholarships and awards presented by the Geography program is the GRCC Geography Field Cap, which is awarded to stellar graduates of the program, as well as those that have contributed to the advancement of Geography through fieldwork, exploration, research, teaching, publication, or exemplary service. In addition to selected alumni, all VGSP distinguished speakers are presented with this award; other recipients include: Nicholas Kristof, Niem Huynh, Alicia Decker, Richard Leakey, Anne Bonds, Courtney Gallaher, Jessie Clark, Jerome Dobson, and Lee Schwartz.

VGSP Distinguished Speakers:

2009 Leon Yacher
2010 Marie Price
2011 Leon Yacher
2012 Kate Swanson
2013 Rebecca Sheehan
2014 Caroline Faria
2015 Marie Price
2016 Maria Fadiman
2017 Karen Culcasi
2018 Jonnell Robinson
2019 Lindsay Naylor

GEOGRAPHY FACULTY:

Mike DeVivo, Professor, Social Sciences — leadership, history of geography, historical geography, geopolitics, African wildlife conservation and community development

Alyson Mabie, GIS Instructor, Public Works Academy — GIS education, urban geography and sustainable planning, environmental justice, craft beer industry, graffiti and street art

GRAND VALLEY STATE UNIVERSITY

DEPARTMENT GEOGRAPHY AND SUSTAINABLE PLANNING

DATE FOUNDED: 2000

DEGREES OFFERED: B.A., B.S. in Geography

GRANTED 9/1/18-8/15/19: 24

MAJORS: 62

CHAIR: Dr. Elena Lioubimtseva

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Ms. Amanda Reader

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Planning, B-4-105 Mackinac, 1 Campus Drive, Allendale, MI 49401. Telephone (616) 331-3065. Fax (616) 331 8635. E-mail: gpydept@gvsu.edu. Web: www.gvsu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Sustainable Planning at Grand Valley State University offers B.A. and B.S. degrees in Geography with four distinctive tracks:

- Geography with emphasis in Geospatial Technology
- Geography with emphasis in Urban and Regional Planning
- Geography with emphasis in Environment and Global Development
- Geography with emphasis in Climate Change Mitigation, Adaptation and Resiliency Planning

The department also offers minors in Geospatial Technology, Sustainable Urban and Regional Planning, and the Geography Education at the secondary level, and undergraduate certification programs in GIS Science and Technology and Sustainable Urban and Regional Planning.

The Department offers a wide selection of geography and urban and regional planning courses. Particular strengths include geospatial technology, global and regional development, environmental geography, and urban planning. The relatively small size of the department allows for very close interaction between faculty and students, and the possibility to build customized programs around students' specific interests.

Geography and Sustainable Planning is housed in LEED-certified Mackinac Hall, located GVSU main campus in Allendale, MI, a short drive between the Lake Michigan shore and vibrant Grand Rapids downtown, offering excellent opportunities for field research in the nearby state and nature centers as well as urban educational, research, and community engagement opportunities in Grand Rapids, Holland, Muskegon, and Lansing. Supplementing coursework are a state-of-the-art computer laboratory with GIS and remote sensing applications (ArcGIS with extensions, TerrSet, Erdas Imagine, Ecognition, ATCOR), MATLAB, MAGICC/SENGEN climate modeling software, field and laboratory equipment, three digital weather stations, Trimble GPS base station and receivers and excellent library resources.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Grand Valley State University operates on the semester system. Admission information is available at www.gvsu.edu/admissions. The focus of the geography major is on developing well-rounded graduates in the discipline who have a specialization or particular area of interest within the major. The requirements for the major in geography and planning comprise the completion of the general education program requirements and at least 36 semester credits in geography and planning with a minimum GPA of 2.0. Information about financial aid, scholarships and employment opportunities for students is available at www.gvsu.edu/financialaid/.

The geography major requirements include 12 credits of required courses and the remainder of upper-level geography electives, as well as the University requirements for a B.A. or B.S. degree. The department offers a wide range of upper level courses focused on GIS, remote sensing and image processing, global and regional development, environmental geography, urban and regional planning, paid and unpaid internships, as well as study abroad programs, including an intensive faculty-led summer school in sustainable urban and regional planning in the Netherlands and a field research class in Peru.

FULL-TIME FACULTY:

Roy Cole, Ph.D., Michigan State University, 1991, Professor — global development, Africa, Middle East, land-use/land cover change

Chad P. Frederick, Ph.D., University of Louisville, 2016, Assistant Professor — urban and regional planning, urban sustainability, transportation planning, multimodality

Elena Lioubimtseva, Ph.D., Moscow State University, 1994, Professor — climate change, human vulnerability and adaptations, arid environments, Russia and Central Asia

Kin Ma, Ph.D., Michigan State University, 2007, Assistant Professor — physical geography, cartography, remote sensing, global change, GIS, East Asia

James Penn, Ph.D., University of Florida, 2004, Associate Professor — Latin America, Amazon, development and globalization, agriculture, forestry

Wanxiao Sun, Ph.D., Johannes Gutenberg University of Mainz, 1999, Associate Professor — remote sensing, digital image processing, advanced GIS

Jeroen Wagendorp, Ph.D., AICP, GISP, University of Oklahoma, 1989, Associate Professor — public sector GIS institutionalization, Western Europe, the Netherlands

Yanning Wei, Ph.D., University of Washington, 2016, Visiting Professor — GIS, computer cartography, urban and regional planning, China

Gang Xu, Ph.D., Johannes Gutenberg University of Mainz, 1996, Associate Professor — economic geography, GIS applications for business decisions, urbanization, China

ADJUNCT FACULTY:

Michael Gutowski, M.A., Western Michigan University, 2008 — regional geography, physical geography

Steven Stepek, M.P.A., Grand Valley State University, 2006, AICP — transportation planning

Judith Transue, MA., Northwestern University, 1966, MSW., University of Michigan, 1972, MA., Michigan State University, 2000 — regional planning, housing and community organizing

Jonathan Wessell, A.B.D. Walden University, MA, Western Michigan University, 1997 — regional geography, cultural geography

MICHIGAN STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SPATIAL SCIENCES

DATE FOUNDED: 1955

GRADUATE PROGRAM FOUNDED: 1952

DEGREES OFFERED: BA, BS, MS, and PhD

GRANTED 9/2/18-8/18/19: 26 Bachelors, 6 Masters, 7 PhD

STUDENTS IN RESIDENCE: 69 Majors, 13 Masters, 46 PhD

NOT IN RESIDENCE: 1 PhD

CHAIR: Alan F. Arbogast

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Alan F. Arbogast, Chair, Department of Geography, Environment, and Spatial Sciences, Michigan State University, Geography Building, 673 Auditorium Rd, Rm 116, East Lansing, Michigan 48824. Telephone (517) 355-4649. Fax (517) 432-1671. E-mail: geo@msu.edu. Internet: www.geo.msu.edu.

GRADUATE PROGRAMS AND RESEARCH FACILITIES:

Graduate programs are designed to give various levels of professional competence in the theory, substance, methodology, and tools of geography. Systematic fields of emphasis are physical geography; GIScience and remote sensing; economic geography; and regional development, with other programs possible. Faculty research and travel give regional strength in Africa, Latin America, East Asia, and the United States. Strong supporting fields include the social sciences, climatology, soils, geomorphology, planning, epidemiology, forestry, resource development, recreation, and tourism. Research is facilitated by the African, Asian, and Latin American Studies Centers. The MSU library contains over 5 million volumes and a map library. Department facilities include Linux and Windows computer laboratories and modern soils laboratories. There is easy access to the department's Remote Sensing and GIS Research and Outreach Services, the Center for Global Change and Earth Observations, the Global Urban Studies Program, and the Office of the State Climatologist and Michigan Meteorological Resources Program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: *Academic Plan* semester system. *Admission requirements for B.A. or B.S.* admission to university and acceptable academic standing. Degree requirements include 120 semester credit hours including 30 semester hours in geography. Internships available.

GRADUATE: *Academic Plan* semester system. *Admission guidelines for M.S.* completion of an undergraduate degree with a 3.4 average for the last two academic years and satisfactory GREs; any qualified student is encouraged to apply. *Ph.D.* completion of a masters degree with thesis or equivalent, satisfactory grade-point average and GREs.

Teaching assistantships, university scholarships, research assistantships, M.S.U. Graduate Office Fellowships, and other awards are available. Women and minorities are encouraged to apply. Monthly half-time stipends start at ~ \$1,500 (plus nine credits of tuition per semester and health insurance). Deadline for applications is December 31 for financial aid the following autumn. Early application is helpful

GEOGRAPHY FACULTY:

Jeffrey A. Andresen, PhD, Purdue, 1987, Professor — agricultural meteorology/climatology

Alan F. Arbogast, PhD, Kansas, 1995, Professor and Chairperson — Quaternary geomorphology, paleo-environments, physical

Guo Chen, PhD, Penn State, 2007, Associate Professor — urban, China

Jiquan Chen, PhD, Washington, 1991, Professor — coupled human/natural systems, ecosystem analysis, forest ecology, remote sensing

Kyla Dahlin, PhD, Stanford 2012, Assistant Professor — plant ecology, remote sensing

Joe T. Darden, PhD, Pittsburgh, 1972, Professor — urban, social-cultural, U.S.

Kyle Evered, PhD, Oregon, 2002, Associate Professor — cultural, political, Middle East

Andrew Finley, PhD, Minnesota, 2007, Associate Professor — forestry, quantitative modeling

Sue C. Grady, PhD, CUNY, 2005, Associate Professor — medical, GIS, population

Geoffrey Henebry, PhD, University of Texas at Dallas, 1989, Professor — environmental sciences

Arika Ligmann-Zielinska, PhD, San Diego/UC-Santa Barbara, 2008, Associate Professor — environmental and social modeling

Lifeng Luo, PhD, Rutgers, 2003, Associate Professor — climate, meteorology, climate change

Elizabeth A. Mack – PhD, Indiana, 2010, Associate Professor — economic development, telecommunications policy, entrepreneurship

Joseph Messina, PhD, North Carolina, 2001, Professor — global environmental change, GIS

Nathan Moore, PhD, Duke, 2004, Associate Professor — land-atmosphere interactions, regional climate modeling, land use/land cover dynamics

Emilio Moran, PhD, Florida, Professor — Latin America, human-environment interactions, tropical agriculture, land use

Amber L. Pearson, PhD, Washington, 2010, Assistant Professor — epidemiology, health geography

Jiaguo Qi, PhD, Arizona, 1993, Professor — remote sensing, optical and microwave sensors, process-oriented models

David P. Roy, PhD, Cambridge University U.K., 1994, Professor — remote sensing

Raechel A. Portelli (formally White), PhD, Penn State, 2014, Assistant Professor — cognitive GIScience, geovisualization, remote sensing

Randall J. Schaetzl, PhD, Illinois, 1987, Professor — soil geomorphology, plant geography, Quaternary studies, physical

Ashton Shorridge, PhD, UC-Santa Barbara, 2000, Professor — GIS

Igor Vojnovic, PhD, Toronto, 1997, Professor — urban, economic

Julie A. Winkler, PhD, Minnesota, 1982, Professor — synoptic climatology, severe storms, physical geography

Catherine Yansa, PhD, Wisconsin, 2002, Associate Professor — paleo-environments, physical

Sharon Zhong, PhD, Iowa State, 1992, Professor — climate models

Leo C. Zulu, PhD, Illinois, 2006, Associate Professor — Africa, GIS, remote sensing

ASSOCIATED FACULTY:

Juliegh Bookout, MA, Michigan State, 2006, Visiting Instructor — online instruction

Erin Bunting, PhD, University of Florida, 2014, Assistant Professor — remote sensing, climate change, land systems science, savanna ecology, geographic information systems

Peilei Fan, PhD, MIT, 2003, Adjunct Associate Professor — planning, China

Grant E. Gunn PhD, University of Waterloo, 2015, Assistant Professor — remote sensing of lake & sea ice

Sarah L. Hession PhD, Michigan State, 2011, Academic Specialist — climate and global change analysis, environmental statistics, and health geography

Robert K. Hitchcock, PhD, New Mexico, 1982, Adjunct Professor — human-environment interactions

Andrew G. Huff, PhD, University of Minnesota, 2014, Adjunct Assistant Professor — spatial epidemiology, infectious disease forecasting, emerging infectious diseases

Eva Kassens-Noor, PhD, MIT, 2009, Adjunct Associate Professor — planning, transportation

Michael Kiefer, PhD, North Carolina State University, 2009, Fixed Term Assistant Professor — atmospheric science and applied climatology

Keith Mason, PhD, Michigan State, 2018, Outreach Specialist — agricultural meteorology/climatology

William McConnell, PhD, Clark University 2000, Adjunct Associate Professor — sustainability, land use, land-cover change, Africa

Frederick E. Nelson, PhD, University of Michigan, 1982, Adjunct Professor — polar regions, periglacial geomorphology

Richard C. Sadler, PhD, University of Western Ontario, 2013, Adjunct Assistant Professor — urban geography, medical geography, GIS

Gary Schnakenberg, PhD, Michigan State, 2013, Advisor/Instructor — human environment interactions

Yi Shi, PhD, Michigan State, 2008, Assistant Professor — online instruction

Beth Weisenborn, MA, Michigan State, 2001, Outreach Specialist — online instruction

EMERITUS FACULTY:

Kenneth E. Corey, PhD, Cincinnati, 1969, Professor Emeritus

Michael Chubb, PhD, Michigan State, 1967, Professor Emeritus

Richard E. Groop, PhD, Kansas, 1976, Professor Emeritus

David Lusch, PhD, Michigan State, 1982, Senior Specialist Emeritus

Gary A. Manson, PhD, Washington, 1979, Professor Emeritus

Assefa Mehretu, PhD, Johns Hopkins, 1969, Professor Emeritus

Judy Olson, PhD, Wisconsin, 1979, Professor Emeritus

Bruce Wm. Pigozzi, PhD, Indiana, 1979, Professor Emeritus

Jack F. Williams, PhD, Hawaii, 1973, Professor Emeritus

Robert I. Wittick, PhD, Iowa, 1972, Professor Emeritus

NORTHERN MICHIGAN UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOGRAPHICAL SCIENCES

DATE FOUNDED: 1905

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/17–8/31/18: 72 Bachelors

MAJORS: 274

CHAIR: Susy S. Ziegler (Head)

DEPARTMENT ADMINISTRATIVE ASST: Jana Nicholls

FOR FURTHER INFORMATION WRITE TO: Susy S. Ziegler, Head, Department of Earth, Environmental, and Geographical Sciences, 1401 Presque Isle Ave., Northern Michigan University, Marquette, Michigan 49855-5301. Telephone (906) 227-1104, Fax (906) 227-1621. E-mail: eeegs@nmu.edu. Internet: www.nmu.edu/eeegs. Facebook: <https://www.facebook.com/NMUEEGS/>.

PROGRAMS AND RESEARCH FACILITIES: The undergraduate program offers majors in Earth Science; Environmental Science; Environmental Studies and Sustainability; Geomatics. Each major is designed to prepare students for graduate education and employment in a wide range of environmental fields. The department also offers a certificate in geographic information systems. Housed in a modern science building, the university and department offer excellent library services, field courses, and laptops and software needed for coursework. Students may complete internships and study abroad experiences related to the majors. The department has a Geographic Information Systems/Remote Sensing Lab, research laboratories, a hoop house, and an on-campus Outdoor Learning Area for experiential, place-based learning about biogeography, geology, hydrology, landscape processes and history, soils, weather and microclimate.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system and summer program.

Admission Requirements:

<https://www.nmu.edu/admissions/applyto>

Financial Aid: Scholarships, grants, loans, and work study.

FACULTY:

Michael J. Broadway, Ph.D., University of Illinois, 1983, Professor — human geography, social geography, food studies

Norma J. Froelich, Ph.D., Indiana University, 2009, Assistant Professor — climatology, physical geography, geographic research

Weronika Kusek, Ph.D., Kent State University, 2014, Assistant Professor — human geography, migration, population, international studies

Robert J. Legg, G.I.S.P., Ph.D., Trinity College Dublin, 2006, Associate Professor — GIS, cartography, quantitative methods

Sarah Mittlefehldt, Ph.D., University of Wisconsin-Madison, 2004, Associate Professor — environmental history, environmental policy, environmental justice, sustainability

Robert S. Regis, Ph.D., Michigan Technological University, 1997, Professor — geology, glacial geology, groundwater/ hydrogeology, remote sensing

Ryan J. Stock, Ph.D., University of Illinois, 2019, Assistant Professor — sustainable development, political ecology, gender and social differentiation, climate change and renewable energy, environmental justice

Matthew J. Van Grinsven, Ph.D., Michigan Technological University, 2015, Assistant Professor — physical geography, soils, hydrology, carbon cycling, biogeosciences

Richard D. Ziegler, M.S., University of Oregon, 1991, Contingent Instructor — geology, maps, physical geography, hydrogeology

Susy S. Ziegler, Ph.D., University of Wisconsin-Madison, 1999, Associate Professor and Head — biogeography, physical geography, environmental science, geographic research

SAGINAW VALLEY STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 2008

DEGREES OFFERED: Bachelor of Arts, GIS Certificate.

Minors are available in Geospatial Techniques, General Minor in Geography, and a Geography Minor for Teacher Certification

DEGREES GRANTED 9/1/18 – 8/31/19: 7

MAJORS: 16 Undergraduate Geography Majors

CHAIR: Frederick W. Sunderman III

PROGRAM ADMINISTRATIVE ASSISTANT: Lori Kranz

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Gilbertson Hall North 150, Saginaw Valley State University, University Center, Michigan 48710. Telephone (989) 964-2769. E-mail: geography@svsu.edu. Internet: www.svsu.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at Saginaw Valley State University offers undergraduate majors in Geography the opportunity to join faculty research projects in the areas of GIScience, Crime Mapping, Biogeography, Geomorphology, Cultural Geography, Urban Geography, Population Geography, Historical Geography and Remote Sensing. The department has a GIS/Remote Sensing laboratory, and physical geography laboratory equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major program in Geography is the same as for admission to the College of Arts and Behavioral Sciences. In addition to the University Core Curriculum requirements, undergraduate majors are expected to take Introduction to Physical Geography, North American Regional Geography, World Cultural Geography, Geographic Information Systems, Research Methods in Geography, and Geographical Inquiry. 18 additional credit hours of geography electives are required for the major. Undergraduate majors are eligible for earning credit through internal and external internship programs, and study abroad experiences.

FACULTY:

Martin Arford, Ph.D., University of Tennessee, 2008, Professor — environmental science, soil science, biogeography, paleoecology
Julie L. Commerford, Ph.D., Kansas State University, 2016, Visiting Assistant Professor — biogeography, paleoenvironmental change, GIS
Sara Beth Keough, Ph.D., University of Tennessee, 2007, Professor — human/cultural geography, urban geography, Canada, West Africa, qualitative methods
Rhett L. Mohler, Ph.D., Kansas State University, 2011, Associate Professor — remote sensing, land use/land cover change
Evelyn Ravuri, Ph.D., University of Cincinnati, 2001, Professor — population geography, urban geography, economic geography, Latin America
Frederick W. Sunderman III, Ph.D., Louisiana State University, 2001, Associate Professor — environmental historical geography, North America, history of geography

WESTERN MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1905

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.S. Geography, B.S. Community & Regional Planning, B.A. Tourism & Travel, M.S. Geography, Graduate Certificate in Geographic Information Science, Graduate Certificate in Unmanned Aerial Vehicles (UAV) Applications. Minors: Geography and GIScience

GRANTED 9/1/17-8/31/18: Bachelors: 24 in Geography, 1 in Community & Regional Planning, 7 in Tourism & Travel. Masters: 11, 5 Certificates

STUDENTS IN RESIDENCE: 119 Majors (45 in Geography, 28 in Tourism & Travel, 6 in Community &

Regional Planning), 9 in GIScience Certificate, 23 Masters

CHAIR: Benjamin Ofori-Amoah

DEPARTMENT ADMINISTRATIVE ASST: Mary Lou Brooks

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, 3244 Wood Hall, Western Michigan University, Kalamazoo, Michigan 49008-5424. Telephone (269) 387-3411. Fax (269) 387-3442. E-mail: ben.ofori@wmich.edu. Internet: www.wmich.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: The Department offers a B.S. degree in Geography, a B.S. degree in Community and Regional Planning, a B. A. degree in Tourism and Travel, an M. S. degree in Geography, a Graduate Certificate in Geographic Information Science, and a Graduate Certificate in Unmanned Aerial Vehicles (UAV) Applications. In the B.S. Geography degree, students may opt for concentrations in general geography, environmental analysis and resource management, geographic information science, climate science, urban, regional, and environmental planning, and secondary education. The B.S. in Community and Regional Planning requires core courses in planning and other social science disciplines and an elective. The B. A. in Tourism and Travel major requires a minor in either business or modern languages. The M.S. degree program in Geography includes foundation courses as well as opportunity for specialization in some aspect of Applied Geography. Thirty hours of approved graduate credits must be completed, of which at least twenty hours should be in geography. Students take nine hours of core courses (Geographic Research, History and Philosophy of Geography, and Spatial Analysis). Subsequently they select at least a three-course concentration in one of three areas: Environmental and Resources Analysis, Community Development and Planning, Geographic Information Science. Individualized planned program is also possible. The Graduate Certificate in GIScience develops competencies in geographic information system, remote sensing, and spatial analysis for post baccalaureate students with no or limited GIScience background. It requires a minimum of 19 credits including core and elective courses. The Graduate Certificate in UAV develops competencies in UAV operations and applications in geography and the environment. It requires a minimum of 9 credits and is offered in a conjunction with Western Michigan University's College of Aviation and the Extended University Program, as online and hybrid program.

The Department has 6 computer laboratories for teaching/learning and research to support GIS, climatology/meteorology, remote sensing, urban and regional planning, and physical geography. Equipment includes state-of-the-art computer hardware and geographic and statistical analysis software. The department operates the W.E. Upjohn Center for the Study of Geographical Change, which provides the academic community world class document, maps, photographs, and text preservation and digitalization. The center has the world's best equipment for large format scanning. The department also actively cooperates with the University's interdisciplinary Environmental Studies Program, the University's Health Data Research, Analysis and Mapping Center (HDRaM), University's Transportation Research Center for Livable Communities, and in the Michigan Geographic Alliance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: The University operates on a semester system and 122 semester credit hours of acceptable course study in a planned curriculum are necessary to receive a degree. First year students must submit ACT scores and transfer students must provide transcripts from their institution for admission. Undergraduate scholarships, student employment and assistantships are available through the Department of Geography. Per the rules of the College of Arts &

Sciences, all undergraduate geography and tourism and travel majors are required to take a minor outside of geography.

GRADUATE: Graduate courses are concentrated during the Fall and Spring semesters, although academic progress may be accelerated through independent study during the Summer I and II terms. Students with at least a 3.0 grade-point average (A=4.0) during the last four semesters of undergraduate work are eligible for admission to the program. Students make general application for admission through the Admission Office online site. Teaching and Research Assistantships for the academic year (September-April) are available. All applicants to MS program are automatically considered for financial assistantship. Graduate assistants are provided office space, as are other graduate students insofar as possible.

FACULTY:

Kathleen Baker, Ph.D., Michigan State, 2002, Professor, Director, W.E. Upjohn Center for the Study of Geographical Change and HDRReAM — geographic information science, physical geography, geospatial techniques, spatial analysis, and agricultural and biogeography

Lisa DeChano-Cook, Ph.D., Southwest Texas, 2000, Associate Professor — environmental geography, physical geography, hazards, environmental impacts, sports geography, space studies, general physics

Todd Ellis, PhD, Colorado State University, 2008, Assistant Professor — meteorology and climatology, earth science education K-12, informal atmospheric, remote sensing

Charles Emerson, Ph.D., Iowa, 1996, Professor — geographic information science, remote sensing, geospatial techniques, spatial analysis, unmanned aerial vehicles operations and applications

Lucius Hallett IV, Ph.D., Kansas, 2007, Associate Professor — human geography, tourism and travel, culinary geography and food networks, regional geography, agricultural geography, agritourism

Chansheng He, Ph.D., Michigan State, 1992, Professor — natural resource management, geographic information systems, agricultural zoning, agronomy, physical geography, water resource management

David Lemberg, Ph.D., AICP, California-Santa Barbara, 1998, Associate Professor — community and regional development planning

Adam Mathews, Ph.D., Texas State University, 2014, Assistant Professor — GIScience, remote sensing, cartography, unmanned aerial systems applications

Lei Meng, Ph.D., Texas A&M University, 2009, Associate Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics

Benjamin Ofori-Amoah, Ph.D., Simon Fraser, 1990, Professor & Department Chair — economic geography, urban and regional planning, economic development, Africa

Nicholas Padilla, Ph.D., University of Wisconsin-Milwaukee, 2017, Instructor — environmental geography, Latin America, indigenous geographies

Joseph P. Stoltman, Ed.D., Georgia, 1971, Professor — geographic education, cultural geography

Gregory Veeck, Ph.D., Georgia, 1988, Professor — economic geography, agricultural geography, China, qualitative methods, research methods in geography, agritourism, political geography

Li Yang, Ph.D., Waterloo, 2007, Associate Professor — tourism planning, tourism marketing, and cultural tourism

Laiyin Zhu, Ph.D., Texas A&M University, 2013, Assistant Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics, geographic information science

PART-TIME FACULTY:

Michael Gutowsky, M.A. Western Michigan University, Instructor — geographic information systems, physical geography, political geography, remote sensing, regional geography

Rebecca Harvey, M.A., Western Michigan University, 1988, AICP American Institute of Certified Planners, PCP State of Michigan Professional Community Planner, Instructor — community and regional planning, planning zoning, groundwater protection, local land use, development of open space, community planning consultant.

James McManus, M.A. Western Michigan University, 1992, B.S. Valparaiso University, 1987, AICP American Institute of Certified Planners, PCP State of Michigan Professional Community Planner, Instructor — geographic information systems (GIS), physical geography, community and regional planning, planning zoning, groundwater protection, local land use, soil erosion program, county planning director since 1994

Jessica Wesel, M.A. Western Michigan University — environmental geography

EMERITI FACULTY:

David G. Dickason, PhD, Indiana — land and water resources assessment, geodata information processing, South Asia

Val Eichenlaub, Ph.D., Ohio State — meteorology and climatology, U.S. and Canada

Rainer R. Erhart, Ph.D., Illinois — remote sensing, physical geography, biogeography

Charles F. Heller, Ph.D., Illinois — agriculture, urban social, historical geography

Eugene C. Kirchherr, Ph.D., Northwestern — urban geography, urban and regional planning, Sub-Saharan Africa, political

Philip P. Micklin, Ph.D., Washington — post-Soviet states, conservation, environmental impact assessment, Aral Sea

Eldor C. Quandt, Ph.D., Michigan State — tourism and travel, population, Scandinavia

Hans J. Stolle, Ph.D., Wisconsin-Madison — cartography, computer graphics, remote sensing, cartographic visualization

W.E. Upjohn Center for the Study of Geographical Change and Health Data Research Analysis and Mapping (HDRReAM):

Kathleen Baker, Ph.D., Michigan State, 2002, Professor & Director — geographic information science, physical geography, geospatial techniques, spatial analysis, and agricultural and biogeography

Gregory Anderson, B.S., Western Michigan — geographic information system analysis

MINNESOTA

FOND DU LAC TRIBAL AND COMMUNITY COLLEGE

GEOGRAPHIC INFORMATION SYSTEMS PROGRAM

DATE FOUNDED: 2004

DEGREES OFFERED: Associate of Science in Geographic Information Systems, GIS Certificate

DEGREES GRANTED (9/1/18 – 8/31/19): 3

DEPARTMENT CHAIR: Carl Sack

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Carl Sack, carl.sack@fdltcc.edu

PROGRAMS AND RESEARCH FACILITIES: We are part of the NASA Center for Applied Atmospheric Research and Education, a

grant-funded NASA research collaboration with San Jose State University, University of Alabama at Huntsville, NASA Ames Research Center, and NASA Marshall Spaceflight Center. We offer on-campus research assistantships as undergraduate work-study positions, and have dedicated slots for summer NASA URE internships. We are also a member of the Minnesota Space Grant Consortium.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: We offer a two-year, 60-credit Associate of Science in GIS degree and a 16-credit, 5-course GIS Certificate. We also offer general education Geography courses to the general student population. We are a two-year community college with open enrollment (all who apply are accepted). Students can receive Federal financial aid as well as campus-wide scholarships.

GUSTAVUS ADOLPHUS COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1952

DEGREES OFFERED: B.A.

GRANTED 8/22/17-8/22/18: 7 Bachelors

CHAIR: Anna Versluis

DEPARTMENT ADMINISTRATIVE ASST: Ms. Judy Helmeke

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Gustavus Adolphus College, 800 W College Ave., Saint Peter, Minnesota 56082. Telephone (507) 933-7320. Fax (507) 933-7041. E-mail: jhelmek2@gustavus.edu. Internet: <https://gustavus.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES: The Gustavus Adolphus College Geography Department is a community that nurtures geographic knowledge, skills, and values that guide us in an increasingly complex and interdependent world. Through innovative teaching and scholarship, we seek to cultivate in our students a critical awareness of human-environment relationships, an understanding of the varied dimensions of global change, and respect for the diversity of places and people. We are committed to applying geographic knowledge to build an economically, socially, and environmentally just world. We offer transformative courses and research experiences that combine global perspectives with local engagement, integrate the social and physical sciences, create a welcoming and diverse intellectual community, and prepare students for graduate school and fulfilling, purposeful careers. We promote fieldwork, community service, and internships. Study away semesters, cross-cultural learning experiences, and travel courses are strongly encouraged. Geography graduates continue to careers in natural resource conservation, geospatial analysis, international and community development, urban planning, environmental law and policy, teaching, and research. Two-thirds of Gustavus Geography alumni hold a graduate degree.

The department is located on the first floor of the Nobel Hall of Science. GIS facilities include a server with an extensive digital map collection for Minnesota and a PC laboratory with twenty computers equipped with a wide array of statistical, environmental modeling, and GIS software including ArcGIS, ERDAS IMAGINE, TerrSet, and Orthomapper. The Jacobson Climatology Laboratory, departmental weather station, groundwater well-field, and a stream monitoring station provide instructional and research opportunities for students. The Robert Moline Map Library is housed in the department and features a collection of nearly 100,000 maps from around the world.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Gustavus Adolphus College is on a semester plan. Admission requirements are available from: Office of Admissions, Gustavus Adolphus College, Saint Peter, Minnesota 56082 (<https://gustavus.edu/admission/>), Tel. (507) 933-7676 or 1-800-GUSTAVUS; E-mail: admission@gustavus.edu. Financial Aid information may be obtained from: Financial Aid Office, Gustavus Adolphus College, Saint Peter, Minnesota 56082 (<https://gustavus.edu/admission/financial-aid/>). Prospective students are welcome to contact the department chair to arrange a departmental tour and a meeting with faculty. College employment is available as a teaching assistant.

FACULTY:

Jeff La Frenierre, Ph.D., Ohio State University, 2014, Assistant Professor — climate change, glaciers, hydrology, GIS, mountain geography, water resources

Jesse McClelland, Ph.D., University of Washington, 2018, Visiting Assistant Professor — urban geography, political geography, law and society studies, critical development studies, African studies, planning

Anna Versluis, Ph.D., Clark University, 2008, Associate Professor and Chair — human-environment, political ecology, agriculture, Haiti, disasters, remote sensing

Joaquín Villanueva, Ph.D., Syracuse University, 2013, Assistant Professor — urban geography, political geography, Europe, legal geography, peace studies

ITASCA COMMUNITY COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1999

DEGREES OFFERED: Associate in Science in

Geography/Geographic Information Systems (60 credits—entirely online); GIS Professional Certificate (16 credits—entirely online)

DEGREES GRANTED 9/1/17 – 8/31/18: 25

MAJORS: Geography/GIS; GIS Professional Certificate

CHAIR: Timothy Fox

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Timothy Fox, Itasca Community College, 1851 E. Hwy 169, Grand Rapids, Minnesota, 55744. Timothy.Fox@itascacc.edu. 218-322-2364. Web: <https://www.itascacc.edu/gis#programs>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Academic Plans: <https://www.itascacc.edu/gis#programs>

Application for Admission:

<https://eservices.minnstate.edu/adm/public/studentWelcome?campusId=144>

Financial Aid: <https://www.itascacc.edu/financial-aid/applying-for-financial-aid-completing-the-fafsa>

FACULTY:

Timothy Fox, Program Coordinator, Geography/GIS/Sciences Faculty
Michael LeClaire, GIS Faculty

Kim Nelson, GIS Faculty

Erin Mason, GIS Faculty

Richard Bohannon, Geography Faculty

MACALESTER COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 43 Bachelors

MAJORS: 62

CHAIR: Laura Smith

DEPARTMENT COORDINATOR: Laura J. Kigin

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, Macalester College, 1600 Grand Avenue, Saint Paul, Minnesota 55105-1899 USA. Telephone: 651.696.6249. E-mail: kigin@macalester.edu. Website: www.macalester.edu/geography/

PROGRAMS AND RESEARCH FACILITIES: The department focuses on urban and regional planning; cartography and geographic information systems; human-environment geography; medical and population geography; development geography; and area studies. Majors in geography are required to take at least one research seminar. Independent work is encouraged. Many students do an internship. Courses often include civic engagement or action research activities. The department's Geospatial Analysis Lab uses ArcGIS software primarily and maintains extensive databases for local projects and regional US explorations. In addition to the campus library, students have interlibrary loan privileges from neighboring liberal arts colleges in the Twin Cities and from the University of Minnesota libraries.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Two semesters, fall and spring. Information regarding admission requirements and financial aid may be obtained by contacting the Admissions Office, Macalester College, 1600 Grand Avenue, St. Paul, MN 55105-1899 (toll-free 800-231-7974). Approximately 85 percent of Macalester's students receive some form of financial aid.

FACULTY:

Holly R. Barcus, Ph.D., Kansas State, 2001, Professor — population, GIS, rural livelihoods, ethnicity, identity, mobility and migration studies

Eric Carter, Ph.D., Wisconsin, 2005, Edens Associate Professor of Geography and Global Health — medical, human-environment, Latin America

I-Chun Catherine Chang, Ph.D., Minnesota, 2015, Assistant Professor — Asian, economic, global cities

Xavier Haro-Carrión, Ph.D., Florida, 2019, Berg Postdoctoral Fellow — remote sensing, biodiversity conservation, South America

David A. Lanegran, Ph.D., Minnesota, 1970, Professor Emeritus

William G. Moseley, Ph.D., Georgia, 2001, Professor — political ecology, tropical agriculture, environment and development policy, and livelihood security

Ashley Nepp, MGIS, Minnesota, 2011, GIS Lab Instructor — GIS, cartography, geovisualization

Laura J. Smith, Ph.D., Minnesota, 2004, Associate Professor — urban economic, North America, Native Americans, statistical methods

Daniel Trudeau, Ph.D., Colorado, 2006, Professor — urban social, social welfare policy, urban governance, and qualitative methods

MINNESOTA STATE UNIVERSITY, MANKATO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1953

GRADUATE PROGRAM FOUNDED: 1953

DEGREES OFFERED: Geography B.A., B.S., M.S.; Earth Science B.A., B.S., B.S.Ed.; Geographic Information Science Certificate, P.S.M.; Geomorphology & Earth Surface Processes Certificate

GRANTED: 9/1/17-8/31/18: 50 Bachelors, 10 Masters

STUDENTS IN RESIDENCE: 115 Majors, 25 Masters

NOT IN RESIDENCE: 10 Masters

CHAIR: Donald A. Friend

DEPARTMENT OFFICE MANAGER: Katrina Meyer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, Minnesota State University, Mankato, 206 Morris Hall, Mankato, Minnesota 56001. Telephone (507) 389-2617. Fax (507) 389-2980. E-mail: katrina.meyer@mnsu.edu. Internet: <http://sbs.mnsu.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES: Traditional and professionally oriented graduate and undergraduate programs are offered. Faculty expertise in GIS; remote sensing; GPS; cartography; quantitative and field methods; natural resources; biogeography; geomorphology; soils; economic, political, population, urban and historical geography; geography of development, and human migration; and earth and atmospheric sciences. Regional emphases include North America — especially the American West and South, Latin America, the Caribbean, East and South Asia, and Mountains. Also offered are interdisciplinary undergraduate degrees in Earth Science and the Geography core for Social Science both with options for secondary teacher licensure.

The Department has two state-of-the-science geospatial analysis and cartographic computer laboratories. The 28-seat lab (PC-based) includes: the full suite of ESRI Products, TransCAD, SPSS, ERDAS Imagine, IDRISI, Trimble Pathfinder, and others. The 15-seat lab (Mac-based) includes: the full suite of Adobe products, SPSS, GRASS-GIS, QGIS and others. Both labs are networked at high speed to departmental servers with 100 terabytes of dedicated memory. The labs each have color laser and wax, large format color inkjet, and b/w laser printers. For field mapping applications and training, the department has over two-dozen DGPS/GNSS units. The department also hosts a cutting edge weather and climate laboratory, and the AGES (Archeology, Geography & Earth Science) Laboratory which includes ground-penetrating RADAR, multiple UAVs, as well as a full soils analysis facility.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID:

Undergraduate: The academic year has two 16-week semesters; a bachelor's degree requires 120 credit hours. The geography major requires a 14-hour core and 18 hours of electives that must include foreign regional, seminar and techniques courses. A foreign language is required for the B.A. Generally, entering freshmen must be in the upper half of their high school graduating class, and must maintain a 2.0 grade point average; similar criteria apply to transfer students.

Graduate: MS - Thesis-plan candidates must complete 30 semester hours of graduate work; alternate-plan (internship) candidates must complete 34 semester hours. All requirements of the Graduate College must be met. Several assistantships with tuition waiver are available on a competitive basis. A completed bachelor's degree, undergraduate GPA of 3.0, three letters of recommendation and a 500-word statement of intent are required for admission. Scores from the GRE

are not required for admission but will be considered. PSM (Professional Science Master's) candidates must complete 30 semester hours of graduate work, half in GIScience, half in MBA "professional skills" courses; a capstone project and/or internship is required.

FACULTY:

Sudarshana Bordoloi, Ph.D., York, 2014, Assistant Professor — population, migration, public health, development, human
Mark W. Bowen, Ph.D., Kansas, 2011, Assistant Professor — soils, Anthropocene, agriculture, paleoenvironments
Donald A. Friend, Ph.D., Arizona State, 1997, Distinguished Professor — physical, geomorphology, mountain environments, conservation
Woo Jang, Ph.D., Georgia, 2012, Associate Professor — transportation, spatial analysis & modeling, GIScience, GPS
Phillip H. Larson, Ph.D., Arizona State, 2013, Associate Professor — fluvial geomorphology, physical
Jose Javier Lopez, Ph.D., Indiana State, 1998, Professor — economic and social, Latin America, quantitative methods
Cynthia A. Miller, Ph.D., Syracuse, 1991, Associate Professor — historical, cultural, North America, field studies
Martin D. Mitchell, Ph.D., Illinois, 1993, Professor and Distinguished Faculty Scholar — climatology, natural resources, cartography, the American West and Middle West
Rama Mohapatra, Ph.D., Wisconsin-Milwaukee, 2012, Associate Professor — GIScience, remote sensing, urban, South Asia
Fei Yuan, Ph.D., Minnesota, 2004, Professor and Distinguished Faculty Scholar — remote sensing, GIScience, East Asia

ADJUNCT FACULTY:

Thomas Maertens, Foreign Service Institute, US Dept. of State — security
Raymond Schmidt, M.S., Minnesota State, 2010, Instructor — cultural

ST. CLOUD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1961

DEGREES OFFERED: B.A., B.S., B.E.S. (Bachelor of Elective Studies), M.S., B.S.-LS/MS (Bachelor of Science Land Surveying/Mapping Science)

GRANTED 8/15/17 to 8/14/18: 56 Bachelors (various degree programs), 3 Masters

MAJORS: 200 declared majors in the various degree programs

CHAIR: David L. Wall

DEPARTMENT ADMINISTRATIVE ASST: Candy Swenson

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. David L. Wall, Chair Department of Geography and Planning, St. Cloud State University, 720 Fourth Avenue South, St. Cloud, Minnesota 56301-4498. Telephone (320) 308-2095. Email: dlwall@stcloudstate.edu or Graduate Program Director Dr. Mikhail Blinnikov, Telephone (320) 308-2263, Email: msblinnikov@stcloudstate.edu. Web: <http://www.stcloudstate.edu/gp/>.

PROGRAMS AND RESEARCH FACILITIES: The Geography Program provides students with an awareness that the earth's phenomena are spatially associated and often interdependent. Emphasis is placed upon principles fundamental to a well-grounded education in academic geography preparatory to a range of careers in the private and public sectors, including teaching, and the pursuit of further graduate study. Cornerstones of SCSU's geography program include the study of physical and human geography in a range of introductory and advanced topical and regional courses, as well as the

hands-on learning of applied skills in cartography, geographic information systems, aerial photograph interpretation/remote sensing, and quantitative and qualitative research methods. Emphases within the Geography Major focus on human and cultural geography, physical systems, environmental geography, resource and regional planning, and geographic information science. The department also offers a separate GIS Minor, an M.S. in Geography-GIS, a GIS Graduate Certificate, a B.S. degree in Land Surveying/Mapping Sciences, a B.A. in Hospitality and Tourism, a B.A. in Planning and Community Development, Graduate Certificate in Planning and Community Development, and Five-Year BA-MPA Planning Concentration, and B.S. in Social Studies Teaching.

The SCSU Department of Geography GIS lab utilizes 30 dual-monitor workstations that are regularly upgraded. The Department's Land Surveying program provides access to survey and mapping grade GPS equipment. Software support includes all ESRI products (ArcGIS and extensions), ERDAS/IMAGINE, Adobe Creative Cloud, Pfoffice, Micro Survey, AutoCAD Civil 3D, StarNet, and other appropriate support software. The department has an extensive library of digital geospatial data that includes remotely sensed images, digital orthophotoquads, and census-related data.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. See the catalog for admission requirements and financial aid.

FACULTY:

Randal G. Baker, Ph.D., Oregon State University, 1993, Professor — travel/tourism, resources, recreation, Europe
Mikhail Blinnikov, Ph.D., University of Oregon, 1999, Professor — conservation, biogeography, GIS, Russia
Luis Estevez, Ph.D., Texas A&M University, 2012, Associate Professor — urban planning, housing, international planning, land use planning.
Cynthia J. Fitzthum, MA, University of Delaware, 2011, Instructor — social studies education, economics education
Eric I. Fuller, MSE, Purdue University, 2007, Associate Professor — surveying
Gareth E. John, Ph.D., University of Kentucky, 2003, Professor — cultural, historical, political, US, UK, Europe
Bel Kambach, M.Ed. Glion Hotel School, 2004, Assistant Professor — travel/tourism, ecotourism
Benjamin F. Richason III, Ph.D., Michigan State University, 1976, Professor — remote sensing, cartography, soils, GIS
Aspasia Rigopoulou-Melcher, Ph.D., University of Pittsburgh, 2000, Associate Professor — urban planning, economic development, environmental planning, housing, international development
Jeffrey S. Torguson, Ph.D., University of Georgia, 1993, Professor — cartography, GIS, Asia, physical
Chukwunyeri Ugochukwu, Ph.D., Jackson State University, 2004, Associate Professor — planning, urban design, preservation, architecture
David L. Wall, Ph.D., University of Iowa, 1990, Professor — economic, urban, Latin America
Hung-Chih (Alvin) Yu, Ph.D., Pennsylvania State University, 2008, Associate Professor — travel/tourism, planning, East Asia

EMERITUS FACULTY:

Lewis G. Wixon, Ph.D., Indiana State University, 1978, Professor — climatology, physical, Europe

UNIVERSITY OF MINNESTOA - DULUTH

DEPARTMENT OF GEOGRAPHY & PHILOSOPHY

DATE FOUNDED: 1912

DEGREES OFFERED: B.A. in Environment, Sustainability & Geography (ESG), B.S. in Geographic Information Science (GIS). The department has offered a B.A. in Urban and Regional Studies (URS), a B.A. in Environmental & Sustainability and B.A. in Geography. These degrees are being discontinued and merged into the ESG degree. Minors in ESG, GIS and ES, Undergraduate Certificate and Graduate Certificate in GIS

DEGREES GRANTED 9/1/17-8/31/18: 5 Bachelors in Geography; 6 Bachelors in GIS; 29 Bachelors in ES; 5 Bachelors in URS; 6 GIS Certificates

MAJORS: 13 Geography; 25 GIS; 84 ES; 22 URS

DEPARTMENT HEAD: Adam Pine

DEPARTMENT ADMINISTRATOR: Bridget Park

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Program in Geography, University of Minnesota-Duluth, 324 Cina Hall, 1123 University Drive, Duluth, Minnesota, 55812. Also visit UMD's home page at <http://www.d.umn.edu/> and the Program in Geography department home page at <https://cla.d.umn.edu/departments/guess>. Telephone (218) 726-6300 (departmental office) or (218) 726-8474 (department head). Fax (218) 726-6540 Email: umdgeog@d.umn.edu

PROGRAMS AND RESEARCH FACILITIES: The department offers majors and minors in Environment, Sustainability and Geography and Geographic Information Science as well as undergraduate and graduate certificates in Geographic Information Science. The ESG degree has three focus areas: Environment and Sustainability, Urban and Regional Studies and Geography. These programs provide professional and academic preparation for careers related to geography, GIS, environment & sustainability, and urban and regional studies, as well as for graduate work in these areas, and for teaching in secondary schools. These programs offer a full range of regional and topical courses, including world regional geography; human geography; urban planning; physical geography; soils geography; water resources and hydrology; economic and development; weather & climate; global resources; urban ecology; environment & sustainability; food systems; conservation and planning; geographic information sciences including map design and graphic methods, animated and multimedia maps, geographic information systems, and remote sensing; field techniques; geographic thought; and opportunities for independent study courses of special interest to the student. Students in all programs have many opportunities for internships with public and private agencies in their respective fields of interest. The Program in Geography administers the Center for Sustainable Community Development, the Center for Community and Regional Research, the Sustainable Agriculture Program, and contributes to the International Studies program. The Program in Geography houses and maintains a Physical Geography and Soils Laboratory complete with equipment for highly detailed soil analysis.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: University of Minnesota Duluth, with an enrollment of 10,000, is the second largest of the five campuses that comprise the University of Minnesota System. UMD is on the semester calendar system. Applications for admission to UMD and to the ESG and GIS Programs may be obtained by visiting UMD's Web Site at <http://www.d.umn.edu/undergraduate-admissions> or by writing

the Admissions Office, 25 Solon Campus Center, 1117 University Drive, Duluth, MN 55812-3000. Prospective applicants should request information regarding financial aid along with the admissions request.

FULL AND PART-TIME FACULTY:

Ryan Bergstrom, Ph.D., Kansas State University, 2012, Assistant Professor — socio-ecological systems, sustainability, GIS, rural studies

Teresa Bertossi, Ph.D. Prescott College, 2019, Assistant Professor — integrated geography, sustainability education and community development, resiliency, food systems

Laure Charleaux, Ph.D., Joseph Fornier University, 2003, Associate Professor — cartography and geographic information science, Europe, mobility and transportation

Pat Farrell, Ph.D., University of Cincinnati, 1997, Professor — physical, soils, weather and climate, Latin America

Kristopher Johnson, M.A. University of Minnesota — GIS
Olaf Kuhlke, Ph.D., Kent State University, 2001, Associate Professor — cultural, youth culture, nationalism, political, ecology, urban environments, religion

Adam Pine, Ph.D., Rutgers University, 2007, Associate Professor and Department Head — urban geography, urban planning, governance, citizenship, food systems.

Tongxin Zhu, Ph.D., University of Toronto, 1998, Professor — physical, hydrology, fluvial geomorphology, environmental applications of

Afton Clarke-Sather., University of Colorado at Boulder, 2012, Associate Professor — water resources, political ecology, China, political geography

EMERITI FACULTY:

Gordon L. Levine, Ph.D., University of Michigan, 1977 — economic, transportation, East and Southeast Asia, Minnesota, field techniques

UNIVERSITY OF MINNESOTA – TWIN CITIES

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT AND SOCIETY

DATE FOUNDED: 1925

GRADUATE PROGRAM FOUNDED: 1930s

DEGREES OFFERED: B.A. (BSE); B.A., B.S. (Geog.); B.A., B.S. (Urban Studies); M.GIS; M.A., Ph.D. (Geog)

GRANTED 7/1/17-6/30/18: 179 B.A./B.S., 16 M.GIS, 6 Ph.D.

STUDENTS IN RESIDENCE: 639 B.A./B.S.; 8 M.A.; 46 M.GIS; 34 Ph.D.

NOT IN RESIDENCE: 6

CHAIR: Bruce Braun

DEPARTMENT ADMINISTRATOR: Glen L. Powell

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Sara Braun, Graduate Program Coordinator, Department of Geography, Environment and Society, University of Minnesota, 267 19th Avenue South, Minneapolis, MN 55455. Email: geogdgs@umn.edu Telephone (612) 625-0864. Fax (612) 624-1044. Website: <https://cla.umn.edu/geography>.

PROGRAMS AND RESEARCH FACILITIES: Minnesota's graduate and professional programs in Geography and Geographic Information Science prepare students for careers in academia, industry, government, and not-for-profit sectors. Our top-ranked department provides a setting for graduate study or professional training in one of the nation's outstanding public land-grant research

universities, located at the heart of one of America's most attractive and vital metropolitan areas.

We provide faculty expertise in human and physical geography and cartography/GIS, up-to-date computing labs, and physical geography laboratories. The University of Minnesota has one of the nation's finest libraries supporting all graduate, professional and undergraduate research and training programs. Students work with leading hardware and software used in contemporary research, teaching, and commercial applications.

The M.A. program meets needs of the early- and mid-career students pursuing post-graduate studies in any area of human or physical geography, foreign-area study, international development, or geographic information science. Student programs are individually designed, with emphases that vary from the general liberal arts, environmental science, and skill-based professional preparation, to preparatory work for the Ph.D.

The M.GIS program provides graduate-level work in the theory, applications, and technology of geographic information science. Courses for the program are divided into three broad categories. Core courses provide the conceptual and theoretical underpinnings for a comprehensive, well-rounded knowledge of GIS, including an introductory seminar for entering students. A set of technology courses focus on specific software and techniques in GIS. Elective courses provide additional breadth to the program by allowing students to take courses related to their area of interest.

Ph.D. students work closely with their chosen advisers in designing individualized programs that meet their interests, needs and employment opportunities. Most doctoral students design interdisciplinary programs that take advantage of Minnesota's expertise in cognate areas as represented by the Interdisciplinary Center for the Study of Global Change, the Institute on the Environment, the Institute for Advanced Study, and within the Hubert H. Humphrey School of Public Affairs, School of Public Health, College of Natural Resources, College of Agricultural, Food and Environmental Sciences, as well as other top-ranked social science and humanities departments in the College of Liberal Arts.

Faculty and students collaborate in research and publication. We believe our research programs should be useful to society domestically and internationally. Various departmental institutions foster community and intellectual exchange—weekly coffee hours, informal bi-weekly reading groups, visiting scholar brown-bags, and the annual Ralph H. Brown lecture and awards banquet.

Areas of faculty and graduate student research interest and expertise include: Biogeography: forest dynamics; grassland dynamics; environmental stability and change; human disturbance; agroclimatology; climate-biosphere interactions; Climatology: climate variability; climate modeling; temperature and precipitation climatology; wind climatology; paleoclimates; climate change; Cartography: symbolization; scale problems and generalization; multimedia cartography; cartographic design; digital cartographic production; spatial visualization; history of cartography; Cultural Geography: new cultural geography; landscape and memory; politics of place and identity; cultures of nationalisms; race, ethnicity and sexuality; decolonial geographies; migration and transnational cultures; Development Studies: development geography, political geography and agrarian change; development theory and the state; Economic Development: regional inequalities; local development initiatives; problems of development in Africa, Asia and Latin America; political economy; Feminist Geography: feminist theory; gender, sexuality and the city; feminist methods; Geographic Information Science: spatial data handling methods; exploratory spatial data analysis; design of data systems; GIS and society; Geographical Thought and Practice: social and cultural theory; society and space; history and philosophy of geography; feminist and

decolonial theory; Historical Geography and Regional Analysis: public land policy; the European Union; Latin America; the Islamic world; U.S. and Canada; South and East Asia; Nature and Society: political ecology; environmental politics; race, indigeneity and the environment; health and environment; science studies; land use and environmental policy; Physical Geography: paleoenvironments; water resources; environmental change; Urban Geography: transportation and land use; urban and regional economic analysis; feminist perspectives on the city; geographic research in city and regional planning; urban theory; urban social movements

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Admission Requirements are those of the College of Liberal Arts. Prospective students should consult the Bulletin of the College for details.

Degree Requirements: The department offers both B.A. and B.S. degrees in geography, urban studies and an interdisciplinary degree in biology, environment and society. Programs may be structured within a variety of teaching/research areas of the department or may be designed individually in consultation with an adviser. Students complete a senior project.

Graduate: Admission (M.A./Ph.D.) is based on a combination of undergraduate and, if appropriate, graduate grade point averages; statement of purpose; and three letters of evaluation. No single criterion dominates but the combination must demonstrate potential for success in a highly individualized graduate program. Applications from students lacking an undergraduate major in geography are welcome but such students may be asked to make up deficiencies. Application deadline is December 15; all applications are evaluated once each year in early January.

Admission (MGIS): Requires a Bachelors degree with a preferred cumulative grade point average of 3.0. Additional requirements include completion of one college-level course in mathematics, statistics, and computer programming. The GRE is not required. For international applicants, an English Language Proficiency Exam such as TOEFL, IELTS, or MELAB is required. Applicants should understand that the admissions process is competitive, based on a careful assessment of each applicant's file, and that we can only offer admission to a limited number of qualified applicants to ensure high quality advising and accessibility to facilities and other resources. All application materials are submitted online and must be submitted by January 30 for Fall admission; September 1 for Spring semester admission.

M.A. Degree Requirements: The department offers two plans for the M.A. degree. Plan A thesis option [20 credit hours + 10 thesis credits; minimum 14 credit hours within department and 6 credit hours outside department] includes work in supporting fields or a minor, plus a thesis. Plan B papers option [30 credit hours; minimum 14 credit hours within department and 6 credit hours outside department] includes work in a supporting field or a minor, plus three masters papers. Those students intending to continue on to the PhD are encouraged to complete the Plan B option which allows them to further develop the three master's papers into the comprehensive papers required for the PhD in a more timely manner.

MGIS Degree Requirements: This degree is offered Plan C (coursework only) and requires 35 credits of course work. For more details on MGIS degree requirements, visit: <https://cl-a.umn.edu/mgis/program/master-geographic-informationscience>.

Ph.D. Degree Requirements: The Ph.D. is awarded for successful completion of three comprehensive papers, a preliminary oral examination, and the completion and defense of a dissertation. Complete requirements are as follows: 1) Coursework -52 credit hours: 16 credit hours in department + 12 credit hours outside

department + 24 thesis credits; 2) Completion of 8001 [Problems in Geographic Thought] + 8405 [Professional Development Seminar] + two additional GEOG 8xxx (graduate level) courses. Students must include at least one methods course in their graduate degree plan. Additionally, they must include at least one proposal-writing course in their graduate degree plan. The methods and proposal-writing requirements may be fulfilled by courses outside the department; 3) Preparation of a research dossier; 4) Preliminary exams (taken in Spring of 3rd year [semester 6]; earlier where appropriate for students entering with MA/MS; 5) Examination of dissertation proposal (within 3 months of completing preliminary exams); 6) Defense of dissertation.

The foreign language/methodology requirements are similar to those for the M.A. Degree Programs and are individually designed in consultation with a faculty adviser.

Financial Aid: The University of Minnesota operates on a semester system. All admitted students (unless otherwise noted in their acceptance letter) will be supported through a combination of fellowships, teaching assistantships and/or research assistantships as follows: 5 years if entering with a BA; 4 years if entering with an MA. All options usually provide a stipend, tuition waiver, and health insurance. Summer support for field work is typically awarded to all incoming graduate students, and is available, on a competitive basis, to all students after their first year.

HUMAN RIGHTS STATEMENT: The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

FACULTY:

Adam Bledsoe, Ph.D., North Carolina, 2016, Assistant Professor — black geographies, social movements, African diaspora in the Americas, critical spatial theory, Latin America

Bruce P. Braun, Ph.D., British Columbia, 1996, Professor — society-environment relations, political ecology, social and cultural theory, cultural studies of the environment, politics of extraction

Madelaine Cahuas, Ph.D., Toronto, 2018, Assistant Professor — urban geography, Latinx studies, health geography, feminist scholarship, critical race and anti-colonial theory

Peter Calow, D.Sc. University of Leeds UK, 1984, Professor — science and public policy, focusing on risk of chemicals in the environment

Kate Derickson, Ph.D., The Pennsylvania State University, 2011, Associate Professor — urban political economy, race and racialization, feminist and critical epistemology, engaged scholarship, land use and environmental politics, social and political theory

Vinay K. Gidwani, Ph.D. UC-Berkeley, 1997, Professor — development economics; agrarian/environmental studies

Kathryn Grace, Ph.D. UC-Santa Barbara, 2008, Associate Professor — population geography, demography, health, development, food security and land cover land use change, quantitative and qualitative analysis

Daniel Griffin, Ph.D. University of Arizona, 2013, Assistant Professor — climate science, environmental change, water resource issues, dendrochronology

George Henderson, Ph.D., UC-Berkeley, 1992, Professor — Marxism, post-capitalist politics, value theory of labor, Marxist cultural critique

Kurt F. Kipfmüller, Ph.D., University of Arizona, 2003, Associate Professor — biogeography, paleoclimatology, forest dynamics, dendrochronology

Katherine Klink, Ph.D., Delaware, 1992, Associate Professor — physical climatology, climate-biosphere interactions, climate modeling, quantitative methods

Mark B. Lindberg, Ph.D., Kansas, 1987, Senior Cartographer, Adjunct Associate Professor, co-director of MGIS Program — geographic information systems, digital cartographic production, cartographic design

Steven M. Manson, Ph.D., Clark, 2002, Professor — nature-society relationships, land use-land cover change, human dimensions of global change, biocomplexity, socioeconomic vulnerability, Latin America

Robert B. McMaster, Ph.D., Kansas, 1983, Professor — geographic information science/systems, cartographic design and visualization, quantitative methods and spatial analysis, environmental risk assessment and justice, geographic information science and society

Arun Saldanha, Ph.D., Open University (UK), 2004, Professor — race relations, geography of music, geography of tourism, poststructuralist philosophy, feminism, anthropology

Abdi I. Samatar, Ph.D., UC-Berkeley, 1985, Professor — development geography, political economy and agrarian change, development theory and the state, Africa

Eric Shook, Ph.D., University of Illinois at Urbana-Champaign, 2013, Assistant Professor — cyberGIS, geographic information science, agent-based modeling, high-performance computing

Ying Song, Ph.D., The Ohio State University, 2015, Assistant Professor — GIScience, time geography, spatio-temporal modeling and analysis, transportation geography

Roderick H. Squires, Ph.D., Durham, 1970, Associate Professor — environment quality, public land policy, real estate, evolution of landscapes, political ecology of Minnesota

Scott St. George, Ph.D., University of Arizona, 2007, Associate Professor — paleoclimatology, climate dynamics, natural hazards, and climate impacts on renewable energy

ADJUNCT FACULTY:

Susan L. Craddock, Ph.D., UC-Berkeley, Associate Professor, Gender, Sexuality and Women's Studies — social geography and political ecology of health, women's health in historical and geographical perspective

Kirsten Deleard, Ph.D., Duke University, 1999, Fellow & Director Mapping Prejudice Project — urban history, communityengaged scholarship, digital humanities and public history, race and racialization, history of Minneapolis, race and racialization

Michael Goldman, Ph.D., UC-Santa Cruz, 1994, Associate Professor, Sociology — transnational, political economic, and urban sociology, transnational institutions of finance, development, and expertise

Timothy J. Griffis, Ph.D., McMaster University, 2000, Professor, Soil, Water and Climate — boundary layer climatology, biometeorology, land-atmosphere interactions

Nicholas Jordan, Ph.D., Duke University, 1986, Professor, CFANS Agronomy/Plant Genetics — agroecology, social and biophysical determinants of agricultural land-use, collaborative management of agricultural landscapes

Miranda Joseph, Ph.D. Stanford University, 1995, Professor, Gender, Sexuality and Women's Studies — culture and capitalism, feminist studies of finance, queer theory, critical university studies.

Hanna Mattila, Sc.D., Aalto University, 2017, University Lecturer Aalto University School of Engineering — planning theory, urban planning, land use, planning systems, urban design, urban and regional studies, regional development, regional planning, urban history

William G. Moseley, Ph.D., University of Georgia, Athens, 2001, Professor Macalester College — political ecology, tropical agriculture, food security, environment and development, West and Southern Africa

Lorena Munoz, Ph.D., Southern California, 2008, Associate Professor, American Studies — Latinx geographies, urban geography, food, health and geography, Latin America

Richa Nagar, Ph.D., Minnesota, 1995, Professor, Gender, Sexuality and Women's Studies — development studies, gender studies, South Asia, East Africa, geographic perspectives on women, socialist geography

EMERITUS FACULTY:

- *John S. Adams, Ph.D., Minnesota, 1966, Professor Emeritus* — American cities, regional economic analysis, housing, transportation, Russia and environs
- *Dwight A. Brown, Ph.D., Kansas, 1968, Professor Emeritus* — physical, paleoenvironments, water resources, geographic information systems, biogeography
- *Philip J. Gersmehl, Ph.D., Georgia, 1970, Professor Emeritus; Adjunct Professor, American Studies* — environmental, education, North America, multi-media cartography, geographic information systems
- *John Fraser Hart, Ph.D., Northwestern, 1950, Professor Emeritus* — rural, U.S. and Canada, geographic writing
- *Helga Leitner, Ph.D., Vienna, 1978, Professor Emerita; Professor, Department of Geography, UCLA* — urban, political, international migrations, social theory, GIS & society, Europe, European Union
- *Philip W. Porter, Ph.D., London, 1957, Professor Emeritus; Adjunct Professor, Department of Afro-American and African Studies* — Africa, tropical agroclimatology, development, cartography
- *Earl P. Scott, Ph.D., Michigan, 1974, Professor Emeritus; Adjunct Professor, Department of Afro-American and African Studies* — human/landscape geography, economic development from the perspective of small-scale enterprises, Africa, minority settlements in America with emphasis on the African Diaspora
- *Eric Sheppard, Ph.D., Toronto, 1977, Professor Emeritus; Humboldt Chair and Professor of Geography, Department of Geography, UCLA* — economic geography, political economy, quantitative methods, philosophical foundations of geography, economic development, environmental justice, GIS & society, local development initiatives
- *Richard H. Skaggs, Ph.D., Kansas, 1967, Professor Emeritus; Adjunct Professor, Department of Soil, Water, and Climate* — climatology, physical, long-term temperature trends, impacts of climate variability
- *Connie H. Weil, Ph.D., Columbia, 1980, Associate Professor Emerita* — medical, Latin America, geographic education 108

MGIS FACULTY:

For a listing of MGIS faculty, see:
<https://cla.umn.edu/mgis/people/faculty>

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1916

DEGREES OFFERED: B.S. in Geoscience (concentrations in Geography, Geographic Information Systems, Environmental Geoscience, Professional Meteorology, Broadcast Meteorology, and Professional Geology); M.S. in Geoscience (concentrations in Geography, Geospatial Science, Environmental Geoscience, Professional Meteorology/Climatology, Broadcast Meteorology, Applied Meteorology, and Geology); Ph.D. in Earth and Atmospheric Sciences

DEGREES GRANTED (5/15/17-5/14/18): 89 B.S., 72 M.S., 9 Ph.D.

STUDENTS IN RESIDENCE: 196 B.S., 37 M.S., 29 Ph.D.

NOT IN RESIDENCE: 231 B.S., 187 M.S.

DEPARTMENT HEAD: John Rodgers

FOR FURTHER INFORMATION CONTACT: Department of Geosciences, Mississippi State University, 108 Hilbun Hall, P.O. Box 5448, Mississippi State, MS, 39762. Phone: 662-325-3915. Fax: 662-325-9423. Web: <http://www.geosciences.msstate.edu> (department), <http://www.msstate.edu> (university)

PROGRAMS AND RESEARCH FACILITIES: The geography program at Mississippi State University exists within the Department of Geosciences, which also offers programs in geospatial science, meteorology and geology. Students can earn B.S. or M.S. degrees in Geoscience, or a Ph.D. in Earth and Atmospheric Science, with concentrations in geography that emphasize either human geography, physical geography, geospatial technologies or a combination thereof. In addition to its on-campus degree programs, the Department of Geosciences also offers two M.S. tracks in environmental geoscience and applied meteorology via distance learning. Students across all of the department's programs receive a broad, interdisciplinary training that combines natural and social science, leading to a deeper understanding of the earth and environment in Mississippi, the southern US and the earth as a whole. The Department of Geosciences is housed in Hilbun Hall, which is home to both the department's classroom and office facilities, as well as a 30-seat GIS Lab, the Climate Lab Studio and the Dunn-Seiler Museum.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID:

Mississippi State University is on the semester system. Undergraduate admissions are contingent upon admission to the university. Applicants to the M.S. program must have an undergraduate GPA of at least 2.75, while applicants to the PhD program must have a GPA of at least 3.0 at both the undergraduate and graduate level. The GRE is required of all applicants. Additional requirements exist for applicants to the department's programs in meteorology. Additional information about admissions requirements is available from: <http://catalog.msstate.edu/graduate/colleges-degree-programs/arts-sciences/geosciences/>. Graduate funding through teaching, research and service assistantships is available on a competitive basis, as well as additional scholarships and grants for research.

FACULTY:

- Shrinidhi Ambinakudige, PhD, Florida State, 2006, Professor* — human dimensions of climate change, glaciers, agro-forest ecosystems, human geography, GIS, remote sensing
- Mike Brown, PhD, UNC-Chapel Hill, 2000, Professor* — land-surface-atmosphere interactions, severe local storms and lightning, applied climatology
- Renee Clary, PhD, Louisiana State, 2003, Professor* — geoscience education, history and philosophy of geology, optimization of visualization techniques, Cretaceous paleobiology, environmental geochemistry
- Bill Cooke, PhD, Mississippi State, 1997, Professor* — remote sensing, GIS, spatial modeling, wildfire, epidemiology
- Padmanava Dash, PhD, Louisiana State, 2011, Associate Professor* — remote sensing, water biogeochemistry, water quality
- Jamie Dyer, PhD, University of Georgia, 2005, Professor* — atmospheric thermodynamics, hydrometeorology
- Erik Frazz, PhD, Florida State University, 2016, Assistant Clinical Professor* — hurricane climatology and meteorology, climate change, quantitative methods
- Chris Fuhrmann, PhD, University of North Carolina-Chapel Hill, 2011, Assistant Professor* — applied climatology, synoptic climatology, biometeorology, climate variability and change
- Rinat Gabitov, PhD, Rensselaer Polytechnic Institute, 2005, Associate Professor* — geochemistry, crystals growth, biomineralization, oceanography, paleoclimatology

Barrett Gutter, PhD, Mississippi State, 2017, Assistant Clinical Professor — severe local storms, human perception and response, land-surface-atmosphere interactions

Christa Haney, PhD, Mississippi State, 2017, Assistant Clinical Professor — weather hazards and perceptions, weather/climate and human health, water and human health

Brenda Kirkland, PhD, Louisiana State, 1991, Professor — geomicrobiology, carbon sequestration, carbonate petrography, geoscience education, paleophycology

Sarah Lalk, PhD, Mississippi State, 2017, Assistant Clinical Professor — geoscience education

Qingmin Meng, PhD, Georgia, 2006, Peking, 2001, Associate Professor — human-environment interactions, ecological systems, hydraulic fracturing, landscape epidemiology, GIS, remote sensing, geospatial modeling, big data

Andrew Mercer, PhD, Oklahoma, 2008, Associate Professor — synoptic meteorology, severe weather meteorology, large-scale climate informatics, artificial intelligence, statistical climatology, numerical weather prediction

Amy Moe-Hoffman, MS, Colorado, 2002, Instructor — geology, fossil insects, paleoclimate, museum collections

John Morris, MS, Mississippi State, 2007, Instructor — GIS

Greg Nordstrom, MS, Mississippi State, 2007, Instructor — meteorology and forecasting

Athena Owen-Nagel, PhD, Mississippi State, 2014, Assistant Clinical Professor — island and coastal karst formation, karst morphometrics, GIS

Varun Paul, PhD, Missouri University of Science and Technology, 2014, Assistant Professor — environmental biogeochemistry, microbe-mineral interaction, carbon-dioxide sequestration

Lindsey Poe, MA/MS, Western Kentucky, 2011, Mississippi State, 2009, Instructor — broadcast meteorology

John Rodgers, PhD, Georgia, 1999, Professor — physical geography, GIS, invasive species, coastal processes

Taylor Shelton, PhD, Clark, 2015, Assistant Professor — human geography, digital geographies, critical GIS, urban geography, socio-spatial inequality

Kathy Sherman-Morris, PhD, Florida State, 2006, Professor — communication of weather information, hazard risk perception and response, hazards and companion animals, diversity in science education

Adam Skarke, PhD, Delaware, 2013, Assistant Professor — marine geology, coastal morphodynamics, sedimentology, stratigraphy, seafloor gas seep systems

Brian Williams, PhD, Georgia, 2018, Assistant Professor — political ecology, environmental justice, agri-food systems, black geographies

Kimberly Wood, PhD, Arizona, 2012, Assistant Professor — tropical climatology, tropical cyclones, tropical-extratropical interactions, remote sensing

UNIVERSITY OF SOUTHERN MISSISSIPPI

SCHOOL OF BIOLOGICAL, ENVIRONMENTAL, AND EARTH SCIENCES; PROGRAM OF GEOGRAPHY AND GEOLOGY

DEGREES OFFERED: B.S. Geography (General, Geographic Information Technology, and Sustainable Development and Planning), M.S. Geography, Ph.D. Geography

DEGREES GRANTED (9/1/18 - 8/31/19): 12B.S., 5 M.S., 1 Ph.D.

MAJORS: 52 B.S., 16 M.S., 4 Ph.D.

CHAIR: David M. Cochran, Jr.

ADMINISTRATIVE ASST: Candice Beavers

FOR CATALOG AND FURTHER INFORMATION WRITE TO: School of Biological, Environmental, and Earth Sciences 601-266-4748. Email: David.Cochran@usm.edu.

PROGRAMS AND RESEARCH FACILITIES: Geography at the University of Southern Mississippi covers all three branches of the field (physical, human, and GIS/RS). Faculty members specializing in physical geography have expertise in biogeography (palynology and dendrochronology) and geomorphology (fluvial and coastal geomorphology). Human geography faculty members specialize in cultural geography, political ecology, human-environment interactions, and economic development. Faculty members specializing in geographic information systems and remote sensing have expertise in web mapping, spatial programming, and active/passive applications of remote sensing.

Geography at the University of Southern Mississippi is equipped with instructional computer laboratories on the Hattiesburg and Gulf Park campuses. It also houses multiple research laboratories associated with faculty who specialize in palynology, dendrochronology, and geospatial applications.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: For information about undergraduate curriculum and degree programs, see: <http://catalog.usm.edu/index.php?catoid=19>

For information about graduate curriculum and degree programs, see: catalog.usm.edu/index.php?catoid=20

For information about undergraduate admission requirements and financial aid, see: <https://home.usm.edu/admissions/undergraduate-admissions>

For information about graduate admission requirements and financial aid, see: <https://home.usm.edu/admissions/graduate-admissions>

FACULTY:

Jerry O. "Joby" Bass, Ph.D. (University of Texas at Austin, 2003), Associate Professor at Gulf Park — cultural and human geography, landscape change, environmental change, repeat photography, historical landscapes, Mississippi, Latin America

Gregory A. Carter, Ph.D. (University of Wyoming, 1985), Professor at Gulf Park — physical geography, coastal systems, remote sensing, biogeography, landscape ecology

David M. Cochran, Jr., Ph.D. (University of Kansas, 2005), Professor and Program Coordinator at Hattiesburg — cultural and political ecology, Latin America and the Caribbean, natural hazards, conservation management, international development

Frank T. Heitmüller, Ph.D. (University of Texas, 2009), Associate Professor at Hattiesburg — coastal geomorphology, fluvial geomorphology, surface-water hydrology, and instream-flow science

David H. Holt, Ph.D. (University of Arkansas, 2002), Associate Professor at Gulf Park — biogeography, dendrochronology, long-term climate change, land use, GIS

Mark M. Miller, Ph.D. (University of Arizona, 1988), Professor at Hattiesburg — economic development and planning, community development, qualitative research methods, tourism

Thomas Patterson, Ph.D. (University of North Carolina, 2017), Assistant Professor at Hattiesburg — dendrochronology, climatology, forest ecology

George T. Raber, Ph.D. (University of South Carolina, 2003), Professor at Hattiesburg — remote sensing, terrain modeling, LIDAR, GIScience, conservation modeling, hurricane impacts

Carl A. Reese, Ph.D. (Louisiana State University, 2003), Professor at Hattiesburg — biogeography, climate change, palynology, paleotempestology, and quantitative research methods

MISSOURI

MISSOURI WESTERN STATE UNIVERSITY

DEPARTMENT OF HISTORY & GEOGRAPHY

DATE FOUNDED: 1915

DEGREES OFFERED: Minor in Geography;
Minor in Earth and Environmental Science (coming Fall 2020)

DEGREES GRANTED (9/1/18 – 8/31/19): 4

MINORS: 9

PROGRAM COORDINATOR: James Okapal

ADMINISTRATIVE ASST: Noel Cross

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Dawn Drake, Associate Professor of Geography, Department of History & Geography, Missouri Western State University, 115 Popplewell Hall, 4525 Downs Dr., St. Joseph, MO 64507.

Email: ddrake4@missouriwestern.edu.

Web: <https://www.missouriwestern.edu/hg/>.

Facebook: <https://www.facebook.com/Griffongogeography>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: <https://www.missouriwestern.edu/hg/geography/>

FACULTY:

Dawn M. Drake, PhD, University of Tennessee, 2011, Associate Professor — rural-urban interfaces, agricultural geography, rural geography, economic and business geography
Marcus Williamson, PhD, University of Kansas, 2018 (political science), Lecturer

NORTHWEST MISSOURI STATE UNIVERSITY

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

DATE FOUNDED: Geography 1970; combined 2012

DEGREES OFFERED: B.S. Geography; M.S. Geographic Information Science (online), Graduate Certificate Geographic Information Science (online); B.S. Emergency and Disaster Management; B.S. Criminology; B.A. and B.S. History; B.A. and B.S. Political Science; B.A. and B.S. Interdisciplinary Studies; B.S.Ed. Social Science; M.S.Ed. Teaching History

DEGREES GRANTED 9/1/17-8/31/18: 14 Bachelors; 8

M.S. GIScience; 9 Graduate GIScience Certificates

MAJORS: 33 in Geography/GIScience; 25 Masters in GIScience; 10 Graduate GIScience Certificates

CHAIR: Dawn Gilley

SECRETARY: Cortni Shreve

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Humanities and Social Sciences, Northwest Missouri State University, Maryville, Missouri 64468. (660) 562-1290. Fax (660) 562-1241. E-mail: dgilley@nwmissouri.edu. Internet: <http://www.nwmissouri.edu/socialsciences/index.htm>. For information about the online M.S. in Geographic Information Science, see <http://www.nwmissouri.edu/dept/gis>.

PROGRAMS AND RESEARCH FACILITIES: A broad-based undergraduate geography program is offered with concentrations in GIS/cartography/remote sensing, culture and society, and environmental geography.

The department offers an online Master of Science degree in Geographic Information Science. The degree program focuses on applied GIS as used in industry and the public sector. Students may earn a graduate certificate in GIS by taking a subset of courses required for the Masters degree.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The comprehensive Bachelor's degree in geography requires 57 credit hours. Minors offered by the department require 18-27 credit hours, depending on the subject area.

Thesis and non-thesis options are available for the M.S. in Geographic Information Science. The thesis option requires completion of 27-30 hours of approved graduate courses and 3 hours of thesis credit. The non-thesis research option requires completion of 31-34 hours of approved graduate courses and a research paper. Candidates must meet program admission requirements that include completion of a four-year undergraduate degree from an accredited college or university with an undergraduate GPA of 2.75 on a 4.0 scale; minimum verbal plus quantitative GRE score of 286 (students not meeting this score must maintain a 3.0 average for the first nine hours of graduate credit before admission to candidacy); two letters of recommendation; and a writing sample to be evaluated during the student's first trimester. GRE scores are not required for applicants for the graduate certificate program or for those with one year of full-time GIS professional work experience or three years of full-time professional work experience in any field. For additional information, see <http://www.nwmissouri.edu/dept/gis>.

FACULTY:

Geography/GIS

Jeffrey Bradley, M.S., Oklahoma State, 1991, Senior Instructor — physical, natural disasters
Brett Chloupek, Ph.D., Kansas, 2013, Associate Professor — cultural, political, historical, Europe
Mark Corson, Ph.D., South Carolina, 1997, Professor — emergency management and homeland security, geospatial intelligence, political, military
Patricia Drews, Ph.D., South Carolina, 1999, Professor and GIScience Program Director — GIS, quantitative methods
Theodore Goudge, Ed.D., Oklahoma State, 1984, Associate Professor — sport geography
Ming-Chih Hung, Ph.D., Utah, 2003, Professor — GIS, remote sensing
Kevin Romig, Ph.D., Arizona State, 2004, Associate Professor — urban, cultural, environment
Yi-Hwa Wu, Ph.D., Utah, 2003, Professor — GIS, geocomputation

Emergency and Disaster Management

John Carr, M.S., North Dakota State, Instructor

History

Joel Benson, Ph.D., Miami, Professor
Elyssa Ford, Ph.D., Arizona State, Associate Professor
Matt Johnson, M.A., Northwest Missouri State, Senior Instructor
Devlin Scofield, Ph.D., Michigan State, Assistant Professor
Dana Ternus, M.A., Northwest Missouri State, Instructor
Robert Voss, Ph.D., Nebraska-Lincoln, Assistant Professor

Humanities

Dawn Gilley, Ph.D., Missouri-Columbia, Associate Professor

Philosophy

Richard Field, Ph.D., Southern Illinois at Carbondale, Associate Professor

Political Science

Luke Campbell, Ph.D., Kansas, Assistant Professor
Kimberly Casey, Ph.D., Missouri-St. Louis, Associate Professor
Jessica Gracey, Ph.D., Missouri-St. Louis, Assistant Professor
Bronson Herrera, Ph.D., Kansas, Assistant Professor
Brian Hesse, Ph.D., London School of Economics and Political Science, Professor
Daniel Smith, J.D., Virginia, Assistant Professor

Criminology

Kamala Tabor, M.A., Sophia University, Instructor

UNIVERSITY OF MISSOURI - COLUMBIA

DEPARTMENT OF GEOGRAPHY AND GEOGRAPHIC RESOURCES CENTER

DATE FOUNDED: 1950

GRADUATE PROGRAM FOUNDED: 1950

DEGREES OFFERED: B.A., M.A.

GRANTED 8-21-17 - 5-31-18: 18 Bachelors, 4 Masters

STUDENTS IN RESIDENCE: 59 Majors, 9 Masters

CHAIR: Michael Urban

DEPARTMENT ADMINISTRATIVE ASSISTANT: Dina
Nichols

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, University of Missouri-Columbia,
202 Stewart Hall, Columbia, MO 65211-6170. Telephone (573) 882-
8370. Fax (573) 884-4239. E-mail: geog@missouri.edu. Internet:
www.geog.missouri.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The B.A. degree in Geography requires 36 semester hours, including 21 hours of core courses with 15 additional hours in one of four emphasis areas and a secondary area in geography. The following four emphasis areas allow students to further focus on the undergraduate degree program around their own personal interests in geography: human/regional/cultural geography, geographic information sciences, physical/environmental geography, and general geography. There are Certificate Programs in Geographic Information Science (GIS) and Geospatial Intelligence (GEOINT). Writing skills are emphasized, and dual degrees are common. A special honors program is available. The University maintains a strong undergraduate study abroad program.

GRADUATE: The M.A. degree offered by the department requires 32 hours of coursework coupled with research project. Thesis and non-thesis options exist. Programs are tailored to fit the individual needs and interests of students, make liberal use of cognate fields, and commonly focus on a) Human Geography: cultural, population, historical, urban, and Indigenous geography, b) Nature/Society Relationships: interface of environment and humans, particularly the political, social, philosophical and economic implications of environmental change, c) Physical Geography: environmental processes and their modification by humans, particularly for biogeographic and geomorphic systems, and d) Applied Geosciences. The Geographic Resources Center functions as both a teaching and research facility, serving as an interdisciplinary center for computer graphics, remote sensing and GIS. Graduates of our program are well prepared to succeed in top doctoral programs in Geography as well as professional employment in fields such as Geographic Information Sciences, environmental management, planning and preservation. Our graduates are found in local, state and federal government agencies, the private sector, and non-governmental organizations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. A combination of the applicant's high school class rank and an ACT, SAT, or SCAT test score determines admission to the University as a freshman. Students become geography majors by filing an approved Geography Graduation Plan. Information on financial aid should be obtained from high school counselors or from the Student Financial Aid Office, 11 Jesse Hall, UMC, Columbia, MO 65211.

GRADUATE: Semester system. The Geography Department bases admission decisions in large part on the applicant's 1) record of scholarship as an undergraduate, 2) GRE scores, 3) letters of recommendation, 4) statement of purpose, and 5) compatibility of scholarly interests with those of the faculty. In general the minimum undergraduate GPA should exceed 3.0 (on a 4.0 scale), and combined verbal and quantitative GRE scores should meet or exceed 300. International students must submit TOEFL scores that demonstrate a strong command of the English language. Teaching and Research Assistantships are awarded to graduate students each academic year and include remission of tuition and fees. To be considered for either a teaching or research assistantship, university and departmental applications (including letters of reference) must be received by February 1. The M.A. program is intended to be a two-year program, concluding with the defense of the master's thesis or other professional research project.

FACULTY:

Clayton F. Blodgett, PhD, University of Kansas, 2004, Assistant Teaching Professor — remote sensing, geographic information systems, spatial statistics/environmental modeling, conservation ecology, biogeography, landscape ecology

Grant P. Elliott, Ph.D., Minnesota, 2009, Assistant Professor — vegetation-climate interactions, ecotonal dynamics of upper treeline, dendroecology, disturbance ecology, climate change, dendroclimatology, mountain environments

Matthew Foulkes, Ph.D., Illinois, Urbana-Champaign, 2002, Associate Professor — demographics, migration and rural development

Joseph J. Hobbs, Ph.D., Texas-Austin, 1986, Professor — Middle East, cultural ecology, environmental issues in developing countries, indigenous peoples, Vietnam programs

Douglas A. Hurt, Ph.D., Oklahoma, 2000, Assistant Teaching Professor — historical geography, tourism, sport and regional identity, geographic education, Missouri

Soren C. Larsen, Ph.D., Kansas, 2002, Associate Professor — politics of place, political ecology, sustainable development, indigenous peoples, territoriality, ethnography and qualitative methods

Timothy C. Matisziw, Ph.D., Ohio State University, 2005, Associate Professor — network analysis and design, location modeling, environmental conservation, urban/regional planning and risk assessment, geographic information science, transportation geography, urban/regional planning

Mark H. Palmer, Ph.D., University of Oklahoma, 2006, Associate Professor — indigenous geographies, geographic information systems, natural resources, North America, history of cartography, qualitative methods, place-based approach to earth systems science

Michael A. Urban, Ph.D., Illinois, Urbana-Champaign, 2000, Associate Professor & Chair — fluvial geomorphology, anthropogenic landscape change, environmental ethics in environmental management, geographic thought

EMERITI FACULTY:

Gail S. Ludwig, D.A., Northern Colorado, 1977, Associate Professor — educational technology, remote sensing, map interpretation, geographic education, research methods

William Noble, Ph.D., Louisiana State University, 1968, Associate Professor — Asia, settlement geography, physical geography, indigenous peoples

Christopher L. (Kit) Salter, Ph.D., University of California-Berkeley, 1970, Professor — cultural geography, landscape analysis, China, geography education, field geography
Walter A. Schroeder, Ph.D., Missouri-Columbia, 2000, Associate Professor — physical, historical, Missouri

ADJUNCT FACULTY:

Larry Brown, Ph.D., Missouri-Columbia, 2003, Resident Instructor Assistant Professor — cultural geography, political geography, Middle America, geography of religion
C. Mark Cowell, Ph.D., Georgia, 1992, Associate Professor — biogeography, landscape ecology, historical vegetation studies, field geography
Curt H. Davis, Ph.D., University of Kansas, 1992 — radar systems, RF & microwave signal propagation, wireless communication systems, satellite and airborne remote sensing systems, satellite altimetry, high resolution earth image processing, ice sheet mapping and change detection, digital elevation models, urban mapping and feature extraction, geospatial information processing
William R. Elliott, Ph.D., Texas Tech University, 1976, Cave Biologist for the Missouri Department of Conservation — cave ecology, taxonomy and evolution, biogeography, caving techniques and safety, cave and karst management
Robert Jacobson, Ph.D., Johns Hopkins, 1985 — geologic hazards, watershed processes, paleoseismology, geomorphology, neotectonics

TECHNICAL STAFF:

Thomas Vought, M.S., Geography, Kansas State University, 2006, Operations and Data Manager, Missouri Spatial Data Information Service — spatial data analysis, cartography, interactive map design, data distribution, website design and maintenance

MONTANA

UNIVERSITY OF MONTANA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1956

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.S., M.S.

GRANTED 9/1/18- 8/31/19: 14 Bachelors, 11 Masters

STUDENTS IN RESIDENCE: 38 Majors, 11 Masters

CHAIR: David Shively

FOR FURTHER INFORMATION CONTACT: Department of Geography, University of Montana, Stone Hall 208, Missoula, Montana 59812-0648. Telephone: (406) 243-4302. Fax: (406) 243-4840. E-mail: geog@umontana.edu. <http://www.cfc.umt.edu/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography in the University of Montana's W.A. Franke College of Forestry and Conservation offers baccalaureate and graduate degrees with or without options, focusing on Mountain Environments, Community and Environmental Planning, and Cartography and GIS. The Bachelor of Sciences program is designed to provide students with an integrative, liberal-arts education with a footing in mathematics and sciences (STEM). The B.S. is offered with options in Community and Environmental Planning and in Physical Geography. We also offer an interdisciplinary Certificate in GIS Sciences and Technologies and house an undergraduate Minor in Mountain Studies. The minor takes an interdisciplinary approach to the study of mountain geography and human-mountain relations, drawing on

courses in geography, geosciences, biology, forestry, and recreation management. Additionally, the Department of Geography contributes to two interdisciplinary minors: the Minor in Climate Change Studies, and the Minor in International Development Studies. Pursuit of a Geography major in combination with a minor in an allied field has become increasingly common. Students majoring in secondary education may elect geography as a major or minor area of endorsement.

The Master of Science is offered without option (general geography), with option in Cartography and GIS, and with option in Community and Environmental Planning. The Geography graduate program with or without options gives students the opportunity to pursue one of the following tracks: a thesis track, a professional paper track, or a non-thesis (comprehensive exam and portfolio) track. The choice of tracks offers graduate students flexibility in matching their graduate education with their career goals. Credits vary by option and track, requiring a commitment of two years. Interdepartmental collaboration and research based upon field work are encouraged. Further information can be found at the department's website <http://www.cfc.umt.edu/>.

Geography's Geospatial Research and Teaching (GReaT) Laboratories are comprised of a 24-seat teaching classroom and a 18-seat student-use lab. A comprehensive selection of GIS software is available, including ArcGIS, ENVI, Erdas, Grapher, PCIGeomatica, GeoDa, Feature Analyst, LiDAR Analyst, Sketchup Pro, Surfer, TerrSet, TransCAD, and Trimble products. Additional software includes SPSS, R, NVIVO, Adobe Creative Suite, Microsoft products, and more.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: The University of Montana operates on a semester system, with two sixteen-week semesters, a summer session, as well as specialized short-course sessions.

Prospective undergraduate students should consult the current University of Montana Catalog at <http://catalog.umt.edu/academics/admission/>, and/or contact Admissions and New Student Services at <http://admissions.umt.edu/>, for information regarding admission requirements.

Graduate applications must be accompanied by official transcripts from all colleges and universities attended, three letters of recommendation, official GRE and TOEFL (if appropriate) scores, and a letter of intent, explaining why an applicant wishes to pursue a graduate degree in Geography and why in our department. Completed applications must be received by February 15th for Fall Semester Admission and TA consideration. To be considered for a teaching assistantship, applications must include an additional statement of interest describing interest and qualifications for a TAsip. Applications for admission may be considered after February 15th based on available capacity. Information regarding the graduate application procedure is available on the University of Montana's Graduate School website, <http://www.umt.edu/grad/>, and the Department of Geography's website.

The Department of Geography has several graduate teaching assistantships that carry a stipend and remission of tuition. The department is also part-time positions for undergraduate students through the university's work-study program. Opportunities for employment related to faculty research or consulting projects are also available. Information regarding other potential sources of financial assistance can be obtained from the Financial Aid Office <http://www.umt.edu/finaid/>

FACULTY:

Sarah J. Halvorson, Ph.D., Colorado, 2000, Professor — health, gender, water resources, mountain environments, hazards, qualitative methods, Asia, Africa

Anna E. Klene, Ph.D., Delaware, 2005, Professor — climate, cryosphere, global change, remote sensing and GIS, Arctic and mountain geomorphology

Jeremy Sage, Ph.D., 2012, Washington State, Research Assistant Professor — tourism and recreation, economic geography, spatial econometrics and analysis, transportation economics and geography

David D. Shively, Ph.D., Oregon State, 1999, Professor and Chair — community and environmental planning, water resources management, hazards, North America

Christiane von Reichert, Ph.D., Idaho, 1992, Professor — community, population and migration, rural areas, economic geography, socio-demographic analysis, transportation, Europe

EMERITUS FACULTY:

John M. Crowley, Ph.D., Minnesota, 1964, Professor Emeritus — mountains, biogeography, Rocky Mountains, Montana

John J. Donahue, Ph.D., Syracuse, 1971, Professor Emeritus — landforms, aerial-photograph interpretation, GIS

Jeffrey A. Gritzner, Ph.D., Chicago, 1986, Professor Emeritus — cultural, historical, political, agricultural, environmental change, environmental planning, Middle East and Central Asia, Africa, The American West

Paul B. Wilson, Ph.D., Nebraska-Lincoln, 1972, Professor Emeritus — cartography and GIS, urban, North America

AFFILIATED FACULTY & ADJUNCT INSTRUCTORS:

Heather Almquist, Ph.D., Lund (Sweden), 1994

Kyle Balke, M.S., Montana, 2010

Alton Byers, Ph.D., Colorado, 1987

Faith Ann Heinsch, Ph.D., Texas A&M, 2002

Zachary A. Holden, Ph.D., Idaho, 2008

Ia Iashvili, Ph.D., Tbilisi State, Georgia, 1998

Rebecca Kranitz, M.S., Montana, 2017

Kevin G. McManigal, M.S., Montana, 2011

Irena Mrak, Ph.D., Ljubljana, Slovenia, 2009

Erich Peitzsch, M.S., Montana State University, 2009

Fernando Sánchez-Trigueros, Ph.D., Rovira i Virgili, Spain, 2013

Science (remote sensing and GIS), research skills and quantitative methods. The program prepares students for positions in government and industry, and for graduate work in geography or related fields.

Graduate: Graduate students can pursue either a MA or PhD in Geography. Students have considerable flexibility in designing programs tailored to their individual interests and career goals. Particularly strong programs exist in: (1) *Geographic Information Science* (remote sensing and GIS), capitalizing on the strengths and facilities of the Center for Advanced Land Management Information Technologies (CALMIT) and National Drought Mitigation Center (NDMC); (2) *Historical and Human Geography*. Continuing a long tradition of research in cultural and regional geography, students and faculty foci include historical settlement, land use change, environmental perception, Native American studies, Great Plains studies, population and settlement patterns and political behavior; and (3) *Community and Regional Planning*. Students may pursue a cross-disciplinary MA or PhD combining strengths of Geography and the Department of Community and Regional Planning.

Geography faculty and student offices are located in Oldfather Hall on the City Campus. Students have access to state-of-the-art computing including image processing and GIS software such as ArcGIS, ERDAS Imagine and ENVI. Through CALMIT, UNL geographers have opportunities to use unique close-range remote sensing capabilities and an aircraft for supporting remote sensing research. Faculty and students in Geography regularly collaborate with UNL's Center for Great Plains Studies, the Department of Community and Regional Planning, and the University of Nebraska Medical Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: UNL operates on the semester system. Students seeking admission to the MA program should have a BA or BS degree in geography or a cognate field. GRE scores are required. The MA requires 30 hours of coursework (including thesis). A non-thesis MA option requires 36 hours of coursework. For admission to the PhD program, applicants should have a Master's degree in geography or a related field (with thesis). GRE scores are required. Approximately 36 hours of coursework are required, plus a dissertation, written and oral comprehensives and proficiency in one research tool.

Graduate teaching assistantships are available for qualified Master's and Ph.D. students. Assistantships provide 12 hours of tuition each semester and basic individual student health insurance at a reduced premium. Graduate teaching assistants work approximately 15 hours per week, most commonly as laboratory instructors. MA students are eligible for two years of support, and PhD students for three years of funding. University fellowships are available to persons with outstanding qualifications. Completed applications are due January 15 for those wishing to be considered for financial aid and due April 15 for admission only. The University of Nebraska is an Affirmative Action Equal Opportunity Institution.

FACULTY:

J. Clark Archer, PhD, Iowa, 1974, Professor — political, settlement, computer cartography, GIS

Patrick Bitterman, PhD, Iowa, 2017, Assistant Professor — social-ecological resilience in argo-water systems, adaptive decision-making, environmental governance, spatially-explicit simulation and modeling, GIS

Rebecca A. Buller, PhD, Nebraska, 2009, Assistant Professor of Practice — historical and cultural geography, historical geography of the Great Plains, human trafficking, women's and gender studies

Kenneth Dewey, PhD, Toronto, 1973, Professor — climate variations, severe weather

Paul R. Hanson, PhD, Nebraska, 2005, Associate Director of SNR and Professor — geomorphology and landforms, climate change, physical geography of Nebraska and the Great Plains

NEBRASKA

UNIVERSITY OF NEBRASKA - LINCOLN

GEOGRAPHY

DATE FOUNDED: 1906

GRADUATE PROGRAM FOUNDED: 1906

DEGREES OFFERED: BA, BS, MA, PhD

DEGREES GRANTED 2017-2018: 10 Bachelors, 1 Masters

STUDENTS: 44 Majors, 11 Masters, 8 PhD

DEPARTMENT CHAIR: Sophia Perdikaris

GRADUATE CHAIR: David Wishart

FOR INFORMATION CONTACT: Geography Program, College of Arts and Sciences, 816 Oldfather Hall, University of Nebraska-Lincoln, Lincoln, NE 68583-0312. Telephone: (402) 472-2411. Fax: (402) 472-9642 E-mail: kbickert2@unl.edu. Website: <http://geography.unl.edu>

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: Students can earn either a Bachelor of Arts or Bachelor of Science in Geography. The undergraduate program provides a broad liberal arts education in physical, human and regional geography combined with courses in Geographic Information

R. M. (Matt) Joeckel, PhD, Iowa, 1993, Professor — surficial processes and landforms, soils and weathering, physical geography of Nebraska and the Great Plains

Cody Knutson, PhD, Nebraska, 2004, Research Associate Professor — environmental, development, and cultural, water resources and drought, risk management, environmental perceptions and justice, participatory decision making, qualitative/quantitative methods

Katherine Nashleaneas, PhD, Nebraska, 2005, Lecturer — human geography, ethnic studies, Africa, human dimensions of natural resources

Robert Shepard, PhD, Nebraska, 2017, Assistant Professor — cartography, GIS, population geography, historical geography, geography of the Great Plains

Brian D. Wardlow, PhD, Kansas, 2005, Associate Professor — remote sensing, GIS, drought, land use/land cover characterization, biogeography, and environmental studies

David J. Wishart, PhD, Nebraska 1971, Professor — historical, dispossession of indigenous peoples, epistemology of geography and history, Great Plains

Rebecca Young PhD, Nebraska, 2015, Lecturer — physical geography, soils geomorphology

AFFILIATED FACULTY:

Rodrigo F. Cantarero, PhD, Southern California, 1988, Associate Professor, Community and Regional Planning — urban and regional planning, GIS

Ge Lin, Ph.D. SUNY at Buffalo, 1996, Associate Professor, Department of Health Services Research & Administration, College of Public Health, University of Nebraska Medical Center — geographic information systems, spatial statistics and modeling, health geography

Yunwoo Nam, PhD, Pennsylvania, Associate Professor, Community and Regional Planning — public policy and urban spatial structure, GIS & analytic methods in planning, metropolitan policy, urban modeling, land use & transportation interaction, policy processes and networks

Gordon Scholz, MBA, Nebraska-Omaha, 1974, Professor, Community and Regional Planning — historic preservation, land development, planning and design

Zhenghong Tang, PhD, Texas A&M, 2007, Assistant Professor, Community and Regional Planning — GIS and risk analysis

UNIVERSITY OF NEBRASKA OMAHA

DEPARTMENT OF GEOGRAPHY/GEOLOGY

DATE FOUNDED: 1958

DEGREES OFFERED: B.A., B.S., M.A. in Geography,
Geology, Environmental Science

DEGREES GRANTED (9/1/18 – 8/31/19): 7 Bachelors, 7
Masters

DEPARTMENT CHAIR: Dr. Robert Shuster

ADMINISTRATIVE ASST: Brenda Todd

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Graduate Program Committee, Department of Geography/Geology, University of Nebraska Omaha, Omaha, Nebraska 68182-0199. Telephone: 402-554-2662. Fax: 402-554-3518. Web: www.unomaha.edu/college-of-arts-and-sciences/geography/academics/graduate-programs/index.php

PROGRAMS AND RESEARCH FACILITIES:

The Graduate Program in Geography provides training in the basic geographic skills and opportunity for graduate work in a spectrum of systematic and scientific fields. The Master of Arts degree consists of

30 hours; 24 hours of approved graduate work and 6 semester hours of thesis. A non-thesis option is also offered for 36 hours of coursework, to include comprehensive written and oral examinations. Individual programs of study are designed for incoming graduate students on the basis of previous course work and personal interviews. The History and Philosophy of Geography and Research Methods courses are required of all graduate students.

Introductory, advanced, and seminar courses are offered in four major areas of study: 1) Geographic Information Science (GIScience) - Computer Mapping and Visualization, Geographic Information Systems, Environmental Remote Sensing, Cartographic Methods, Quantitative Analysis; 2) Physical & Environmental Geography-Conservation of Natural Resources, Biogeography, Geomorphology, Climatology, Field Methods, Soils, Water Resources; 3) Urban-Regional Planning-Urban Geography, Land Use, Metropolitan Planning, Urban Community, Internship in Regional Planning; 4) Human Geography-Political Geography, Economic Geography, Cultural Geography, Feminist Geography. Students generally specialize in one area but are encouraged to take courses in all four.

The Department of Geography and Geology houses state-of-the-art laboratory and computational facilities. Separate computer labs for cartography and GIS support instruction and research. The cartography lab consists of 10 Macintosh Pro computers with 24" monitors. The GIS lab houses 16 PC computers with dual 19" monitors. Software includes Adobe CS and ESRI ArcGIS. The department also contains the Remote Sensing and Geocomputation Laboratory that contains state-of-the-art computer systems and software. The laboratory is used for classroom instruction and research by students and faculty.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The Department offers B.A. and B.S. degrees in geography, geology, environmental geography and planning, and environmental earth sciences, as well as a certificate in Geographic Information Systems.

Geography majors are required to take a core of required courses in human, physical and regional geography, plus cartography for a minimum of 24 semester hours. In addition, they must take at least one systematic, one regional and one techniques course to satisfy the undergraduate distribution requirements. Twelve hours of electives, at the upper-division level, complete the minimum of 36 hours for a degree in geography. Sixteen hours of a foreign language are required for the B.A., and fifteen hours of designated math, statistics, computer science and writing courses are required for the B.S. The environmental studies major has an earth science track with emphasis mostly in geology and physical geography, and a geography and planning track with emphasis in geographic techniques.

Graduate: An applicant for admission should have a prerequisite minimum of 15 semester hours of geography, including human and physical geography and cartography, with a minimum GPA of 3.0 on a 4.0 scale in the major program. A good background in physical geography is expected for teaching assistants. Deficiencies must be made up during the student's first year. Students are expected to be familiar with basic computer skills and statistics, as well as collateral courses in the physical sciences, economics, history, and sociology relevant to the geographical interests in which the student wishes to specialize. Students interested in remote sensing and GIS must have computer programming skills.

A number of assistantships are available each year for qualified applicants. Most assistants teach laboratories or discussions in physical geography. The standard ten-month assistantship carries a stipend of \$13,591 plus remission of twelve hours of tuition each semester including summer school. Assistants are expected to work about 20 hours per week.

UNO is committed to a program of affirmative action. Applications for admission and for graduate assistantships from women and members of minority groups are encouraged. As an equal opportunity employer, UNO is seeking the best qualified persons for graduate assistantships.

All applications to the Geography Graduate Program are handled through UNOs Graduate Studies website: <http://www.un-omaha.edu/graduate/>. Applications to the graduate program require: a letter of intent, a resume, and two letters of recommendation. The GRE is recommended for admission to the program but is required to be considered for a teaching assistantship. Teaching assistantship forms can be found on the department's website: http://www.un-omaha.edu/geogeo/geography_graduate.php.

Applications should be received by March 1 to be considered for an assistantship. Further questions about the geography graduate program can be directed to: Dr. Christina Dando, Graduate Program Chair, Department of Geography-Geology, University of Nebraska at Omaha, Omaha, NE 68182-0199. Phone: (402) 554-3134. Email: cdando@unomaha.edu.

FACULTY:

Bradley J.F. Bereitschaft, Ph.D., University of North Carolina at Greensboro, 2011, Associate Professor — urban geography, physical geography, urban environmental, sustainability, urban sprawl and air quality

Rex G. Cammack, Ph.D., University of South Carolina-Columbia, 1995, Associate Professor — geographic information systems, cartography, behavioral, remote sensing, agricultural geography, windmills and grain elevators

Christina E. Dando, Ph.D., University of Wisconsin-Madison, 2000, Professor — human geography, Great Plains, gender and landscape, landscape perception, geographies of the media

Ashlee L.D. Dere, Ph.D., The Pennsylvania State University, 2014, Assistant Professor — The Critical Zone, soils, geomorphology

George F. Engelmann, Ph.D., Columbia, 1978, Professor — vertebrate paleontology, tertiary stratigraphy and sedimentology, biogeography

Karen F. Falconer Al-Hindi, Ph.D., Kentucky, 1993, Professor — feminist geography, gender and work, history and philosophy of geography, research methods

Harmon D. Maher, Jr., Ph.D., Wisconsin-Madison, 1984, Professor — structural geology, tectonics, environmental geology, history and philosophy of geology, Svalbard, Norway, southern Appalachians

Petr Pavlinek, Ph.D., University of Kentucky, 1995, Professor — political, economic, development, regional restructuring, political economy, political ecology, transition in Central and Eastern Europe

Michael P. Peterson, Ph.D., SUNY Buffalo, 1982, Professor — computer-assisted cartography, remote sensing, geographic information systems

Robert D. Shuster, Ph.D., Kansas, 1985, Associate Professor — mineralogy, petrology, geochemistry

Zachary J. Suriano, Ph.D., University of Delaware, 2018, Assistant Professor — climatology, atmospheric dynamics, cryosphere

NEVADA

UNIVERSITY OF NEVADA, RENO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1993

DEGREES OFFERED: B.S. and B.A. in Geography; M.S. in Geography; PhD in Geography

GRANTED 9/1/17-8/31/18: 14 Bachelors, 3 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 63 Majors, 17 Masters, 17 Ph.D.

CHAIR: Douglas P. Boyle

DEPARTMENT ADMINISTRATIVE ASST: Prisilia Maldonado-Masegian

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography, University of Nevada, Mail Stop 0154, Mackay Science Bldg. Room 201, Reno, Nevada 89557-0048. Telephone (775) 784-6995. Fax (775) 784-1058. Internet: <http://www.unr.edu/geography/> Email: geography@unr.edu

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Geography at Nevada emphasizes human-environment interactions. Our curriculum and research specialize in the study of desert and mountain landscapes and people in arid and mountainous environments. The Department emphasizes the integration of human and physical geography and encourages the use of geospatial technologies (GIS, Remote Sensing, UAS, spatial analysis, and cartography). Our approach encourages problem solving that utilizes spatial reasoning and the analysis of questions at multiple spatial scales: local, regional and global.

GRADUATE: Geography at Nevada emphasizes the study of landscape change and human-environment interactions in arid and mountainous landscapes. The Department emphasizes the integration of human and physical geography and encourages the use of geospatial technologies (GIS, Remote Sensing, UAS, spatial analysis, and cartography). Our department has a strong physical geography component that seeks to understand pattern and process within nature. We have strengths in cultural and historical geography that seek to understand pattern and process within societies. Where studies of nature and society meet, we study the effects of human ideas, systems and activities on the environment. And looking at human-environment interactions from a different perspective, our work also encompasses how the environment establishes contexts and constraints for human ideas, systems and activities.

The Department of Geography houses the Office of the State Climatologist and UNR weather station, several research labs, such as the Nevada Paleoenvironmental Analysis Laboratory, an extensive map collection, and equipment for field studies focusing on mountain environments, climatology, UAS/drone-based observation, environmental reconstruction, and water resources. The Department contains a laboratory for cartography and computer mapping and a center for the study of geographic information systems (GIS). There are exceptional facilities for the analysis of remotely sensed data available through the Mackay School of Earth Sciences and Engineering, of which the Department is a part. The University comprises the full range of programs and facilities found in land-grant institutions. The Knowledge Center at the University contains an excellent journal collection.

Reno is uniquely situated for the study of geography and land use planning in a growing state. The location offers ready access to the

Sierra Nevada, high deserts, the Basin & Range physiographic province, and to recreational and research opportunities at Lake Tahoe, with Reno a three-hour drive from the San Francisco Bay Area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Admission to the graduate program requires identification of a faculty member willing to serve as an advisor and is determined from a combination of grade point average, GRE scores, statement of purpose, and three letters of reference. Applications are due February 01 for the following Fall semester. See the university catalog for academic requirements for each program. There are, at present, eighteen graduate teaching and research assistantships available. We award forty-plus undergraduate and graduate scholarships annually.

FACULTY:

Thomas P. Albright, PhD, Wisconsin-Madison 2007, Associate Professor — conservation biogeography, ecoclimatology, landscape ecology, remote sensing, avian ecology
Scott D. Bassett, D.Des., Harvard, 2001, Associate Professor — land use planning, GIS, spatial modeling, conservation biology
Kate A. Berry, PhD, Colorado, 1993, Professor — water resources, Native American and ethnic geography, law and public policy
Douglas P. Boyle, PhD, Arizona 2001, Professor — surface water hydrology, snow hydrology, integrated modeling, paleoclimate modeling
Jessie Clark, PhD, Arizona, 2012, Assistant Professor — political geography, feminist geography, Kurdish and Turkish geography
Adam Csanik, PhD, Arizona 2011, Assistant Professor — paleoclimatology, isotope geochemistry, dendrochronology and plant-climate interactions
Jill S. Heaton, PhD, Oregon State University, 2001, Professor, Vice Provost for Faculty Affairs — arid land ecology, GIS, spatial statistics
Scott Kelley, PhD, Arizona State, 2015, Assistant Professor — transportation, travel behavior, GIS, network analysis, spatial modeling
Casey R. Lynch, PhD, Arizona, 2019, Assistant Professor — urban, political, and digital geographies, feminist and queer theory, Europe and Latin America
Stephanie McAfee, PhD, Arizona, 2009, Associate Professor, State Climatologist — climatology, climate services, high-latitude geography
Scott A. Mensing, PhD, UC Berkeley, 1993, Regents & Foundation Professor, Gibson Professor of Geography and Director, Office of Undergraduate Research — paleoecology, Quaternary studies, field methods
Anne Nolin, PhD, UC Santa Barbara, 1993, Professor, Director Graduate Program in Hydrologic Sciences — climate science, hydrology, remote sensing, snow, surface water hydrology, watershed processes
Kenneth Nussear, PhD, Nevada-Reno, 2004, Assistant Professor — spatial ecology, species distributions, habitat connectivity, biophysical ecology, conservation biology, herpetology
Kerri Jean Ormerod Ph.D., Arizona, 2015, Assistant Professor — water governance, urban political ecology, water reuse, sanitation, infrastructure
Paul F. Starrs, PhD, UC Berkeley, 1989; Regents & Foundation Distinguished Professor of Geography, Past-Editor Geographical Review — natural resources, cultural, Mediterranean landscapes, Nevada and the American West, historical
Paul J. White, PhD, Brown University, 2008, Associate Professor — place and space, materiality, industrialization and colonialism, American West

ADJUNCT/AFFILIATED FACULTY:

Nigel J.R. Allan, PhD — mountain environments, cultural geography, history of geographic thought

Michael Dettinger, PhD — atmospheric rivers, Great Basin and western weather and rain shadowing in eastern Sierra Nevada
Christine Johnson, PhD, Curator of Artifacts and Education, Nevada Historical Society — human and cultural geography
Alexandra Lutz, PhD — international water development, groundwater hydrology
Catherine Magee, PhD, Director of the Nevada Historical Society — cultural geography, objects conservation
Kenneth McGwire, PhD — energy and water balance, vegetation analysis, remote sensing
Anna Klimaszewski-Patterson, PhD — oaleoecology, biogeography, GIS applications in landscape modeling, predictive models, environmental archaeology and climate change, mobile devices as geographic tools
Victoria S. Randlett, PhD — urban, historical, social, geography of food and food systems
Jeremy Smith, PhD, GIS Coordinator at Truckee Meadows Regional Planning Agency
Scotty Strachan, PhD University Nevada, Reno, 2016 Graduate Faculty, Director of Cyberinfrastructure (Office of Information Technology) and Nevada Climate-ecohydrology Assessment Network (NevCAN) — environmental sensor networks, mountain climate, Great Basin water resources, dendrochronology
Tamara Wall, PhD — drought, fire, hazards perceptions, participatory governance
Peter E. Wigand, PhD — geoarcheology, paleoecology, pollen and packrat midden analysis

NEW HAMPSHIRE

DARTMOUTH COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1942

DEGREES OFFERED: B.A.

GRANTED 9/17-6/18: 41 Bachelors

MAJORS: 80

CHAIR: Christopher Sneddon

DEPARTMENT ADMINISTRATOR: Kelly Palmer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Professor Christopher Sneddon Department of Geography, Dartmouth College, 6017 Fairchild Hall, Hanover, New Hampshire 03755-3571. Telephone (603) 646-3378. Fax (603) 646-1601. E-mail: Geography@Dartmouth.edu. Internet: www.geography.dartmouth.edu

PROGRAMS AND RESEARCH FACILITIES: Geography is housed in the Fairchild Science Center. Departmental facilities are excellent, and include well-equipped Geographic Information Systems Center, spatial analysis and remote sensing laboratories, sedimentology laboratory, and fully-equipped classrooms. Baker Library holds one of the nation's finest collections of atlases and sheet maps, as well as a magnificent array of journals and books for study and research in geography. The Stefansson collection of Arctic materials is especially noteworthy. In addition to fieldwork carried out in the local area, the department sponsors an off-campus program in Prague.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID: Quarter system. Students academically qualified for admission find that Dartmouth has a generous financial aid plan, and over half of the students receive support from either scholarships or loans. In addition, student research is often funded by Waterhouse, Richter, Mellon, and Rahr grants.

FACULTY:

Luis F. Alvarez León, Ph.D., University of California Los Angeles, 2016, Assistant Professor — economic geography, geospatial data, media, and technologies, digital economy, information policy

Jonathan W. Chipman, Ph.D., University of Wisconsin-Madison, 2001 — remote Sensing, GIS, spatial analysis & modeling

Ethan Coffel, Ph.D. Candidate, Columbia, 2018, Postdoctoral Fellow — climate change, extreme weather events, climate impacts

Mona Domosh, Ph.D., Clark University, 1985, Professor — urban, historical, cultural, gender

Treva Ellison, Ph.D., University of Southern California, 2015, Lecturer — carceral geographies, queer history, social movements

Sujin Eom, Ph.D., University of California, Berkeley, 2017, Postdoctoral Fellow — transnational architecture, Asia Pacific, migration and race, global urban history, postcolonial studies

Coleen A. Fox, Ph.D., University of Oregon, 2000, Senior Lecturer — Southeast Asia, political ecology, water resources

Susanne Freidberg, Ph.D., University of California - Berkeley, 1996, Professor — agro-food, political ecology, science and technology studies, development

Yui Hashimoto, Ph.D. Candidate, University of Wisconsin-Milwaukee, 2018, Postdoctoral Fellow — feminist economic geography, critical geographies of race, urban redevelopment, multi-racial solidarities

Garnet L. Kindervater, Ph.D., University of Minnesota, 2018, Lecturer — political catastrophe and Human Critical Theory

Patricia J. Lopez, Ph.D., University of Washington, 2014, Assistant Professor — health, development, historical militarism

Ryan E. McKeon, Ph.D., Leigh University, 2012, Lecturer — Earth surface processes, geospatial analysis, geochronology, GIS

Frank J. Magilligan, Ph.D., Wisconsin, 1988, Professor — water resources, fluvial geomorphology, watershed science, river restoration

Justin S. Mankin, Ph.D., Stanford University, 2015, Assistant Professor — climate variability and change, hydroclimate, land-atmosphere interactions, ecology, Earth system modeling, human impacts of climate change

Greta M. Marchesi, Ph.D., University of California, Berkeley, 2016, Visiting Assistant Professor — settler-colonial environments, science and technology studies, soils, historical geography

Abigail H. Neely, Ph.D., University of Wisconsin-Madison, 2011, Assistant Professor — political ecology, health, development, feminist methods and science studies

Garrett G.D. Nelson, Ph.D., University of Wisconsin-Madison, 2016, Postdoctoral Fellow — historical geography, urban and regional planning, human landscapes, social theory, North America and Europe

Aparna Parikh, Ph.D. Candidate, Pennsylvania State University 2018, Postdoctoral Fellow — feminist geography, global urbanism, neoliberalism, South Asia

Xun Shi, Ph.D., University of Wisconsin-Madison, 2002, Professor — GIS, spatial analysis, health, soil mapping

Christopher Sneddon, Ph.D., University of Minnesota, 2000, Professor — political ecology, Southeast Asia, transnational rivers, environmental conflicts, sustainable development, river restoration

Stephanie A. Spera, Ph.D., Brown University, 2016, Neukom Postdoctoral Fellow — land use change, remote sensing, global environmental change, Brazil, spatial analysis

Brian Williams, Ph.D., University of Georgia, 2018, Postdoctoral Fellow — environmental justice, environmental racism, political ecology, agrarian studies, theories of race, chemical geographies, historical geography, the U.S. South.

Jonathan M. Winter, Ph.D., Massachusetts Institute of Technology, 2009, Assistant Professor — climate impacts on water resources, climate change

Richard Wright, Ph.D., Indiana, 1985, Professor — race, immigration, labor markets, housing markets

EMERITI FACULTY:

Laura E. Conkey, Ph.D., Arizona, 1982, Associate Professor Emeritus — dendrochronology, biogeography, climatology, field methods, feminism & science

David T. Lindgren, Ph.D., Boston, 1969, Professor Emeritus — urban, Russian, political

Vincent H. Malmstrom, Ph.D., Michigan, 1954, Professor Emeritus — regional, cultural, historical, Europe, Latin America, climatology

PLYMOUTH STATE UNIVERSITY

THE GEOGRAPHY PROGRAM WITHIN THE SOCIAL SCIENCE DEPARTMENT

DATE FOUNDED: 1975

DEGREES OFFERED: B.S. in Geography; B.S. in Environmental Planning; B.A. in Tourism Management and Policy

GRANTED 9/1/16-8/31/17: 22 Bachelors

MAJORS: 40

HEAD: Dr. Patrick May

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Kathryn T. Melanson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Patrick May, Department of Social Science, Plymouth State University, 17 High Street, Plymouth, New Hampshire 03264. Telephone (603) 535-2501. Fax (603) 535-2351. E-Mail: pmay@plymouth.edu. Internet: <http://www.plymouth.edu/>

PROGRAMS AND RESEARCH FACILITIES: Two hours north of Boston off Interstate 93, Plymouth State University is located in the Lakes Region of New Hampshire among the foothills of the White Mountains. A beautiful valley setting at the confluence of the Baker and Pemigewasset Rivers makes Plymouth a natural destination for mountain climbing, water sports, hiking and skiing. These are popular leisure activities for the 3,500 undergraduate and 1,000 graduate students at the university.

The program also offers three degrees: BS in Geography; BS in Environmental Planning; and BA in Tourism Management and Policy. Each major integrates core courses in cultural geography, physical geography, and geographic techniques, while complimenting curriculum from other fields. Each program encourages (GE) or requires (GE and TMP) a student internship of 3-9 credits with community and regional planning agencies, the travel and tourism industry, and GIS firms. These programs can also be complimented with a GIS Certificate or a new interdisciplinary Minor in Sustainability.

Upper division classes rarely exceed 20 students. Through a comprehensive advising system, the geography faculty assume a personal interest in each of the students, supervise directed undergraduate research projects, and work closely with majors in more informal environments.

The Maynard Weston Dow Geographic Information Systems Lab focuses on undergraduate instruction using ArcGIS. A site license for ArcGIS allows students to work anywhere on campus. The department supports the activities of the Institute for New Hampshire Studies and the Office of Environmental Sustainability.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University employs a 15-week semester system for Fall and Spring and optional four-week Early Spring Terms and two Summer Sessions. Admissions deadlines are April 1 for Fall and December for Spring. In addition to growing amounts of financial aid available for students, The John Ozog Award provides a \$1000+

scholarship annually to a deserving sophomore or junior who has shown academic excellence and participated in the PSU Geo Club. The Okrant Family Scholarship is also awarded to an outstanding student in Tourism Management & Policy.

FACULTY:

Adam W. Keul Ph.D., Florida State 2011, Assistant Professor — tourism geography, political economy and ecology, cultural geography, coastal studies

Hyun Joong Kim, Ph.D., Kent State University, 2007, Assistant Professor — spatial analysis, geographic information systems, remote sensing, cartography, geographic education

Patrick May, Ph.D., University of Maryland, 1999, Associate Professor and Coordinator of Geography — cultural geography, geographic education, urban historical geography, Africa

Steve Whitman, M.S., AICP, University of Massachusetts, 1998, Contract Faculty — environmental planning, community resilience, permaculture design

EMERITUS FACULTY:

Bryon D. Middlekauff, Ph.D., Michigan State, 1987, Professor — geomorphology, biogeography, remote sensing, Australia, New Zealand, South Pacific

Mark J. Okrant, Ed.D., Oklahoma State, 1975, Professor — tourism, community planning, population, Alaska and Canada

Kurt Schroeder, Ph.D., Pennsylvania State, 1988, Professor — military geography, GIS, Europe

UNIVERSITY OF NEW HAMPSHIRE

DEPARTMENT OF GEOGRAPHY

DEGREES OFFERED: B.A.

DEGREES GRANTED (9/1/18 – 8/31/19): 10

MAJORS: 28

DEPARTMENT CHAIR: Mary Stampone

ADMINISTRATIVE ASST: Ginny Bannon

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: University of New Hampshire, Department of Geography, 102 Huddleston Hall, 73 Main St., Durham, NH 03824.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

To earn a bachelor of arts in geography, students must complete 10 geography courses with a grade of C-minus or above across the following categories: Foundation Courses (3 courses); Students must complete three foundation courses. Foundation courses are intended to provide students a basic understanding of human, physical, and world regional geography.

Skills Courses (2 courses): Two skills courses are required of all majors. Skills courses provide students with basic analytical and technical skills used in geography.

Electives (5 courses) may be any additional four geography courses.

FACULTY:

For a full list of faculty visit: <https://cola.unh.edu/geography/faculty-staff-directory>

NEW JERSEY

ROWAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING & SUSTAINABILITY

DATE FOUNDED: 1970

DEGREES OFFERED: 4 Baccalaureate Degree Programs

(see below)

GRANTED 9/1/18 – 8/31/19: 70

MAJORS: 206

CHAIR: Kevin Keenan

DEPARTMENT ADMINISTRATIVE ASST: Laura Ruthig

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Kevin Keenan, Department of Geography, Planning & Sustainability, Robinson Hall, 201 Mullica Hill Rd., Rowan University, Glassboro, New Jersey 08028. Telephone (856) 256-4231. Fax (856) 256-4670. E-mail: keenankp@rowan.edu. Internet: www.rowan.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department offers four baccalaureate degree programs, nine minors and three Certificates of Undergraduate Study. The programs include a BA and minor in Geography, a BA and minor in Environmental Studies & Sustainability, a BS and Minor in Community & Environmental Planning, and a BS and Minor in GIS. The standalone minors include: Geoscience, Sustainability Science, Applied Geographic Knowledge and Skills (GeoEducation), Geographic Inquiries into Global Issues and Sustainable Built Environments. There are also Certificates of Undergraduate Study in Geographic Information Systems & Science, Sustainable Urbanism, Environmental Humanities as well as a post baccalaureate certificate in Cartography and GIS. All of these programs integrate theory and practice, blending both academic and applied facets of geography, environment, planning, and geospatial technologies.

In support of its teaching, research and outreach, the Department houses the Geospatial Research Laboratory (GeoLab) which includes four computer labs in which students learn to use the latest, high level GIS software (a site license for the full ESRI package) using state-of-the-art hardware platforms and peripherals including large format high resolution plotters and scanners as well as survey quality global positioning system (GPS) receivers. This equipment is used by faculty for research and outreach activities. Students have full access to these labs in which they can pursue class projects and research, often working closely with faculty members.

Our Department also works closely with the College of Education to ensure that our dual major program meets the requirements and scheduling needs of education majors. Upon graduation departmental majors pursue a variety of options including continuing their education at the graduate level, teaching elementary or secondary school, working in environmental firms, as planners or as GIS specialists in various agencies, environmental protection departments, engineering firms, software development firms and in many other areas.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Rowan University is on a semester plan. The department offers all major courses in rotation during day and evening time periods, thus providing students flexibility in completing our program. We also offer a limited selection of lower and upper division courses during the summer term. Admission requirements include high school diploma or GED equivalency, and either SAT or ACT

scores. Financial aid programs include loans, grants, scholarships, and employment.

GEOGRAPHY, PLANNING & SUSTAINABILITY FACULTY

Zachary Christman, Ph.D., Clark University, 2010, Assistant Professor — landscape change, GIS, remote sensing, vulnerability, health

John Hasse, Ph.D., AICP, Rutgers University, 2001, Professor — land use planning, GIS, sustainability, geography storytelling

Jordan Howell, Ph.D., Michigan State University, 2013, Assistant Professor — waste, Hawaii, North America, technology, environmental policy

Kevin Keenan, Ph.D., AICP, Clark University, 2009, Chair/Associate Professor

Jennifer Kitson, Ph.D., Arizona State University, 2015, Assistant Professor — urban, cultural, sensory and aesthetic experience, non-representational theory, sustainable urbanism

Charles McGlynn, Ph.D., Rutgers University, 2011, Instructor — water resources, population, Asia, American and Russian studies

Mahbubur Meenar, Ph.D., Temple University, 2014, Assistant Professor — spatial planning, green infrastructure, food environment, participatory planning, mixed-methods GIS

EMERITI FACULTY:

Edward F. Behm, M.A., Bowling Green, 1971, Assistant Professor — cultural, population, land use, Europe

Denyse Lemaire, Ph.D., Free University of Brussels, 1992, Professor — glaciology, geology, environmental science

Jerry N. Lint, M.Ed., Penn State, 1963, Professor — physical, climatology, Latin America

Richard A. Scott, Ph.D., Syracuse, 1982, Professor — quantitative methods, urban, computer cartography, GIS

Charles A. Stansfield, Jr., Ph.D., Pittsburgh, 1965, Professor — cultural landscapes, tourism and recreation, U.S. and Canada, British Isles

Chester E. Zimolzak, M.S., Wisconsin, 1964, Associate Professor — cartography, transportation, manufacturing, Eastern Europe

RUTGERS UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1956

DEGREES OFFERED: B.A., M.A., M.S., M.Phil., Ph.D.

DEGREES GRANTED 9/1/17-8/31/18: 20 Bachelors, 2 Masters, 9 Ph.D.

STUDENTS IN RESIDENCE: 50 Majors, 5 Masters, 34 Ph.D.

CHAIR: Robin Leichenko

GRADUATE DIRECTOR: Laura Schneider

DEPARTMENT ADMINISTRATIVE ASST: Cleo Bartos

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Undergraduate: Undergraduate Admissions, Operations Center, Rutgers, The State University of New Jersey, 65 Davidson Road, Room 202, Piscataway, New Jersey 08854-8097. Telephone (732) 445-4636. Fax (732) 445-8088. Graduate: Graduate Program in Geography, Department of Geography, Rutgers, The State University of New Jersey, 54 Joyce Kilmer Avenue, Piscataway, New Jersey 08854-8045. Telephone (848) 445-4103. Fax (732) 445-0006. E-mail: cleo.bartos@rutgers.edu Web: <https://geography.rutgers.edu/>

PROGRAMS AND RESEARCH FACILITIES:

Founded in 1949, the Department of Geography at Rutgers University is a leading center for innovative research and teaching on the earth's landscape and human-environment relationships. Research by our faculty and graduate students explores a range of topics, from the

cultures and economies of cities and built environments to tropical deforestation and the flow of polar ice sheets. Our geographical foci range from coastal hazards in New Jersey to the coffee fields of Jamaica and slums of India.

We offer interdisciplinary undergraduate (Bachelors) degrees in Geography, Environmental Studies, and International and Global Studies, and we have a dynamic graduate program composed of a highly international student body carrying out cutting-edge theoretical and applied research. Across our activities, we use geographic analyses to interrogate abiding problems of the modern world.

The Graduate Program in Geography encourages work on a wide range of research specialties and fosters strong interdisciplinary ties. Topics reflected in the work of our faculty and current graduate students include: human geography, physical geography, and human-environmental geography. Each of these core areas may be enhanced through training in advanced geographical techniques.

The graduate program has a total of 27 faculty members. They consist of 9 members of the "core" Department of Geography faculty and 18 faculty members with geographic research interests located in other schools and departments, such as the Edward J. Bloustein School of Planning and Public Policy; the Department of Human Ecology; the Department of Ecology, Evolution, and Natural Resources; the Department of Landscape Architecture; and the Department of Anthropology.

We offer a terminal master's degree (MA/MS) and PhD in geography, and while we sometimes admit students to the PhD program without a master's degree, we generally prefer that applicants have completed some graduate study (although not necessarily in geography) before entering the program. The master's degree program is designed to be completed within two years, and while time to completion varies for PhD students, we recommend students finish in 4–6 years. The program admits students with no prior college- or graduate-level training in geography, but looks for those with an openness to immersion in the rich interdisciplinary questions it opens up.

The graduate program in Geography at Rutgers offers rigorous interdisciplinary training in areas that reflect a diverse set of empirical questions and theoretical approaches. Much of the research conducted by program faculty falls broadly within an environment and society tradition, but other specializations are encouraged. Specific strengths of the program include: 1) *environmental geography* – political ecology; human dimensions of global environmental change; human responses to environmental hazards; institutional and cross-cultural aspects of resource management involving forestry, fisheries, wildlife conservation, mining and agriculture; environmental justice; public health and risk communication; 2) *urban/economic geography and social theory* – globalization; uneven development; contemporary urban development, revitalization and gentrification; diverse economies; grassroots politics; citizenship; democratic theory and practice; housing, residential segregation, and community control of land use; gender; race; nationalism; 3) *physical geography* – climatology and climate change; snow-cover dynamics; cryosphere; hydrology; land use and land cover change; invasive species; coastal geomorphology; and 4) *geospatial information science* – remote sensing; geographic information science; spatial statistical analysis; cartography.

The university's location in the New York metropolitan region, its proximity to the diverse physical and social environments of the mid-Atlantic and Appalachian regions, and its ties to many state, national, and international organizations combine to provide compelling geographical research opportunities. The program houses the Office of the NJ State Climatologist, and maintains close ties with a number of interdisciplinary units across the university including the Center for Historical Analysis, the Center for Cultural Analysis, Centers for African, Latin American, Latino and Hispanic Caribbean, South Asian

and European Studies, the Climate Institute, the Institute of Earth, Ocean and Atmospheric Sciences and the Grant F. Walton Center for Remote Sensing and Spatial Analysis. Certificate Programs are available in Geomatics, Human Dimensions of Global Change, and Quaternary Studies.

The Department of Geography has several laboratories equipped for instruction and graduate research. The Center for Remote Sensing and Spatial Analysis and the Edward J. Bloustein School of Planning and Public Policy also contain excellent facilities for remote sensing and geographic information systems and are accessible to students through participating geography graduate faculty.

GRADUATE PROGRAM ADMISSION REQUIREMENTS AND FINANCIAL AID: The program offers four-year funding packages to a limited number of qualified applicants consisting of a combination of fellowships and teaching assistantships. All application materials must be received by January 15 for admission the following academic year.

FACULTY:

Nathanial Gabriel Ph.D., Rutgers University, 2012, Assistant Teaching Professor — political ecology, urban socio-natural systems, economic development and urban environmental politics

D. Asher Ghertner, Ph.D., University of California-Berkeley, 2010, Associate Professor — urban informality and governance, the political economy of displacement, political ecology, governmentality and rule, ethnography, Indian politics, the politics of displacement, rule & resistance, urban geography, development, aesthetic politics, ethnography, Indian politics

Robin M. Leichenko, Ph.D., Pennsylvania State University, 1997, Professor — economic geography, climate change vulnerability, human dimensions of global environmental change

Åsa K. Rennermalm, Ph.D., Princeton University, 2007, Associate Professor — physical geography, hydrology, climatology, Arctic region, Greenland ice sheet

Kevon C. Rhiney, Ph.D., University of the West Indies, 2010, Assistant Professor — global environmental change, social and environmental justice, climate adaptation pathways, environmental disasters, small island developing states, Caribbean

David A. Robinson, Ph.D., Columbia University, 1984, Distinguished Professor and N.J. State Climatologist — climatology, cryosphere, regional climates, physical geography

Laura C. Schneider, Ph.D., Clark University, 2004, Associate Professor — land change science, biogeography, remote sensing, GIS, Latin America

Richard A. Schroeder, Ph.D., University of California-Berkeley, 1993, Professor — uneven development, political ecology, conservation, Africa, wildlife, mining, forestry, gender, race, nationalism

Kevin St. Martin, Ph.D., Clark, 1999, Associate Professor — economic geography, diverse economies, political ecology, community and commons, critical cartographies, geographic information systems (GIS)

AFFILIATED FACULTY AND TECHNICAL STAFF:

Paul O'Keefe, Ph.D., West Virginia University, 2015, Instructor — development geography, political ecology, Africa

Michael Siegel, M.L.S., Rutgers University, 1983, Cartographer

GRADUATE FACULTY (members of graduate program only):

Gail M. Ashley, Ph.D., University of British Columbia, 1977, Professor — Quaternary, sedimentology, glacial geomorphology, environmental planning

James DeFilippis, Ph.D., Rutgers University, 2000, Associate Professor — community development, housing policy, immigration, labor

Michael R. Greenberg, Ph.D., Columbia University, 1969, Distinguished Professor — environmental health and risk analysis, nuclear waste management

Heidi Hausermann, Ph.D., University of Arizona, 2010, Assistant Professor — agrarian change, political ecology, land-use/cover change, Ghana

David M. Hughes, Ph.D., University of California-Berkeley, 1999, Professor — environmental anthropology, political ecology, climate change, oil, energy, extractive industries, Southern Africa, Caribbean, Europe

Robert W. Lake, Ph.D., University of Chicago, 1981, Professor — urban and political geography, environmental politics, planning and social theory

Richard G. Lathrop, Ph.D., University of Wisconsin-Madison, 1988, Professor — remote sensing and spatial modeling of terrestrial/aquatic ecosystems, geographic information systems (GIS), landscape ecology

Melanie Hughes McDermott, Ph.D., University of California-Berkeley, 2000, Visiting Scholar — human ecology, political ecology, forestry, climate change

Pamela McElwee, Ph.D., Yale University, 2003, Associate Professor — global environmental change, biodiversity, conservation, and climate change in Asia

Kathe Newman, Ph.D., City University of New York (CUNY), 2001, Associate Professor — urban politics, urban revitalization, gentrification, community development, community food security and financialization

Karl F. Nordstrom, Ph.D., Rutgers University, 1975, Distinguished Professor — coastal geomorphology and management, environmental restoration

Karen M. O'Neill, Ph.D., University of California-Los Angeles, 1998, Associate Professor — environmental policy, water, environmental restoration, biodiversity

Frank J. Popper, Ph.D., Harvard University, 1972, Professor — land use, environmental and regional policy, natural resources management

Edward Ramsamy, Ph.D., Rutgers University, 2001, Associate Professor — development, social theory, race, culture and identity, Southern Africa

Mi Shih, Ph.D., Rutgers University, 2010, Assistant Professor — land development and property rights, city redevelopment, social protests and citizenship in China

David Tulloch, Ph.D., University of Wisconsin-Madison, 1997, Associate Professor — geo-spatial technologies, environmental and land-use planning

Lyna Wiggins, Ph.D., University of California-Berkeley, 1981, Associate Professor — geographic information systems (GIS), computer applications in planning

Ming Xu, Ph.D., University of California-Berkeley, 2000, Associate Professor — ecosystem ecology, modeling and management, remote sensing and geographic information systems (GIS), spatial modeling

EMERITI FACULTY:

H. Briavel Holcomb, Ph.D., University of Colorado — urban redevelopment, inequalities, tourism

Bonnie McCay, Ph.D., Columbia University — property, environment, marine governance, fisheries, North Atlantic, Mexico

J. Kenneth Mitchell, Ph.D., University of Chicago — environmental hazards, human-environment theory, environment and public policy, global environmental change

Joanna Regulska, Ph.D., University of Colorado — urban policy, political, Central and East European restructuring, gender

Thomas Rudel, Ph.D., Yale University — Latin America, environment, development, land use

Peter O. Wacker, Ph.D., Louisiana State University — historical, cultural

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1992

DEGREES OFFERED: B.S. Geography, Master of Applied
Geography

DEGREES GRANTED (9/1/18 – 8/31/19): 16 Bachelors, 3
Masters

STUDENTS IN RESIDENCE: 47 Majors, 22 Masters, 17
Minors

DEPARTMENT CHAIR: Dr. Carol L. Campbell

ADMINISTRATIVE ASST: Karen Hancock

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** Carol Campbell, Head, Department of Geography, MSC MAP,
P.O. Box 30001, New Mexico State University, Las Cruces, NM
88003-8001. Telephone (575) 646-3509. Fax (575) 646-7430. E-mail:
geography@nmsu.edu Internet: geography.nmsu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of
Geography offers the following degree programs: B.S. in Geography
with concentrations in Geographic Information Science and
Technology (GIS&T) and Human-Environment Relationships (HER);
Master of Applied Geography. We emphasize GIS, remote sensing,
spatial modeling, geomorphology, biogeography, landscape ecology,
cultural geography, water policy, environmental geography, drylands,
U.S.-Mexico border, and the U.S. Southwest. We have a very strong
commitment to applied research and to providing students with
extensive field and professional experience.

The Spatial Applications Research Center provides students with
hands-on experience employing state-of-the-art GIS&T equipment.
Geography majors can receive academically-related employment and
internships. We also have a 30-seat geospatial teaching classroom with
ArcGIS, and ENVI.

New Mexico State University is a land grant institution with a main
campus enrollment of approximately 15,000 students from
49 states and 89 foreign countries. Associated with the university are
the Jornada Experimental Range, the New Mexico Department of
Agriculture, and the Water Resources Research Institute. As a Ph.D.-
granting university, New Mexico State has a modern, well-endowed
University Library, including a map library and documents collection,
which serve as federal depositories.

**ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND
FINANCIAL AID:** Semester system with two five-week summer
sessions. Application for admission to the university may be obtained
by writing to the Office of Admissions and Records, Box
3A, New Mexico State University, Las Cruces, New Mexico 88003 or
online: <https://admissions.nmsu.edu/> or <https://gradschool.nmsu.edu/>.
A variety of scholarships and fellowships are available through the
department, college, and university. Other financial aid in the
department includes the potential for employment as research aides in
the Spatial Applications Research Center, teaching assistants, and
general work-study positions.

FULL-TIME FACULTY:

*Christopher P. Brown, Ph.D., San Diego State University, 1998,
Associate Professor — U.S. Mexico border, water resource
management, political ecology, GIS*

*Michaela Buenemann, Ph.D., Oklahoma, 2007, Associate Professor —
drylands, landscape ecology, GIS, remote sensing, spatial
modeling*

*Carol L. Campbell, Ph.D., UCLA, 2005, Associate
Professor/Department Head — biogeography, landscape
ecology, human-environment, sustainability, conservation*

*Michael N. DeMers, Ph.D., Kansas, 1985, Professor — GIS,
landscape ecology, geographic education, spatial cognition*

*Daniel P. Dugas, Ph.D., Oregon-Eugene, 1993, Assistant Professor
— geomorphology, physical geography, Quaternary
environments, soils*

*Eric Magrane, Ph.D., University of Arizona, 2017, Assistant Professor
— cultural geography, geohumanities, human-environment,
climate and culture, environmental narratives*

EMERITUS FACULTY:

*Robert J. Czerniak, Ph.D., Colorado, 1979, Professor Emeritus —
land use, community development, urban geography,
transportation planning*

*John B. Wright, Ph.D., California-Berkeley, 1990, Professor Emeritus
— cultural geography, environmental conservation, American
West, New Mexico*

SAN JUAN COLLEGE

GEOGRAPHIC INFORMATION SCIENCE & TECHNOLOGY PROGRAM

FOR ADDITIONAL INFORMATION SEE: Link to San Juan
College GIST Program page: [www.sanjuan-college.edu/school-of-
trades-and-technology/programs/geographic-information-systems/](http://www.sanjuan-college.edu/school-of-trades-and-technology/programs/geographic-information-systems/)

PROGRAMS AND RESEARCH FACILITIES: The Geographic
Information Science & Technology program is focused on Geographic
Information Science (GIS), the Global Positioning System (GPS), and
in the use of satellite and aerial imagery among other mapping
technologies. Together, these tools are used by trained professionals to
address a huge variety of applications that non-profit, industry and
government organizations currently utilize and are expected to
continue to use. In other words: GIS professionals are expected to be
in demand for a long time.

THE UNIVERSITY OF NEW MEXICO

THE DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1970

DEGREES OFFERED: B.A., B.S., M.S.

DEGREES GRANTED (9/1/18 – 8/31/19): 27 B.A./B.S., 10
M.S.

DEPARTMENT CHAIR: Maria K. Lane

ADMINISTRATIVE ASST: Texanna Martin

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** geography@umn.edu.

PROGRAMS AND RESEARCH FACILITIES: The geography
department at UMN offers a B.A., B.S., and M.S. in geography and is
one of UMN's most vibrant departments. Our award-winning faculty
teaches engaging classes to undergraduate and graduate students
studying GIScience, spatial analysis, legal geography, environmental
policy and management, historical geography, and cartography,
among other topics. We engage both graduate and undergraduate

students in high-impact research here in the Southwest and throughout the world, with a particular focus on Latin America and the Atlantic World. The department recently updated its computer lab for GIS, geovisualization and remote sensing and also maintains a checkout facility for physical geography field equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The major in geography requires 38-43 credit hours of lower and upper division coursework. Introduction to Physical Geography, Human Geography, and Introduction to Maps and Geospatial Information are required of all majors. Undergraduates can also choose from three minors: Geography; Geographic Information Science; Law, Environment, and Geography.

Graduate: The University operates on the semester system. Both thesis and non-thesis plans are offered. Seminars on History & Methods in Geography and Approaches to Geographic Research are required. Candidates who select the thesis plan must complete additional graduate-credit courses and six thesis hours for a total of 30 credits, while non-thesis candidates must complete additional courses and a Master's Project for a total of 33 credits. Candidates under the thesis plan will be examined orally on their theses. Candidates under the non-thesis plan will be tested with both oral and written examinations. Admission to the graduate program requires the applicant to make formal application to the Office of Graduate Studies, submitting a letter of intent, resume, GRE scores, and three letters of academic recommendation. The letter of intent is typically 2-3 pages in length, explaining the applicant's background, interest in the program, research areas in which the applicant would like to work, and professional or career plans. Applications are due February 1, and decisions are made by March 15, along with funding offers. The department has 6 TA positions, and additional financial aid is typically available through faculty research grants.

FACULTY:

Professors:

Chris S. Duvall, Ph.D., University of Wisconsin, Madison
Scott M. Freundsuh, Ph.D., State University of New York, Buffalo

Associate Professors:

Ronda L. Brulotte, Ph.D., University of Texas, Austin
Constantine Hadjilambrinos, Ph.D., University of Delaware
K. Maria D. Lane, Ph.D., University of Texas, Austin
Christopher D. Lippitt, Ph.D., San Diego State University

Assistant Professors:

Xi Gong, Ph.D., Texas State University
Yan Lin, Ph.D., Texas State University
Benjamin P. Warner, Ph.D., Arizona State University

Lecturer:

Caitlin L. Lippitt, Ph.D., San Diego State University

Adjunct Faculty:

Daniel Arreola, Ph.D., University of California, Los Angeles
Joni Palmer, Ph.D., University of New Mexico
Cody Wiley, M.S., University of New Mexico
Su Zhang, Ph.D., University of New Mexico

Emeriti Faculty:

Elinore M. Barrett, Ph.D., University of California Berkeley
Olen Paul Matthews, Ph.D., University of Washington;
J.D., University of Idaho
Stanley A. Morain, Ph.D., University of Kansas
Jerry Williams, Ph.D., University of Oregon

Affiliated Faculty:

Craig Allen, Ph.D., University of California, Berkeley; (US Geological Survey)

Karl Benedict, Ph.D., University of New Mexico; (UNM University Libraries and Learning Studies)
David Correia, Ph.D., University of Kentucky; (UNM American Studies)
Fred Gibbs, Ph.D., University of Wisconsin-Madison; (UNM History)
Laura Harjo, Ph.D., University of Southern California; (UNM School of Architecture and Planning)
Anne Jakle, M.S., Massey University, New Zealand; (UNM Office of the Vice President for Research: EPSCoR)
Kathleen Kambric, M.Arch., M.L.A., University of Virginia (UNM School of Architecture and Planning)
Elizabeth Keller, Ph.D., Oxford University, England; (Sandia National Laboratories)
Frank Norris, Ph.D., University of Idaho; (National Park Service)
Will Pockman, Ph.D., University of Utah; (UNM Biology)
Caroline Scruggs, Ph.D., Stanford University; (UNM School of Architecture and Planning)
Steve Sesnie, Ph.D., University of Idaho; (US Fish and Wildlife Services)
Melanie A. Stansbury, Ph.D., Cornell University (Utton Center, UNM School of Law)
Mark Stone, Ph.D., Washington State University; (UNM Civil, Construction, and Environmental Engineering)
Jennifer Tucker, Ph.D., University of California Berkeley (UNM School of Architecture and Planning)
Marygold Walsh-Dilley, Ph.D., Cornell University; (UNM Honors College)

NEW YORK

COLGATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DEGREES OFFERED: B.A.

CHAIR: Daniel Bertrand Monk

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tracy Piatti

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Daniel Monk, Department of Geography, Colgate University, 13 Oak Drive, Hamilton, NY 13346. Telephone (315) 228-7534. E-mail dmonk@colgate.edu

PROGRAMS AND RESEARCH FACILITIES: The discipline of geography bridges perspectives in the social and natural sciences. In addition to deepening knowledge of biophysical and social change processes in their own right, diverse methodological approaches uncover the relationships between humans and natural and social environments. Students are exposed to the full spectrum of disciplinary subfields, methods, and geographical techniques. They use integrative explanatory frameworks to grapple with critical areas of inquiry: the geopolitics of conflict, climate science, bio-geographies of endangered species, public health, urban planning, international development, environmental and social justice, and natural resource management among them. In exploring these themes, geography students move beyond passive knowledge consumption and towards the production of knowledge themselves, applying their skills and perspectives through collaborative work with faculty, fellow students, and members of the wider community.

The department offers two majors, one in Geography and the second in Environmental Geography. The Environmental Geography major is jointly administered by the Geography Department and Colgate's Environmental Studies Program and requires students to take a core

set of environmental studies courses in addition to Geography courses focused on environmental processes and impacts.

FACULTY:

Teo Ballvé, B.A., Colorado College, M.A., The New School University, Ph.D., University of California Berkeley, Assistant Professor of Geography and Peace & Conflict Studies

Adam W. Burnett, B.S., Aquinas College, M.A., Ohio University, Ph.D., Michigan State University

William R. Kenan Jr. Professor of Geography, Director of the Division of Social Sciences

Jessica K. Graybill, B.S., B.A., University of Arizona, M.S., Yale University, Ph.D., University of Washington, Seattle, Associate Professor of Geography and Russian & Eurasian Studies, Director of the Russian & Eurasian Studies Program

Maureen Hays-Mitchell, B.A., Middlebury College, M.A., Columbia University, Ph.D., Syracuse University, Professor of Geography

William R. Kenan Jr. Professor of Geography and Environmental Studies

Peter J. Klepeis, B.A., Colgate University, M.A., Ph.D., Clark University, Professor of Geography

Ellen Percy Kraly, B.A., Bucknell University, M.S., Johns Hopkins University, Ph.D., Fordham University

Michael M. Loranty, B.S., West Virginia Wesleyan College, Ph.D., SUNY Buffalo, Assistant Professor of Geography

William B. Meyer, B.A., Williams College, Ph.D., Clark University, Associate Professor of Geography

Daniel B. Monk, B.A., M.A., Columbia University, Ph.D., Princeton University, George R. and Myra T. Cooley Professor of Peace and Conflict Studies and Professor of Geography; Chair Department of Geography

Peter R. Scull, B.A., University of New Hampshire, M.A., Michigan State University, Ph.D., San Diego State University, Professor of Geography

Daisaku Yamamoto, B.A., University of Colorado, Boulder, M.A., Simon Fraser University, Ph.D., University of Minnesota, Associate Professor of Geography and Asian Studies, Director of the Asian Studies Program

GRADUATE CENTER OF THE CITY UNIVERSITY OF NEW YORK

GEOGRAPHY PROGRAM IN EARTH AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 2003

GRADUATE PROGRAM FOUNDED: 2003

DEGREES OFFERED: Ph.D.

GRANTED 2017-2018: 8 Ph.D.

STUDENTS IN RESIDENCE: 54 Ph.D.

EXECUTIVE OFFICER (CHAIR): Monica Varsanyi

PROGRAM ADMINISTRATOR: Judy Li

FOR FURTHER INFORMATION CONTACT: The Executive Officer, Earth and Environmental Sciences Program, The Graduate Center, City University of New York, 365 Fifth Avenue, New York, NY. 10016; Telephone 212-817-8240. Students interested in the program should consult the website: <http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Earth-and-Environmental-Sciences>

PROGRAMS AND RESEARCH FACILITIES: The Geography Program at the Graduate Center of the City University of New York is a specialization within the Doctoral Program in Earth and Environmental Sciences, which was founded in 1985. The program

provides an opportunity to pursue doctoral studies in geography in one of the world's largest and most dynamic metropolitan locations with a diverse interdisciplinary faculty based either full-time at the Graduate Center or holding joint appointments with the undergraduate and master's programs offered throughout the CUNY system, including Baruch, Brooklyn, City, Hunter, John Jay, Lehman, and Queens Colleges, the College of Staten Island, and the CUNY School of Labor and Urban Studies. Geography faculty and students participate in a variety of interdisciplinary fields of study including American Studies, Women's and Gender Studies, Urban Studies, Urban Design and Planning, Environmental Psychology, and Public Health. Students are permitted to combine courses from the Geography Specialization with those in the Geosciences more generally. They are also encouraged to take courses in related disciplines – particularly those such as Anthropology, Environmental Psychology, Sociology, and Urban Studies – which house faculty affiliated with Geography at the Graduate Center. Our faculty and students are closely connected to various centers and institutes at the Graduate Center, including the Center for Place, Culture, Politics; the Center for Human Environments; the Center for the Humanities; the Academic Research Collaborative; the Institute for Research on the African Diaspora in the Americas and Caribbean; the Center for Research on Women and Society; and the Committee on Globalization and Social Change; as well as CUNY-wide initiatives such as the Science and Resilience Institute at Jamaica Bay, and the CUNY Institute for Sustainable Cities, among others.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system.

Admission requirements: Interests in the field coincident with those of the Program faculty. Application requires transcripts, two letters of recommendation, personal statement detailing research interests, GRE results, and a writing sample. Potential applicants are welcome to contact Executive Officer, Professor Monica Varsanyi (212-237-8232 or mvarsanyi@gc.cuny.edu). Application deadline: December 15th.

Financial Aid: All admitted students will receive financial aid ranging from 5-year Tuition Awards to 5-year Graduate Center Fellowships, which provide students with tuition and \$26,128 each year for five years of study. The fellowship consists of a \$24,128 stipend in the Fall and Spring semesters, a \$2,000 summer research stipend, a graduate assistantship, a tuition award, and eligibility for low-cost individual or family NYSHIP health insurance. A variety of teaching and research fellowships are also available. Additional support is available through a number of competitive grants and fellowships for travel, research, and dissertation support. For more information please see: <http://www.gc.cuny.edu/Prospective-Current-Students/Current-Students/Financial-Assistance/Fellowships-and-Grants#sthash.mT7IIPqx.dpuf>.

FACULTY:

Terence Agbeyegbe, Professor; Ph.D., University of Essex, UK — energy and environmental economics; Hunter College, 212 772 5405; tagbeyeg@hunter.cuny.edu

Sean C. Ahearn, Professor; Ph.D., University of Wisconsin, Madison — remote sensing, environmental assessment; Hunter College, 212 772 5327; sahearn@hunter.cuny.edu

Jochen Albrecht, Professor; Ph.D., University of Vechta, Germany — Geographic Information Science; Hunter College, 212 772 5221; jochen@hunter.cuny.edu

Thomas Angotti, Emeritus Professor; Ph.D., Rutgers University — urban planning and community development, environmental justice; Hunter College, 212 650 3130, tangotti@hunter.cuny.edu

Kafui Attoh, Assistant Professor; Ph.D., Syracuse University — political economy of cities, politics of public space, urban transit and mass transit policy; Murphy Institute for Worker Education and Labor Studies, 212 642 2033, kafui.attoh@cuny.edu

- Stefan Becker, Professor, Dr. rer. nat., Justus-Liebig University - Giessen* — regional impacts of climate change, severe weather, and atmospheric pollution; Lehman College, 718 960 1120, Stefan.becker@lehman.cuny.edu
- James J. Biles, Associate Professor; Ph.D., Michigan State University* — development theories and policies, globalization and development, economic geography, Latin American Studies, work and labor; City College, 212 650 5969; jbiles@ccny.cuny.edu
- Rebecca Boger, Associate Professor; College of William and Mary VIMS* — GIS, water resources, science education; Brooklyn College, 718 951 5000 x 2159; rboger@brooklyn.cuny.edu
- Jean Carmalt, Assistant Professor, Ph.D., University of Washington & J.D. Cornell University School of Law* — law and geography, international law, economic and social rights, political ecology of disasters; John Jay College, 212 237 8195; jcarmalt@jjay.cuny.edu
- Allan Frei, Professor; Ph.D., Rutgers University* — climatology and global climate change; Hunter College, 212 772 5322; afrei@hunter.cuny.edu
- Vinay Gidwani, Adjunct Professor; Ph.D., University of California, Berkeley* — post-socialism and justice, labor geographies, Marxism, identity politics and subaltern social movements, geographies of work, agroecological transformations, social theory, India; Department of Geography, University of Minnesota, 612 625 1397; vgidwani@geog.umn.edu
- Ruth Wilson Gilmore, Professor; Ph.D., Rutgers University* — race and gender, labor and social movements, prison, uneven development, politics and culture, California, the U.S., the African Diaspora; Graduate Center, 212 817 8251; rgilmore@gc.cuny.edu
- Hongmian Gong, Professor; Ph.D., University of Georgia* — urban geography, Geographic Information Systems; Hunter College, 212 772 4658; gong@hunter.cuny.edu
- Yuri Gorokhovich, Associate Professor; Ph.D. City University of New York Graduate Center* — geology, natural hazards and disasters, spatial modeling with GIS, geoarchaeology; Lehman College, 718 960 1981; yuri.gorokhovich@lehman.cuny.edu
- Kenneth Gould, Professor; Ph.D., Northwestern University* — environmental sociology, ecotourism and development, ecodisasters; Brooklyn College, 718 951 5000 x1765; kgould@brooklyn.cuny.edu
- Jean Grassman, Associate Professor; Ph.D., University of California, Berkeley* — occupational and environmental health; Brooklyn College, 718 951 5000 x2752; grassman@brooklyn.cuny.edu
- Marta Gutman, Professor; Ph.D., University of California, Berkeley* — architectural and historical history; Spitzer School of Architecture, City College, 212 650 8749; mgutman@ccny.cuny.edu
- Roger A. Hart, Professor; Ph.D., Clark University* — Children's environments, child friendly cities, participatory action research; Graduate Center, 212 817 1887; rhart@gc.cuny.edu
- David Harvey, Distinguished Professor; Ph.D., St. Johns College, Cambridge, England* — geography and social theory, urban political economy and urbanization; Graduate Center, 212 817 7211; dharvey@gc.cuny.edu
- Mohamed Ibrahim, Associate Professor; Ph.D., University of Alberta, Canada* — drought management and North African ecosystems; Hunter College, 212 772 5267; mibrahim@hunter.cuny.edu
- Peter Kabachnik, Associate Professor; Ph.D., UCLA* — geographies of displacement, conceptualizations of place, space and mobility, racialization, social exclusion of Gypsies and Travelers, critical geopolitics, Abkhazian identity construction; College of Staten Island, 718 982 2916; Peter.Kabachnik@csi.cuny.edu
- Cary Karacas, Associate Professor; Ph.D., University of California, Berkeley* — cultural geography, East Asian urbanization, modern Japan, memory, catastrophic loss and landscape; College of Staten Island, 718 982 2890, Cary.Karacas@csi.cuny.edu
- Cindi Katz, Executive Officer and Professor; Ph.D. Clark University* — production and reproduction of space, place and nature, critical social theory, qualitative methodology and the politics of research, social reproduction and everyday life, children and the environment, political ecology; Graduate Center, 212 817 8728; ckatz@gc.cuny.edu
- Carsten Kessler, Adjunct Assistant Professor; Ph.D., University of Munster, Germany* — link data and semantic web, volunteered geographic information, emergency management, geospatial semantics; Aalborg University Copenhagen, Kessler@plan.aau.dk
- Yehuda L. Klein, Professor; Ph.D., University of California, Berkeley* — environmental economics and policy, environmental justice, urban sustainability; Brooklyn College, 718 951 5153; yklein@gc.cuny.edu
- Tammy L. Lewis, Professor; Ph.D., University of California, Davis* — sustainability, transnational social movements, globalization, service learning; Brooklyn College, 718 951 5000 x 1786, tlewis@brooklyn.cuny.edu
- Setha M. Low, Professor; Ph.D., University of California, Berkeley* — anthropology of space and place, cultural aspects of design, housing and community development, gated communities and 'landscapes of fear', ecology and nature, urban anthropology, qualitative methods, historic/cultural preservation; CUNY Graduate Center, 212 817 8725, slow@gc.cuny.edu
- Juliana Maantay, Professor; Ph.D., Rutgers University* — environmental geography, Geographic Information Science, environmental health justice; Lehman College, 718 960 8574, juliana.maantay@lehman.cuny.edu
- Elia Machado, Assistant Professor; Ph.D., Clark University* — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing; Lehman College, 718 960 1130, elia.machado@lehman.cuny.edu
- Peter J. Marcotullio, Professor; Ph.D., Columbia University* — urbanization and global change, urban environmental planning, urban Asia Pacific, urban transitions; Hunter College, 212 772 5264, peter.marcotullio@hunter.cuny.edu
- Andrew Maroko, Assistant Professor; Ph.D., CUNY Graduate Center* — GIS and geo-spatial statistics with applications to environmental health and environmental justice, integration of GIS, remote sensing, spatial analysis and modeling, impacts of exposure, built- and social-environments on public health; Lehman College, 718 960 7452, Andrew.Maroko@lehman.cuny.edu
- Michael Menser, Assistant Professor, Ph.D., CUNY Graduate Center* — environmental philosophy, democratic theory, global ethics, social philosophy, participatory democracy and ecological sustainability/resilience; Brooklyn College, 718 951 5570, mmenser@brooklyn.cuny.edu
- Ines A. Miyares, Professor; Ph.D., Arizona State University* — population, social geography; Hunter College, 212 772 5265/5443; imiyares@hunter.cuny.edu
- Wenge Ni-Meister, Professor; Ph.D., Boston University* — remote sensing, biogeography; Hunter College, 212 772 5321; Wenge.Ni-Meister@hunter.cuny.edu
- Rupal Oza, Associate Professor; Ph.D., Rutgers University* — feminist geographical theory, globalization and gender, gender and nationalism, globalization and labor migration, religious nationalism, regional specialization; South Asia and United States; Hunter College, 212 650 3035; rupal.oza@hunter.cuny.edu
- Marianna E. Pavlovskaya, Professor; Ph.D., Clark University* — urban, gender, Russia; Hunter College, 212 772 5320; mpavlov@hunter.cuny.edu
- Jonathan R. Peters, Professor; Ph.D., CUNY Graduate Center* — regional planning, road and mass transit financing, corporate and public sector performance metrics, capital costs and performance management; College of Staten Island, 718 982 2958; jonathan.peters@csi.cuny.edu

Deborah Popper, Emeritus Professor; Ph.D., Rutgers University — rural studies, regional geography of the American West, The Buffalo Commons; College of Staten Island, 718 982 2907, popper@mail.csi.cuny.edu

Patricia L. Price, Professor and Associate Provost; Ph.D. University of Washington — critical geographies of race, ethnicity, and immigration, urban geography, cultural geography, exile landscapes, borderlands, place and affect, narrative geographies; Baruch College, 646 660 6514, patricia.price@baruch.cuny.edu

Laxmi Ramasubramanian, Associate Professor; Ph.D. University of Wisconsin, Milwaukee — urban planning, participatory GIS, built environmental-human behavior interactions; Hunter College, 212 772-5594; laxmi@hunter.cuny.edu

Susan Saegert, Professor; Ph.D., University of Michigan — housing, community development, gender and environment, social capital; Graduate Center, 212 817 1886, ssaegert@gc.cuny.edu

John E. Seley, Professor; Ph.D., University of Pennsylvania — GIS, urban planning, public policy; Queens College, 718 997 5141; johnseley@gmail.com

William D. Solecki, Professor; Ph.D., Rutgers University — environmental hazards, land use, urban sustainability; Hunter College, 212 772 5268; wsolecki@hunter.cuny.edu

Filip Stabrowski, Assistant Professor; Ph.D., University of California, Berkeley — housing, property, gentrification, digital geography, New York City; Laguardia Community College, 718 349 4002; fstabrowski@lagcc.cuny.edu

Shipeng Sun, Assistant Professor; Ph.D., University of Minnesota — GIScience, geovisualization, urban and coupled human environment systems; Hunter College, 212 396 6039, shipeng.sun@hunter.cuny.edu

Monica W. Varsanyi, Professor, Ph.D., University of California, Los Angeles — migration and immigration studies, political geography and urban geography; John Jay College, 212 237 8232; mvarsanyi@gc.cuny.edu

Sharon Zukin, Professor; Ph.D., Columbia University — consumer society and consumer culture, urban change and gentrification, arts and economic development, ethnic diversity; Brooklyn College, 718 951 4639; zukin@brooklyn.cuny.edu

HOFSTRA UNIVERSITY

DEPARTMENT OF GLOBAL STUDIES AND GEOGRAPHY

DATE FOUNDED: 1935 (Geography), 2008 (Global Studies)

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/18-8/31/19: 31 Bachelors

MAJORS: 98

CHAIR: Dr. Grant Saff

DEPARTMENT ADMINISTRATIVE ASST: Jackie Geis

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Grant Saff, Chairperson, Department of Global Studies and Geography, 130 Hofstra University, Hempstead, New York 11549-1300. Telephone (516) 463-5826. Fax (516) 463-6968. Internet: gsgeog@Hofstra.edu. Web: <http://www.hofstra.edu/geography>.

PROGRAMS AND RESEARCH FACILITIES: The department is situated within the Peter S. Kalikow School of Government, Public Policy and International Affairs which is part of Hofstra's College of Liberal Arts and Sciences. and The department offers three undergraduate major programs: Geography, Geographic Information Systems, and Global Studies. Geography majors pursuing the BA, need to declare a specialty in general geography or in GIS. We also offer a BS in GIS which is primarily intended for students that would like to combine GIS with a second major or minor in the natural sciences. The BS major, requires courses advanced courses in GIS remote sensing,

statistics, computer science, and math. Students can also pursue a joint minor in Computer Science and GIS or minors in Global Studies and/or Geography. The department offers a wide selection of geography courses, balancing offerings in thematic and regional geography. Particular strengths are GIS, cultural, economic, urban, transportation and South Asia. Many BA students in the department choose to double major in Geography and Global Studies. The department encourages internships and participation in study abroad programs. We offer a popular semester length study abroad program in Europe, "the European Odyssey" that allows majors or minors to receive up to 15 sh of Global Studies and Geography credits while visiting ten or more European countries. The department annually awards the Inaba Memorial Scholarship, of approximately \$8,000, to a declared major in their junior or senior year. Selection considers both academic merit and financial need. This scholarship is in addition to other awards or financial aid that the student receives. The Department has an active chapter of GTU and a thriving student club, "Get Global." A fuller description of our activities, offerings and student outcomes can be found on our department webpage: <http://www.hofstra.edu/geography>.

We provide extensive Geographic Information Systems facilities and ArcView software is available for use by students and faculty on the Hofstra network and in our Department lab. The University Computing Center provides computing services to all students and faculty and the entire campus is Wi-Fi accessible.

Hofstra University, located in Hempstead (Long Island), 25 miles east of Manhattan, is very well placed to take advantage of the wealth of research and educational opportunities provided by the New York metropolitan area. Abundant internship opportunities for majors and minors are available in the New York metropolitan area. The Department is located in Roosevelt Hall near the center of the 240-acre campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. Requirements for admission are stated in the Hofstra Catalog. We offer a BA in Geography, BA in Geography with a specialization in GIS, BS, GIS, and a BA in Global Studies. A B.A. in Geography entails a minimum of 30 semester hours in geography courses or related courses. 12 of the s.h. in geography courses must come from 100-level courses. Required courses: GEOG 1 (World Regional Geography), GEOG 2 (Human Geography), GEOG 60 (Introduction to GIS) and GEOG 191 (Seminar in Geographic Methodology). We allow up to 9 sh of selected global studies, geology, sustainability and urban ecology courses to count toward the 30 s.h. required for the major in geography. The BS major requires 30 s.h. of courses, including 12 s.h. of required GIS classes, 6 s.h. of applications or methodology classes, 6 s.h. of selected courses in math or statistics, 3 s.h. of selected courses in natural science credits and a minimum of 3 s.h. of electives in computer science, geography, geology, information technology or engineering. A minor in Geography consists of the successful completion of 18 semester hours of geography classes.

The B.A. Specialization in Global Studies requires a minimum of 33 semester hours in Global Studies. The detailed requirements and courses are listed on our website. All of our programs offer ample opportunities for internships, directed studies and participation in Hofstra's extensive study abroad programs. Our Department also offers a Pre-Med B.A. in both Geography and Global Studies.

It is the goal of Hofstra University – a selective midsized, private, coed institution – to enroll a freshman and transfer class of students from diverse backgrounds and locations, with varied interests and talents. The average financial aid package for incoming freshmen is \$31,032. Approximately 95.0% of incoming students receive some form of financial assistance, the majority of which is in the form of scholarships and grants. Admissions requirements, the university

catalog, financial aid and program information can be obtained by calling (516) 463-6600 or visiting www.hofstra.edu.

FULL-TIME GLOBAL STUDIES AND GEOGRAPHY FACULTY:

Craig Dalton, Ph.D., University of North Carolina, Chapel Hill, 2012, Assistant Professor — GIS, maps and social movements, cultural geography

Zilkia Janer, Ph.D., Duke, 1998, Professor, Global Studies Program — culture, food culture, Latin America

Kari B. Jensen, Ph.D., Pennsylvania State University, 2007, Associate Professor — South Asia, political geography, cultural geography

Linda Longmire, Ph.D., CUNY, 1988, Professor, Global Studies Program — human rights, child labor, Europe

Jean-Paul Rodrigue, Ph.D., University of Montreal, 1994, Professor — logistics and transport geography, GIS, East and Southeast Asia

Grant Saff, Ph.D., Rutgers University, 1996, Professor — urban geography, economic geography, urban planning, geographic education, globalization, Southern Africa

PART-TIME GEOGRAPHY FACULTY:

Ramiro Campos, MA, Hunter College, 2006, Adjunct Instructor — Latin America, regional geography

Nisha Korattyswaroopam, Ph.D., Rutgers University, 2010, Adjunct Assistant Professor — transport geography, urban geography, South Asia

Veronica Lippencott, Ph.D., Univ Illinois Urbana-Champaign, 2003, Adjunct Associate Professor — Africa, health, economic geography

Ying Qui, Ph.D., Birmingham (UK), 2004, Adjunct Assistant Professor — South Asia, economic geography, environment

HUNTER COLLEGE - CITY UNIVERSITY OF NEW YORK (CUNY)

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCE

DATE FOUNDED: 1921

GRADUATE PROGRAM FOUNDED: 1985

DEGREES OFFERED: BA Geography; BA Environmental Studies; MA Geography; MS GeoInformatics; BA/MA-TEP Environmental Studies-Earth Science Education; MA-TEP Earth Science Education

CERTIFICATE OFFERED: Geographic Information Science (post-Baccalaureate)

GRANTED 9/1/17-8/31/18: 41 Bachelors; 10 Masters of Arts; 1 Master of Science; 17 Certificates

STUDENTS IN RESIDENCE: 203 Majors; 40 Masters of Arts; 12 Masters of Science; 34 Certificates

CHAIR: Marianna Pavlovskaya

FOR FURTHER INFORMATION WRITE TO: Department of Geography and Environmental Science, Hunter College-CUNY, 695 Park Avenue, HN 1006, New York, NY 10065. Telephone (212) 772-5265. Fax (212) 772-5268. E-mail: geog@hunter.cuny.edu. Internet: www.geo.hunter.cuny.edu. A copy of the current graduate catalog can be found at <http://registrar.hunter.cuny.edu/subpages/college-catalog.shtml>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Environmental Science at Hunter College within the City University of New York (CUNY) is the largest and one of the most technologically advanced programs in the New York City

metropolitan region. Undergraduate and graduate students can pursue studies in urban geography; population/immigration/ethnicity; geographic information science and geoinformatics; sustainability; earth systems science; environmental policy; and geographic and environmental education. Through integration of content knowledge, applied skills, and internships, our graduates find employment in both the public, private, and non-profit sectors. Please visit our website to read students' stories and testimonials.

At the undergraduate level, students may major in geography with concentrations in cities and globalization, digital mapping and geographic information science, and sustainability; or environmental studies with tracks in earth system science and human dimensions of earth systems. They can also select options within the geography major that prepare them for temporary certification in New York State to teach social studies at grades K-12. The interdisciplinary major in environmental studies allows students to focus on environmental policy and management or earth system science. Students may also complete a five-year combined BA/MA program in Environmental Studies and Adolescent Education-Earth Science. This accelerated program is designed for highly qualified environmental studies majors who, by their sophomore year, decide to pursue a career in teaching earth science. In addition to comprehensive programs in residence, the department offers field courses in geography and environmental science.

The MA program in geography emphasizes geographic and social theory, analytical methodologies in human, physical, and environmental geography, ecology, and geographic information science. A limited number of research, teaching, and college assistantships are available. The MA degree can be completed through either a thesis or a non-thesis option. Full-time students may be able to complete the MA within three semesters, but the average time for degree completion is three years. Many courses are offered in the evening to accommodate part-time and working students. In cooperation with the School of Education, we also offer an M.A. Program for the Preparation of Teachers of Earth Science. Upon completion of the program the student is certified to teach earth science (grades 7-12) in NY State.

The MS in GeoInformatics is a science and technology-based degree program that provides training for research and professional careers in local and national governments, international agencies, non-government organizations, corporations, consulting firms, and information technology companies as well as in academia. The unique focus on GeoInformatics combines Geographic Information Science (GIScience) with Computational Science and Data Science. The program provides world-class education for the next generation of leaders and thinkers in geospatial technologies. Training in computational aspects of GIS includes programming and modeling, remote sensing, geovisualization, databases, spatial ontologies, spatial statistics, big data, complexity as well as applied research topics such as human and animal mobility, transportation, crime and health, environmental modeling, urban environments, biogeography, disaster management, and community-based GIS. The MS degree can be completed through either the thesis or internship option.

A 15-credit post-baccalaureate Certificate Program in Geographic Information Science was established in 2001 to meet the demand for technical expertise in GIS. While the GIS certificate program is independent from the MA in Geography and the MS in GeoInformatics, graduate students in Geography and GeoInformatics may complete the GIS certificate concurrently, with specific course credits used to satisfy the requirements of all three programs.

The department participates in the Earth and Environmental Sciences Ph.D. program at the CUNY Graduate Center that offers specializations in (1) Geography and (2) Environmental and Geological Sciences. Inquiries about the PhD program should be made to the Executive Officer at (212) 817-8240.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Students interested in any of the Geography and Environmental Science degree programs at Hunter should check the department's website at www.geo.hunter.cuny.edu. Those wishing information regarding financial aid should review <http://www.hunter.cuny.edu/onestop/finances/financial->

Program catalogs can be viewed online at <http://registrar.hunter.cuny.edu/subpages/collegecatalog.shtml>.

Application deadlines for graduate programs are April 1 and November 1 annually. To be considered for financial aid, completed applications must be received before February 28. Web site: www.hunter.cuny.edu/finaid/graduate.html.

FACULTY:

Sean C. Ahearn, Ph.D., Wisconsin, 1986, Professor and Director, CARS Laboratory — GIS, remote sensing, digital image processing, natural resources, habitat studies

Jochen Albrecht, Ph.D., Vechta (Germany), 1995, Professor, GIS Certificate Adviser — geographic information science, GIS applications, change modeling, simulation, quantitative methods, Europe

Frank S. Buonaiuto, Jr., Ph.D., 2003, SUNY-Stony Brook, Associate Professor and Environmental Studies Adviser — oceanography, coastal processes, numerical modeling of waves, tides and sediment transport

Allan Frei, Ph.D., Rutgers, 1997, Professor and Chair, Deputy Director, CUNY Institute for Sustainable Cities, Graduate Adviser — climate change, snow and water resources, modeling

Hongmian Gong, Ph.D., Georgia, 1997, Professor — urban, GIS applications, and transportation

Mohamed Ibrahim, Ph.D., Alberta, 1985, Associate Professor — environmental studies, resource management, sustainable development, Africa, rural water supply and sanitation, urbanization in the developing world

Peter J. Marcotullio, Ph.D., Columbia, 1996, Professor and Director, CUNY Institute for Sustainable Cities, Graduate Adviser — urbanism and environmental change, energy, Asia-Pacific region

Ines M. Miyares, Ph.D., Arizona State, 1994, Professor — population, immigration, ethnicity, Latin America, Hawai'i

Wenge Ni-Meister, Ph.D., Boston University, 1997, Professor — remote sensing, land-atmosphere interaction, meteorology and climatology, biogeography

Mariana Pavlovskaya, Ph.D., Clark, 1998, Professor — urban and feminist geography, social theory, post-Soviet space, critical GIS, GIS applications, urban political ecology

Andrew Reinmann, PhD, Boston University, 2014, Assistant Professor — ecological response to climate change, urbanization and fragmentation, terrestrial carbon cycling, dendroecology

Randy Rutberg, Ph.D., Columbia, 2000, Assistant Professor — paleoclimatology, oceanography, geochemistry, environmental science, environmental public policy

Haydee Salmun, Ph.D., Johns Hopkins, 1989, Associate Professor and Environmental Studies Adviser — oceanography, global climate, environmental fluid dynamics, atmosphere-oceans interface

William Solecki, Ph.D., Rutgers, 1990, Professor — urban environmental change and management, land use and land cover studies, hazards, GIS applications

Shipeng Sun, Ph.D. Minnesota, 2009, Assistant Professor — geovisualization, GIS algorithms, socio-spatial network analysis, land use change, urban and human-environment system modeling

AFFILIATED AND LONG-TERM ADJUNCT FACULTY:

Thomas Carboni, M.S. City College-CUNY, Adjunct Lecturer — geology, weather and climate

Anthony Grande, M.S.Ed., Catholic University of America, Adjunct Lecturer — general geography, geographic education, regional geography of NYS

Cindi Katz, Ph.D., Professor, Earth and Environmental Sciences Ph.D. Program, Environmental Psychology Ph.D. Program, CUNY Graduate Center

Faye Melas, Ph.D., CUNY, 1980, Adjunct Assistant Professor — carbonate sedimentology, geoscience education

Shrutti Philips, Ph.D., CUNY, 1999, Adjunct Assistant Professor — sedimentary geology, carbonate diagenesis, marine geology

Henry Sirotn, M.A. Hunter College-CUNY, 2006, Adjunct Lecturer — Eurasia, Europe, East Asia, intelligence studies, geopolitics

Thomas B. Walter, M.A. Miami University 1984, Adjunct Lecturer — weather and climate, soils and vegetation

Douglas A. Williamson, Ph.D., CUNY, 2003, Adjunct Associate Professor — GIS applications, spatial aspects of crime

For a complete list of current adjunct teaching faculty visit: www.geo.hunter.cuny.edu.

TECHNICAL AND SUPPORT STAFF:

Amy Jeu, M.G.I.S., Minnesota, College Laboratory Technician
Nguyen Ngoc Nguyen, B.S., CUNY, Windows Systems Administrator
TBA, Chief Administrative Officer and Assistant to Chair
Martha Taylee, Administrative Assistant

LEHMAN COLLEGE, CITY UNIVERSITY OF NEW YORK (CUNY)

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOSPATIAL SCIENCES (EEGS)

DATE FOUNDED: 1931 (originally called the Department of Geology and Geography at Lehman College, which was then "Hunter College in the Bronx")

DEGREES OFFERED: B.A. Geography; B.A. Earth Science; B.S. Environmental Science; M.S. Geographic Information Science (MS-GISc); Bachelor's/Master's Accelerated Degree Program in GISc

CERTIFICATES OFFERED: Certificate in GISc (undergraduate level); Advanced Certificate in GISc (graduate level); Certificate in Earth Science (for Educators)

DEGREES GRANTED 9/1/17 – 8/31/18: 5 B.A.; 11 B.S.; 12 MS-GISc; 2 Certificates

STUDENTS IN RESIDENCE: 93 undergraduate majors; 43 graduate students; 5 certificate students

CHAIR: Hari Pant (Chair); Juliana Maantay (Program Director for Geography/GISc Programs and Graduate Studies)

PROGRAM ADMINISTRATIVE ASSISTANT: Ms. Gail Markbreit

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Earth, Environmental, and Geospatial Sciences, Lehman College, CUNY, 250 Bedford Park Blvd. West, Bronx, NY 10468. Tel: 718 960-8660; Fax: 718 960-8584. E-mail: Juliana.maantay@lehman.cuny.edu Website: <http://www.lehman.edu/academics/eggs/> Current catalogues can be accessed at <http://lehman.smartcatalogiq.com/en/2017-2019/Undergraduate-Bulletin> (undergrad) and <http://lehman.smartcatalogiq.com/2017-2019/Graduate-Bulletin> (graduate).

PROGRAMS AND RESEARCH FACILITIES: The Earth, Environmental, and Geospatial Sciences (EEGS) Department offers three majors, three certificate programs, and one master's degree program, as well as several minors. There is also the opportunity for

students to enroll in an Accelerated Bachelor's/Master's degree. EEGS faculty have expertise and research interests in a wide variety of disciplines, including urban environmental geography; medical geography; demography; population health; geospatial analysis; natural hazards and risk assessment; water resources; Geographic Information Science (GISc); remote sensing; climate change; sustainability science; ecology and conservation, and there are research opportunities within and outside the department for students to work in these areas. We have a vibrant internship program for both undergraduates and graduate students, and our location in New York City affords many opportunities for internships as well as full-time positions upon graduation. The Lehman GISc Program is a partner in the CUNY CREST Institute and a founding member of NOAA-CREST (National Oceanic and Atmospheric Administration's Cooperative Remote Sensing Science and Technology). NOAA-CREST faculty and students at Lehman are involved in research projects pertaining to the NOAA sciences, and are active in publishing and presenting their work.

B.A. - Major in Geography, with a concentration in GISc (28 credits). The requirements for the Geography major are designed to maximize flexibility based on the student's interests. There are only four required courses (GEH 101 Introduction to Geography; GEP 204 Basic Mapping Science; GEP 470 Internship in Geography or GEH 490 Honors in Geography; and one regional geography course). The remaining 15 credits are to be taken in Geography electives, to be selected in consultation with the Geography advisor, according to the student's career goals. Students can also major in Geography to achieve New York State Certification to teach Social Studies, grades K-12.

B.S. - Interdisciplinary Major in Environmental Science (46 credits). The core of the interdisciplinary undergraduate program in Environmental Science is a sequence of basic and advanced science courses from four participating science departments. Students select a specialization area in Ecology, Urban Environmental Management, Environmental Geology, or Environmental Analysis. The Environmental Science Program offers courses to prepare students (1) for environmental science careers, and to become active proponents for their communities in the scientific and policy processes surrounding environmental issues; (2) to meet the environmental science employment demands of local, state, and federal governmental agencies, private consulting, and industry; and (3) to pursue advanced degrees in environmental/physical sciences. In addition, the Environmental Science major includes a concentration in Geospatial Analysis.

B.A. - Major in Earth Science (30-credits). This program is recommended for teacher education students, and consists of 22 credits in required courses, plus eight credits in Earth Science elective courses.

M.S. - Geographic Information Science (MS-GISc) (40 credits). The MS-GISc at Lehman College is the first program of its kind within the CUNY system and in the New York City region. The program has two tracks: the Professional Experience and Applied Research (PEAR) option, which seeks to prepare students for careers in GISc and the spatial sciences; and the Traditional Master's Degree option, which is appropriate for students intending to continue on to doctoral studies or assume positions in research institutes. Students may concentrate in one of three areas: Environmental and Health Spatial Sciences; Geospatial Technology; or Urban Sustainability. All concentrations have a strong commitment to community and civic service, emphasizing full engagement with solving real-world problems, while promoting ethical uses of GISc technologies. Our objective is to create a learning environment that is socially conscious, environmentally aware, and focused on equity while also developing and using the best, most innovative technical and methodological approaches. The curriculum of the MS-GISc program requires 40 credits of coursework, comprised of three key elements: 4 core

courses (14 credits); 5-6 electives (18 credits); and an 8-credit capstone research experience, with options for either a traditional Master's Thesis, or a combination of an applied research project and professional experience through an internship, (PEAR option, which satisfies the requirements for a Professional Science Masters – PSM - degree). Most classes are offered in the evenings or online to accommodate graduate students who have daytime commitments, and over 20 different GISc courses are offered on a regular basis. Please see http://www.lehman.cuny.edu/academics/eggs/MS_GISc.php for further information on the MS-GISc degree. The MS-GISc Program has an External Advisory Board with representation of GISc professionals from the GISc industry, private sector consulting firms, not-for-profit organizations, academic research institutes, and local, state, and federal governmental agencies. The Board provides insights and guidance to the curriculum, the internship experience, career opportunities, and research directions.

Professional Science Master's Program. The MS-GISc Program at Lehman has been recognized as a Professional Science Master's (PSM) by the National PSM Association (NPSMA). The NPSMA describes PSM programs as follows: "The Professional Science Master's (PSM) is an innovative, new graduate degree designed to allow students to pursue advanced training in science or mathematics, while simultaneously developing workplace skills highly valued by employers," (from <http://www.sciencemasters.com/>). Completion of the PEAR Option of the MS-GISc fulfills the requirements for the PSM and students are awarded the PSM Certificate from the NPSMA upon completion of their MS-GISc degree.

Bachelor's/Master's Accelerated Degree Program: Students pursuing the B.S. in Environmental Science or a B.A. in Earth Science or Geography, who have completed at least one GISc course at the undergraduate level and received a B+ or better, with an overall GPA of 3.0, may be able to satisfy up to 12 open elective credits of their B.S./B.A. degree taking graduate-level coursework in the MS-GISc program. Students who choose to continue on in the Master's degree program upon graduation will be able to transfer the 12 credits of graduate coursework taken while an undergraduate into the M.S. program. This allows the student to potentially complete both the Bachelor's and the Master's degrees within five years of full-time study. By completing the Bachelor's requirements during the first four years, students are assured of the Bachelor's degree if, for any reason, they do not complete the fifth year for the Master's.

Certificate in Geographic Information Science (17 credits). The certificate is available at the undergraduate level, and consists of a 17-credit sequence of courses. The courses are credit-bearing, and students must be admitted to Lehman College as matriculated in either a degree program or in the GISc Certificate program in order to be awarded the Certificate. Courses are usually offered in the evenings, and some electives are offered on-line. Required courses for the undergraduate GISc Certificate are GEP 204, GEP 205, GEP 350, GEH 490, and one three or four credit GISc elective.

Advanced Certificate in GISc (17-20 credits). The Advanced Certificate is available at the graduate level, and consists of a minimum of 17 credits. The courses are credit-bearing, and students must be admitted to Lehman College as matriculated in either a graduate degree program or in the GISc Certificate program in order to be awarded the Advanced Certificate. Required courses for the Advanced GISc Certificate are GEP 605, GEP 690, and three GISc elective courses (3-4 credits each). If students have no prior GISc coursework or experience, it is recommended to begin with GEP 505 (which is a pre-requisite for GEP 605). The Advanced Certificate in GISc is also available as an enroute diploma to CUNY Ph.D. students who complete the requirements for the certificate at Lehman.

Certificate in Earth Science (30 credits) is structured to provide a strong foundation in Earth Science content. The program is intended for certified teachers of other science areas who plan to obtain a

second certification in Earth Science as well as holders B.A. or B.S. degrees who seek a foundation in Earth science before applying to a Masters of Education program.

The GISc laboratory facilities at Lehman College include a state-of-the-art teaching lab with 25 workstations, a 20-station mobile GISc lab for ancillary classroom use, and a separate research lab (the Urban GISc Lab), along with a full-time College Laboratory Technician to aid in maintenance of the facilities and to provide technical assistance to faculty and students. All computers are equipped with a wide variety of GISc, remote sensing, modeling, geostatistical, cartographic, and graphic design software, and the GISc Lab server maintains an extensive and up to date collection of data bases. Printing capability includes color laser printers as well as a large-format plotter and scanner. There are also fully-equipped Earth Science and Environmental Science laboratories.

Ph.D. Program: The department participates in the Earth and Environmental Sciences Ph.D. program at the CUNY Graduate Center, offering specializations in Geography and Environmental and Geological Sciences. For further information about the PhD program in EES, contact Dr. Monica Varsanyi, EES Executive Officer, at (212) 817-8241 or email: mvarsanyi@gc.cuny.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major programs in the EES Dept. is the same as that for admission to the City University of New York. Application info is available at <http://www2.cuny.edu/admissions/undergraduate/apply/>.

Undergraduate majors are eligible to earn credit through internal and external internship programs. Exceptional undergraduate students are encouraged to apply for the Accelerated Bachelor's/Master's program which allows both degrees to be earned in a total of five years of full-time study. Information about financial aid programs is available at <http://www.lehman.cuny.edu/financial-aid/>.

Applications to the MS-GISC Program and Advanced Certificate in GISc are submitted through the "Apply Yourself" online process, which can be accessed at <https://app.apply-yourself.com/?id=lehmangrad>. In order to be admitted to the GISc graduate programs, applicants are required to have earned a Bachelor's degree with minimum 3.0 GPA, and provide official transcripts of all post-secondary school coursework, at least 2 letters of recommendation, a CV, and a short essay describing their interest in GISc and the MS-GISC Program at Lehman. GREs are not required. The deadline for Fall term admissions is April 15th of the prior Spring term. The deadline for Spring term admissions is October 1st of the prior Fall term. Questions about the admissions process should be directed towards the Graduate Admissions Office, at 718 960-8777 or email: graduate.admissions@lehman.cuny.edu.

FACULTY: The EES faculty (listed below) consists of full-time professors, most of whom, in addition to having advanced degrees in the field and academic experience in teaching, have also held positions in various governmental agencies, not-for-profit organizations, and private sector consulting firms, outside of academia. The GISc program faculty also includes several affiliated professors from allied CUNY programs, and long-term adjunct instructors who are drawn from the professional world of GISc practice, lending an additional "real-world" experiential aspect to the program.

Stefan Becker, Professor; Dr. rer. Nat., Justus-Liebig University Giessen — climatology, severe weather, environmental pollution, environmental modeling

Yuri Gorokhovich, Associate Professor; Ph.D., CUNY Graduate Center — geology, natural hazards and disasters, spatial modeling with GIS, geoarchaeology

Irene Leung, Professor; Ph.D., University of California at Berkeley — mineralogy, petrology, diamonds, meteorites & planetary science

Juliana Maantay, Professor; Ph.D., Rutgers University — urban environmental analysis, medical geography, Geographic Information Science, environmental justice, sustainable community-based development, participatory geographic information systems, exposure and vulnerability assessment

Elia Machado, Associate Professor; Ph.D., Clark University — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing

Hari Pant, Associate Professor; Ph.D., Dalhousie University — biogeochemical cycles, sediment/water quality, ecological indicators, global change

Gautam Sen, Professor; Ph.D., University of Texas at Dallas — petrology, earth materials

Heather Sloan, Associate Professor; Ph.D., University of Paris — marine geophysics, seafloor morphology, plate kinematics, Earth science education

AFFILIATED FACULTY AND LONG-TERM ADJUNCTS:

Anastasia Clark, Adjunct Lecturer; Crime Analyst, NYC Police Dept.; MS-GISC, Lehman College, CUNY — spatial data analysis, criminal justice GIS

Frank Donelly, Adjunct Associate Professor; Geospatial Data Librarian, Baruch College; M.L.I.S. Library and Information Science, University of Washington; M.A. Geography, University of Toronto — open source GIS, US Census data, data librarianship, the geography of public libraries

Andrew Maroko, Adjunct Associate Professor; Associate Professor, CUNY School of Public Health; Ph.D., CUNY Graduate Center — GIS and geo-spatial statistics with applications to environmental health and environmental justice, integration of GIS, remote sensing, spatial analysis and modeling, impacts of exposure, built- and social-environments on public health

George Musa, Adjunct Assistant Professor; Assistant Professor of Clinical Epidemiology, Mailman School of Public Health, Columbia University; Ph.D., CUNY Graduate Center — quantitative methods, geostatistics, epidemiology, medical geography

Holly Porter-Morgan, Adjunct Associate Professor; Associate Professor of Biology; Ph.D., CUNY Graduate Center — biogeography, ecology, spatial analysis, conservation, GIS, biogeographic and computational models

Angelika Winner, Adjunct Lecturer; Ph.D. Candidate, CUNY Graduate Center — sustainable agriculture and alternative food movements, international political economy of food, politics of obesity, environmental health, political ecology, race and food, critical human geography, and participatory GIS

Amelia Zaino, Adjunct Lecturer, MS-GISC, Lehman College, CUNY — environmental education, environmental stewardship, historical ecology, urban planning

EMERITUS FACULTY:

William Bosworth, Ph.D., Princeton University — demographic analysis, urban social issues

Frederick Shaw, Ph.D., Harvard University — oceanography, marine paleontology, stratigraphy

MONROE COMMUNITY COLLEGE (STATE UNIVERSITY OF NEW YORK)

DEPARTMENT OF CHEMISTRY AND GEOSCIENCES

DATE FOUNDED: circa 2017

DEGREES AND CERTIFICATES OFFERED: GIS

Certificate, Associate Degree in Geography with concentrations in Human, Physical, Regional, and Geospatial Technology

CHAIR: Margaret Kaminsky

ADMINISTRATIVE ASSISTANT: Judith Miller

FOR FURTHER INFORMATION CONTACT: Department of Chemistry and Geosciences, 1000 E. Henrietta Road, Rochester, NY 14620. Telephone (585) 292-2425 jmiller264@monroecollege.edu

PROGRAMS AND RESEARCH FACILITIES: Monroe Community College offers introductory human, regional, and physical geography courses as well as political geography, world regional, economic geography, geography of tourism destinations, and the geography of genocide. Our offerings in GIS include introduction to GIS, cartography, spatial analysis, remote sensing, and a capstone in geospatial technology. Students and faculty in GIS have opportunities to connect with local industry and government through collaborations with community partners, service learning projects, internships, field trips, and virtual internships. More than half of our courses are online.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Monroe has been ranked in the top 25 community colleges in the nation. Monroe uses a semester system. Students may enroll full or part time and courses are available on the main Brighton campus, Downtown campus as well as Online. Further information is available at <http://www.monroecollege.edu/admissions/> and <http://www.monroecollege.edu/depts/geography/>.

GEOGRAPHY FACULTY:

Michael Boester, M.A., Southern Illinois University-Edwardsville, 2001, Associate Professor of Geography
Jonathan Little, M.S., University of Delaware, 2006, Assistant Professor of Geography and GIST Coordinator
Heather Pierce, M.A., University of Connecticut, 2007, Instructor of Geography

ADJUNCT FACULTY:

Justin Cole, M.S., Rochester Institute of Technology, GISP
Razy Kased, M.A., University of Buffalo, EagleView Pictometry
Timothy McDonnell, M.A., University of Rochester, New York Geographic Alliance Coordinator
Mark McLean, B.S., State University of New York Oswego State University, AMS Certified meteorologist, 13 WHAM meteorologist
Michael Rodgers, M.S., State University Brockport

SUNY BUFFALO STATE

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1965

DEGREES OFFERED: B.A., B.S.

GRANTED 8/31/17-8/31/18: 10 Bachelors

CHAIR: Camille Holmgren

DEPARTMENT ADMINISTRATIVE ASST: Patty Korta

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Camille Holmgren, Department of Geography and Planning, SUNY Buffalo State, 1300 Elmwood Ave., Buffalo, New York 14222-1095. Telephone (716) 878-6216. Fax (716) 878-4009. E-mail: holmgrca@buffalostate.edu. Internet: <http://geography.buffalostate.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The Department now offers three undergraduate degrees, a B.A. in Geography, a B.S. in Environmental Geography, and a B.S. in Urban and Regional Planning. The Geography B.A. provides students with maximum flexibility to choose the geography courses that interest them the most. Students can take a variety of courses to experience breadth in the field, or they can focus on a subfield in geography to gain depth. The Environmental Geography B.S. provides students with the opportunity to study how humans impact, manage, and conserve the natural environment, including landforms, water and soil resources, climate, and plant and animal communities. The Urban and Regional Planning B.S. emphasizes the applied aspects of physical land use planning and planning for sustainable communities. Coursework in GIS is emphasized in the programs and the Department maintains two well-equipped computer labs to support GIS and other computer-intensive courses. Qualified students are provided ample opportunity for internships and independent research.

The Department's environmentally-oriented undergraduate curriculum is supported by collaboration with SUNY Buffalo State's Great Lakes Center (GLC). The GLC maintains a large aquatic research field station on Lake Erie and field work is supported with a fleet of boats for activities, such as water quality sampling. Department faculty members also advise and supervise master's students in the GLC's Great Lakes Ecosystem Science (GLES) programs (M.A. and M.S.). Both GLES programs are interdisciplinary environmental science programs with a required GIS component. The M.A. is a traditional thesis-based program that prepares graduates for advanced research, professional employment, or study at the Ph.D. level. The M.S. is a Professional Science Master's (PSM) program that enhances the environmental science curriculum with coursework in project management and communication strategies and a required internship with an environmental agency. GLES M.S. graduates are prepared to provide a leadership role as they address a wide range of problems and issues related to the management of resources within the Great Lakes and surrounding watersheds.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester plan. The Department accepts all students admitted to BSC. All financial aid and scholarship assistance is provided at the College level. All applicants should apply to the Admissions Office, SUNY Buffalo State, 1300 Elmwood Ave., Buffalo, NY 14222.

FULL-TIME FACULTY:

Kelly M. Frothingham, Ph.D., University of Illinois, 2001, Professor — physical geography, fluvial geomorphology, watershed planning, stream assessment and restoration
Camille A. Holmgren, Ph.D., University of Arizona, 2005, Professor — physical geography, Quaternary paleoecology, paleoclimatology, biogeography, global change
Jason C. Knight, Ph.D., AICP, University at Buffalo, 2013, Associate Professor — urban and land use planning, housing and real estate, planning methods, urban geography
Wende Mix, Ph.D., University at Buffalo, 1987, Associate Professor — transportation planning, urban geography, GIS
Tao Tang, Ph.D., Wisconsin-Milwaukee, 1997, Professor — GIS, remote sensing, physical and environmental geography
Vida Vanchan, Ph.D., University at Buffalo, 2006, Associate Professor — economic geography, industrial competitiveness, development, international trade, multicultural management and negotiation

Stephen J. Vermette, Ph.D., McMaster, 1988, Professor — meteorology, climatology, air quality, field methods
Veryan G. Vermette, M.S., McMaster, 1986, Lecturer — physical geography, human geography, urban geography, geography of Europe

PART-TIME FACULTY:

James R. Bensley, M.U.R.P., AICP, Virginia Polytechnic, 1988, Lecturer — urban planning, land use planning, physical development
Scott Pickard, M.S., SUNY Buffalo State, 1996, Lecturer — environmental science, environmental impact assessment
Josh Unghire, M.S., Duke University, 2009, Lecturer — environmental management, restoration ecology, water resources development

TECHNICAL STAFF:

Mary Perrelli, M.A., University at Buffalo, 1999, GIS Laboratory Manager and Lecturer — GIS, physical and environmental geography

STATE UNIVERSITY OF NEW YORK (SUNY) - COLLEGE AT GENESEO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 32 Bachelors

MAJORS: 76

CHAIR: Jennifer Rogalsky

DEPARTMENT SECRETARY: Mary Kuhn

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Geography, State University College at Geneseo, 1 College Circle, Geneseo, New York 14454. Telephone (585) 245-5238. Fax (585) 245-5180. E-mail: rogalsky@geneseo.edu, or Admissions Office, State University College at Geneseo, 1 College Circle, Geneseo, New York 14454. Telephone (585) 245-5571.

PROGRAMS AND RESEARCH FACILITIES: The Geography degree program is broad in nature requiring courses in Human Geography, Physical Geography, Regional Geography and Geotechniques. The Environmental Studies and Urban Studies minors are administered by the Geography Department. Study abroad, internships, and active research participation with faculty members are encouraged. Facilities include a state-of-the-art GIS and Physical Geography labs. Geneseo's Geography Department has maintained a high standard of quality. Approximately 50 percent of graduates go on to graduate programs in geography and are usually awarded research or teaching assistantships. The majority of graduates find employment with local, state, and federal governmental agencies or with private firms.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Freshman applicants must have a high school diploma and should submit SAT or ACT scores. All applicants, including transfer students, are encouraged to contact the Department of Geography, and should apply directly to the Admissions Office, State University College, Geneseo, New York 14454.

Federal and State financial assistance programs, and scholarships, are available for qualified undergraduate students.

FACULTY:

David Agesen, Ph.D., U. of Minnesota, 1998, Associate Professor — Latin America, resource management, environmental
Colleen Garrity, Ph.D., Arizona State U., 2007, Assistant Professor — climate, GIS, geovisualization
James Kernan, Ph.D., West Virginia University, 2009, Associate Professor — physical, biogeography, GIS
Darrell A. Norris, Ph.D., McMaster, 1976, Professor — historical, developing world, Pacific Rim, cultural landscape, political
David Robertson, Ph.D., U of Oklahoma, 2000, Professor — cultural, historical, environmental, Canada
Jennifer Rogalsky, Ph.D., U of Tennessee, Knoxville, 2006, Associate Professor and Chair — urban, developing world, Ghana, poverty
Stephen Tulowiecki, Ph.D., U. at Buffalo, 2015, Assistant Professor — GIS, physical, environmental

SYRACUSE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1931

GRADUATE PROGRAM FOUNDED: 1926

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 9/1/17 - 8/31/18: 17 Bachelors, 7 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 53 Majors, 9 Masters, 17 Ph.D.

NOT IN RESIDENCE: 1 Masters, 10 Ph.D.

CHAIR: Tom Perreault

DEPARTMENT ADMINISTRATIVE ASST: Margie M. Johnson

FOR FURTHER INFORMATION WRITE TO: Chair of Graduate Committee, Department of Geography, 144 Eggers Hall, Syracuse University, Syracuse, New York 13244-1020. Telephone (315) 443-2605. Fax (315) 443-4227. E-mail: geography@maxwell.syr.edu. Internet: www.maxwell.syr.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: The Syracuse University Department of Geography is characterized by dynamic scholarship and teaching that build on almost a century of distinguished achievement. Our location within the nation's top school of public policy, the Maxwell School of Citizenship and Public Affairs, ensures that geographers can address both the real-world policy implications and the scholarly meaning of their research. Interdisciplinary links stretch across our campus, as faculty and students draw on the intellectual resources of the College of Arts and Sciences (of which we are also part), the University at large, and the adjacent campus of the SUNY College of Environmental Science and Forestry.

The expertise and research foci of department members span a range of topics in human, environmental, and physical geography and in geospatial information and analysis. SU geographers conduct field research in Central and South America; Europe; Southeast, Central, and East Asia; and Southern Africa, as well as across North America.

Prospective students will find opportunities to develop an array of research skills and to study and conduct research with faculty in the following areas:

Community Geography: Syracuse geographers in this area seek to make geography relevant and accessible through scholarship and teaching that address social inequalities. Research by faculty is action-oriented and engages local communities in the research process. Topics examined include urban infrastructure, food deserts, and

participatory GIS and community planning. Community Geography at Syracuse integrates many different theoretical and conceptual traditions in geography, urban planning, and public health and incorporates participatory, critical, and qualitative GIS, radical cartography, and feminist geography.

Environment and Society: Nature-society scholarship at Syracuse examines the relationship between society and the environment, employing perspectives from the social sciences, humanities, and natural sciences. Our faculty engage topics like political ecology, water resources, environmental justice, environmental history, environmental governance, animal geographies, political economy of nature, energy and natural resources, hazards and social vulnerability, development and livelihoods, and the human dimensions of environmental change. Syracuse geographers also study sustainable development, nature conservation and protected areas, forest fire dynamics and management, media coverage of environmental issues, and human impacts on climate, vegetation, and landform processes.

Environmental Science and Landscape Processes: Physical geographers at Syracuse focus on spatial and temporal aspects of environmental science, with the aim of clarifying the dynamic processes that shape the earth's landscapes. Faculty conduct research in four broad areas: human and natural disturbance impacts on riparian habitats and forest ecosystems; development of field and analytic techniques for examining recent and Pleistocene environmental change; processes and implications of sediment transport in rivers; and climate-land surface interactions.

GIS and Geospatial Technologies: Faculty in this focus teach and study GIS, applications and methods in geographic information technologies (i.e., computer cartography, remote sensing, multimedia), spatial analysis and modeling, hydrological and ecosystem modeling, and participatory GIS. Faculty and graduate students conduct research on a range of key societal and environmental issues, with recent topics including the visualization of historical land change, unmanned aerial vehicles, public participation GIS for community action, the geodesign framework for architectural design and urban planning, and the history of cartographic innovation.

Historical Geography and GeoHumanities: Geographers in this area employ archival methods, GIS, critical theory, qualitative methodology, and community engagement to understand how people shape and are shaped by place and landscape. Research includes Native American understandings of Onondaga Lake and spatial histories of the lake's transformation; social media, the climate movement; environmental activism; and citizen engagement through grassroots action along the Erie Canal corridor.

Political Economy: Syracuse geographers understand political economy to be a social relationship that is deeply geographical. Our research starts from the understanding that social relations, social struggles, and social justice are intricately related to the ways that political-economic processes are imbricated in and transformed through spatial relationships. In addition to understanding the relationship between political economy and geography, we seek to understand the relationship between political economy and gender; political economy and labor; political economy and the restructuring of places and regions; and political economy and culture. Across these themes, we want to understand how space, place, region, and scale structure and restructure political economic processes, even as the processes restructure space, place, region, and scale.

Political Geography, Citizenship, and Development: At Syracuse, geographers research the relationships between flows and networks of activity, interaction, and power that are producing an increasingly interconnected world. We study the historical and geographical contexts both within which the lives of people and places are transformed and through which flows of capital, people, information, and knowledge are sped-up, spread-out, and intensified. By focusing

on development, we pay particular attention to the inequalities created by these flows among groups and in spaces and places that have been historically marginalized or subject to control within national and international systems. Research in this area includes geopolitics and the state system; transnational market policies and governance; nationalism, gender, and citizenship; immigration and social belonging; the impact of colonialism and international development policies; and labor markets and industrial development.

Urban Space, Justice, and Culture: Syracuse geographers join the study of urban landscapes, politics, and processes to broader struggles for racial and gender equality, social justice, and political transformation. Through projects that range from constructing urban geographies of memory to examining spatial strategies of immigrant inclusion and exclusion, our faculty draw on a variety of methodological and theoretical perspectives, particularly social theory, to interrogate the production of urban spaces and experiences.

Within the Maxwell School, the department has links with numerous interdisciplinary programs and centers: International Relations; Center for Policy Research; Center for Environmental Policy and Administration; Moynihan Institute of Global Affairs; Institute for the Study of the Judiciary, Politics and the Media; Program for the Advancement of Research on Conflict and Collaboration; and the South Asia Center. A notable opportunity is the concurrent master's degree in Geography and the nationally top-ranked Public Administration program. This concurrent degree provides outstanding training for a public sector career. (58 credit hours are required; information upon request.) Study in our physical geography/environmental clusters is supported by courses and research opportunities in Syracuse University's Departments of Civil and Environmental Engineering, Biology, and Earth Sciences and at the neighboring SUNY College of Environmental Science and Forestry. The department is a founding member of the UCGIS, University Consortium for Geographic Information Science.

Faculty and graduate student offices, the department's Preston E. James Library, and the Geographic Information and Analysis Laboratory are in a centrally located building, Eggers Hall, within easy reach of libraries (SU's collection of over two million volumes has extensive hardcopy and electronic holdings for geographic research), the Physical Geography Laboratory, and the Integrated Spatial Dynamics Laboratory. The Eggers complex is fully networked for wireless computing and communication and possesses advanced telecommunications technology for global and national communication, exchange, and learning.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: A student may enter the undergraduate geography program once accepted into the College of Arts and Sciences; a major program of study must be chosen by the junior year. The geography major consists of a minimum of 33 credit hours (i.e., eleven courses). Having completed foundation work on human geography, nature-society relations, and physical geography, the student must choose at least six upper-division courses from an array of systematic and regional topics, as well as a course in geographic techniques. A senior-year seminar requirement ensures that the student pursues a particular research topic in some depth and is able to present and justify his/her findings in both oral and written form. Simultaneous participation in the College's honors program is encouraged, and numerous possibilities exist for dual majors. There is also a minor in geography and in Environment and Society. For further information, contact Dr. Peng Gao, Undergraduate Director (pegao@maxwell.syr.edu).

GRADUATE: Semester system. *Academic Plan:* the M.A. degree requires 30 credit hours, culminating in either a Master's thesis or two Master's papers, and a final oral examination; the choice of degree program will depend on the student's interests and academic

objectives. Emphasis is placed on the acquisition of a range of research skills and methods that can be applied in a variety of career contexts and used in doctoral programs. The Ph.D. degree entails an additional 30 credit hours of courses both inside and outside the department, 12 credit hours of dissertation research, the writing of an approved dissertation proposal, the satisfactory completion of a combined written and oral qualifying examination, and the successful completion and oral defense of the doctoral dissertation. Students wishing to enter the Ph.D. program should have a clear idea of dissertation plans to facilitate construction of a doctoral program of study. All applicants are encouraged to correspond with individual faculty regarding their special interest in any aspect of the Syracuse program in geography. *Admission:* The department does not subscribe to specific numerical criteria for evaluations of applications; minimum levels normally acceptable, however, for the undergraduate grade point average are about 3.0 (on a 4.0 basis). Samples of written work may be submitted on a voluntary basis (these cannot be returned) to help the department evaluate applications on an individual basis. Applicants must submit transcripts, three letters of recommendation, a statement of intent, GRE scores on the Verbal, Quantitative, and Analytic Tests, and, if applicable, TOEFL scores. Prospective students are strongly recommended to take the GRE and TOEFL exams and to submit application materials as early as possible.

Financial Aid: Graduate Assistantships; University, McNair, and Watson Fellowships; and various tuition scholarships and other awards are available on a competitive basis. Graduate assistantships include tuition and health care. Applications should be completed by January 5th to ensure full consideration for financial support. For further information, contact Dr. Matt Huber, Graduate Director (mthuber@maxwell.syr.edu).

FACULTY:

Shere Abbott, M.F.S. Yale University, University Professor — climate change, energy, sustainability
Jacob Bendix, Ph.D., Georgia, 1992, Professor — biogeography, geomorphology, human impacts on vegetation and land forms, media and environmental issues
Peng Gao, Ph.D., University of Buffalo, 2003, Professor and Undergraduate Director — geographic information systems modeling, human impacts on physical environments, fluvial systems
Timur Hammond, Ph.D., University of California, Los Angeles, 2016, Assistant Professor — Middle East, Turkey, cultural geography, urban geography, religion, identity
Matt Huber, Ph.D., Clark University, 2008, Associate Professor and Graduate Director — resource geography, historical geography, political economy, energy, industrial ecologies
Natalie Koch, Ph.D., University of Colorado Boulder, 2012, Associate Professor — political geography, nationalism, geopolitics, post-Soviet Central Asia, Arab Gulf states, higher education, qualitative methods
Mark Monmonier, Ph.D., Pennsylvania State, 1969, Distinguished Professor of Geography — geographic information (technology, policy, and societal role), cartographic communication and map design, history of cartography in the 20th century, environmental mapping
Anne E. Mosher, Ph.D., Pennsylvania State, 1989, Associate Professor — urban, historical, social geography, interdisciplinary theories of space and place
Andre Ortega, Ph.D. University of Washington, 2012, Assistant Professor — community geography, counter-mapping, transnational migration, Global South cities and suburbs
Thomas A. Perreault, Ph.D., University of Colorado at Boulder, 2000, Chair and Laura J. and L. Douglas Meredith Professor for Teaching Excellence — political ecology, environment and development, social movements, Latin America

Jane M. Read, Ph.D., Louisiana State, 1999, Associate Professor — geographic information systems, remote sensing, tropical environments, land use and land-cover change, Latin America
Jonnell A. Robinson, Ph.D., University of North Carolina Chapel Hill, 2010, Associate Professor — community geography, geographic information systems, participatory GIS, participatory action research, public health geography, qualitative research methods
Tod D. Rutherford, Ph.D., University of Wales at Cardiff, 1992, Professor — economic restructuring, labor market change and policy
Farhana Sultana, Ph.D., University of Minnesota, 2007, Associate Professor — environment and development, water resources management, political ecology and natural hazards, feminist theory
Robert M. Wilson, Ph. D., University of British Columbia, 2003, Associate Professor — environmental historical geography, western U.S. and Canada, environmental policy
Jamie Winders, Ph.D., University of Kentucky, 2004, Professor — race/ethnicity, urban/social geography, international migration, gender, qualitative and historical research methods, social theory

AFFILIATED FACULTY:

Anne Bellows, Ph.D., Geography, Rutgers University, 1999, Professor, Food Studies, Syracuse University — sustainable agriculture, development, food security
Tripti Bhattacharya, Ph.D., Geography, University of California, Berkeley, 2016, Assistant Professor, Earth Sciences, Syracuse University — paleoclimatology, paleoecology, tropical climate dynamics, hydroclimate, proxy reconstruction
Josh Cousins, PhD, School of Natural Resources & Environment, University of Michigan, Assistant Professor, Environmental Studies, SUNY-ESF — urban political ecology, science and technology studies, critical infrastructure studies, water, energy, urban sustainability, climate change adaptation planning
Mitesh Dixit, M.Arch, Washington University, St. Louis Assistant Professor, Architecture, Syracuse University — production of space, sustainability, deserts
Laura-Anne Minkoff-Zern, Ph.D., Geography, University of California, Berkeley, 2012, Assistant Professor, Food Studies, Syracuse University — race, labor, and immigration in the food system, agricultural politics and policy, sustainability studies, feminist methodologies
Sharon Moran, Ph.D., Geography, Clark University, 2000, Associate Professor, Environmental Studies, SUNY-ESF — environmental policy, nature-society relations, water and wastewater management, environmental issues in post-communist countries
Beverly Mullings, Ph.D., McGill, 1996, Associate Professor, Queen's University, Department of Geography — international political economy, service industry development, gender and economic globalization in the Caribbean
John Stella, Ph.D., Environmental Science, Policy and Management, University of California, Berkeley, 2005, Associate Professor, SUNY-ESF, Department of Forest and Natural Resource Management — riparian ecology, ecosystem restoration, plant physiology, community dynamics
Evan Weissman, Ph.D., Geography, Syracuse University, 2012, Associate Professor, Food Studies, Syracuse University — alternative food networks, urban agriculture, political economy of agro-food, urban political ecology
Austin Zwick, Ph.D., Urban Planning, University of Toronto, 2018, Assistant Teaching Professor, Public Affairs, Syracuse University — regional planning, municipal public finance, quantitative methods, regional economic transformation brought about by technological change

EMERITI FACULTY:

Robert G. Jensen, Ph.D., Washington, 1964, Professor Emeritus — regional development and urban policy in Russia, Russian resource development and East-West trade, Russia and independent states

Donald W. Meinig, Ph.D., Washington, 1953 Professor Emeritus — historical, cultural and social, landscape interpretation, North America

John Mercer, Ph.D., McMaster, 1971, Professor Emeritus — comparative urbanization, urban housing, Canada

Susan W.S. Millar, Ph.D., Rutgers, 1995, Associate Professor Emeritus — physical geography, periglacial geomorphology, microclimatology, Arctic environmental science

Don Mitchell, Ph.D., Rutgers, 1992, Distinguished Professor Emeritus of Geography — cultural, historical, labor, social theory, Marxist approaches to geography

James L. Newman, Ph.D., Minnesota, 1968, Professor Emeritus — population, diet-nutrition, tropical Africa

David J. Robinson, Ph.D., London, 1967, Professor Emeritus — Latin American development, colonialism, historical, the Internet

John Western, Ph.D., UCLA, 1978, Professor Emeritus — social, cultural, urban, France, Southern Africa

UNITED STATES MILITARY ACADEMY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL ENGINEERING

DATE FOUNDED: 1803

DEGREES OFFERED: B.S.

GRANTED 08/01/18-08/31/19: 18 Bachelors of Geography,
8 Geospatial Information Science

MAJORS: 123 Geographers; 14 Geography Minors; 119
Geospatial Information Science; 385 total Majors
(including Environmental Engineers and Scientists)

CHAIR: Colonel Mark R. Read, Ph.D.

DEPARTMENT ADMINISTRATIVE OFFICER: Mrs.
Mary Ellen DeLuca Kreder

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: LTC Chris Fuhrman, Geography Program Director, Department of Geography and Environmental Engineering, United States Military Academy, West Point, New York 10996-1695. Telephone (845) 938-4035. Fax (845) 938-3339. E-mail: Christopher.fuhrman@west-point.edu. Internet: <https://westpoint.edu/academics/academic-departments/geography-and-environmental-engineering>

PROGRAMS AND RESEARCH FACILITIES: The program is designed to provide a strong background in geography or environmental studies, allowing special emphasis in six major areas: human geography, human-environment interaction, physical geography, environmental engineering, environmental science, and geospatial information science. Geography majors take 10 geography courses in addition to the Academy's 27-course core curriculum (that includes a physical geography course), as well as three complementary support courses (electives outside the major that add breadth or depth to a topic or region of the cadets' interest). Furthermore, the department offers program-specific capstone courses in environmental security, military geography, and environmental engineering design. An honors program culminating in a research-based thesis is offered for qualified students. The department offers a variety of summer enrichment programs which provide cadets the opportunity to obtain practical field experience in geography-related themes which can lead to individual research projects during the following academic year. Cadets have interned at federal agencies such as the National Oceanic and Atmospheric Administration, Environmental Protection Agency, Waterways Experiment Station, Air Force Global Weather Center, Cold Regions Research and Engineering Laboratory, Defense Intelligence Agency, Topographic Engineering Center, and National Aeronautics and Space

Administration, and have participated in oceanic surveys, coastal hazard studies, desert environmental research, environmental audits of US Army installations, and GIS-based studies. Additionally, cadets may participate in cultural immersion trips to locations such as Israel, Iceland, and others. Cadets and faculty rely on research support from the USMA library, which houses 500,000 volumes and 1,600 periodicals. The department library, a branch of the USMA library, houses over 1,800 books, theses, atlases, and 21 journals. The Department of Geography and Environmental Engineering maintains the Academy's Geographic Sciences Laboratory, which includes 20 GIS and six photogrammetry workstations along with a new multi-media instructional facility. In addition, fully equipped laboratories support instruction and research in remote sensing/photogrammetry, environmental engineering, geology, geomorphology, and cartography. The department is dedicated to remaining at the technological forefront in its areas of emphasis. The department also houses the Center for the Study of Civil-Military Operations, the Center for Environmental and Geographic Sciences, and has two faculty members in the Center for the Study of Languages, Culture, and Regional Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Application for admission and information concerning nomination for appointment may be obtained by contacting the Director of Admissions, United States Military Academy, West Point, New York, 10996. All students are members of the United States Army and as such, receive salaries and pay no tuition for attendance.

FACULTY:

Patrick Baker, Ph.D., Miami University, 2009, Assistant Professor — environmental science

Peter Bier, M.S., University of Wisconsin, 2017, Instructor — environmental engineering

Michael A. Butkus, Ph.D., University of Connecticut, 1997, Professor, & Environmental Program Director — environmental engineering

Philip J. Dacunto, Ph.D., Stanford University, 2013, Associate Professor & Deputy Head — environmental engineering

Elizabeth Dzwonczyk, M.S., Pennsylvania State University, 2016, Assistant Professor — medical geography, physical geography

John Dzwonczyk, M.S., Pennsylvania State University, 2016, Assistant Professor — economic geography, energy, physical geography

Chris Fuhrman, Ph.D., University of Utah, 2017, Assistant Professor & Academy Professor — terrorism, military geography, physical geography

Adam J. Kalkstein, Ph.D., Arizona State University, 2008, Associate Professor — climatology, physical geography

Mindy Kimball, Ph.D., Arizona State University, 2014, Associate Professor & Academy Professor — environmental science

Zachary Landis, M.A., University of South Carolina, 2017, Instructor — hazards, geography education, physical geography

Nicholas Lewis, M.A., University of Colorado, 2018, Instructor — remote sensing, physical geography

David J. Leydet, M.S., Oregon State University, 2016, Assistant Professor — geomorphology, physical geography

Andrew D. Lohman, Ph.D., Illinois, 2009, Associate Professor & Academy Professor — human geography, political geography, military geography

Jon C. Malinowski, Ph.D., North Carolina-Chapel Hill, 1995, Professor — cultural geography, environmental perception, geography of childhood, spatial behavior, Asia

Erick V. Martinez, M.E. University of Florida, 2016, Assistant Professor — environmental engineering

John M. Melkon, II, MPJA, Texas A&M University, 2005, Director, Center for the Study of Civil-Military Operations (CSCMO) — civil-military operations

Anees Merzi, M.S., Texas A&M University, 2016, Instructor — GIS

Ruth Mower, M.S., Missouri University of Science & Technology - Rolla, 2012, Assistant Professor — environmental engineering

Kyle Murray, M.S., California – Los Angeles, 2017, Instructor — environmental engineering
Christopher Nixon, M.S., Naval Postgraduate School, 2012, Assistant Professor — meteorology, physical geography
Matthew O'Banion, Ph.D., Oregon State University, 2017, Assistant Professor — GIS
Charles Ouellette, M.S., Cornell University, 2016, Assistant Professor — environmental engineering
Christopher E. Oxendine, Ph.D., George Mason, 2013, Associate Professor & Academy Professor — GIS
Luke T. Plante, M.S., Columbia University, 2016, Assistant Professor — environmental engineering
Landon Raby, M.S., Colorado, 2017, Instructor — environmental engineering
Mark Read, Ph.D., Penn State, 2014, Department Head & Assistant Professor — environmental geography, physical geography, military geography
Amy Richmond, Ph.D., Boston University, 2005, Professor — physical geography, environmental geography, energy, environmental economics
Jason Ridgeway, Ph.D., Texas A&M University, 2017, Assistant Professor & Academy Professor — cultural geography, physical geography
Nathaniel Sheehan, M.S., University of Arkansas – Fayetteville, 2013, Instructor — environmental engineering
Benjamin Sylvester, M.A., University of South Carolina, 2017, Instructor — cultural geography, physical geography
Benjamin Wallen, PE, PMP, Ph.D., Colorado School of Mines, 2016, Assistant Professor — environmental engineering
Richard L. Wolfel, Ph.D., Indiana University, 2001, Professor — cultural geography, Europe, Russia, political geography, social geography, quantitative methods
William Wright, Ph.D., Florida, 2017, Assistant Professor, Academy Professor, & Geospatial Information Science Program Director — GIS, remote sensing, photogrammetry

UNIVERSITY AT ALBANY, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A., M.A., combined B.A./M.A., M.R.P., M.S.-GIS, combined M.R.P./J.D., M.S. in Biodiversity, Conservation and Policy

CHAIR: Andrei Lapenas

ADMINISTRATIVE MANAGER: Marcia Catrambone

DEPARTMENT SECRETARY: Andrea Bartow

FOR CATALOG AND FURTHER INFORMATION VISIT: www.albany.edu/gp or contact Department of Geography and Planning, UAlbany-SUNY, Arts & Sciences 218, Albany, New York 12222. Telephone (518) 442-4636. E-mail: abartow@albany.edu. Information on all of our programs is available on the website: <http://www.albany.edu>.

PROGRAMS AND RESEARCH FACILITIES: The University is located in the historic city of Albany, capital of New York State, and at the heart of the Northeast, with easy access to New York City, Boston and Montreal. The New York Capital Region is an emerging center of high tech development, heritage tourism and cultural activity. Located by the Hudson River, Albany is close to the Catskill, Adirondack, Berkshire and Green Mountains and many wilderness, lake, trail and ski areas. A cooperative agreement gives UAlbany students opportunities for courses and library privileges at Union College, Rensselaer Polytechnic Institute (RPI), and several other area

colleges and universities. The Geography and Planning Department has close ties with local, regional and state agencies, and numerous undergraduate and graduate internship opportunities are available. The Department has a diverse faculty in terms of disciplinary focus, composition, and real-world experience. Faculty members come to the University at Albany after earning graduate degrees or post-doctoral positions at major national and international universities. Full-time professors have active research programs and are often supported with external grants from NSF, NIH, government agencies, and industry. Among the 11 full-time faculty members and 15 adjunct faculty, several have strong international research programs, notably in China, Russia, India, Latin America, Australia, and Africa. At the undergraduate level, the Department offers training in human geography (urban, economic development, cultural, population, environmental), physical geography and climatology, and spatial analysis (GIS, remote sensing, spatial statistics, spatial cognition, cartography). An undergraduate degree option is also available in Urban Studies and Planning. In addition, the Department coordinates the University's Interdisciplinary Major in Globalization Studies. Eligible students can pursue a combined B.A. /M.A. program in geography. Undergraduates can also earn a Certificate in Geographic Information Systems and Spatial Analysis.

The Department's graduate programs provide students with specialized training and preparation for careers in business, government, education, non-profit organizations and international development. The Master of Arts (MA) in Geography is a flexible degree program that accommodates a wide spectrum of coursework and research in such fields as cultural and political geography; urban and economic geography; migration studies; transportation; physical geography; environmental analysis; climatology; GIS, remote sensing and cartography; and spatial statistics and mathematical modeling. Complementary work in other departments is encouraged. Students in the MA program may select one of two options: the 30-credit thesis track, including completion of a substantial research project; or the 36 credit non-thesis track. In addition, the Department offers a 15-credit Graduate Certificate in GIS and Spatial Analysis, which may be completed separately or within the context of the MA program. The Department also offers a 48-credit Masters in Urban & Regional Planning (MRP), an accredited professional program. Specializations are available in: environmental and land use planning; housing, local economic development and community planning; and transportation planning. Some students choose to work toward both the MA (geography) and MRP (planning) degrees. There also exist an opportunity to enroll into the joint MRP/JD Program. The 87-credit Juris Doctorate (JD) program is offered by the Albany Law School. The benefit of the joint program is the reduction of number of courses from both programs. For details please see the department's website (www.albany.edu/gp). Our 36-credit Master of Science in Geographic Information Science (MS GIS) program, opened in 2018, prepares students for careers in a wide range of social and environmental application areas that make use of the technologies and methodologies of spatial analysis and mapping. Starting the Fall 2019, Department will offer new 30-credit MS in Biodiversity, Conservation and Policy program. The BCP is a multidisciplinary master's program in broad field of environmental science. This program combines classes from the several departments in the College of Arts and Sciences and the Rockefeller College of Public Affairs and Policy to prepare students for careers that require knowledge of both natural science and public policy. Departmental faculty routinely participate in doctoral supervision for students with compatible interests through Ph.D. programs in Information Science, Sociology, Anthropology, and Atmospheric Sciences.

The Department maintains the GIS classroom with 26 workstations allowing students complete all their classwork in GIS and remote sensing classes. The Geographic Information Science Research Lab next door runs a full complement of GIS software and data capture, processing, and maintenance tools. Our faculty experts guide students' work in GIS and spatial analysis. The Remote Sensing and Spatial

Analysis lab offers opportunities for graduate and undergraduate students interested in engaging in a variety of research projects including, but not limited to, land cover/use transformations, ecosystem analyses, spatial modeling. The facility is equipped with all the important hardware and software a modern day geographer may need to conduct innovative research. Among the essential components is the small fleet of unmanned aircrafts, a.k.a. drones, outfitted with professional grade imaging instruments employed in several ecological, transportation and disaster management studies. The Planning Studio offers dedicated project workspace and facilities for computer-aided design and production of technical reports. The University Libraries have extensive holdings in geography and planning, and major collections are also available at the New York State Library. The Department is closely associated with the University's Lewis Mumford Center for Comparative Urban and Regional Research, and with its Urban China Research Network.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester system. Admission is generally granted for the fall, spring, and summer sessions. Early, special, and transfer admissions are available. Financial aid includes New York State and federal awards, the Tuition Assistance Program, Regents College Scholarships, and other programs.

Graduate: The University operates on the semester plan, with additional summer sessions. Applications are received all year. Teaching assistantships and fellowships with stipends of at least \$4,500 each semester are available through the Department. Research assistantships are commonly available through federal, state, and foundation grants and contracts to faculty members. Current sources include the National Science Foundation, and several New York State agencies. Outstanding opportunities also exist for paid internships with New York State agencies, normally for students who have completed at least one semester of work in the Department. Most assistantships and fellowships, and many paid internships, provide for remission of tuition. Limited financial support during the summer is available on a competitive basis. Students requesting financial aid should submit all application materials, including GRE scores, by March 15 for admission the following fall.

FACULTY:

David A. Banks, Ph.D., 2016, Rensselaer Polytechnic Institute, Visiting Assistant Professor — regional planning theories and techniques, science and technology studies

Alexander Buyantuev, Ph.D., Arizona State University, Assistant Professor — remote sensing, landscape ecology, urban ecology, land use and cover change, phenology, sustainability

Ray Bromley, Ph.D., Cambridge University, 1975, AICP, Professor — planning history, metropolitan and regional planning, community development, informal sector, microenterprise, Latin America

Kate Coddington, Ph.D., Syracuse University, 2014, Assistant Professor — borders and mobilities, migration, asylum and detention, settler colonialism, citizenship and belonging, feminist epistemology and research methods

Youqin Huang, Ph.D., University of California, Los Angeles, 2001, Professor — population, gender, housing and labor markets, urban, GIS, China

Shiguo Jiang, Ph.D., The Ohio State University, Assistant Professor — geographical information science and systems, remote sensing methods and applications, spatial statistics and environmental statistics, land use and land cover change, ecological modeling

Andrei Lapenas, Ph.D., State Hydrological Institute, St. Petersburg, 1986, Professor — climatic change, soil-vegetation-atmosphere interactions, global carbon cycle

Catherine T. Lawson, Ph.D., Portland State University, 1998, Associate Professor — transportation planning, ITS, freight, quantitative methods, regional science, growth management

David A. Lewis, Ph.D., Rutgers University, 2003, Associate Professor — regional planning theories and techniques, brownfields redevelopment, urban and regional economic development

Rui Li, Ph.D., Pennsylvania State University-Assistant Professor — geographical information science, spatial cognition wayfinding and navigation, spatial learning

James E. Mower, Ph.D., State University of New York at Buffalo, 1988, Associate Professor — GIS, cartography, automated cartography

Thomas P. Narins, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — Chinese-Latin American relations, political geography, political economy, economic geography

ADJUNCT FACULTY:

Alison Bates, MRP UAlbany, SUNY

David Banks, MA Science & Technology, Rensselaer Polytechnic Institute, 2016 — urban geography

Riobart É. (Rob) Breen, Ph.D. 2006, Northern Arizona University — environmental and natural resources policy and administration

Rocco A. Ferraro, MCRP, Ohio State, 1975, AICP — sustainable planning, land use, growth management

Glenn Harland, MA, UAlbany-SUNY, 1994 — physical geography, GIS

Marcia Kees, BA SUNY Oswego, New York State Office of Parks Recreation and Historic Preservation, Coordinator of New York State Heritage Area Program (retired)

Jacqueline Ledermann, MA Diplomacy and International Relations, Seton Hall University — globalization

Sean Maguire, MPA, AICP, UAlbany SUNY 2014, Director of Economic Development

Neusa McWilliams, Ph.D., UC Berkeley 1996 — urban geography, climate change, rural development and sustainability, Latin America region, cultural geography

Robert Murphy, MRP, University at Albany, 2014 — food systems planning and policy, healthy communities, and urban agriculture

Christopher J. O'Connor, UAlbany-SUNY, 2002 — GIS, IT management, public administration

Jeffrey S. Olson, MA, SUNY - Empire State, 1993 — bicycle and pedestrian transportation planning

Ted Orosz, MS, Urban Environmental Studies, Rensselaer Polytechnic Institute 1974, AICP, CTP — public transportation planning, new towns and planned cities in the United States

Anurupa Roy, Ph.D. Ohio State, 2014 — economic geography, urban geography, development, globalization, South Asia

Kurt Swartz, MA, SUNY College of Environmental Science & Forestry 1982, New York State Department of Environmental Conservation, GIS Section Chief (retired)

UNIVERSITY AT BUFFALO (UB), THE STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: BA, MA, MS, PhD in Geography;
BS, MS in Geographic Information Science; BA,
BA/MA, MA in International Trade

GRANTED 9/1/17-8/31/18: Geography: 19 Bachelors, 5
MA, 3 MS, 3 PhD; Geographic Information Science: 13
Bachelors, 14 MS; International Trade: 40 Bachelors, 1
MA

STUDENTS: 120 Majors, 51 Masters, 42 Doctoral

CHAIR: Sean J. Bennett

DEPARTMENT ADMINISTRATOR: Diane Holfelner

FOR FURTHER INFORMATION: Please visit our website: www.geography.buffalo.edu. Graduate applicants: **Please apply online.** The online application should be accessed directly from the department webpage. Address written inquiries to Director of Graduate Studies, Department of Geography, University at Buffalo, 105 Wilkeson Quadrangle, Buffalo, NY 14261-0055, telephone (716) 645-2722, fax (716) 645-2329, and e-mail: geog@buffalo.edu.

Graduates pursue professional careers in government or business, as well as leading teaching and research institutions. Students are encouraged to find internships in business, industry, and/or government agencies. Some examples of potential fields of employment are software development, GIS and mapping technology, remote sensing, population analysis, land use, natural resource and environmental management, statistical analysis, and economic development.

AREAS OF SPECIALIZATION: The areas of concentration supported by the department are General Geography, Geographic Information Science, Earth Systems Science, Urban and Regional Analysis, and International Business and World Trade.

General Geography (BA, MA, MS, and PhD degrees) is concerned with the location and arrangement in space of human and natural phenomena, and with the interrelationships between people and their environments.

Geographic Information Science (BS and MS degrees, PhD concentration) provides students with cutting-edge knowledge, skills, and abilities in using geospatial sciences, which includes geographic information systems (GIS), remote sensing, locational analysis, and geographic visualization. This curriculum focuses on the theoretical foundations of geographical information science, the development and use of state-of-the-art software and emerging technology, and the collection, processing, and interpretation of geospatial information.

Earth Systems Science (BA, MA, MS, and PhD concentrations) examines current environmental problems through quantitative methods, analysis, and modeling grounded in basic and applied science and research. This curriculum introduces students to the fundamental processes that dominate the atmosphere, hydrosphere, lithosphere, and biosphere, their characteristics and complex interactions, and their impact on human life and society.

Urban and Regional Analysis (BA, MA, MS, and PhD concentrations) prepares students to identify and address a wide variety of economic and social problems related to population changes and migration, land use, urban environment, housing, work and welfare, health, and transportation within a geographical context. This curriculum focuses on the theoretical foundations of geographical analysis and urban environments, the use and interpretation of statistics, and the collection, processing, and interpretation of geospatial information.

International Trade (BA, BA/MA, and MA degrees, and PhD concentration) offers students the opportunity to learn about trade from theoretical and practical perspectives. Students use the tools of economic and business geography to understand the dynamics of multinational corporations, global financial markets, and technology and innovation change, and they learn to evaluate how these global-scale changes create opportunities and constraints for regional development in the United States and abroad. Students focus on the critical social, economic, and environmental challenges faced by workers, corporate decision-makers, government policy makers, and non-governmental organizations, which ultimately shape social outcomes and patterns of uneven development.

GRADUATE DEGREE PROGRAMS: The Department of Geography offers graduate student training leading to the following

degrees: BA/MA, Master of Arts, Professional Master of Arts (portfolio option), Master of Science, Master of Arts in International Trade, Master of Science in Geographic Information Science, and Doctor of Philosophy.

A Master's Degree may be designed as a terminal degree (including a portfolio option), or it may be used as the basis for more advanced graduate study. Pursuit of the portfolio option in Earth Systems Science or Geographic Information Science could enable a student to complete an MA program in as little as one year.

In cooperation with the School of Management, the department offers a joint MA-MBA degree in International Business and World Trade. The department also offers a 5-year BA/MA degree in International Economic and Business Geographies that prepares students for professional or academic career in international business and related fields. The Master of Science degree is intended for students specializing in applications of analytical techniques to the field of geography and geospatial sciences.

The PhD program admits superior students who desire in-depth research and technical training as a prelude to careers in education, government, or industry. Ph.D. programs are designed on an individual basis.

ADMISSIONS & FINANCIAL AID: The University at Buffalo (UB), The State University of New York, is a member of the prestigious Association of American Universities, and it is the largest, most comprehensive, public undergraduate and graduate university in New York, enrolling nearly 30,000 students. UB operates on a semester system.

Undergraduate Admissions: For application information, please visit the Undergraduate Admissions website: <http://admissions.buffalo.edu/apply/index.php> or write to the Office of Admissions, 12 Capen Hall, University at Buffalo, Buffalo, NY 14260 or email: ub-admissions@buffalo.edu. Telephone (888) UB-ADMIT or (716) 645-6900.

Undergraduate Financial Aid: For information, please see <https://financialaid.buffalo.edu/> or write to Financial Aid, 1 Capen Hall, University at Buffalo, Buffalo, New York 14260 or email: UBFA@buffalo.edu. Telephone (716) 645-8232.

For Honors Program and Presidential Scholarships: <http://honors.buffalo.edu/prospective/scholarships.php> or write to University Honors Program, 106 Capen Hall, University at Buffalo, Buffalo, NY 14260. Telephone: (716) 645-3020

Graduate Admissions: For information, please see website for required materials and deadlines: <http://www.buffalo.edu/c-as/geography/graduate-program.html>

Graduate Financial Aid: Departmental graduate assistantships are awarded competitively to well-qualified students. In addition, Presidential and College Fellowships are available on a university-wide competitive basis. For departmental assistantships, interested students must submit requests along with complete application materials. Research assistantships are obtained by invitation from individual faculty researchers.

RESEARCH FACILITIES & FACULTY: The Department of Geography maintains the Geographic Information and Analysis Laboratory, a multipurpose computing facility. The collection, processing, and presentation of digital information obtained from a variety of sources are critical components to the study of geospatial sciences. Additional teaching and research laboratories provide opportunities for active learning environments and specialized equipment and facilities used in Earth surface processes and environmental science. The department also is home to two research

centers. The National Center for Geographic Information and Analysis (NCGIA; www.ncgia.buffalo.edu) has focused its mission on excellence in GIScience research and to provide geospatial services to UB and local communities. NCGIA has established a research infrastructure on campus that links a large number of departments within a number of schools, and its current research strengths lie in multiple aspects of GIScience: ontology/semantics, remote sensing, systems science, and spatial statistics, along with the domain expertise of the core GIScience faculty in Earth systems, social and behavioral, and health sciences. The Center for Trade, Environment, and Development (CTED; <http://www.buffalo.edu/cted.html>) seeks to be a recognized source for independent research and analysis on international trade, investment, and governance, and to contribute to both policy and public debates on these issues. CTED aims to create an intellectual and policy space for alternatives that do not submit to the false binary of nationalist protection versus neoliberal globalization. It supports research that disrupts this dualism with an eye toward progressive, more equitable global relations of trade and investment.

The Department of Geography has a diverse faculty in terms of disciplinary focus, composition, and real-world experience. The department has 21.5 faculty grouped into the following specializations: Earth Systems Science, Geographic Information Science, Economic and Development Geography, and Urban and Regional Analysis. Faculty members represent the global community (hailing from North America, Europe, and several locations in Asia), and they come to the University at Buffalo after pursuing graduate degrees or post-doctoral or tenure-track positions at major national and international universities, conducting research at federal laboratories, or working in industry. All faculty have active research programs and often supported with extramural funds from NIH, NSF, government agencies, and industry. Several faculty members have earned the rank of SUNY Distinguished Professor and have been awarded the Chancellor's Award for Excellence in Scholarship and Creative Activities and for Teaching, while others have been recognized for their contributions to international education and graduate student mentoring.

FACULTY:

Jared Aldstadt, Ph.D., San Diego State University/University of California, Santa Barbara, 2007, Associate Professor — medical geography, spatial epidemiology, GIScience, spatial analysis

Sharmistha Bagchi-Sen, Ph.D., University of Georgia, 1989, Professor — urban and economic geography, innovation and industry studies, foreign direct investment, biotech and bioenergy

Sean J. Bennett, Ph.D., Binghamton University, SUNY, 1993, Professor and Chair — sediment transport mechanics, gully erosion, reservoir sedimentation, and watershed processes

Ling Bian, Ph.D., University of North Carolina, Chapel Hill, 1991, Professor — individual-based epidemiological modeling, interoperable environmental models, geographic image retrieval

Thomas Bittner, Ph.D., Technical University of Vienna, 1999, Associate Professor — formal ontology, qualitative spatio-temporal reasoning, theoretical foundations of GIS

Abigail Cooke, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — international trade, immigration diversity, urban economies

Stuart M. Evans, Ph.D., University of Washington, 2014, Assistant Professor — atmospheric and climate science, general circulation modeling

Trina Hamilton, Ph.D., Clark University, 2006, Associate Professor — corporate social and environmental responsibility, global governance, international trade

Yingjie Hu, Ph.D., University of California, Santa Barbara, 2016, Assistant Professor — GIScience, spatial and text analysis, geospatial semantics, machine learning, data mining

Chris P.S. Larsen, Ph.D., McMaster University, 1994, Associate Professor — climate change, conservation biogeography, forest and landscape ecology, historical ecology, restoration ecology

Nicholas Lustig, Ph.D., University of California, Los Angeles, 2014, Assistant Professor — urban geography

D. Scott Mackay, Ph.D., University of Toronto, 1997, Professor — ecohydrology, land surface hydrology, hydrologic and ecosystem modeling, GIS, remote sensing

Sara S. Metcalf, Ph.D., University of Illinois, Urbana-Champaign, 2007, Associate Professor — dynamic modeling, urban health and sustainability

Jessie P. Poon, Ph.D., Ohio State University, 1993, Professor — international trade and foreign investment, regional economic development, Asian business

Chris S. Renschler, Ph.D., University of Bonn, 2000, Associate Professor — GIScience, environmental modeling, natural resources management

Peter A. Rogerson, Ph.D., State University of New York at Buffalo, 1982, SUNY Distinguished Professor — dynamic migration modeling, demographic forecasting, mathematical modeling

Monica Stephens, Ph.D., University of Arizona, 2012, Assistant Professor — volunteered geographic information, BigData, critical GIS, social media, gender and technology

Xin Tao, Ph.D., University of Maryland, 2015, Clinical Assistant Professor — remote sensing, GIScience

Le Wang, Ph.D., University of California, Berkeley, 2003, Professor — remote sensing, GIScience, forest characterization, environment modeling, land cover and land use change

Marion Werner, Ph.D., University of Minnesota, 2010, Associate Professor — labor, feminist and postcolonial theory, political economy, global production, Latin America and the Caribbean

Adam Wilson, Ph.D., University of Connecticut, 2012, Assistant Professor — ecological impacts of global environmental change, species distributions, ecosystem resilience, climate change

Eun-Hye Enki Yoo, Ph.D., University of California, Santa Barbara, 2006, Associate Professor — GIScience, geostatistics, spatial statistics, public health and environmental modeling

EMERITI FACULTY (partial listing):

Athol D. Abrahams, Ph.D., University of Sydney, 1971, UB Distinguished Professor — fluvial geomorphology

David M. Mark, Ph.D., Simon Fraser University, 1977, SUNY Distinguished Professor and Director Emeritus, National Center for Geographic Information and Analysis — geographic information systems, user interfaces, spatial cognition, digital terrain models, computer mapping

James E. McConnell, Ph.D., Ohio State University, 1969, SUNY Distinguished Teaching Professor — international business and world trade

Michael J. Woldenberg, Ph.D., Columbia University, 1968, Professor — fluvial geomorphology

VASSAR COLLEGE

DEPARTMENT OF EARTH SCIENCE AND GEOGRAPHY

DATE FOUNDED: 1920

DEGREES OFFERED: B.A.

GRANTED in 2019: 4 Bachelors

MAJORS: 20

CHAIR: Jill Schneiderman

ADMINISTRATIVE ASSISTANT: Lenore Hart

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chair, Department of Earth Science and Geography, Box 735, Vassar College, Poughkeepsie, NY 12604. Telephone (845) 437-5540.

Fax (845) 437-7577. E-mail: geo@vassar.edu. Internet: <http://earthscienceandgeography.vassar.edu/>

PROGRAMS AND RESEARCH FACILITIES: Founded in 1861 as one of the first U.S. colleges for women, Vassar College has been coeducational since 1969. Vassar now offers a highly selective liberal arts education to approximately 2,400 undergraduates. Courses in geology and geography have been taught since the 19th century. Ellen Churchill Semple received her B.A. in 1882 and her M.A. in 1891 at Vassar. In 1920 the Department of Geology and Geography was established with concentrations in both disciplines. Specific research themes include comparative and sustainable urbanization, urban planning, sustainability and climate impacts, political ecology, human rights, global and area studies, migration and ethnicity, land use planning, agriculture, and economic geography. In 2004, the department changed its name to Earth Science and Geography. Geography offers its own major as well as joint concentrations with both Anthropology and Earth Science. In addition, Geography participates in the multi-disciplinary programs in Environmental Studies, American Studies, Urban Studies, International Studies, Africana Studies, Latin American Studies, Asian Studies, and Women's Studies. The department also shares the Science Visualization lab (computer lab) and the Earth and Environment laboratory in the new Bridge for Laboratory Sciences building. The Vassar libraries contain more than a million books, some 3,000 periodicals, serials, and newspapers, and a rare book collection containing historic atlases and maps. The art gallery is noted for its collection of Hudson River School paintings. Departmental facilities include a GIS laboratory and the Warthin Museum of Geology and Natural History. Fieldwork and internships are available with local planning agencies and non-profit environmental groups. Poughkeepsie's location on the Metro North rail line allows students and courses to take advantage of resources in New York City, as well as natural and cultural resources in the Hudson Valley.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Students academically qualified for admission find that Vassar offers generous financial aid to approximately 60 percent of the student body. Research support from a variety of internal and external grants is also available.

FACULTY:

Susan G. Blickstein, Ph.D., Clark University, 2008, Adjunct Assistant Professor — urban geography, social movements, transportation planning
Mary Ann Cunningham, Ph.D., University of Minnesota, 2001, Associate Professor — biogeography, GIS, environmental science, environment and agricultural systems, renewable energy
Ashley Fent, Ph.D., University of California-Los Angeles, Postdoctoral Fellow in Geography
Harvey K. Flad, Ph.D., Syracuse University, 1973, Professor Emeritus — cultural, social, historical landscapes, environmental assessment and planning, North America, Africa, Central Asia
John Fronimos, Ph.D., University of Michigan, 2016, Visiting Assistant Professor
Brian J. Godfrey, Ph.D., University of California-Berkeley, 1984, Professor — urban, cultural, historical, global South, North America, Latin America, Brazil, Amazonia
Kirsten Menking, Ph.D., University of California-Santa Cruz, 1995, Associate Professor — environmental, geomorphology, paleoclimatology
Joseph Nevins, Ph.D., University of California-Los Angeles, 1998, Associate Professor — political, historical, human rights, political ecology, U.S.-Mexico border, E. Timor,
Jill S. Schneiderman, Ph.D., Harvard, 1987, Professor — environmental, sedimentology, history and philosophy of science, gender
Jeffrey R. Walker, Ph.D., Dartmouth, 1987, Professor — optical and x-ray mineralogy, igneous and metamorphic petrology, volcanology, hydrogeology, soils

Yu Zhou, Ph.D., University of Minnesota, 1995, Professor — economic, technology innovation, development, sustainable urban development, China, East Asia, United States immigration, ethnic economies

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1966

DEGREES OFFERED: B.A. in Geography, B.S. in

Geography (Concentration in General Geography and Geographic Information Systems), Undergraduate Certificate in Geographic Information Systems, B.S. in Community and Regional Planning, M.A. in Geography (Thesis and Non-Thesis with Concentrations in General Geography, Geographic Information Systems, Planning), Graduate Certificate in Geographic Information Science, Graduate Certificate in Planning

DEGREES GRANTED 9/1/17 – 8/31/18: 38

MAJORS: Geography, Planning

CHAIR: Kathleen Schroeder

PROGRAM ADMINISTRATIVE ASSISTANT: Kathy Brown

FOR CATALOG AND FURTHER INFORMATION: Visit www.geo.appstate.edu.

PROGRAMS AND RESEARCH FACILITIES: The undergraduate program offers B.A. and B.S. degrees in Geography and Planning. An undergraduate certificate in GIS is available. The Master's program offers an M.A. with thesis and non-thesis tracks and concentrations in general geography, Geographic Information Science and Planning. The Department occupies two floors of a science facility with accompanying laboratory space.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Appalachian State is on a semester system with opportunities for course work in the summer. Admission requirements for the undergraduate program include graduation from an accredited secondary school or equivalency certificate, and satisfactory combination of secondary school class rank and SAT or ACT score. Financial Aid is available through federal work-study programs, various loan programs, and scholarships. High achieving undergraduate majors may be eligible for an accelerated admissions program to our graduate school. The graduate program is open to qualified students with an undergraduate degree from an accredited four year institution. Applications are welcome from a wide variety of undergraduate majors. Graduate Assistantships for teaching and research are available as are scholarships and out-of-state tuition waivers on a competitive basis.

FACULTY:

Robert N. Brown, Ph.D., Louisiana State, 2001, Associate Professor — humanistic geography, American South, New Orleans, historical geography, ethnography
Jeffery D. Colby, Ph.D. Colorado, 1995, Professor — GIS, remote sensing, watershed/environmental modeling, water resources
Richard J. Crepeau, Ph.D., California- Irvine, 1995, Associate Professor — land use, transportation policy, travel behavior, GIS

Kara E. Dempsey, Ph.D., Wisconsin-Madison, Assistant Professor — political and cultural geographer: nationalism, geopolitics, conflict reconciliation, and forced migration

Derek J. Martin, Ph.D., Tennessee, 2014, Assistant Professor — river system dynamics, geospatial technologies, human impact on fluvial process

Mike W. Mayfield, Ph.D., Tennessee, 1984, Professor — geomorphology, hydrology, environmental change, physical geography

Misty L. Mayfield, M.A., Appalachian State, 2002, Academic Advisor, Instructor

L. Baker Perry, Ph.D., North Carolina, 2006, Professor — climatology, precipitation, snow and ice, climate change, tropical Andes, southern Appalachians

Kathleen Schroeder, Ph.D., Minnesota, 1995, Professor — Latin America, gender, the global south

Elizabeth D. Shay, Ph.D., North Carolina-Chapel Hill, 2007, Assistant Professor — regional planning in rural and mountain environments, transportation equity, travel behavior and built environment

Song Shu, Ph.D., University of Cincinnati, 2019, Assistant Professor — remote sensing, lake hydrology, satellite radar and laser altimetry, cryosphere, digital mapping, geostatistical analysis

Pete Soule, Ph.D., Georgia, 1989, Professor — climatology, dendroclimatology, dendroecology, climate change

Mark D. Spond, Ph.D., Tennessee, 2011, National Park Service Liaison — biogeography, environmental history, public lands

Johnathan W. Sugg, Ph.D., North Carolina-Chapel Hill, 2017, Assistant Professor — cartography and geovisualization, climate variability and change, geographic communication

Margaret M. Sugg (Kovach), Ph.D., North Carolina-Chapel Hill, 2015, Assistant Professor — environmental health, geographic information systems, vulnerability and hazards to climate extremes

Saskia L. Van de Gevel, Ph.D., Tennessee, 2008, Professor — biogeography, vegetation dynamics and disturbance regimes, forest ecology

EMERITI FACULTY:

Ole Gade, Ph.D., Michigan State, 1972
William Imperatore, Ed.D., Georgia, 1970
Neal G. Lineback, Ph.D., Tennessee, 1970
H. Daniel Stillwell, Ph.D., Michigan State, 1961
James E. Young, Ph.D., Minnesota, 1994

EAST CAROLINA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING, and ENVIRONMENT

DATE FOUNDED: 1921

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 9/1/17-8/31/18: 34 Bachelors, 7 Masters

STUDENTS IN RESIDENCE: 3 B.A. Geography, 24 B.S. Geography, 23 Atmospheric Science, 20 GIST, 41 B.S. Community and Regional Planning, 18 Masters

CHAIR: Thad Waskiewicz

DEPARTMENT ADMINISTRATIVE ASST: Jolene Evans

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Planning and Environment, East Carolina University, Brewster A-227, Greenville, NC 27858. Telephone (252) 328-6230. Fax (252) 328-6054. Undergraduate Inquiries: Dr. Tom Rickenbach (rickenbach@ecu.edu). Graduate Inquiries: Dr. Rosana Ferreira (FERREIRAR@ecu.edu). View website at <https://geography.ecu.edu/>

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate tracks include the B.S. in Applied Geography with concentrations in either environmental or human aspects, the B.S. in Applied Atmospheric Science and the B.S. in Geographic Information Science and Technology. Department also houses the BS in Urban and Regional Planning.

At the graduate level the Department specializes in human geography, physical geography, spatial information technologies, and atmospheric science, and supports a variety of approaches within each of these areas. Faculty expertise is clustered around the following: *Sustainability and Environmental Justice; Environmental Geography; Geomorphology; Atmospheric Science; Geographic Information Science; Rural Development; and Coastal Management*. The department maintains fully equipped research and instructional laboratories. These include a sediment lab, atmospheric science lab, hydrodynamics lab, terrain analysis lab, and three labs devoted to G.I. Science and 3D visualization.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Semester system. Admission requirements are stated in the ECU Catalog. Students may declare an intended major in geography, geographic information science and technology, applied atmospheric science, or planning upon admission. The Department offers certificate programs in G.I. Science and atmospheric science.

GRADUATE: Semester system. Admission requirements are set forth in the Graduate Bulletin. Complete transcripts of all academic work are required, as are scores from the Graduate Record Examination. The graduate program is open to students with undergraduate degrees in geography or a closely related field. Assistantships are available to qualified students, the stipend for which is normally \$5,500 per semester. A limited number of out-of-state tuition waivers are available on a competitive basis from the Graduate School. In order to be eligible for a tuition waiver, students must apply to the Graduate School by February 1st. There are consistently graduate research assistantships available and these can be found on the department website. The MS program is designed to be completed in two years, and requires either (a) 30 hours of coursework in combination with a thesis in the student's area of expertise, or (b) 36 hours of coursework in combination with an internship. Concentrations in Planning and Rural Development are also available.

FACULTY:

Beth A. Bee, Ph.D., Pennsylvania State University, 2011, Assistant Professor — feminist theory, global change, international development

Hannah M. Cooper, Ph.D., Florida Atlantic University, Assistant Professor — GIS, remote sensing, coastal flooding, sea-level rise, wetlands

W.R. Scott Curtis, Ph.D., Wisconsin, 1998, Professor — hydrologic cycle, tropical climate variability, tropical storms, remote sensing

Paul A. Gares, Ph.D., Rutgers, 1987, Professor — aeolian and coastal geomorphology, environmental management, hazards

Robert Howard, M.A., East Carolina University, 2015, Research Associate — Web-based GIS, earth surface processes, geovisualization

Misun Hur, Ph.D., Ohio State University, 2008, Assistant Professor — planning, built urban environment, GIS and visualization

Scott A. Lecce, Ph.D., Wisconsin-Madison, 1993, Professor — fluvial and glacial hydrology, water resources, metallurgic contaminants

Burrell Montz, Ph.D., Colorado, 1980, Professor and Chair — natural hazards, water resources management, environmental and resource analysis

Anuradha Mukherji, Ph.D., U.C. Berkeley, 2008, Assistant Professor — housing, disaster recovery planning, international development

Karen Mulcahy, Ph.D., CUNY, 1999, Teaching Associate Professor — analytical cartography, GIS, Web cartography, municipal applications

Rosana Nieto-Ferreira, Ph.D., Colorado State, 1994, Associate Professor — tropical climate variability and prediction

Yoo Min Park, PhD, University of Illinois at Urbana-Champaign, 2019, Assistant Professor — Geographic Information Science (GIS), geospatial data analytics, environmental health, environmental justice, human mobility

Jacob Petersen-Perlman, PhD, Oregon State University, 2014, Assistant Professor — natural resources conflict and cooperation, water security, water governance, natural resources management

E. Jeffrey Popke, Ph.D., Kentucky, 1999, Professor — social theory, race and space, critical geopolitics, field methods, South Africa

Thomas Rickenbach, Ph.D., Colorado State, 1996, Associate Professor — tropical precipitation systems, convection and large scale circulation

Hong-Bing Su, Ph.D., U.C. Davis, 1997, Associate Professor — micrometeorology, biometeorology, remote sensing, numerical modeling

Sangwoo Sung, Ph.D., Georgia Institute of Technology, 2016, Assistant Professor — urban and environmental planning

Scott Wade, M.A., East Carolina, 1990, Instructor, ESRI-certified — GIS applications, computer cartography

Thad Waskiewicz, Ph.D., Arizona State University, 1996, Professor — 4D GIS, debris flows, alluvial fans, sUAS, Geomatics

Yong Wang, Ph.D., Santa Barbara, 1992, Professor — remote sensing, GIS, image processing and analysis technology, wetland modeling

ADJUNCT FACULTY:

Mulatu Wubneh, Ph.D., Florida State University, 1976, Professor — regional planning, planning techniques, capacity building

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1936

GRADUATE PROGRAM FOUNDED: 1936

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED (2017-2018): 39 B.A. (Majors, plus 44 Minors), 1 M.A., 5 Ph.D.

STUDENTS IN RESIDENCE: 83 Majors, 72 Minors, 39 M.A./Ph.D.

NOT IN RESIDENCE: 1 M.A./Ph.D.

CHAIR: Elizabeth Olson

DEPARTMENT ADMINISTRATIVE STAFF: Barbara Taylor; Nell Phillips; Daniel Warfield

FOR FURTHER INFORMATION CONTACT: Sara Smith
Director of Graduate Studies, Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3220.
Telephone: (919) 962-3875. Fax: (919) 962-1537. E-mail: shsmith1@email.unc.edu Internet: <http://geography.unc.edu/>.

PROGRAMS AND RESEARCH FACILITIES: UNC is recognized as one of the nation's leading public research and teaching institutions, with extensive and state-of-the-art resources, nationally and internationally recognized academic programs, and many outstanding research institutes and international studies centers. Geography at UNC offers the B.A., M.A., and Ph.D. degrees. The graduate program is organized around and focused primarily on the Ph.D. The Department also offers a Graduate Certificate in Geographic Information Sciences.

The Department of Geography offers a wide range of graduate teaching and research opportunities, with primary focus on five clusters of faculty and student activity:

- 1) *Biophysical Geography and Earth Systems Science.* UNC-Chapel Hill geographers investigate the biophysical environment as an integrated system emphasizing the linkages and feedbacks between terrestrial, aquatic and atmospheric form and function.
- 2) *Culture, Society, and Space.* This cluster of faculty and students focuses on various aspects of political economy, social change, social theory, cultural studies, gender studies, feminism, disciplinary history, and science, technology, and society. Many students in this cluster also take the Certificate in Cultural Studies.
- 3) *Geographic Information and Analysis.* UNC-Chapel Hill geographers apply geographic information sciences as an integrated set of spatial digital technologies to investigate biophysical and social phenomena. They use and develop tools, techniques, concepts, and data sets associated with geographic information systems, remote sensing, data visualization, global positioning systems, spatial analysis, and quantitative methods.
- 4) *Globalization and International Development.* UNC-Chapel Hill geographers study the consequences of processes of globalization (and the anti-globalization and global justice movements they stimulate); international development and its effects on the geographies of international and local capital, labor, technology, information, goods and services; post-socialism, political economy, political geography and geopolitics, and political ecology.
- 5) *Nature-Society Studies and Human-Environment Interactions.* Drawing on analytical and theoretical perspectives from ecology, socio-ecological systems, political ecology, science studies, and cultural studies, UNC-Chapel Hill geographers investigate the social contexts, drivers, and consequences of environmental change and struggles over land use and resources.

The Graduate Certificate Program in Geographic Information Sciences is a non-degree program for graduates comprising coursework in geographic information systems, remote sensing, quantitative methods, spatial analysis, global positioning systems, and data visualization. It is designed for students who wish to acquire technical expertise to support topical knowledge gained in their undergraduate and graduate programs and returning students who wish to acquire specialized education and training to meet current or future job requirements calling for knowledge in GISci.

Graduate Certificate Program in Cultural Studies. The University Program in Cultural Studies is a multi-disciplinary program that includes faculty and students from many departments, including Communication Studies, History, English, Romance Languages, Geography, and Anthropology. Students may complete the graduate certificate as part of their MA or Ph.D. program, taking courses in social and cultural theory and participating in working groups currently organized around cultures of economy, politics and democracy, science and technology, memory, and social movements.

Programmatic Facilities. Students have access to a broad spectrum of university facilities and research institutes. Cooperative programs with North Carolina State University and Duke University permit the use of their combined library holdings, courses, and facilities associated with course-work and research. The Odum Institute for Social Science Research offers regular short and longer training courses and workshops. Faculty and graduate students also have access to facilities and programs in many research centers and institutes, including the Carolina Population Center, Center for Urban and Regional Studies, Center for Galapagos Studies, Institute for the

Environment, and Center for Global Education with its many centers of regional and international studies.

ACADEMIC PLAN, GRADUATE ADMISSION REQUIREMENTS, AND FINANCIAL AID: We award both M.A. and Ph.D. degrees, but the major emphasis of our program is the Ph.D. Graduate application is through the Graduate School's online system where interest statements, CVs, and other documents can be uploaded: (http://gradschool.unc.edu/students_prospective.html). The deadline for receiving all application materials is January 1. The Department only admits students into the program in August. The process and necessary documents are detailed at the Department's Graduate application web page: <http://geography.unc.edu/programs/graduate>.

The Department offers merit-based research or teaching assistantships with competitive stipends, health care insurance, and a tuition waiver. Most graduate students are funded by the Department of Geography, by affiliated units, or by faculty research grants. In addition, University fellowships are available for graduate students with superior academic records. The Department also offers students opportunities to travel and conduct research through Departmental travel funds and the University has many opportunities for research funding through its many international and area studies centers.

RESEARCH AND TEACHING FACULTY:

Javier Arce-Nazario, Ph.D., Columbia University, 2006, Associate Professor — landscape history, GIS-remote sensing, translational geoscience, critical physical geography, water and sustainability
Xiaodong Chen, Ph.D., Michigan State, 2010, Associate Professor — human-environment interactions, modeling and simulation, GISci, environmental policy, China
Altha J. Cravey, Ph.D., Iowa, 1993, Associate Professor — international development, social theory, gender, Latin America
Paul Delamater, Ph.D., Michigan State, 2012, Assistant Professor — health and medical geography, access to health care, health care policy, spatial analysis, GIS
Michael Emch, Ph.D., Michigan State 1998, W.R. Kenan, Jr. Distinguished Professor — medical geography, spatial epidemiology, health & environment, GIS
Banu P. Gökarıksel, Ph.D., University of Washington, 2003, Associate Professor — urban, cultural and feminist geography, social theory, contemporary Muslim societies, Middle East
Clark Gray, Ph.D., University of North Carolina Chapel Hill 2008, Associate Professor — population, environment and development, survey and statistical methods
Elizabeth Havice, Ph.D., University of California, Berkeley 2009, Associate Professor — political economy and ecology, international development, environmental politics
Scott L. Kirsch, Ph.D., Colorado, 1997, Professor — historical, cultural, and political geography, history of science, social theory
Charles E. Konrad, Ph.D., Georgia, 1993, Professor — climatology, climate change, meteorology
Christian Lentz, Ph.D., Cornell University, 2010, Associate Professor — development, nature-society relations, agrarian studies, Southeast Asia
Jun Liang, Ph.D., University of Cincinnati, 2001, Teaching Assistant Professor — GIS, programming, cartography, urban modeling, remote sensing
Nina Martin, Ph.D., University of Illinois at Chicago, 2008, Associate Professor — urban geography, global cities, civil society, migration, labor markets and economic development
Aaron Moody, Ph.D., Boston, 1994, Associate Professor — conservation, landscape ecology, biogeography, remote sensing, GIS
Elizabeth Olson, Ph.D., Colorado, 2005, Professor and Chair — development practices, normativity and moral geographies, participatory methodologies, religion and secularization

John Pickles, Ph.D., Pennsylvania State, 1983, Daniel W. Patterson Distinguished Professor — globalization, political economy, post-socialism, social theory and geographic thought, Europe
Diego Riveros-Iregui, Ph.D., Montana State, 2008, Associate Professor — ecohydrology, watershed hydrology, biogeochemistry, land-atmosphere interactions, tropical hydrology, climate and land use cover change
Sara Smith, Ph.D., Arizona, 2009, Associate Professor — political, cultural, and feminist geography, intimacy, territory, and bodies, health politics, northern India
Conghe Song, Ph.D., Boston, 2001, Professor — remote sensing, ecosystem modeling, forest ecology, land use/land cover change, GISci
Gabriela Valdivia, Ph.D., Minnesota, 2005, Associate Professor — Latin America, environment, identity, and governance, critical resource geography, political ecology
Stephen J. Walsh, Ph.D., Oregon State, 1977, Lyle V. Jones Distinguished Professor — remote sensing, GIS, physical, land use change, human-environment interaction, spatial modeling
Erika Wise, Ph.D., Arizona 2009, Associate Professor — climatology, dendrochronology, water resources

PROFESSORS EMERITI:

Stephen S. Birdsall
Clyde Browning
John Florin
Wil Gesler
Richard Kopeck
Peter Robinson
Tom Whitmore

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

DEPARTMENT OF GEOGRAPHY AND EARTH SCIENCES

DATE FOUNDED: 1965

GRADUATE PROGRAM FOUNDED: 1973

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

DEGREES GRANTED 7/1/17 -6/30/18: 105 Bachelors, 25 Masters, 4 Doctorate

STUDENTS IN RESIDENCE: 321 Undergraduate Majors, 41 Masters, 30 Ph.D.

NOT IN RESIDENCE: 5 Masters, 5 Ph.D.

CHAIR: Deborah S.K. Thomas

DEPARTMENT OFFICE MANAGER: Teresa Cleveland

FOR ADMISSIONS SEE: Undergrad: <https://admissions.uncc.edu/>
Graduate: <https://gradadmissions.uncc.edu/>
International students should also see: <https://gradadmissions.uncc.edu/admissions/international-applicants>

FOR PROGRAM INFORMATION SEE: <http://www.geo-earth.uncc.edu>

ADDRESS OTHER CORRESPONDENCE TO: Department of Geography and Earth Sciences, University of North Carolina at Charlotte, 9201 University City Blvd., Charlotte, North Carolina 28223-0001. Telephone (704) 687-5973. Fax (704) 687-5966. Or feel free to contact: Earth Sciences Undergraduate Coordinator: Valerie Reynolds: vreyndol2@uncc.edu; Geography Undergraduate Coordinator: Jamie L. Strickland jstrickl@uncc.edu; Meteorology Undergraduate Coordinator: Terry Shirley trshirle@uncc.edu; Earth Sciences M.S. Coordinator: Sara Gagné sgagne@uncc.edu; Geography M.A. Coordinator: Gang Chen Gang.Chen@uncc.edu; Geographic Information Science and Technology Graduate Certificate

Coordinator: Eric Delmelle Eric.Delmelle@uncc.edu; Geography Ph.D. Director: Heather Smith heatsmit@uncc.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Earth Sciences offers a Ph.D. in Geography focused on three interconnected research themes: Urban and Regional Analysis, Earth and Environmental Systems, and GIScience. Combining technology, theory and advanced methods as well as professional development in the core curriculum, the doctoral program is designed to prepare graduates for research positions in the public and private sectors, as well as academic careers. The doctoral program builds upon and complements our strong, applied Master of Arts in Geography and our Master of Science in Earth Sciences. There are four areas of specialization within the M.A. in Geography. These include concentrations in GIScience and technology, location analysis and regional analysis. We also offer a track in community planning. Students who choose the community planning track are awarded a M.A. in Geography and complete a formally structured multi-disciplinary core, which includes coursework in geography, architecture, economics, and public administration. The M.S. degree in Earth Sciences offers multiple options for interdisciplinary training and research, particularly for students interested in environmental sciences. The graduate certificate in Geographic Information Science and Technology provides students in-depth training and education in GIS. Students are exposed to knowledge in cutting-edge geospatial theory, methods, and technologies, including GIS, spatial analysis, remote sensing, cartography, and geovisualization.

At the undergraduate level, the Department awards B.S. and B.A. degrees in Geography as well as a B.A. in Environmental Studies and B.S. degrees in Earth and Environmental Sciences, Geology, and Meteorology. Like the M.A. program in Geography, the baccalaureate curriculum at UNC Charlotte is focused on applied geography. Undergraduate concentrations in urban, social and economic geography; location analysis; urban and regional planning; and GIScience and Technologies attract large numbers of undergraduates. The university-wide minor in urban studies is also centered in the Department.

Situated in a rapidly growing and internationalizing metropolitan region, UNC Charlotte offers undergraduate, Masters, and Doctoral students a variety of opportunities for engagement in research, outreach and internship programs that allow them to apply their problem-solving skills in the public, private and non-profit sectors. Ultimately, student training and experiences have led to excellent placement rates with regional and national employers as well as in various programs of advanced study. In addition to teaching and research assistantships, the department provides opportunity for competitive students to be placed with a local company or agency in a paid internship as a part of their degree program.

The McEniry building is the home of the Department. Currently, the Department occupies the entire 93,000 sq. ft. building. With greatly expanded teaching, research, and office space, major facilities include two microcomputer laboratories, a GIScience laboratory featuring 43 PC workstations with a suite of geospatial, computational and remote sensing software (e.g. ESRI, ERDAS Imagine, Matlab). The Department also houses the Center for Applied Geographic Information Science (CAGIS), which provides support to faculty and students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: UNC Charlotte operates on the semester system. Admission requirements for undergraduate programs require graduation from an accredited secondary school, or equivalency certificate, and satisfactory combination of secondary school class rank and SAT or ACT score. Financial aid is available through the federal work-study programs, various loan programs, and several

types of scholarships. Undergraduate admission information and materials are available at: <https://admissions.uncc.edu/>.

Graduate Geography: Departmental graduate assistantships are awarded on a competitive basis to qualified students; we also strive to provide conference travel and summer support for qualified students. Doctoral assistantships carry competitive academic year stipends and can include healthcare insurance and a tuition waiver through the Graduate School. Competitive Master's assistantships are available and a limited number of out-of-state tuition fee adjustments are offered that substantially reduce non-resident students' tuition rates for Master's students. In addition to its allocation of teaching assistantships, the Department typically has a large number of research assistantships that are funded from faculty grants and contracts.

An official transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Geography major is not required, but those students who are deficient in the basic concepts and methods of Geography will be required to take prerequisite coursework. To receive full consideration for departmental funding, applications for the fall semester should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission in the spring semester are accepted throughout the year. Financial aid might be available for students who enter in the spring semester as well. Prospective Geography M.A. students are encouraged to contact the M.A. program coordinator. Prospective Ph.D. students are encouraged to contact the Ph.D. program director. All prospective graduate students are encouraged to contact faculty with whom they wish to work and, if possible, to visit the Department. Application forms can be downloaded from the Graduate School's website <https://gradadmissions.uncc.edu/>.

Graduate Earth Sciences: Departmental graduate assistantships are awarded on a competitive basis to qualified students; we also strive to provide summer support for qualified students. A limited number of out-of-state tuition fee adjustments are offered that substantially reduce non-resident Master's students' tuition rates. In addition to its allocation of teaching assistantships, the Department typically has a large number of research assistantships that are funded from faculty grants and contracts. Please see the Graduate School's website to apply: <https://gradadmissions.uncc.edu/>.

A transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Earth Sciences or Environmental Sciences degree is preferred but not required. Students who are deficient in the basic concepts and methods in their chosen field of study will be required to take prerequisite coursework. To be considered for departmental funding, applications for admission for the fall semester should be received by February 1. Funding may also be available to students admitted for the spring semester. Prospective graduate students are encouraged to contact the Earth Sciences Graduate Coordinator and consult faculty research at <https://geoeearth.uncc.edu/people>.

FULL AND PART-TIME FACULTY:

Craig J. Allan, Ph.D., York University, 1992, Professor — hydrology, biogeochemistry
Jake Armour, M.S., University of New Mexico, 2002, Senior Lecturer — paleoclimatology, soils
Andy R. Bobyarchick, Ph.D., SUNY at Albany, 1983, Associate Professor — structural and tectonic geology, the Appalachians
Harrison S. Campbell, Ph.D., Illinois at Urbana-Champaign, 1994, Professor — economic geography, regional development, regional analysis
Gang Chen, Ph.D. University of Calgary 2010, Associate Professor and Coordinator of the Geography Master's Program — remote sensing, human-environmental interactions

Sandra Clinton, Ph.D., University of Washington, 2001, Research Assistant Professor — river ecology, urban ecosystems and sustainability

Larriane Collins, Ph.D., University of South Carolina, 2018, Lecturer — geography education, geospatial technologies

Casey Davenport, Ph.D. North Carolina State University, 2011, Assistant Professor — severe weather meteorology

Elizabeth C. Delmelle, Ph.D. UNC at Charlotte, 2012, Assistant Professor — GIS, urban geography, transportation, spatial analysis and modeling

Eric Delmelle, Ph.D. SUNY at Buffalo, 2005, Associate Professor — GIS, space-time modeling, epidemiology, uncertainty

John A. Diemer, Ph.D., SUNY at Binghamton, 1985, Professor — sedimentology, stratigraphy, environmental geology

Mathew D. Eastin, Ph.D. Colorado State University 2003, Associate Professor — tropical meteorology, atmospheric observation

M.C. Eppes, Ph.D., University of New Mexico, 2002, Professor — soils, paleoenvironments

Michael C. Ewers, Ph.D., The Ohio State University, 2010, Assistant Professor — economic geography, migration, international development, Middle East

Patricia Fall, Ph.D., University of Arizona, 1988, Professor — biogeography, paleoecology, human impact on ancient environments

Sara Gagné, Ph.D. Carleton University, 2009, Associate Professor and Coordinator of the Earth Sciences Master's Program — landscape ecology

William J. Garcia, ABD, Ph.D. Candidate, University of Cincinnati, Senior Lecturer/Lab Coordinator and Department Associate Chair — early amphibian evolution, Paleozoic biogeography

Laurie Garo, Ph.D., University of North Carolina at Charlotte, 2017, Lecturer — cartography, GIS applications

William W. Graves, Ph.D., University of Georgia, 2000, Associate Professor — economic, urban, transportation

Colleen Hammelman, PhD. Temple University, 2016, Assistant Professor — urban agriculture, sustainability, ecological gentrification, migration, gender

Scott P. Hippensteel, Ph.D., University of Delaware, 2000, Associate Professor — environmental geology, marine environments

Joseph Kangmemaang, Ph.D., University of Waterloo, 2019, Assistant Professor — medical and health geography, global health, Africa

Brian Magi, Ph.D. University of Washington Seattle 2006, Associate Professor — biogeophysical modeling, atmospheric sciences, global change

Isabelle Nilsson Ph.D. University of Toledo, 2015, Assistant Professor — regional development, industry/firm location behavior, transportation, policy

Valerie S. Reynolds, PhD., University of Tennessee Knoxville, 2005, Lecturer and Coordinator of Undergraduate Earth and Environmental Science Programs — geology

Jacob (Jack) Scheff, PhD, University of Washington, 2014, Assistant Professor — hydrosclimate change, climate dynamics over land, atmospheric circulation

Terry Shirley, M.S., Pennsylvania State University 2004, Senior Lecture and Undergraduate Coordinator of Atmospheric Science Programs — synoptic meteorology and forecasting

Heather A. Smith, Ph.D., University of British Columbia, 2000, Professor and Director, Urban Studies Minor and Director of Geography Ph.D. Program — urban, social, global/local restructuring, immigration

Janni Sorensen, Ph.D. University of Illinois, 2007, Associate Professor — neighborhood planning, service learning, planning theory

Jamie Strickland, ABD, University of Georgia., Senior Lecturer and Coordinator of Undergraduate Geography Programs — population, aging, geography education

Wenwu Tang, Ph.D. University of Iowa 2008, Associate Professor and Director of Center for Applied GISciences — geospatial analysis

Jean-Claude Thill, Ph.D., Universite Catholique de Louvain, 1988, Knight Distinguished Professor of Public Policy — geographic information science and transportation, industrial, location theory

Deborah S.K. Thomas, Ph.D., University of South Carolina 1999, Professor and Department Chair — disasters, environmental health, global health, human-environment interaction, East Africa

David Vinson, Ph.D., Duke University, 2011, Assistant Professor — hydrogeology, isotope geochemistry

Wei-Ning Xiang, Ph.D., University of California at Berkeley, 1989, Professor — GIS, urban and regional planning

EMERITI PROFESSORS:

John F. Bender
Owen J. Furuseth
David T. Hartgen
Gerald L. Ingalls
Sallie M. Ives
J. Dennis Lord
Walter E. Martin
Tyrrel G. Moore
Nelson Nunnally
Norman W. Schul
John Sommer
Wayne A. Walcott

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT, AND SUSTAINABILITY

DATE FOUNDED: 1940

DEGREES OFFERED: B.A., M.A., Ph.D.

DEGREES GRANTED 9/1/17– 8/31/18 13 Bachelors, 4 Masters, 5 Doctoral

MAJORS: 76 Undergraduate Geography, 109 Environment & Sustainability, 14 Masters, 26 Doctoral

CHAIR: Corey M. Johnson

PROGRAM ADMINISTRATIVE ASSISTANT: Lois S. Carney

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Corey M. Johnson (E-mail corey_johnson@uncg.edu), Department of Geography, Environment, and Sustainability, Room 237 Graham Building, The University of North Carolina at Greensboro, Greensboro, North Carolina 27402-6170. GRADUATE DIRECTOR: Selima Sultana (E-mail: s_sultan@uncg.edu), Director of Graduate Studies, Department of Geography, Environment, and Sustainability, Room 237 Graham Building, The University of North Carolina at Greensboro, Greensboro, North Carolina 27402-6170. Telephone: (336)-334-5388, Fax (336)-334-5864. Internet: <https://ges.uncg.edu>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography, Environment, and Sustainability houses undergraduate programs in geography, environmental studies, and sustainability studies. The name of the Department was changed in 2018 to reflect the merger of the Department of Geography with the Environmental & Sustainability Studies Program. The major in geography has the following objectives: to promote the understanding of the locational dimensions of human behavior in their environmental context; to offer a curriculum where geographic concepts and methods are applied to understanding economic, environmental and social problems at the urban and regional scale; and to promote international understanding through area studies. The Environment & Sustainability Program is an interdisciplinary program that fosters understanding of the

relationships between human societies and the natural, physical, and biological settings in which life on Earth exists. The Environment & Sustainability Program offers three B.A. degree options: Environmental Studies, Sustainability Studies, and an honors track in Environmental & Sustainability Studies. These degrees integrate perspectives of the natural sciences, social sciences, and arts and humanities. All of the Department's baccalaureate offerings complement a student's liberal education with specialized and practical training relevant for jobs in both the private and public sectors.

Graduating majors of the department have found careers in business and industry, urban and regional planning agencies, departments and agencies of the state and federal government, environmental NGOs, and in teaching.

Special facilities of the department include the Carolina Tree-Ring Science Laboratory, the Soil and Regolith Laboratory, two fully-equipped GIS classrooms/laboratories (each with 20+ stations) and the Remote Sensing Research Laboratory.

At the graduate level, the Department offers an M.A. in Applied Geography and Ph.D. in Geography. For the Master's degree, students have the option of choosing from one of three areas of emphasis: **Urban Planning, Transportation and Regional Economic Development; Earth Science and Natural Resource Management; and Geographic Information Science.**

The Ph.D. in Geography provides advanced training that focuses on research-oriented applications of geographical concepts to solving real-world problems. The degree culminates in one of two projects: the traditional dissertation, or a three article option. The program has a strong record of placing graduates in positions in the public and private sectors, as well as to university teaching and research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission for undergraduates is located at <https://admissions.uncw.edu/apply/>. You can apply online for the Master's in Applied Geography and the Ph.D. in Geography at <https://gradapply.uncw.edu/apply/>.

FACULTY:

Aaron S. Allen, Ph.D., Harvard, 2006, Associate Professor and Director, Environment & Sustainability Program — ecomusicology, sustainability, environmentalism
Ricky L. Bunch, Ph.D., South Carolina, 2000, Professor — GIScience, spatial cognition
Keith G. Debbage, Ph.D., Georgia, 1988, Professor — urban planning, regional development, tourism
Mary B. Hall-Brown, Ph.D., UNC Greensboro, 2012, Senior Lecturer/Physical Lab Director — GIScience, agriculture
Evan B. Goldstein, Ph.D., Duke, 2014, Research Scientist — coastal geomorphology, machine learning, human-landscape systems
Corey M. Johnson, Ph.D., Oregon, 2008, Professor and Department Head — political geography, borders, geopolitics
Paul A. Knapp, Ph.D., Georgia, 1989, Professor — biogeography, climatology, dendroecology
G. Jay Lennartson, Ph.D., Wisconsin-Milwaukee, 1997, Senior Lecturer and Director of Undergraduate Studies — environmental planning, environmental hazards, climatology and meteorology
Wenliang Li, Ph.D., Wisconsin-Milwaukee, 2016, Assistant Professor — GIScience, remote sensing, land use and land cover change
Zhi-Jun Liu, Ph.D., Iowa, 1995, Associate Professor — environmental geography, GIS, spatial statistics, hydrologic/ecological modeling
James A. Nelson, M.S., San Diego State, 1999, Senior Academic Professional/Lab Director — GIS, urban
Jeffrey C. Patton, Ph.D., Kansas, 1980, Professor — cartography, GIS, physical geography

Sarah Praskievicz, Ph.D., Oregon, 2014, Assistant Professor — climatology, hydrology, fluvial geomorphology
P. Daniel Royall, Ph.D., Tennessee, 1997, Associate Professor — geomorphology, soils, water resources, quaternary environments
John G. Stehlin, Ph.D., Berkeley, 2015, Assistant Professor — economic geography, urban sustainability, transportation
Roy S. Stine, Ph.D., South Carolina, 1991, Associate Professor — remote sensing, geographic information systems
Selima Sultana, Ph.D., Georgia, 2000, Professor — transportation, urban geography, GIS

UNIVERSITY OF NORTH CAROLINA WILMINGTON

DEPARTMENT OF EARTH AND OCEAN SCIENCES

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 9/1/17-8/31/2018: 41 Bachelors, 18 Masters

STUDENTS IN RESIDENCE: 138 Bachelors, 40 Masters

CHAIR: Doug Gamble

DEPARTMENT ADMINISTRATIVE STAFF: Lorenda Heathcock, Sarah Woods, and Yvonne Marsan

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Earth and Ocean Sciences, University of North Carolina Wilmington, DeLoach Hall 102, Wilmington NC 28403. Telephone (910) 962-3790. Fax (910)962-7077. Undergraduate inquiries: Dr. Scott Nooner (nooners@uncw.edu). Graduate Inquiries: Dr. Joanne Halls (hallsj@uncw.edu). View website at <http://www.uncw.edu/earsci>.

PROGRAMS AND RESEARCH FACILITIES: Undergraduate tracks include a B.A. Geography, B.A. Geoscience, B.S. Geology, and B.S. Oceanography, along with minors in Geography, Geospatial Technologies, and Geology. At the graduate level, the department offers the M.S. Geoscience including a geospatial concentration (both thesis and non-thesis options), and a Certificate in GIS. Faculty expertise is in geospatial technologies (environmental GIS and remote sensing) physical geography (climatology, geomorphology, paleoenvironments), human-environment interactions, and coastal science.

The department maintains fully equipped research and instructional laboratories. These include laboratories devoted to soils and sediments, climatology and hydrology, remote sensing and GIS, petrology, paleontology, geochemistry, and geophysics. The department also has access to laboratories at UNCW's Center for Marine Science, a multidisciplinary space set on the Intracoastal Waterway.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Information about financial aid can be found at <https://www.uncw.edu/finaid/>

UNDERGRADUATE: Semester system. Admission requirements are stated in the [UNCW Catalogue](#). Students may declare an intended major in geography, geoscience, geology, or oceanography upon admission. The department also offers undergraduate minors in geography and geospatial technologies.

GRADUATE: Semester system. Admission requirements are stated in the [UNCW Catalogue](#). The M.S. Geoscience program includes concentrations in geology, geospatial science, or earth processes and global change. The program includes thesis and non-thesis options, both of which provide a foundation for employment in the geological, geospatial and environmental fields, mineral and energy industries, and government agencies. A graduate certificate is also offered in

Geographic Information Science. The department offers teaching assistantships on a competitive basis. Out-of-state tuition remissions are available for those on teaching assistantships.

FACULTY:

Michael Benedetti, Ph.D., Professor of Geography — physical geography, geomorphology, quaternary science, geoarchaeology
David Blake, Ph.D., Associate Professor of Geology — petrology, structural geology, geologic mapping
Doug Gamble, Ph.D., Department Chair/Professor of Geography — applied climatology, hydrology, island environments of the Caribbean and Southeastern US
Eman Ghoneim, Ph.D., Associate Professor of Geography — physical geography, remote sensing and GIS, geomorphology, natural hazards
Joanne Halls, Ph.D., Associate Professor of Geography — geospatial science, coastal environments, spatial models and data error simulations
Peter Haproff, Ph.D., Assistant Professor of Geology — active tectonics, structural geology, stratigraphy, field mapping
Andrea Hawkes, Ph.D., Associate Professor of Geology — paleoenvironmental reconstruction, hazards, sea level change
Elizabeth Hines, Ph.D., Associate Professor of Geography — Southern culture, geography and race, cartography
Sharon Hoffman, Ph.D., Assistant Professor of Geology — paleoceanography, geochemistry, deep ocean circulation
Todd LaMaskin, Ph.D., Associate Professor of Geology — stratigraphy, sedimentology, and tectonic events
Chad Lane, Ph.D., Associate Professor of Geography — paleoenvironmental change, geochemistry, prehistoric human-environmental interaction
Richard Laws, Ph.D., Professor of Geology — modern coastal environments, biostratigraphy
Lynn Leonard, Ph.D., Professor of Geology — physical sedimentology, coastal environments, marine geology
Ai Ning Loh, Ph.D., Associate Professor of Oceanography — isotope and organic geochemist, water quality
Joe Long, Ph.D., Associate Professor of Oceanography — coastal hazards, observation, modelling & forecasts
Patti Mason, Lecturer — taxonomy, micropaleontology, paleoecology, biostratigraphy
Scott Nooner, Ph.D., Professor of Geology — geophysical field techniques, numerical modeling, deformation on land and marine environments
Narcisa Pricope, Ph.D., Associate Professor of Geography — geospatial science, remote sensing, land change science, human-environment modelling
Roger Shew, Lecturer — sedimentology, stratigraphy, coastal environments, subsurface methods, science education
Michael Smith, Ph.D., Professor of Geology — petrography, geoarchaeology, geologic history
Peter Zamora, Ph.D., Assistant Professor of Geology — hydrology, groundwater-surface water interactions, geophysical and geochemical techniques

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

DEPARTMENT OF GEOGRAPHY & GEOGRAPHIC INFORMATION SCIENCE (GISc)

DATE FOUNDED: 1885 (Curriculum in Geology); 1942 (Independent)

GRADUATE PROGRAM FOUNDED: 1920

DEGREES OFFERED: B.A. and B.S. in Environmental Studies, B.S. in Geography; Undergraduate Minor in Geospatial Technologies, Geography; M.A., M.S. in Geography; Graduate Certificate in Geographic Information Science

GRANTED 7/1/17-6/30/18: 12 Bachelors, 4 Masters, 15 GISc

STUDENTS IN RESIDENCE: 12 Majors, 9 Masters, 19 Minors

NOT IN RESIDENCE: 9 GISc Graduate Certificate

CHAIR: Gregory Vandeberg

GRADUATE AND GISc CERTIFICATE DIRECTOR: Enru Wang

DEPARTMENT ADMINISTRATIVE ASST: Pamela Nielsen

FOR CATALOG AND FURTHER INFORMATION

CONTACT: Chair, Department of Geography & GISc, University of North Dakota, 221 Centennial Drive, Stop 9020, Grand Forks, North Dakota 58202-9020. Telephone (701) 777-4246. Fax (701) 777-6195. E-mail: gregory.vandeberg@und.edu. Internet: <https://arts-sciences.und.edu/academics/geography/index.html>

PROGRAMS AND RESEARCH FACILITIES:

UND awards a Bachelor of Science degree with a Major in Geography with two tracks: Global Human Environment; and Geospatial Science (37 semester hours each). UND also offers Bachelor of Arts and Bachelor of Science degrees in Environmental Studies (45 semester hours each) within the Geography & GISc Department. Graduate degrees awarded include the Master of Arts and Master of Science (thesis and non-thesis options). Graduate students develop a systematic interest, demonstrate knowledge of basic research tools and geographic techniques, and complete a minor or cognate in another discipline. Related disciplines across campus include education, earth system science and policy, business, finance, anthropology, Indian studies, geology, space studies, public administration, atmospheric sciences, and fisheries and wildlife biology. A graduate certificate program in Geographic Information Science is also offered.

The Geography & GISc Department houses a spatial analysis laboratory with a full range of image processing and GIS hardware and software. The department also has a physical geography wet lab. A variety of field equipment is also available for field research projects. Faculty techniques interests include GISc, remote sensing, computer-assisted cartography, field methods, and quantitative techniques. Faculty systematic areas cover biogeography, climatology, geomorphology, hydrology, economic development, geographic education, economic, historical, population, transportation, and urban, while regional specialties include Canada, Europe, North America and China.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: For the most up-to-date information about undergraduate admissions and financial aid, please see <https://und.edu/>.

Graduate: Entering graduate students must have completed an undergraduate major and hold a Bachelors degree in geography or a closely related field from a recognized institution. Applicants are evaluated on an individual basis, however, and those with limited background in geography may be accepted on a qualified basis with the understanding that deficiencies will be remedied early in their graduate program. Admission to approved status requires a minimum GPA of 3.00 in all undergraduate work, a minimum of 9 semester hours of undergraduate work in geography and 6 credits cognate to geography. Admission to the GISc certificate program requires a

minimum GPA of 2.75 in all undergraduate work and is open to all students regardless of their background in geography. Financial assistance is available to graduate students in the form of graduate teaching and research assistantships, tuition waivers, or a combination of the two. Assistantships carry up to a nine-month stipend of \$15,504 with a full tuition waiver.

FACULTY:

Christopher J. Atkinson, Ph.D., Kansas, 2010, Assistant Professor — climatology, GIS, Great Plains

Mbongowo Joseph Mbuh, Ph.D., George Mason University, 2015, Lecturer — remote sensing and geospatial technologies for Earth Systems

Douglas C. Munski, Ph.D., Illinois, 1978, Professor — historical, geographic education, tourism, Canada, North Dakota

Bradley C. Rundquist, Ph.D., Kansas State, 2000, Professor — remote sensing, GIS, biogeography

Paul E. Todhunter, Ph.D., UCLA, 1986, Professor — climatology, hydrology, environmental hazards, human impacts

Gregory S. Vandeberg, Ph.D., Kansas State, 2005, Professor — water resources, GIS, glaciology, fluvial & glacial geomorphology

Enru Wang, Ph.D., Washington, 2005, Associate Professor — economic, regional development, urban, China, GIS

ADJUNCT FACULTY:

Gary Hart, Ph.D., Washington, 1985, Professor (Director, Center for Rural Health, School of Medicine, University of North Dakota) — medical geography

Philip J. Gerla, Ph.D., Arizona, 1983, Associate Professor (Geology and Geological Engineering, University of North Dakota) — hydrology

Rebecca L. Phillips, Ph.D., North Carolina, Research Plant Physiologist (Ecological Insights Corporation, Mandan, ND) — ecosystem biochemistry, remote sensing

Jeffrey A. VanLooy, Ph.D., Utah, 2007, Associate Professor (Earth Systems Science and Policy) — glaciology, water resources, fluvial geomorphology, remote sensing

EMERITUS FACULTY:

Devon A. Hansen, Ph.D., Utah, 1999, Associate Professor — population, migration, gender issues, community development, Great Plains

Mohammad Hemmasi, Ph.D., Indiana University, Professor

FOR FURTHER INFORMATION: See <http://www.kent.edu/geography/> or Department of Geography, 413 McGilvrey Hall, Kent State University, Kent, Ohio 44242, USA.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at Kent State University offers BA, MA, and PhD degrees in Geography, and an interdisciplinary BA in Environmental Studies. We also offer a fully online Master of GIS, with concentrations in Cyber GIS, Environmental GIS, and GIS and Health. The department's mission is to provide an inspirational environment for the pursuit of geographic knowledge. Our faculty research seeks to promote positive social and environmental change, with a focus on interdisciplinary applications and collaboration. We work at the intersection of global and local: while our research sites span five continents, we also work locally to apply our geographic knowledge to problem-solving at the community level. We aim to prepare students for successful careers by giving them a strong theoretical base along with the ability to apply their knowledge, particularly using state-of-the-art geospatial technologies. Student engagement and experiential learning are a priority: from active participation in departmental research, to community-based projects, to frequent study-away and field-based research opportunities.

Research facilities include a 1.7 million volume library, the University map collection (over 200,000 sheets), and university and statewide online library information and research database system. Computing facilities in the department include three state-of-the-art teaching laboratories housing over 80 computers, and several research laboratories for atmospheric research, applied geography, GIS health and hazards, and social science computation. Software currently running with site licenses includes ArcInfo, ArcGIS, ArcGIS Server, ArcSDE, ArcIENVI, ERMMapper, PCI Geomatica, ERDAS, eCognition, SPSS, SAS, MapInfo, Matlab, NVivo, Surfer, Terrset, Adobe Illustrator and Adobe Photoshop, among others. Additional facilities and equipment include access to a suite of supercomputers in the Ohio Supercomputer Center and a Physical Geography Laboratory.

The department is housed in McGilvrey Hall and shares the building with the Department of Geology, the School of Peace and Conflict Studies, and the University Map Library. Situated in a small, thriving city within urbanized northeast Ohio, Kent State University has ready access to a variety of research environments: large cities, small towns, agricultural regions, the Great Lakes and the Appalachian highlands and other environmentally-sensitive areas.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Kent State University operates on a semester system.

Undergraduate: KSU will accept either ACT or SAT scores. All candidates for the B.A. degree must complete the University Liberal Education Requirements, including course work in one foreign language. The Geography major requires a minimum of 44 semester hours. These hours consist of 26 hours of core geography courses and at least 18 hours which may be selected from one of the following concentrations in Social Geography, Environmental Geography, and Geographical Information Sciences. The Environmental Studies major requires a minimum of 40 semester hours. These hours consist of interdisciplinary core required courses, as well as electives from Natural Science, Methods, and Social Science categories.

Interdisciplinary minor and certificate programs in Geographic Information Science, Urban Studies and Planning, and Climate Change are offered through the Department. Internships in these programs are available. Both a Geography Club and Gamma Theta Upsilon are active.

Graduate: All applicants for admission to the graduate programs must meet the requirements of the Graduate College and satisfy the

OHIO

KENT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1935

DEGREES OFFERED: B.A., M.A., M.G.I.S., Ph.D.

GRANTED 6/1/17-5/31/18: 16 B.A., 3 M.A., 4 M.G.I.S., 2 Ph.D.

STUDENTS IN RESIDENCE: 60 B.A. Geography, 105 B.A. Environmental Studies, 10 M.A., 30 Ph.D.

NOT IN RESIDENCE: 4 M.A., 54 M.G.I.S., 9 Ph.D.

CHAIR: Scott Sheridan

GRADUATE COORDINATOR: David Kaplan

UNDERGRADUATE COORDINATOR: Jennifer Mapes

DEPARTMENTAL SECRETARY: Mary Lou Church

GRADUATE SECRETARY: Judy Wearden

graduate faculty of the Department that they have the capability of pursuing graduate level studies. A minimum grade point average of 3.0 on a 4.0 scale or its equivalent is required for regular admission (a 3.3 undergraduate GPA and a 3.5 graduate GPA is strongly encouraged). For non-native speakers, minimum TOEFL scores of 79 or IELTS scores of 6.5 are required for admission; minimum TOEFL scores of 94 or IELTS scores of 7.0 are required for funding. Applicants are normally expected to have the equivalent of a Geography minor, 24 credit hours (for M.A. program), or M.A. in Geography (for Ph.D. program). Deficiencies may be made up after admission. A minimum of thirty (30) hours of credit are required for the M.A. and M.G.I.S. degrees. Sixty semester hours beyond the Masters degree are required for the Ph.D., with thirty of these credits assigned to the dissertation.

Financial aid is available in the form of graduate teaching assistantships, research assistantships, and university fellowships. All appointments provide a remission of most fees. Applicants are asked to apply by February 1st for fall enrollment. Submit applications on line: <http://www.kent.edu/admissions/Apply/>.

FACULTY:

- Kay Amey, Ph.D., Kent State, 2011, Assistant Professor (Ashtabula Campus)* — hydrology, environmental geology, hydrogeology, environmental geography
- Timothy Assal, Ph.D., Colorado State, 2014, Assistant Professor* — remote sensing, ecosystem disturbance, vegetation dynamics, biogeography, natural resources management, landscape ecology
- Mary Ann Haley, Ph.D., Kent State, 1985, Assistant Professor and Associate Dean* — economic development, industrialization, North America, Europe, Post-Soviet Eurasia
- David H. Kaplan, Ph.D., Wisconsin, 1991, Professor and Graduate Coordinator* — nationalism and ethnicity, French and Italian geography, urban planning, transportation, segregation
- Cameron C. Lee, Ph.D., Kent State, 2014, Assistant Professor* — applied climatology, synoptic climatology, climate change, climate-ocean interaction
- Jay Lee, Ph.D., Western Ontario, 1989, Professor* — GIS, geospatial analysis, urban operations research, geography of China, spatial and temporal simulation
- Jennifer Mapes, Ph.D., Southern California, 2009, Associate Professor and Undergraduate Coordinator* — small towns, sustainability, planning, community economics, visualization and interactive mapping
- Mandy J. Munro-Stasiuk, Ph.D., Alberta, 1999, Professor and Associate Provost* — glacial environments, remote sensing, geoarchaeology, karst environments
- Christopher W. Post, Ph.D., Kansas, 2006, Associate Professor (Stark Campus)* — cultural landscape, historical geography, North America, commemorative justice, company towns
- Rebecca P. Ruthrauff, Ph.D., Texas State, 2009, Associate Professor* — physical geography, climatology, precipitation trends
- Thomas W. Schmidlin, Ph.D., Cornell, 1984, Professor* — weather and climate, natural hazards and disasters, severe weather
- Andrew E. Scholl, Ph.D., Pennsylvania State University, 2008, Assistant Professor and Program Director (M.G.I.S.)* — biogeography, landscape ecology, vegetation dynamics, environmental geography, GIS, remote sensing
- Scott C. Sheridan, Ph.D., Delaware, 2000, Professor and Chair* — climate and health, climate change, synoptic climatology, extreme temperature events
- Sarah L. Smiley, Ph.D., Kansas, 2007, Associate Professor (Salem Campus)* — sub-Saharan Africa, urban geography, cultural geography
- James Tyner, Ph.D., Southern California, 1995, Professor* — political, population, gender and race
- Emariana Widner, Ph.D., Texas State, 2009, Associate Professor* — biogeography, urban ecology, environmental geography, computational modeling

MIAMI UNIVERSITY OF OHIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1906

GRADUATE PROGRAM FOUNDED: 1929

DEGREES OFFERED: Certificate in GIScience, A.B. in Geography and Sustainable Development, A.B. in Urban and Regional Planning, M.A.

GRANTED 8/1/18-5/31/19: 37 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 105 Geography and Urban & Regional Planning Majors, 9 Masters

CHAIR: Marcia England

DEPARTMENT ADMINISTRATIVE ASST: Debra C. White

FOR FURTHER INFORMATION WRITE TO: *A.B. in Geography:* Mary C. Henry; *A.B. in Urban and Regional Planning:* David L. Prytherch; *Graduate:* Jessica McCarty, Department of Geography, Miami University, Shideler Hall, Oxford, Ohio 45056. Telephone (513) 529-5010. Fax (513) 529-1948. E-mail: geography@MiamiOH.edu. Internet: www.MiamiOH.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES:

The department offers five academic programs. Four undergraduate programs include majors and minors in both Geography and Sustainable Development, and Urban and Regional Planning. The department also offers an undergraduate and graduate level Certificate in GIScience. The Master of Arts in Geography is a broadly conceived professional curriculum for students intending to pursue doctoral study or a professional career in the public or private sector. The 36-hour program consists of three parts: a common core in geographical methods and research; individualized courses reflective of student needs and departmental expertise; and a thesis or internship. Students are encouraged to take coursework in cognate disciplines. In addition, Geography faculty are participants in an interdisciplinary PhD program in Ecology, Evolution, and Environmental Biology.

The Geography Department at Miami University has comprehensive GIScience computing facilities to support instruction and research in geography. These facilities include one 26-seat state of the art GIS and remote sensing focused computer lab with ESRI, ENVI, ERDAS, and Idrisi spatial analysis software installed. The department also has an additional 26 seat instructional computer lab for teaching courses with geospatial content. The Geospatial Analysis Center (GAC) is also housed within the Geography Department. The Center is home to instruction, research, and contract work related to geospatial technologies. The University has field research facilities to support environmental research at the Ecology Research Center and other sites. An endowment provides significant support for students' research expenses.

Undergraduate majors may take coursework in Miami University's European Center in Luxembourg. The department also has ties to Universities of Ghana & Nairobi.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: *Academic Plan:* Semester System. *Admission Requirements:* High school record, ACT and/or SAT scores, and recommendation of the high school. *Financial Aid:* Contact the Office of Student Financial Aid. The Department offers four awards: an award for the Outstanding New Geography Major, The Arthur "Art" Limbird award for the Outstanding Sophomore in Geography, The Henry M. Kendall Award for the Outstanding Junior in Geography, and the Richard G. Lieberman Award for the Outstanding Senior in Geography.

Graduate: *Academic Plan:* Semester System. *Admission Requirements:* Bachelor's degree from an accredited college or university; cumulative minimum grade point average of 2.75 (of a possible 4.0); departmental approval. *Financial Aid:* Graduate assistantships: the 2018-2019 stipends are \$16,538 plus remission of 93% of the comprehensive fee and the full out-of-state tuition surcharge (if applicable) for the length of their appointment. Of this annual stipend, \$14,438 is received during the nine-month academic year and the balance of \$2,100 is for Graduate Summer Fellowships (G.A.s must apply for the latter). All G.A.s must pay the technology fee, the transit fees, Armstrong Center fees, and facilities fees (\$1,689 for 2018-2019). *Grants-in-aid:* Tuition.

FACULTY:

Hays Cummins, Ph.D., Texas A&M, 1984, Professor and Distinguished Educator — coral reef and tropical ecology, ecological restoration, global change, conservation, science pedagogy

Bruce D'Arcus, Ph.D., Syracuse, 2001, Associate Professor — political and cultural geography, social theory, public space

Amélie Davis, Ph.D., Purdue University, 2009, Associate Professor, Geography & Institute for the Environment & Sustainability — human-environment interactions, landscape sustainability science, ecosystem services, environmental land use planning, landscape ecology, GIS

Marcia England, Ph.D., Kentucky, 2006, Associate Professor and Chair — access to urban public space, urban media and marginalized populations, popular culture, geographies of the body, reproductive geographies

Bartosz Grudzinski, Ph.D., Kansas State, 2014, Assistant Professor — human-environmental interactions, watershed processes, land use impacts on aquatic ecosystems

Mary C. Henry, Ph.D., Arizona, 2002, Associate Professor — biogeography, remote sensing, fire ecology, landscape ecology

Susan Jakubowsky, Ph.D., University of Cincinnati, 2014, Assistant Teaching Professor — civic engagement, legal geography, public space

Ziying Jiang, Ph.D., Clark University, 2010, Associate Professor, Miami University Regionals — land change science, GIS, remote sensing

John K. Maingi, Ph.D., Arizona, 1998, Associate Professor — remote sensing, GIS, forest ecology

Jessica McCarty, Ph.D., University of Maryland, College Park, 2009, Assistant Professor — geospatial analytics, remote sensing, land-cover/land-use change, fire emissions, agriculture and food security, climate, sustainable development

Roxanne Ornelas, Ph.D., University of Minnesota, 2007, Associate Professor, Department of Geography — indigenous peoples geographies, human rights, public policy, environment, feminist theory

David L. Prytherch, Ph.D., Arizona, 2003, Professor — urban, political, cultural geography, urban planning & sustainability, Europe, North America

Damon Scott, Ph.D., University of Texas at Austin, 2008, Assistant Professor, Geography and American Studies — urban historical geography, gender and sexuality, urban planning history, cultural landscape change

Yelizaveta Skryzhevskaya, Ph.D., Idaho, 2007, Associate Professor, Miami University Regionals — human and social geography, regional development, GIS, Eastern Europe including post-Soviet countries

Stanley W. Toops, Ph.D., Washington, 1990, Associate Professor, Geography and International Studies — East Asia, Inner Asia, development, ethnicity, tourism

Ian E.A. Yeboah, Ph.D., Calgary, 1994, Professor, Geography — globalization, urbanization, migration, development, poverty, Sub-Saharan Africa

VISITING/ADJUNCT FACULTY:

Scott Reinemann, Ph.D., Ohio State University, 2013, Visiting Assistant Professor — physical geography, paleoclimatology, biogeography

AFFILIATED FACULTY AND STAFF:

Robbyn Abbitt, MS, University of Idaho, 1999, GIS Coordinator, GISP — natural resource management, conservation, local land use planning, water resources, food accessibility

EMERITI FACULTY:

Robert S. Bacon, Ph.D. (Psychology), Nebraska, 1955, Ph.D. (Geography), Colorado, 1975, Professor Emeritus

Jerry E. Green, Ph.D., North Carolina, 1976

John C. Klink, Ph.D., Minnesota, 1974, Professor Emeritus

Howell C. Lloyd, Ph.D., Northwestern, 1964, Professor Emeritus

Kimberly E. Medley, Ph.D., Michigan State, 1990, Professor Emeritus

William H. Renwick, Ph.D., Clark, 1979, Professor Emeritus

James M. Rubenstein, Ph.D., Johns Hopkins, 1975, Professor Emeritus

Richard V. Smith, Ph.D., Northwestern, 1957, Professor Emeritus

Joseph T. Urell, Ph.D., University of Cincinnati, 1972, Professor Emeritus

Cyrus W. Young, Ph.D., Michigan State, 1974, Professor Emeritus

THE OHIO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1907

GRADUATE PROGRAM FOUNDED: 1907

DEGREES OFFERED: B.A., B.S., M.A., Ph.D. in

Geography; B.S. in Geographic Information Science; B.S., M.S., Ph.D. in Atmospheric Sciences

DEGREES GRANTED: 6 M.A. in Geography; 3 M.S. in Atmospheric Sciences; 1 Ph.D. in Geography & Atmospheric Sciences

UNDERGRADUATE MAJORS: 482

CHAIR GEOGRAPHY: Darla K. Munroe

GRADUATE STUDIES CHAIR: Ningchuan Xiao

GRADUATE PROGRAM COORDINATOR: Rebekah Sims

ACADEMIC PROGRAM COORDINATOR: Nancy Coscia

DIRECTOR ATMOSPHERIC SCIENCES: Alvaro Montenegro

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Professor Ningchuan Xiao (Graduate Studies Chair, 614-29-4072, Email: xiao.37@osu.edu); Nancy Coscia (Academic Program Coordinator), 614-292-3553, Email: coscia.4@osu.edu); Professor Alvaro Montenegro (Director, Atmospheric Sciences Program, 614-688-5451, Email: montenegro.8@osu.edu); Department of Geography, The Ohio State University, 1036 Derby Hall, 154 North Oval Mall, Columbus, Ohio 43210-1361, phone 614-292-2514; Fax: 614-292-6213, Email: geography@osu.edu; Department Website: www.geography.osu.edu; Department Facebook Page: www.facebook.com/OSUGeography; Department Twitter: [@OSUGeog](https://twitter.com/OSUGeog).

PROGRAMS AND RESEARCH FACILITIES: The programs of study at The Ohio State University reflect a range of conceptual and theoretical perspectives, as well as analytical approaches, across human and physical geography. Overall, the program is intended to provide flexibility for the geographer with an appropriate background to undertake a successful career in academia, private industry, public sector, or research.

The graduate program in the Department of Geography at The Ohio State University offers training leading to Masters and PhD degrees in the following areas of specialization: GIS and spatial analysis, critical geography, physical and human-environment geography, and atmospheric sciences. Research strengths include transportation, accessibility, space-time mobility, health and epidemiology, remote sensing, natural resource management, human geography; poststructuralist, feminist, post/decolonial, and Marxist theory; atmospheric and climate sciences, land-systems science, and political ecology. Faculty contributions range from theory to applications, including the development of new algorithms and other methodologies. Our atmospheric sciences faculty are highly decorated and world renowned for their expertise in synthesizing and analyzing climate change and glacier melt. There are strong connections to the Center for Urban and Regional Analysis (CURA) and the Byrd Polar and Climate Research Center (BPCRC), among other interdisciplinary units on campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Undergraduate students who major in geography, atmospheric sciences, geographic information science, or air transportation enroll in the College of Arts and Sciences and earn a Bachelor of Arts or Science degree. Admission application forms, college bulletins, and financial aid information are available at: <http://undergrad.osu.edu/>. The Undergraduate Admissions and First Year Experience offices are located in the Student Academic Services Building, 281 W. Lane Ave, Columbus, Ohio 43210, (614) 292-3980.

High school students should apply for admission as soon as possible after August 1st of their senior year. November 1st is the deadline for early action and priority consideration for merit scholarships and Honors and Scholars Programs. The Department of Geography offers five majors: BA Geography with specializations in Environment & Society and Urban, Regional, & Global Studies; BS Geography with specializations in Physical Geography, and Spatial Analysis; BS Atmospheric Sciences; BS Geographic Information Science; and BA Social Sciences Air Transportation. The courses within each major comprise a minimum 30 credit hours required for any major program, and students must earn at least a C- in each course to move forward in their degree program. In addition to completing the major program, students must complete the General Education Curriculum of the Colleges of the Arts and Sciences. A minimum cumulative point-hour ratio of 2.0 in all courses and within major courses is required for graduation.

Graduate: Research skills are assessed in the Master's program by means of a thesis or research paper. Coursework includes a small group of core courses emphasizing theoretical understanding and quantitative skills. The doctoral program is designed intentionally to permit advanced graduate students the flexibility to pursue their specialized interests. Work in related disciplines is encouraged and PhD minor topics in other departments are possible in certain cases. Additional criteria can be found at: <https://geography.osu.edu/grad/how-apply>. Financial Aid: Teaching and research assistantships are available. Nine-month stipends are competitive across peer institutions and include tuition waivers for both resident and non-resident students. Summer teaching and research support is available for qualified students. Additional sources of funding include University Fellowships. Applicants wishing to be awarded a University Fellowship should submit their application by December 15th (international student deadline is November 30th).

ATMOSPHERIC SCIENCES PROGRAM: The Atmospheric Sciences Program (ASP) is designed to provide students with a basic foundation in the physical principles, theory, methodological skills, and applications central to the disciplines of meteorology and climatology. For details on the graduate and undergraduate programs see <http://asp.osu.edu>.

FACULTY:

Ola Ahlqvist, Ph.D., Stockholm University, 2001, Professor, Associate Vice Provost for Academic Enrichment and Executive Director of the Honors & Scholars Center — geo-visualization, semantics, uncertainty, spatial analysis, social media, map games
David Bromwich, Ph.D., Wisconsin, 1979, Research Professor — polar meteorology and climatology, numerical modeling
Mathew Coleman, Ph.D., UCLA, 2005, Professor — political geography
Stavros Constantinou, Ph.D., Kent State, 1982, Associate Professor (OSU, Mansfield Campus, Ohio)
Madhumita Dutta, Ph.D., University of Durham, U.K., 2016, Assistant Professor — labor geography, gender, development, South Asia
Nancy Ettliger, Ph.D., Oklahoma, 1984, Professor — poststructural theory and critical epistemology, governmentality, neoliberalism, culture and economy, critical data studies, urban-social
Jay Hobgood, Ph.D., Ohio State, 1984, Associate Professor — dynamics, tropical cyclones, climatology
Huyen Le, Ph.D., Virginia Tech University, 2019, Assistant Professor — transportation, activity - travel, environmental health, well-being
Jialin Lin, Ph.D., SUNY-Stony Brook, 2001, Associate Professor — global climate change, climate modeling, climate dynamics
Desheng Liu, Ph.D., UC-Berkeley, 2006, Professor — remote sensing, GIS, spatial statistics, land use and land cover change
Zhengyu Liu, Ph.D., MIT 1991, Professor — climate dynamics, earth system modeling, paleoclimate
Kenneth Madsen, Ph.D., Arizona State, 2005, Associate Professor (OSU, Newark Campus, Ohio)
Becky K. Mansfield, Ph.D., Oregon, 2001, Professor — nature-society relations, political ecology, science studies, health and environment
Bryan Mark, Ph.D., Syracuse, 2001, Professor — climatology, Quaternary environmental reconstruction, tropical glaciers, hydrology, water resources, geo-spatial modeling
Kendra McSweeney, Ph.D., McGill, 2000, Professor — cultural and political ecology, rural livelihoods, demography, conservation, economic development
Harvey Miller, Ph.D., Ohio State, 1991, Professor and Bob & Mary Reusche Chair in GIScience, Director of CURA — GIScience, spatial analysis, human mobility and accessibility, sustainable transportation, community livability, public health
Alvaro Montenegro, Ph.D., Florida State, 2003, Associate Professor — climate change, paleoclimatology, climate modeling, past environmental-human interactions
Ellen Mosley-Thompson, Ph.D., Ohio State, 1979, Distinguished University Professor — climatology, glaciology, ice core paleoclimatology, tropical glacier retreat, polar processes
Darla Munroe, Ph.D., University of Illinois, 2000, Professor and Chair — human-environment, economic geography, land change
Morton O'Kelly, Ph.D., McMaster, 1981, Professor and Social & Behavioral Sciences Divisional Dean — locational analysis, quantitative analysis, transportation
Elisabeth Root, Ph.D., University of North Carolina, 2009, Associate Professor — medical geography, spatial epidemiology, quantitative methods
Gregory S. Rose, Ph.D., Michigan State, 1981, Associate Professor and Dean (OSU Campus, Marion, Ohio)
W. Randy Smith, Ph.D., York, 1978, Associate Professor and Vice Provost — urban, regional urban systems, urban historical
Yue Qin, Ph.D., Princeton University, 2017, Assistant Professor — sustainable development, energy-environment-human system nexus, food-energy-water nexus, air quality and human health
Joel Wainwright, Ph.D., Minnesota, 2003, Professor — development, social theory, political ecology
Max Woodworth, Ph.D., UC-Berkeley, 2013, Associate Professor — urban China, Taiwan, neoliberalism

Ningchuan Xiao, Ph.D., Iowa, 2003, Professor — GIScience, spatial analysis, geovisualization and cartography, spatial decision support systems

EMERITUS FACULTY:

William V. Ackerman, Professor Emeritus
A. John Arnfield, Professor Emeritus
Victor Colombini, Associate Professor Emeritus
Kevin R. Cox, Professor Emeritus
Howard L. Gauthier, Professor Emeritus
Vera Herman, Professor Emeritus
Robert D. Klingensmith, Professor Emeritus
Edward J. Malecki, Professor Emeritus
Duane F. Marble, Professor Emeritus
Yuri Medvedkov, Professor Emeritus
Harold Moellering, Professor Emeritus
Joel L. Morrison, Professor Emeritus
John N. Rayner, Professor Emeritus
Jeffrey C. Rogers, Professor Emeritus

OHIO UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1969

DEGREES OFFERED: B.A., B.S., M.A., M.S.

GRANTED 7/1/17-6/30/18: 37 Bachelors, 8 Masters

STUDENTS IN RESIDENCE (Fall 2018): 188 Majors, 18

GISc Certificate Students, 17 Masters

CHAIR: Dorothy Sack

ADMINISTRATIVE SPECIALIST: Patti Malloy

FOR FURTHER INFORMATION CONTACT: Chair, Undergraduate Committee; or Chair, Graduate Committee, Department of Geography, Ohio University, 122 Clippinger Labs, Athens, Ohio 45701-2979. Telephone: 740-593-1140. Fax: 740-593-1139. E-mail: sack@ohio.edu. Internet: www.ohio.edu/geography (includes contact information for current Undergraduate and Graduate Committee Chairs)

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate Program: Ohio University offers both the B.A. and B.S. degrees in a nationally recognized program taught by 15 faculty members, almost all of whom have received awards for outstanding teaching. Undergraduate students can major in Geography or choose to follow one of several other structured programs (called major tracks) for a more specialized degree. These additional major tracks include Environmental Geography, Geographic Information Science (GISc), Meteorology, Broadcast Meteorology, Environmental Pre-Law, Urban Planning and Sustainability, and Globalization and Development. The department also offers minors in Geography, Meteorology, Urban Planning and Sustainability, and Globalization and Development as well as undergraduate certificates in GISc and in Wealth and Poverty. Undergraduate students conduct research in the senior capstone class and may also do so through various faculty-supervised, independent research experiences. The department encourages students to complete internships, and geography faculty typically offer some study away opportunities in summer, such as a storm-chasing course to the American Great Plains and an urban sustainability course in Edinburgh, Scotland. Details about the major tracks, certificates, internships, and study away courses can be found on the department's web page.

Graduate Program: The department grants M.A. and M.S. degrees, a certificate in GISc for on-campus students in a graduate degree program, and two stand-alone online graduate certificates in GISc, one in GIS and Cartography (www.ohio.edu/cas/geography/grad/online/gis-cartography.cfm) and the other in Geospatial Analysis and

Programming. Both the M.A. and M.S. degrees require a thesis. Faculty strengths lie in the areas of earth's physical systems (biogeography, geomorphology, meteorology, and climatology); environmental sustainability and planning; environmental and social justice; urban and economic geography; globalization and development; feminist/gender and social geographies; cultural and historical geography; and earth observation, GIS, cartography, and geovisualization. The department maintains strong ties with the Environmental Studies, International Studies (Latin America, Asia, Africa), and Women's, Gender, and Sexuality Studies programs on campus. Graduate Catalog information and online application forms can be accessed at www.ohio.edu/graduate/.

Students typically complete the master's program in two years. The first year emphasizes course work, including the Research and Writing course, which helps prepare students for developing their thesis research proposal. The bulk of the second year is devoted to thesis research and writing. Graduate students work closely with their thesis advisor and two other thesis advisory committee members.

Facilities: The university lies along the Hocking River in the hills of beautiful southeastern Ohio. Departmental facilities include well-equipped teaching and research laboratories for GIS, cartography, remote sensing, biogeography, geomorphology, and environmental research, and the Scalia Laboratory for Atmospheric Analysis, which includes a regional forecasting center. Ohio University's Alden Library and the comprehensive Ohio Library and Information Network (OhioLINK) provide students with easy access to an extensive number of journals in geography and allied fields, as well as to an extensive array of books, maps, images, and government documents.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Ohio University is on the semester system.

Undergraduate: University undergraduate admission requirements and financial aid opportunities are listed on the Ohio University web page (www.ohio.edu). Undergraduate geography students can apply to begin in any term. The department awards internal named scholarships annually to outstanding undergraduate students on a competitive basis. We work closely with the university's Office of Nationally Competitive Awards to ensure that our students take advantage of the range of financial aid opportunities that are available.

Graduate Admission: Fall semester is the standard term of entry for geography master's students. To be considered for admission to the Geography master's program, students must have completed by the start of their entry term a baccalaureate degree in geography or a related field with a minimum grade point average of 3.00 (4.00 scale). The online application form must include Graduate Record Examination scores, three letters of recommendation, a resume or curriculum vitae, and a personal statement describing the student's interest in geography and in our program. International applicants should consult the Graduate College webpage for additional information on required documents and English language proficiency.

Our online graduate certificates in GISc are open to anyone with an undergraduate degree. Previous experience with GIS is not required and there is no minimum required undergraduate grade point average. Visit the Ohio University eCampus webpage for additional information: <https://www.ohio.edu/ecampus/online-graduate.html>.

Graduate Financial Aid: The department has a number of teaching and research assistantships that are awarded competitively on the basis of individual merit. These provide full remission of tuition and a stipend of approximately \$13,100 for the nine-month academic year, which is reasonable for the area and in line with other geography departments in the region. The department also awards Graduate Recruitment Scholarships that cover tuition only. Assistantships are typically granted for a second year upon successful completion of the first year of study. Faculty members meet regularly with their

graduate assistants to ensure that the assistants are properly equipped, prepared for, and comfortable with the material and duties. One graduate appointment is as Associate Director of the Scalia Laboratory for Atmospheric Analysis. To be given full consideration for financial aid decisions, graduate applications should be completed and submitted by February 15.

All students in the master's program can receive financial support for travel to professional conferences. Geography master's students with an approved thesis proposal are eligible to apply for a departmental award to help with the cost of thesis-related fieldwork.

FACULTY:

- Timothy G. Anderson, Ph.D., Texas A&M, 1994, Associate Professor* — cultural, historical, world systems, ethnicity
Geoffrey L. Buckley, Ph.D., Maryland, 1997, Professor — environmental, historical, mining landscapes, urban environments
James M. Dyer, Ph.D., Georgia, 1992, Professor — biogeography, landscape ecology, forest dynamics
Ryan Fogt, Ph.D., Ohio State, 2007, Associate Professor and Director of Scalia Laboratory for Atmospheric Analysis — polar meteorology and climatology, climate variability and change, stratosphere-troposphere interactions
Jana Houser, Ph.D., Oklahoma, 2013, Associate Professor — observations of formation and evolution of tornadoes, supercell thunderstorms, radar studies, severe weather climatology, mesoscale meteorology
Brad D. Jokisch, Ph.D., Clark, 1998, Associate Professor — cultural/political ecology, agriculture, population, migration, Latin America
Yeong-Hyun Kim, Ph.D., Syracuse, 1998, Associate Professor — globalization, economic geography, urban geography, Asia
Amy Lynch, Ph.D., Pennsylvania, 2013, Assistant Professor — land use and environmental planning, green infrastructure, sustainable community strategies and indicators
Ana Mojica Myers, M.A., Ohio, 2009, Instructor — cartography and GIS
M. Duane Nellis, Ph.D., Oregon State, 1980, Professor and Ohio University President — remote sensing, natural resources, earth systems science
Harold Perkins, Ph.D., Wisconsin-Milwaukee, 2006, Associate Professor — political ecology/economy of urban environments including neoliberalization, the state, governance, voluntarism, and the agency of nonhuman organisms
Dorothy Sack, Ph.D., Utah, 1988, Professor and Chair — geomorphology, paleolakes, arid lands, human impacts, history of geomorphology
Gaurav Sinha, Ph.D., University at Buffalo-SUNY, 2007, Associate Professor — geospatial ontology, environmental data modeling, landscape analysis, PPGIS
Thomas A. Smucker, Ph.D., Michigan State, 2003, Associate Professor — environment and development, land tenure systems, rural livelihood and coping strategies, African drylands
Edna Wangui, Ph.D., Michigan State, 2004, Associate Professor — gender, rural livelihoods and landscape change in East Africa
Risa Whitson, Ph.D., Pennsylvania State, 2004, Associate Professor (one-third time in Women's, Gender, and Sexuality Studies) — gender and development, social geographies, informal sector, Argentina

AFFILIATED FACULTY:

- Michael Hollingsworth, J.D., William & Mary, Visiting Assistant Professor* — environmental law
James K. Lein, Ph.D., Kent State, 1986, Professor Emeritus — environmental assessment, land resource analysis, applied physical, remote sensing, GIS

OHIO WESLEYAN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1951

DEGREES OFFERED: B.A. in Geography, Geology (and a B.S.), Environmental Studies, Environmental Science, Urban Studies

GRANTED 9/1/15-8/30/19: 35 Geography, 15 Geology, 45 Environmental Studies

MAJORS: 17 Geography, 6 Geology, 35 Environmental Studies & Environmental Science

CHAIR: Barton Martin

DEPARTMENT ADMINISTRATIVE ASST: None

FOR FURTHER INFORMATION CONTACT:

Dr. John Krygier, Professor of Geography, Ohio Wesleyan University, Delaware, Ohio 43015. E-mail: jbkrygier@owu.edu. Internet: geography.owu.edu.

PROGRAMS AND RESEARCH FACILITIES:

Ohio Wesleyan University was founded in 1842 and geology courses were taught beginning in 1851. The geography program was created in 1951. Ohio Wesleyan University is a selective, coeducational liberal arts college of about 1600 students equally divided between men and women from the United States and 50 foreign countries. The geography program focuses on the inter-relationships between human societies and the natural environment and on the development and alteration of cultural landscapes. Specific research themes of the geographers include: human and cultural geography with an emphasis on globalization and development; mapping, GIS, cartography and remote sensing; climate, weather, and climate change; urban geography and urban studies; environmental geography; and environmental studies. The interdisciplinary Environmental Studies, Environmental Science, and Urban Studies programs are directed through the Geography program. We have access to excellent paper and online resources through our Beeghly Library, The Ohio Five Consortium (OWU, Oberlin, Kenyon, Wooster and Denison) and OhioLink. The department has its own small research library, a GIS computer lab for the exclusive use of majors, and the Remote Sensing Laboratory. Many geography students study off-campus for a semester and engage in theory-into-practice and summer science research projects. The department stresses field work and independent research projects. A hallmark of Ohio Wesleyan's educational mission is its emphasis on involving students directly with ongoing faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester System. The college provides generous amounts of financial aid to academically qualified students; approximately 85 percent of the student body receives financial aid. Information regarding admissions requirements and financial aid may be obtained by contacting the Admissions Office, Ohio Wesleyan University, Delaware, Ohio 43015 (toll free 1-800-922-8953; E-mail: www.owu.edu/).

FACULTY:

- Ashley Allen., Ph.D., LSU, in progress, Visiting Assistant Professor of Geography* — cultural geography, human/environment interactions, science communication, urban and economic development, conservation, sustainability
Karen H. Fryer., Ph.D., Illinois, 1986, Professor of Geology (emerita) — physical geology, structural geology, petrography, tectonics, field techniques
Richard Fusch, Ph.D., Oregon, 1972, Professor of Geography (emeritus) — cultural, urban geography/urban design, economic, changing Third World and contemporary American cultural landscapes

David H. Hickcox, Ph.D., Oregon, 1978, Professor of Geography (emeritus) — physical geography, weather/climate, human impacts on natural environments, resource management

John Krygier, Ph.D., Penn. State, 1995, Professor of Geography, Director of Environmental Studies — GIS/cartography/visualization, public participation GIS, map design & GIS, environmental geography, sustainability

Keith Mann, Ph.D., Iowa, 1987, Professor of Geology — historical geology, paleontology, hydrology, sedimentology/stratigraphy

Barton S. Martin, Ph.D. Massachusetts, 1991, Professor of Geology — physical geology, volcanology, mineralogy, petrology, economic geology

Nathan Rowley, Ph.D., Penn. State, 2014, Assistant Professor of Geography — remote sensing, glaciology, weather, climate, environmental impacts

Charles Trexler, Ph.D., U.C. Davis, 2018, Visiting Assistant Professor of Geology — tectonics, structural geology, field techniques

OWENS COMMUNITY COLLEGE

DEPARTMENT OF SOCIAL & BEHAVIORAL SCIENCES

DATE FOUNDED: 2008

DEGREES OFFERED: A.A. with Concentration in Geography

CHAIR: Ramona Olvera

PROGRAM ADMINISTRATIVE ASST: Carol Cervenec

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Social & Behavioral Sciences, Founders Hall, Owens Community College, P.O. Box 10,000, Toledo, Ohio 43699-1947. Telephone (567) 661-7521.

E-mail: carol.cervenec@owens.edu. Internet: <http://www.owens.edu>.

PROGRAMS AND RESEARCH FACILITIES: Owens Community College offers an A.A. degree with a concentration in Geography. The Social & Behavioral Sciences Department offers on-campus and online courses in Human Geography, Geography of the US & Canada, Physical Geography, World Regional Geography, and Introduction to Geographic Information Systems-GIS. If eligible, these courses are TAG and OTM approved by the Ohio Board of Regents.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID Completion of the Geography Concentration at Owens Community College requires the successful completion of four Geography courses along with the other requirements of the A.A. General degree. Owens Community College is an open-enrollment public community college. For admission and financial aid information visit: <http://www.owens.edu>

FACULTY:

L. Scott Deaner, M.A., Ohio University, 2004, Associate Professor — cultural geography, sports geography, coal mining landscapes, Appalachia, Midwestern US

SINCLAIR COMMUNITY COLLEGE

DEPARTMENT OF SOCIOLOGY, GEOGRAPHY, AND SOCIAL WORK

DATE FOUNDED: circa 1971

DEGREES AND CERTIFICATES OFFERED: GIS Certificate, Aerial Sensing Data Analyst Certificate,

Associate Degree in Geography, Applied Associate Degree in Geospatial Technology

CHAIR: Jacqueline Housel

DEPARTMENT ADMINISTRATIVE ASSISTANT: Lynn Amann

FOR FURTHER INFORMATION CONTACT: Department of Sociology, Geography, and Social Work, 444 West Third Street, Dayton, OH 45402-1460. Telephone (937) 937 512-2944 lynn.amann@sinclair.edu.

PROGRAMS AND RESEARCH FACILITIES: Sinclair offers human, world regional, physical geography courses as well as GIS courses, including: geospatial awareness, introduction to GIS, cartography, advanced spatial analysis, spatial data acquisition and management, and remote sensing. The Geospatial and Social Research Center includes a classroom with 20 computers and a separate lab with 15 computers. Students and faculty in GIS have opportunities to connect with local industry and government through collaborations with community partners, service learning projects, internships, field trips, and one-on-one mentoring. Students also have opportunities to participate in travel abroad programs (including, U.S.-Mexico Border Trip and Environmental Study Abroad Trip to Scotland in 2019).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Sinclair's strong belief in access and affordability is reflected in the fact that its Montgomery County students pay the lowest tuition rates in the state of Ohio. Sinclair uses a semester system. Students may enroll full or part time and courses are available on the main Dayton campus, Centerville Campus, Courseview Campus Center (Mason, OH), Englewood Learning Center, and Huber Heights Learning Center as well as SinclairOnline. Any person 18 years or older can apply to Sinclair Community College for admission. Post Secondary Enrollment Options are also available. Further information is available at <http://www.sinclair.edu/admissions/>.

GEOGRAPHY FACULTY:

Adanma Ariyo, MA, Miami University

Jacqueline Housel, Ph.D. State University of New York at Buffalo

Lance Lemonges, PhD, University of Florida

Amos Park, Geospatial Technician, Woolpert, Inc.

Scott Reinemann, Ph.D., Ohio State University

Allison Young, M.S., Plymouth State University

UNIVERSITY OF CINCINNATI

DEPARTMENT OF GEOGRAPHY & GIS

DATE FOUNDED: 1907

GRADUATE PROGRAM FOUNDED: 1931

DEGREES OFFERED: B.A., B.S., M.A., Ph.D.

GRANTED 4/30/2016 - 5/30/2019: 6 Masters, 13 Ph.D.

STUDENTS IN RESIDENCE (4/30/2016 - 5/30/2019): 10 Masters, 26 Ph.D.

CHAIR: Dr. Nicholas Dunning

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Lin Liu, Director of Graduate Program in Geography, Department of Geography & GIS, University of Cincinnati, Cincinnati, Ohio 45221-0131. Tel: (513) 556-3424. E-mail: lin.liu@uc.edu. Web: <https://www.artsci.uc.edu/departments/geography.html>

PROGRAMS AND RESEARCH FACILITIES: The Department covers three key research areas of the discipline of geography: 1)

Geographic Information Science (GIS, remote sensing, cartography, GPS, environmental sensor networks, geo-computation, and space geoinformatics); 2) Physical-environmental geography (with emphases on field instrumentation, soils, geochronology, environmental studies, hydrology, water resources, geomorphology, planetary geomorphology, climatology, and biogeography); and 3) Urban and human geography (with emphases on location analysis, health and medical geography, crime analysis, land change science, regional economic development, population dynamics, and cultural geography).

The UC geography program is one of the most comprehensive and top-ranked geography programs in the nation. Our program has been highly rated by the National Research Council (NRC) and Academic Analytics in the past decade. The department has enjoyed an international reputation for offering rigorous and effective training and education to students interested in pursuing an advanced degree in a variety of geographic topics. The strength of our department is reflected by a large amount of external research funding from NSF, NASA, USGS, USEPA, DoD, USACE and other agencies, extensive publications of scholarly work in leading academic journals, and our ability to attract top-caliber students with various educational backgrounds and diverse research interests. The Ph.D. program is restricted to research specializations compatible with faculty expertise. The Master's degrees can be obtained with thesis or non-thesis option in two years. Many of our students have won national academic competitions and various awards in recent years. The department prepares our students well for the current job market with strong technical and analytical skills, and has a strong record of success in graduate placement. The job and career opportunities that our students have secured and enjoyed include a growing number of university professors, GIS analysts, specialists for environmental consulting firms, planners (health and regional planning), location analysts, computer cartographers, and various government agencies at local (e.g. planning, zoning, utilities and public works, garbage collection analysis, and land ownership and valuation), state (e.g. natural resource management, highways and transportation), and federal (e.g. natural disaster management, homeland security, geospatial intelligence, military operations, law enforcement) levels.

The Department houses three dedicated computer laboratories with high-end computer workstations and which are equipped with various GIS, remote sensing, statistics, simulation, and modeling software packages. The Department maintains a broad range of software packages for use by faculty and grad students. These include general productivity software (e.g. MS Office), GIS and Remote Sensing software (e.g. ArcGIS, ENVI, eCognition, IDL, SUFFER), visual and online course design software (e.g. Camtasia, Adobe Illustrator, Creative Suite, Photoshop), statistical analysis software (e.g. SPSS, SAS), and other software (e.g. BASINS, HSPF, MatLab, AnyLogic, etc). Besides high-end computer workstations, servers, storage RAID's, color printers, plotters, and scanners in our computer labs, the department also has various geospatial instruments. Those include YSI 6600V2-4 Multiparameter Water Sonde, Turner Designs Cyclops-7 Submersible Sensors, ASD FieldSpec Spectroradiometer, GARMIN GPSMAP-62stc, Trimble Pathfinder ProXH GPS Receiver, Hydra Probe II Soil Moisture Sensors, Davis Automated Weather Stations, LAI-2200 Plant Canopy Analyzer, and other instruments are also available for teaching relevant courses and student research. The department also operates a Geospatial & Environmental Sensor Networks (GIESN) lab, a Space Geoinformatics lab, a Soil lab, an Environmental Study lab, watershed hydrology lab, health and medical geography lab, and a Physical Geography lab. Graduate students have access to these labs for their research work.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Applications for admission to the geography program of the Division of Graduate Studies, or for financial aid, can be obtained by going to the graduate school website: <https://grad.catalyst.uc.edu/apply/>. GRE scores are required for all

applicants. In addition, TOEFL scores are required for international students whose native language is other than English. Financial aid includes Graduate Teaching Assistantships, Graduate Research Assistantships, Tuition Scholarships, CAGIS Internships, Graduate School Dean's Fellowship, etc. More detailed information can be found on the department webpage.

FACULTY:

- Richard A. Beck, Ph.D., University of Southern California, 1995, Professor* — geographical information networks, GIS, remote sensing, climate change, South Asia
- Ishi D. Buffam, Ph.D., Swedish University of Agricultural Sciences, 2007, Associate Professor (jointly appointed between Biology and Geography Departments)* — aquatic ecosystem and landscape ecology
- Xi Chen, Ph.D., University of Central Florida, 2014, Assistant Professor* — hydrology, water resources, environmental studies and modeling, physical geography, environmental engineering
- Diego F. Cuadros, Ph.D., University of Kentucky, 2011, Assistant Professor* — medical and health geography, GIS applications in epidemiology, environmental studies, mathematical modeling of infectious diseases, host-pathogen and pathogen-pathogen interactions, health economics assessment
- Nicholas P. Dunning, Ph.D., University of Minnesota, 1990, Professor and Interim Department Head* — environmental archaeology, soils, physical geography, cultural ecology, Latin America
- Changjoo Kim, Ph.D., Ohio State University, 2004, Associate Professor* — GIS, location analysis, urban-economic geography, urban transportation, health geography
- Lin Liu, Ph.D., Ohio State University, 1994, Professor and Graduate Program Director* — GIS, geographic visualization, quantitative methods, location analysis, crime mapping and analysis, geo-simulation, China
- Kevin Raleigh, Ph.D., University of South Carolina, 2006, Educator Associate Professor* — urban-economic geography, political geography, quantitative techniques
- Robert B. South, Ph.D., University of Maryland, 1972, Associate Professor and Undergraduate Program Director* — economic geography, regional economic development, Latin America
- Tomasz F. Stepinski, Ph.D., University of Arizona, 1986, Thomas Jefferson Endowed Chair Professor* — space informatics, planetary geomorphology, land change science, remote sensing, GIS
- Susanna Tong, Ph.D., University of Sheffield, 1980, Professor* — watershed hydrology, water resources management, environmental geography, heavy metal contamination, urban ecology, China
- Amy Townsend-Small, Ph.D., The University of Texas at Austin, 2006, Assistant Professor (jointly appointed between Geology and Geography Departments)* — biogeochemistry, sources and fluxes of methane, carbon and nitrogen cycling

EMERITUS FACULTY:

- Wendy R. Eisner, Ph.D., University of Utrecht, Netherlands, 1999, Professor* — paleoecology, paleoclimatology, Arctic system science, human impacts on the environment, human cultural evolution
- Kenneth M. Hinkel, Ph.D. Geology, University of Michigan, 1986, Professor Emeritus and McMicken Scholar* — climatology, geomorphology, physical geography, computer cartography, polar regions
- Roger M. Selya, Ph.D., University of Minnesota, 1971, Professor* — economic development of East Asia, population, medical geography
- Wolf Roder, Ph.D., University of Chicago, 1965* — economic development of Africa, environmental and resource management, quantitative techniques
- K. Bruce Ryan, Ph.D., Australian National University, 1966* — Australia, urban-historical, recreation

Howard A. Stafford, Ph.D., University of Iowa, 1960 — industrial location decision-making, manufacturing, urban and marketing geography, location theory

ADJUNCT FACULTY:

David Shuey, MCP, University of Cincinnati, 1995 — GIS

Sunhee Sang, Ph.D., The Ohio State University, 2009 — GIS, urban and economic geography

Michael Troyer, Ph.D., University of Cincinnati, 1999 — human-environment interface, GIS

Chris Carr, Ph.D., University of Cincinnati, 2014, Research Assistant Professor — human impacts on the natural environment, geoarchaeology, remote sensing, Latin America

Teri Jacobs, PhD, University of Cincinnati, 2017 — biogeography, ecosystem modeling, sustainability

THE UNIVERSITY OF TOLEDO

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1963

MASTER OF ARTS PROGRAM FOUNDED: 1970

PhD PROGRAM FOUNDED: 2009

DEGREES OFFERED: B.A., M.A., Ph.D. (SISS)

GRANTED 2017-2018: 2 Bachelors, 3 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 22 Majors, 15 Masters, 16 Ph.D.

NOT IN RESIDENCE: 5 Masters, 4 Ph.D.

CHAIR: Patrick L. Lawrence

ASSISTANT TO THE DEPARTMENT CHAIR: Tammy Golkiewicz

FOR FURTHER INFORMATION WRITE TO: Dr. Patrick L. Lawrence, Chair, Department of Geography and Planning, MS 140, The University of Toledo, 2801 W. Bancroft St., Toledo, Ohio 43606-3390. Telephone (419) 530-4128 or (419) 530-2545 Fax (419) 530-7919. E-mail: Patrick.lawrence@utoledo.edu Internet: <http://www.utoledo.edu/al/geography/>

PROGRAMS AND RESEARCH FACILITIES: The department's undergraduate and graduate curricula are designed to provide theoretical and technical skills necessary for future academic and nonacademic careers. A wide selection of courses and seminars allows students to create individualized programs within the range of faculty interests, offered curriculum, and contemporary geographical issues and problems.

Undergraduate and graduate students choose an area of specialization from the following list: Geographic Information Science and Remote Sensing, Urban and Economic Geography, Community and Urban Planning, Environmental Geography and Planning, and Cultural and Behavioral Geography. Students choose from courses and seminars offered in other campus programs to supplement their instruction and broaden their perspective. In addition, each graduate experience is further enhanced by our graduate internship program featuring paid internships in local/regional agencies and firms.

Offerings by the department are accentuated by a state-of-the-art Center for Geographic Information Science and Applied Geographics (GISAG), a spatial analysis teaching laboratory, a remote sensing laboratory, and the Lake Erie Center for Research and Education. Students have convenient access to campus, local and regional reference and research libraries, media centers, and computer clusters.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate Program: Semester system with a three-session summer semester. A college preparatory high-school program is required with possible admission based on completion of noncredit makeup courses. Scholarships and financial aid are available, especially for state residents.

M.A. Program: The program is on the semester system. All students must complete a minimum of 36 hours of approved study. Students can choose from a thesis option, which also requires a comprehensive exam, or a non-thesis option, which requires a general exam and a supervised research paper completed in the context of a capstone course. For most students, two academic years are needed to complete the program. Applicants should hold a bachelor's degree in geography or a related field. Others are admitted who are willing to take additional appropriate work. Usually a student will present a GPA of at least 2.7 (4.0 scale). International students must score satisfactorily on the Graduate Record Examination. Graduate teaching and research assistantships, University and other fellowships, and remunerative graduate planning internships are available to most qualified applicants, as are tuition scholarships.

Ph.D. Program: Spatially Integrated Social Science—A multi-disciplinary program designed around the application of GI Science, spatial statistics, spatial econometrics and spatial analysis to study the spatial dimension of human and social dynamics, including interaction of individuals and society, government and market participants. Applicants should hold a master's degree in a social science discipline with a minimum of one course in multivariate statistics and two courses in geographic information systems. The Graduate Record Examination is required for admission. All students must complete 36 hours of approved study and 24 dissertation hours. Graduate teaching and research assistantships, University and other fellowships are available to most qualified applicants, as are tuition scholarships.

FACULTY:

Bhuiyan M. Alam, Ph.D., 2005, Florida State University, Professor — urban and regional planning

Frank J. Calzonetti, Ph.D., University of Oklahoma, Professor/Vice President for Research — GIS, economic development

Kevin P. Czajkowski, Ph.D., 1995, University of Michigan, Professor/SISS PhD Program Director/GISAG Director — climatology, remote sensing, hydrology

Sharon L. Gaber, Ph.D., Cornell University, Professor, University President — urban and regional planning

Daniel J. Hammel, Ph.D., 1994, University of Minnesota, Professor — urban geography, housing and neighborhood change

Patrick L. Lawrence, Ph.D., 1996, University of Waterloo, Professor and Chair — environmental and ecosystem planning, water resources, Great Lakes, coastal and shoreline management land use/growth management, parks and protected areas planning

Neusa Hidalgo-Monroy McWilliams, Ph.D., 1996, University of California, Berkeley, Associate Lecturer — Latin America

David J. Nemeth, Ph.D., 1984, University of California, Los Angeles, Professor/Undergraduate Programs Director — cultural, Asia, architecture and ideology, informal economies

Neil Reid, Ph.D., 1991, Arizona State University, Professor/MA Program Director — industrial geography, economic geography, economic development

M. Beth Schlemper, Ph.D., 2000, University of Wisconsin-Madison, Associate Professor — cultural and historical, human geography, geographic education

Sujata Shetty, Ph.D., 2002, University of Michigan, Professor — urban planning

Yanqing Xu, Ph.D., 2014, Louisiana State University, Assistant Professor — GIS, medical/health geography

EMERITI FACULTY:

Frank E. Horton, Ph.D., Northwestern, 1966, President Emeritus, Professor Emeritus — transportation, urban geography

Peter S. Lindquist, Ph.D., 1988, University of Wisconsin-Milwaukee, Professor Emeritus — GIS, digital cartography, location theory, transportation

William A. Muraco, Ph.D., Ohio State, 1971, Research Professor and Professor Emeritus — economic (especially location theory), urban, quantitative research methods

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1940

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., B.S., M.S., Ph.D.

(Geography), B.S. (Geospatial Information Science),

B.A. (Global Studies)

CERTIFICATES OFFERED: Certificate in Geographic Information Systems (GIS); Certificate in Environmental Studies

GRANTED AY 2018-2019: 6 Bachelors, 5 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 55 Majors, 14 Masters, 21 Ph.D.

HEAD: Alyson L. Greiner

DEPARTMENT ADMINISTRATIVE ASST: Logan Stephenson

FOR FURTHER INFORMATION: E-mail: geog@okstate.edu, Internet: www.geog.okstate.edu, or Department of Geography, 337 Murray Hall, Oklahoma State University, Stillwater, Oklahoma 74078-4073. Telephone (405) 744-6250. Fax (405) 744-5620.

PROGRAMS AND RESEARCH FACILITIES: The Department offers several flexible programs of study that provide students with the skillsets and knowledge to understand events and processes in a globalizing world, and to pursue careers in government, business, industry, or academia. The curriculum is built around four tracks: (1) Outdoor Recreation and Resource Management; (2) People, Place, Society; (3) Global Studies; and (4) Environmental Change and Sustainability. Internship opportunities are available in both the private and public sectors. The Department promotes interdisciplinary instruction and research, and sponsors students in the university's interdisciplinary Environmental Science M.S. and Ph.D. programs. Students can earn a post-baccalaureate Certificate in Geographic Information Systems concurrently with their graduate or undergraduate degree in geography. Areas of research and specialization include: nature-society dynamics, cultural-historical geography, and geographic information science including unmanned aerial systems. Research and travel experience give faculty strength in several geographic regions, especially Central Asia, Australia, Latin America, and the Middle East. Department faculty work collaboratively with faculty from other colleges and centers across campus, including the Unmanned Systems Research Institute and the School of Global Studies and Partnerships. The Department also houses the *Journal of Central Asian Studies*.

Located in a remodeled historic building at the south entrance to campus, the Department provides space for faculty and graduate offices, two GIS training facilities, a physical geography laboratory,

the Keso Seminar Room, and a palynology/paleoecology research laboratory. The Department houses and manages two centers: OSU Cartography Services, a full-service production cartography facility, and the Center for Applications of Remote Sensing, which provides expertise for remote sensing training and research. The University Library has substantial geography and periodic holdings as well as map, aerial photography and documents collections, and the department's Drummond Map Library holds additional special collections. Students and faculty also have access to surface weather data reported by automated stations of the Oklahoma Mesonet work in a near-real-time GIS environment. The Department's computer facilities are equipped with state-of-the-art hardware and software, and UAV/UAS equipment.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Students may earn a B.A. or B.S. degree in Geography, B.S. in Geospatial Information Science, or a B.A. in Global Studies. Students interested in law school or ministerial work can now choose degree options in those areas, including the B.A. in Geography Pre-Law Option; the B.A. in Geography Pre-Ministry Option, the B.A. in Global Studies Pre-Law Option, and the B.A. in Global Studies Pre-Ministry Option. Students can also elect to earn a Certificate in Environmental Studies or a Certificate in GIS. All majors are required to take a senior capstone course. Students must earn a 2.5 GPA (4.0 basis) in their selected major in order to graduate. Various scholarships, travel grants, internships, and work-study assistance programs are available. The Department has scholarships for an outstanding junior, an undergraduate travel scholarship, as well as several scholarship awards for graduate students. The Department also promotes and supports undergraduate research through its Geography Undergraduate Mentors Program.

Graduate: The Department offers the M.S. and Ph.D. degrees in geography. The M.S. degree usually requires two academic years (four semesters). The thesis option requires 30 semester hours of coursework, including the thesis, while the non-thesis alternative requires 36 hours and completion of a creative component project. The Ph.D. degree requires a minimum of 60 credit hours. Applicants to the Ph.D. program must have earned a master's degree. Admission requirements for graduate study include submission of academic transcripts, GRE scores, TOEFL scores (if English is not the primary language), a résumé or CV, a personal statement about research interests and career objectives, a writing sample, and letters of recommendation. A number of teaching and research assistantships are available for graduate students. All assistantships include benefits and a waiver of out-of-state tuition up to the amount needed for the degrees (30 for MS and 60 for PhD; up to 12 hours per semester). Summer assistantships may also be available. The Departmental Graduate Committee accepts admissions applications throughout the year, and will render decisions on admission and/or funding as soon as practical, however, to be considered for an assistantship applications must be submitted by February 1.

Certificate in GIS: Admission to the certificate program in GIS is open to any student enrolled as an undergraduate, graduate student, or special student at OSU. To earn the certificate a student must complete nine hours of prerequisite coursework, a minimum of 12 credit hours of coursework in GIS and related subjects, and have completed a bachelor's degree from OSU or another accredited college or university. Additional information about the Certificate in GIS is available on the Department website.

FACULTY:

Brad A. Bays, Ph.D., Nebraska, 1996, Associate Professor — historic preservation, historical GIS, Native Americans, agricultural history, Great Plains, Oklahoma

Don Colley, III, ABD, San Diego State University, Instructor of Professional Practice — geographies of young people, online communities and virtual spaces, social movements, geographic education, violence, post-capitalist societies, critical sports geography

Jonathan C. Comer, Ph.D., Ohio State, 1994, Professor — location analysis, wireless communications, rural transportation, quantitative methods

Carlos Cordova, Ph.D., Texas, 1997, Professor — Quaternary paleoecology, geomorphology, geoarchaeology, Great Plains, Middle East, Black Sea region, southern Africa

G. Allen Finchum, Ph.D., Tennessee, 1992, Associate Professor — urban, GIS, sport, population geography, United States/American South

Hamed Gholizadeh, Ph.D., Indiana University-Bloomington, 2016, Assistant Professor — remote sensing, GIS, spatial statistics in terrestrial and aquatic ecosystems

Alyson L. Greiner, Ph.D., Texas, 1996, Professor — cultural, historical, history of geography, folk architecture and historic preservation, necrogeography, Europe, Australia/Pacific

Reuel R. Hanks, Ph.D., Kansas, 1993, Professor — political, ethnic, Central Asia, Russia

Thomas LaVanchy, Ph.D., University of Denver, 2015, Assistant Professor — human-environment interactions, hydrology, political ecology, Latin America, West African Sahel

Dale R. Lightfoot, Ph.D., Colorado, 1990, Professor and Head — natural resource management, water resources, historic water technology, cultural ecology, North Africa/Middle East/Central Asia

Rebecca A. Sheehan, Ph.D., Louisiana State, 2006, Associate Professor — cultural, historical, tourism, public space, homelessness, identity, community, alternative spaces and places

Stephen J. Stadler, Ph.D., Indiana State, 1979, Professor — applied climatology, wind power, remote sensing

Jacqueline Vadjunec, Ph.D., Clark, 2007, Associate Professor — human dimensions of global environmental change, people, trees and forests, common property resource management, cultural and political ecology

Thomas A. Wikle, Ph.D., Southern Illinois, 1989, Professor and Associate Dean — resource management, public lands, wireless communication systems

Hongbo Yu, Ph.D., Tennessee, 2005, Associate Professor — transportation geography, GIS, time geography

Yuting Zhou, Ph.D., University of Oklahoma, 2017, Assistant Professor — remote sensing, land use and land cover change, agricultural drought monitoring and assessment

STAFF AND AFFILIATED FACULTY:

Sara Alian, Ph.D., Michigan Technological University, 2017, Teaching Assistant Professor — GIS, spatial modeling in natural resource management, urban and landscape design

Clay Barrett, M.S., Oklahoma State, 2015, GIS Specialist/Cartography Service

Michael P. Larson, M.S., Oklahoma State, 2003, Manager Geospatial Systems, OSU Cartography Service

Jing Wang, M.S., Clark, 2013, Coordinator, Center for Applications of Remote Sensing

John F. Rooney, Jr., Ph.D., Clark, 1966, Regents Professor Emeritus — sport and recreation, geo-demographics, United States

Stephen W. Tweedie, Ph.D., Syracuse, 1969, Associate Professor Emeritus — cartography, sociocultural, United States, global education

UNIVERSITY OF CENTRAL OKLAHOMA

DEPARTMENT OF HISTORY AND GEOGRAPHY

DATE FOUNDED: 1968

DEGREE OFFERED: B.A.

CHAIR: Katrina Lacher

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Annamaria Martucci

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Michelle Brym, University of Central Oklahoma; Department of History and Geography; 100 N. University Dr.; Edmond, OK 73034. Telephone: (405) 974-5665. Fax: (405) 974-3823. E-mail: mbrym@uco.edu. Internet: <http://www.uco.edu/cla/departments-/history-geography/>

PROGRAMS AND RESEARCH FACILITIES: A major consists of 36 semester hours in geography. All geography majors take courses in introductory, thematic, and regional geography. Major requirements allow for students to select most of their courses in order to meet specific career goals and professional interests. A geography minor requires 18 semester hours. Geography students receive a high level of personalized attention in a rigorous academic setting. Classes do not exceed 40 members, and are typically smaller in number. The department also houses a GIS lab for students to develop technical skills. Faculty members regularly interact with students during field experiences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

This program is conducted on the semester system (fall, spring, summer). Admission to the University of Central Oklahoma is determined by a combination of high school class rank, GPA, and ACT or SAT scores. Students can become geography majors by declaring so upon admission or by consulting with a departmental faculty member after arriving on campus. University of Central Oklahoma students are eligible for a variety of grants, scholarships, and loans through the university's financial aid office. More information can be obtained by contacting the Office of Admissions, Enrollment Services; University of Central Oklahoma; 100 N. University Dr.; Edmond, OK 73034; <http://www.uco.edu/future.htm>.

FACULTY:

Michelle Brym, Ph.D., University of Tennessee, 2009, Professor — border studies, migration, Europe

Shannon Hall, Ph.D., University of Oklahoma, 2015, Lecturer — biogeography, environmental conservation, physical geography, Sub-Saharan Africa

Brad W. Watkins, Ph.D., Oklahoma State, 2007, Professor — geographic information systems (GIS), historical geography

ADJUNCT AND EMERITI FACULTY:

Byung (Walter) Jung, Ph.D., University of Oklahoma, 1984, Professor Emeritus

UNIVERSITY OF OKLAHOMA

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SUSTAINABILITY

DATE FOUNDED: 1946

GRADUATE PROGRAM FOUNDED: 1930

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D. in
Geography; B.A., B.S. in GIS; B.A., B.S., M.S. in
Environmental Sustainability; Graduate Certificate in
Geospatial Information Technologies

GRANTED 9/1/17-8/31/18: 52 Bachelors, 7 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 202 Bachelors, 25 Masters,
14 Ph.D.

CHAIR: Kirsten de Beurs

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Emalee Lemke

FOR FURTHER INFORMATION: General Information: Dr. Kirsten de Beurs, kdebeurs@ou.edu. Graduate Program: Dr. Laurel Smith, Graduate Liaison, laurel@ou.edu. Undergraduate Program: Ms. Jamie Steele, Undergraduate Advisor, jamie@ou.edu. Department of Geography and Environmental Sustainability, 100 E. Boyd St., SEC 510, University of Oklahoma, Norman, Oklahoma 73019-1007. Telephone (405) 325-5325.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Environmental Sustainability offers undergraduate degrees in Geography (B.A., B.S.), Geographic Information Science (B.A., B.S.) and Environmental Sustainability (B.A., B.S.), a master's degree (M.S.) in environmental sustainability, as well as graduate (M.A., M.S., Ph.D.) degrees in geography.

Course offerings and research opportunities in Geography are concentrated in three major areas of specialization: human geography and geohumanities, physical geography, and geospatial sciences, including GIS and remote sensing. Research emphases within human geography include cultural geography, political geography, and political ecology. Within physical geography, faculty research emphasizes work in biogeography, climatology, and hydrology. Research in remote sensing and geographic information systems emphasizes integrated geospatial technologies for analyzing the effect of humans and climate on the global vegetative land surface.

All Environmental Sustainability students take a common set of six core courses to give them strong grounding in the principles of environmental sustainability. Subsequently, students may specialize in one of three areas of concentration. These are: *Sustainability Science and Natural Resources*. This concentration focuses on the physical environmental or ecosystem aspects of sustainability as well as its impacting forces. *Sustainability Planning and Management*. This concentration focuses on how organizations and institutions perceive, adopt, and implement sustainability programs and practices. *Sustainability, Culture, and Society*. This concentration focuses on the human dimensions of sustainability, including the dynamics driving the perception and management of sustainability in different societies and cultures around the world.

Regional research specialties of the faculty include North America (especially the Southwest and Great Plains), Latin America, Central Asia, and Europe/Russia.

The Department strongly encourages faculty-student collaboration in research and teaching and emphasizes strong mentoring relationships with graduate and undergraduate students. Affiliate centers include The Oklahoma Alliance for Geographic Education (OKAGE), and the Center for Spatial Analysis (CSA). The many resources of the University include the National Weather Center, the Oklahoma

Climatological Survey, the Oklahoma Biological Survey, the Oklahoma Geological Survey, the Western History Collections, the NASA Space Grant Consortium, and the History of Science Library. The University also hosts the South Central Climate Science Center and the Southern Climate Impact Planning Program.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates with two semesters and a summer session. Graduate teaching and research assistantships are available to qualified doctoral and master's students. In addition, individual faculty members support students from research grants and contracts. Other scholarships and financial aid packages are available from University sources.

An application for admission must be accompanied by official transcripts, two letters of recommendation, official GRE scores, and a statement of research interests and goals. Graduate applicants are strongly encouraged to identify and contact potential research advisors. Applicants for graduate assistantship positions should submit application materials by January 15 in order to ensure consideration for the next academic year.

FACULTY:

Kirsten de Beurs, Ph.D., University of Nebraska--Lincoln, 2005, Professor and Chair — impacts of humans and climate on global vegetative land surface, land cover and land use change, land surface phenology, remote sensing
Travis Gliedt, Ph.D., University of Waterloo, Canada, 2012, Associate Professor — environmental economic geography, strategic green decisions in organizations, green entrepreneurship, sustainable development, energy systems and sustainability
J. Scott Greene, Ph.D., University of Delaware, 1994, Professor — synoptic and applied climatology, climate change, renewable energy
Gary Gress, Ph.D., University of Oklahoma, 2000, Lecturer and Coordinator of the Oklahoma Alliance for Geographic Education — cultural geography, geographic education
Bruce Hoagland, Ph.D., University of Oklahoma, 1995, Professor and Oklahoma Natural Heritage Biologist — landscape ecology, plant community ecology, biogeography
Jennifer Koch, Ph.D., University of Kassel, Germany, 2010, Assistant Professor — land-use and land-cover change, integrated modeling, coupled human and natural systems, GIS
Mary Lawhon, Ph.D., Clark University, 2011, Assistant Professor — political ecology, Africa, urban infrastructure, socio-technical transitions, waste, human-environment relationships
Rebecca Loraamm, Ph.D., University of South Florida, 2015, Assistant Professor — GIS, time geography, location modeling, suitability modeling, network analysis, road ecology, wildlife ecology and management
Renee McPherson, Ph.D., University of Oklahoma, 2003, Associate Professor — regional and applied climatology, mesoscale meteorology, land-air-vegetation interactions, climate variability and change, surface weather observing systems
Hernan Moreno, Ph.D., Arizona State University, 2012, Assistant Professor — watershed processes, hydrologic modeling, flood forecasting, hydrologic effects of land cover and climate change
Thomas Neeson, Ph.D., University of Michigan, 2010, Assistant Professor — conservation biology, landscape ecology, freshwater ecosystems, simulation and modeling, statistics
Joseph Pierce, Ph.D., Clark University, 2011, Assistant Professor — urban geography, environmental politics, housing, micropolitics, place and place-making, urban political theory, sustainability
Darren Purcell, Ph.D., Florida State University, 2003, Associate Professor — popular geopolitics, political geography, media and communications geographies, humor, digital humanities
Robert A. Rundstrom, Ph.D., University of Kansas, 1987, Associate Professor — cultural geography, historical geography, indigenous peoples, United States

Mark Shafer, Ph.D., Oklahoma, 2005, Assistant Professor — hazard preparedness and mitigation, adaptation to climate change, local and state government, use of scientific information in policy decisions, climate services

Laurel C. Smith, Ph.D., University of Kentucky, 2005, Associate Professor — geopolitics of knowledge production, indigenous peoples, cultural geography, the Americas

Jeff Widener, Ph.D., University of Oklahoma, 2015, Associate Professor and Director of Center for Spatial Analysis — American West, cartography and data visualization, historical and cultural geography, geospatial technologies and society, GIS

Mike Wimberly, Ph.D., Oregon State University, 1999, Professor — disease ecology, public health, land use and land cover change, remote sensing, ecological modelling

Jadwiga Ziolkowska, Ph.D., Humboldt University of Berlin, 2007, Associate Professor — environmental economics, water and energy economics, biofuels and renewable energy, decision making under uncertainty, sustainability and climate change, mathematical methods and programming

EMERITUS FACULTY:

Mark Meo

Bret Wallach

Fred Shelley

Marvin W. Baker, Jr.

Richard L. Nostrand

OREGON

CHEMEKETA COMMUNITY COLLEGE

SOCIAL SCIENCE PROGRAM

DATE FOUNDED: 1970

DEGREES OFFERED: A.A.

SOCIAL SCIENCE PROGRAM DEAN: Cecelia Monto

PROGRAM ADMINISTRATIVE ASSISTANT: Amber McMurray

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Social Science Program, Chemeketa Community College, 4000 Lancaster Dr. NE, Salem, OR 97305. (503) 399-5140. Internet: www.chemeketa.edu.

PROGRAMS AND RESEARCH FACILITIES: Chemeketa Community College offers approximately one dozen transferable courses in Geography and several in G.I.S.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Chemeketa Community College operates on a quarter system. Any person 18 years or older may enroll in Chemeketa classes.

FACULTY:

Steve Wolfe, M.A., University of Missouri-Columbia, 1993 — Oregon, physical, cultural, economic, U.S. & Canada, world regional

ADJUNCT FACULTY:

Lori Cole, M.A., California State University-Chico — cultural

Lauren Hull, M.S., Louisiana State University — cultural, economic

OREGON STATE UNIVERSITY

COLLEGE OF EARTH, OCEAN, AND ATMOSPHERIC SCIENCES (CEOAS)

DATE FOUNDED: 1946 (Geography); 1989 (Geosciences); 2012 (CEOAS)

GRADUATE PROGRAM FOUNDED: 1952

DEGREES OFFERED: Geography and Geospatial Sciences B.S.; Geography M.A, M.S., Ph.D.

DIRECTOR OF GEOGRAPHY: Julia A. Jones

FOR FURTHER INFORMATION WRITE TO: Stacey Schulte, Administrative Program Assistant, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, 104 CEOAS Admin Building, Corvallis, Oregon 97331-5503. Telephone (541) 737-1201. Fax (541) 737-1200. E-mail: ceoas_undergrad@oregonstate.edu (undergraduate program), student_advisor@coas.oregonstate.edu (graduate program). Internet: <http://ceoas.oregonstate.edu/students/>.

PROGRAMS AND RESEARCH FACILITIES: Students can obtain the BS in Geography and Geospatial Science (online and on-campus), the certificate in GIScience (undergraduate and graduate, online and on-campus), and the MS and PhD in Geography.

Graduate studies and research in Geography include three areas of excellence:

- 1) *Geospatial technologies and analysis:* Many careers in geography involve geospatial technologies and analysis applied to research, teaching, government and industry. Geography at OSU helps graduate students to obtain an integrated training in GIScience, cartography, remote sensing, geovisualization, spatial statistics and modeling, and web mapping. Students may pursue this area of study as part of the MS or PhD in Geography. Graduate students also can obtain a GIScience certificate.
- 2) *Water, climate, and society:* Access to water resources is essential for human health and societies, yet water resources are unevenly distributed in space and time, while climate variability and change may intensify conflicts over water. Geography at OSU helps graduate students to obtain an integrated training in surface processes, climatology, biogeography, water policy, and water management. Students may pursue this area of study as part of the MS or PhD in Geography. Graduate students also can obtain an online certificate in water conflict.
- 3) *Resources, planning, and hazards:* Natural resources, planning, and hazards are ideal topics for geographic study because they link physical processes governing natural hazards with factors such as social vulnerability, planning and resource management. Many aspects of these issues have a strong regional focus. Geography at OSU helps graduate students to obtain an integrated training in the geography of resources, land use, and rural and regional resource evaluation. Students may pursue this area of study as part of the MS or PhD in Geography.

Program facilities include an instructional computer lab, the GAZE (Geospatial Analysis and Visualization for Education) facility, GIScience capable computer classrooms, enhanced digital projection classrooms, and remote sensing, GIS, geovisualization and geospatial analysis research laboratories. In addition, the Corvallis community is home to an EPA Laboratory and U.S. Dept. of Agriculture and U. S. Forest Service facilities that are active in GIScience, remote sensing and spatial modeling research, which provides additional opportunities for work and research for many students. Research and teaching assistantships are competitively awarded to well-qualified students. One foreign language is required for a Ph.D. degree. Masters students may elect either a thesis or a project option.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Admission requirements: Preferred cumulative GPA of 3.0 and completion of 15 required subject area courses. Minimum cumulative GPA of 2.25 on transferable credits. Quarter system. Financial aid: Scholarships, grants, loans and part time employment (<http://financialaid.oregonstate.edu/>).

Graduate: Admission requirements: 3.00 GPA on entire baccalaureate or on last 90 quarter credits (60 semester credits) and a 4-year baccalaureate degree from an accredited college or university, and three letters of recommendation. GRE required. Quarter system. Financial aid. Tuition waivers. Teaching and research assistantships. Completed application must be received by January 5 for Fall Term admission & TA/RA consideration

FACULTY:

Andrea Allan, PhD, Oregon State University, 2013, Instructor — climatology, physical geography

Laurence Becker, PhD, London School of Oriental and African Studies, 1989, Professor — agricultural food systems, development, Africa

Lorene Yokoyama Becker, MS, University of Wisconsin-Madison, 1999, Senior Instructor — geographic information systems and sustainability

Michael E. Campana, PhD, University of Arizona, 1975, Professor — hydrology, transboundary water resource issues, water allocation and availability

Steve Cook, PhD, University of Florida, 1995, Senior Instructor — environmental sustainability

Lynette de Silva, MS, Indiana University, 2000, Senior Instructor — water conflict and cooperation

Hannah Gosnell, PhD, University of Colorado, 2000, Professor — land use, biodiversity, conservation, water resources

Michael Harte, PhD, University of Victoria, British Columbia, 1994, Professor — marine geography, natural resource management and planning

Demian Hommel, PhD, University of Oregon, 2009, Senior Instructor — cultural geography, natural hazards

Todd Jarvis, PhD, Oregon State University, 2006, Assistant Professor (Senior Research) — water resources conflict resolution, groundwater

Julia A. Jones, PhD, Johns Hopkins, 1983, Professor — landscape ecology, spatial statistics, hydrology, informatics

Robert E. Kennedy, PhD, Oregon State University, 2004, Associate Professor — geospatial analysis and remote sensing

Peder Nelson, MS, Southern Oregon University, 2006, Senior Faculty Research Assistant — remote sensing, landscape ecology, digital geography, geography education, spatial analysis and modeling

Mary V. Santelmann, PhD, University of Minnesota, 1988, Professor (Senior Research) — biogeography, biodiversity, ecology, plant physiology

Jenna Tilt, PhD, University of Washington, 2007, Assistant Professor (Senior Research) — urban ecology, rural and regional planning

Jamon Van Den Hoek, PhD, University of Wisconsin-Madison, 2012, Assistant Professor — remote sensing, conflict ecology, land use/land cover

Kuipo Walsh, MS, Oregon State University, 2002, GIScience Program Director and Instructor — Geographic Information Science

James Watson, PhD, University of California-Santa Barbara, 2011, Assistant Professor — complex adaptive social-ecological systems

Aaron T. Wolf, PhD, University of Wisconsin, 1992, Professor — water resources, policy and planning, Middle East geopolitics

David Wrathall, PhD, Kings College London, 2011, Assistant Professor — human dimensions of natural hazards

GEOGRAPHY COURTESY FACULTY:

Christopher Daly, PhD, Oregon State University, 1994, Professor — climate mapping, PRISM

PORTLAND STATE UNIVERSITY

GEOGRAPHY DEPARTMENT

DATE FOUNDED: 1959

GRADUATE PROGRAM FOUNDED: 1969

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

(Earth, Environment & Society), Graduate GIS Certificate

GRANTED 9/1/2018-8/31/2019: 18 Bachelors, 9 Masters, 7

GIS Grad Certificates (7 Geography Minors, 8 GIS Minors, 1 Water Resources Minor)

STUDENTS IN RESIDENCE: 112 Majors, 33 Masters, 23

GIS Grad Certificates (35 Geography Minors, 73 GIS Minors, 23 Water Resource Minors)

CHAIR: Martin Lafrenz, Ph.D.

DEPARTMENT ADMINISTRATOR: Joann Ng

FOR FURTHER INFORMATION WRITE TO: Geography Department, Portland State University, P.O. Box 751, Portland, Oregon 97207-0751. Telephone (503) 725-3916. Fax (503) 725-3166. E-mail: geog@pdx.edu. Internet: www.pdx.edu/geography

PROGRAMS AND RESEARCH FACILITIES:

The Geography Department at Portland State University (PSU) links environmental studies and cultural studies in programs centered on environmental issues, social and cultural landscapes, sustainability in urban and natural areas, and geographic information science. Coursework emphasizes systematic and regional approaches to understanding the physical environment and human-environment interactions. Techniques classes (in GIS, remote sensing, spatial analysis, and cartography) provide the tools to analyze complex local, regional, and global phenomena. PSU's location in downtown Portland, with easy access to the Pacific Coast, the Cascade Mountains, and the Willamette Valley, provides ample opportunity for field work-based classes and field work opportunities for research in urban, rural, and wilderness sites. Numerous local, state, and federal agencies are within walking or driving distance, providing opportunities for applied research in a wide variety of areas. Faculty engage in local, regional, and international research projects in hydrology, water resources, ecosystem services, biogeography, climate change, sustainable resource use, land use analysis, cultural and political ecology, the urban environment, geographic education and geographic information science.

AREAS OF CONCENTRATION INCLUDE:

Nature-Society Geography: The examination of environmental change and human influences on natural resources; conservation, cultural and political ecology, environmental ethics, environmental justice, and resource management are also department interest areas.

Geographic Information Science: Techniques for the measurement, collection, analysis, and display of spatial data. Areas of emphasis include cartography, scientific visualization, geographic information systems, remote sensing, global positioning systems, data mining, knowledge discovery, and quantitative methods.

Physical and Environmental Geography: The natural environment of the earth as a set of interrelated systems. Geographic specialties include hydrology and water resources, climate science, geomorphology and soils, biogeography, and alpine environments.

Cultural and Human Geography: The role of culture and the built and natural environment in informing human behavior and shaping places in urban, rural, and overseas locations. Faculty interests include: analysis of place and landscape, rural landscapes, urban morphology, and urban natural areas.

Regional Analysis and International Studies: Focus on the distinctive character of various regions of the world, particularly how nature and society have interacted over time to shape places and landscapes. Regions of particular interest include East Asia, South Asia, Central and South America, Africa, and North America.

Research and teaching facilities within the department include an instructional laboratory featuring networked Windows workstations, two ArcGIS servers, a large format plotter, scanners, and printers. The Department's Center for Spatial Analysis & Research (CSAR) supports research and teaching in cartography, GIS, remote sensing, and quantitative analysis. A GIS/Cartography research lab is also available for graduate student project use. Additional computing facilities for teaching and research are available throughout the campus. A campus-wide ESRI site license provides access to ArcGIS and related spatial-analysis extensions. Other software packages in the lab include ENVI, Adobe Illustrator, Google Sketchup Pro, and Pathfinder Office. The department also supports student use of a variety of open-source graphics and statistical software. Physical geography facilities include equipment for the field and laboratory analysis of soils, water, and tree rings. The University Library houses a map and atlas collection in addition to its nearly 1,000,000 volumes. The department cooperates with interdisciplinary graduate programs on campus, including the Earth, Environment, and Society Ph.D. program in the School of the Environment (SOE) and the MAT/MST program in Social Science. The SOE doctoral program offers courses in resource management, geographic information science, physical geography, and human geography. The Geography Department also offers the Graduate Certificate in Geographic Information Systems.

Graduate students are provided with shared office space and facilities for both research and interaction with faculty and other students. Research opportunities for graduate students are varied. PSU's urban location provides many opportunities for internships with numerous federal, state, and local agencies in Portland. Students may be involved in faculty research projects. There are two student groups: Friends of Geography (FOG) and a student chapter of the American Society for Photogrammetry and Remote Sensing (ASPRS).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: PSU follows the quarter system. Incoming students begin in the fall term. For admission to graduate study a student should normally have completed the minimum preparation for an undergraduate major in geography with a 3.0 average in all undergraduate work. Students with majors in other fields are encouraged to apply if they can demonstrate the ability to pursue graduate work in geography. Students seeking the M.A. degree must demonstrate their competence in the use of a foreign language for geographic research; those preparing for an M.S. degree must show proficiency in advanced techniques in geography. Students in the M.A. program must complete a thesis. Those in the M.S. program may choose between thesis and non-thesis (research paper) options. The department has a limited number of assistantships and scholarships, and awards will be given based on each student's merit. Students interested in the Earth, Environment, and Society Ph.D. through the School of the Environment should contact the faculty member with whom they would like to work.

FACULTY:

Idowu (Jola) Ajibade, Ph.D., Western University - Canada, 2013, Assistant Professor — future cities, climate extremes, sustainability planning, transformation studies, political ecology, urban slums, gender and disaster-risk reduction

David Banis, M.S., Portland State University, 2004, Associate Director of Center for Spatial Analysis & Research (CSAR) and Adjunct Instructor — applied GIS, map design, cultural geography, natural resource management

Barbara Brower, Ph.D., University of California-Berkeley, 1987, Professor — resource policy, mountain geography, pastoralism, cultural ecology, highland Asia, American West

Alida Cantor, Ph.D., Clark University, 2016, Assistant Professor — water resources management, legal geography, environmental justice, political ecology, feminist science and technology studies, human-environment geography

Heejun Chang, Ph.D., Pennsylvania State University, 2001, Professor — hydrology and water resources, climate change impact assessment, ecosystem services, visual spatial analysis, GIS applications in hydrology and water resources

Jiunn-Der (Geoffrey) Duh, Ph.D., University of Michigan, 2004, Associate Professor — GIS, remote sensing, spatial decision support systems, ecological and socioeconomic processes

Chris Grant, Ph.D. University of Oregon, 1995, Senior Instructor — cartography, geospatial analysis, developing effective methods for teaching GIS

Andrés Holz, Ph.D., University of Colorado, Boulder, 2009, Assistant Professor — forest dynamics, disturbance ecology, climate-fire-human relationships

Nancy Hunter, Ph.D., Portland State University, 2016, Research Assistant Professor and Director of the Center for Geography Education in Oregon — geography education

Martin Lafrenz, Ph.D., University of Tennessee, 2005, Associate Professor and Chair — geomorphology and water resources, land use change, geographic information systems

Paul Loikith, Ph.D., Rutgers University, 2012, Assistant Professor — regional climate and climate change, climate and weather extremes, climate model analysis

Melissa Lucash, Ph.D., The State University of New York, 2005, Research Assistant Professor — forest ecology, climate change, biogeochemistry, landscape ecology, ecological modeling, forest management, tree physiology, integrating research into decision-making, K-12 education

Andrew Martin, Ph.D., Florida State University, 2012, Research Assistant Professor — hydrometeorology, numerical weather prediction, cloud microphysics, atmospheric chemistry, water resources in the Western United States

Hunter Shobe, Ph.D., University of Oregon, 2005, Associate Professor — cultural and urban geography

Martin Swobodzinski, Ph.D., San Diego State University/University of California-Santa Barbara, 2012, Assistant Professor and Director of Center for Spatial Analysis & Research (CSAR) — geographic information science, behavioral geography, human-computer interaction, individual decision making, public participation, transportation

RESEARCH AND AFFILIATED FACULTY:

Michael C. Houck, M.S.T., Portland State University, 1972, Urban Naturalist, Audubon Society of Portland; Director, Urban Greenspaces Institute; Loeb Fellow, Harvard University, 2003-04 — urban wildlife, wetlands, growth management

Nathan McClintock, Ph.D., Geography, University of California, Berkeley, 2011 — urban agriculture and food systems, urban political ecology, critical urban geography

Rebecca McLain, Ph.D., Forest Management, University of Washington, 2000 — natural resource governance and tenure, community-based participatory mapping, and socioeconomic assessment

Scott Nowicki, Ph.D. Geological Sciences, Arizona State University, Tempe, 2006 — remote sensing and GIS, environmental monitoring, instrument development

Tim Palmer, B.S., The Pennsylvania State University, 1971 — landscape architecture, rivers, landscape photography

Colin Thorne, Ph.D., University of East Anglia, U.K., 1978 — river science, fluvial geomorphology

EMERITI FACULTY:

Teresa L. Bulman, Ph.D., University of California-Davis, 1990, Professor Emerita — research in geography education, teaching in climate and water resources
Daniel M. Johnson, Ph.D., Arizona State University, 1977, Professor Emeritus — climatology, hydrology, resource management
D. R. Lycan, Ph.D., Washington, 1964, Professor Emeritus — demography, GIS, Canada
Joseph Poracsky, Ph.D., University of Kansas, 1984, Professor Emeritus — cartography/geographic visualization, applied GIS and remote sensing, urban natural areas/urban forest
Larry W. Price, Ph.D., Illinois, 1970, Professor Emeritus — geomorphology, biogeography, periglacial environments, mountains
Martha A. Works, Ph.D., Louisiana State University, 1985, Professor Emerita — Latin America, cultural geography, agriculture and food supply, rural sustainable development

UNIVERSITY OF OREGON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1920s

GRADUATE PROGRAM FOUNDED: 1923

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

HEAD: Daniel Gavin

DEPARTMENT MANAGER: Lisa Knox

FOR FURTHER INFORMATION WRITE TO: Department of Geography, 1251 University of Oregon, Eugene, Oregon 97403-1251. Telephone (541) 346-4555. Fax (541) 346-2067. E-mail: uogeog@uoregon.edu. Internet: geography.uoregon.edu.

PROGRAMS AND RESEARCH FACILITIES:

Research and graduate education in the Department of Geography focus on the subfields listed below:

Physical geography: Biogeography, climatology and climatic change, fluvial geomorphology, paleoecology, Quaternary studies

Environmental studies: Forest and ecosystem issues, river and watershed issues, biodiversity and global environmental change, policy and law

Human geography: political-economic (especially international relations, territorial conflict, international development, globalization), cultural-social (especially historical geography, migration, race, ethnicity and identity, urban geography, gender studies and tourism), and human-environment relations (especially cultural/political ecology); and behavioral geography (especially spatial cognition, map use, and neuroimaging applications in behavioral research)

Geographic information science: Cartography, GIS, data analysis and visualization, spatial analysis and modeling, and mapping for the blind and visually impaired

Geographic education: (especially teaching Advanced Placement and K-12 geography)

Regional geography: Africa, China, Europe, Latin American, the Middle East, and North America

The department houses the award-winning InfoGraphics Lab (<http://infographics.uoregon.edu/>), which focuses on integration of GIS and graphic design tools and techniques for map and atlas creation, interactive mapping, and visualization. The InfoGraphics Lab conducts a wide variety of research projects sponsored by government agencies and other organizations. The department also

maintains field equipment and wet labs in support of physical geography research. The University Library Map and Aerial Photography Collection has extensive holdings of digital, current, and historical maps and aerial photography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Quarter system. Admission Requirements: Lower division courses in the Department of Geography have no prerequisites. *Financial aid:* For questions regarding financial aid, scholarships, student loans, and work-study jobs, write to: Office of Student Financial Aid and Scholarships, 1278 University of Oregon, Eugene, OR 97403-1278 or see financialaid.uoregon.edu.

The Department offers degrees in Geography (B.A. and B.S.) and in Spatial Data Science and Technology (B.S.). The Geography degree requires coursework in human, physical, regional geography, and geographic information science. The Spatial Data Science degree offers specialized training in geographic information and data science. Degrees require language training or a minimum of two terms of college-level mathematics.

GRADUATE: The Department selects for admission on the basis of a statement of purpose for pursuing graduate work, three letters of recommendation, GRE scores, and past academic records. Graduate Teaching Fellowships, which provide a stipend and cover out-of-state tuition, require assisting in courses, instructing a course, or working with a professor on a research grant. All non-native speakers of English must submit an IELTS or TOEFL score.

The Masters degree in Geography (M.A. or M.S.) focuses on developing a general understanding of the breadth of human and physical geography, and learning to do original research in a sub-field of geography. A thesis is required. The practice-oriented Masters of Science in Geography Education is aimed at secondary school teachers. Coursework for this degree includes breadth courses in human geography, physical geography and geographic information science, and a final masters project that develops a learning activity based on original research for use in schools.

The Ph.D. program in Geography requires specialization in one or more sub-fields supported by the Department, development of appropriate research skills and methodologies for the sub-field, and completion of a dissertation that represents an original contribution to knowledge. Ph.D. students are also expected to develop background across the breadth of human and physical geography, as required for the Masters degree. Although the Department requires knowledge of the fundamentals of geography, it welcomes graduate applications from students whose undergraduate work has been in other disciplines. A number of teaching/research assistantships and internship opportunities are available on a competitive basis.

FACULTY:

Patrick J. Bartlein, Ph.D., Wisconsin-Madison, 1978, Professor — climatology, data analysis and visualization

Daniel P. Buck, Ph.D., UC Berkeley, 2002, Associate Professor, Asian Studies — rural-urban relations, industrialization, political economy, China

Shaul E. Cohen, Ph.D., Chicago, 1991, Associate Professor — political and cultural geography, environmental, Middle East, Northern Ireland

Carolyn S. Fish, Ph.D., Penn State, 2018, Assistant Professor — cartography, map design, climate change communication, mapping environment-society interactions

Mark A. Fonstad, Ph.D., Arizona State, 2000, Associate Professor — geomorphology, hydrology, remote sensing, environmental simulation

Daniel G. Gavin, Ph.D., Washington, 2000, Professor and Department Head — biogeography, paleoecology

Leigh T. Johnson, Ph.D., UC Berkeley, 2011, Assistant Professor — political ecology, development, economic geography

Amy K. Lobben, Ph.D., Michigan State, 1999, Professor — human-environment interaction, spatial data science, geospatial cognition, neuroimaging

Henry Hui Luan, Ph.D., University of Waterloo, 2016, Assistant Professor — Bayesian spatial and spatio-temporal statistics, big spatial data analytics, GIS and public health/crime, food access, mobile geospatial health data analysis

W. Andrew Marcus, Ph.D., Colorado, 1987, Professor — hydrology, fluvial geomorphology, remote sensing of rivers, Yellowstone and mountain environments

Patricia F. McDowell, Ph.D., Wisconsin-Madison, 1980, Professor — geomorphology, river management and restoration, Quaternary environments

James E. Meacham, M.A., Oregon, 1992, Senior Research Associate and Director, InfoGraphics Laboratory — cartographic design and production, geographic information systems

Katharine (Katie) Meehan, Ph.D., University of Arizona, 2010, Associate Professor — urban sustainability, water policy

Alexander B. Murphy, Ph.D., Chicago, 1987, Professor — political and cultural geography, Europe, law and geography

Laura Pulido, Ph.D., University of California, Los Angeles, 1991, Professor — critical human geography, race, environmental justice, labor, chicana/o studies, popular education

Lucas C. R. Silva, Ph.D., University of Guelph, ON, Canada, 2011, Assistant Professor — terrestrial ecology, soil-plant-atmosphere interactions, climate change impacts on natural and managed lands

Xiaobo Su, Ph.D. National University of Singapore, 2007, Associate Professor — cultural landscape, tourism, identity, China

Peter A. Walker, Ph.D., UC Berkeley, 1997, Professor — cultural and political ecology, human-environmental relations, Africa

EMERITI FACULTY:

Stanton A. Cook, Ph.D., UC, Berkeley, 1960
Carl L. Johannessen, Ph.D., UC Berkeley, 1959
Alvin W. Urquhart, Ph.D., UC Berkeley, 1962
Ronald Wixman, Ph.D., Chicago, 1978

PENNSYLVANIA

BUCKNELL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1940

DEGREES OFFERED: B.A.

GRANTED 9/1/14-8/31/15: 6 Bachelors

MAJORS: 20

CHAIR: Duane Griffin

DEPARTMENT ACADEMIC ASSISTANT: Janel Kopp

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Duane Griffin, Department of Geography, Bucknell University, Lewisburg, Pennsylvania 17837. Telephone (570) 577-1949. Fax (570) 577-3536. E-mail: dgriffin@bucknell.edu. Internet: www.bucknell.edu/Geography.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography emphasizes critical spatial thinking concerning human-environment relations, political economy of global restructuring, sustainability, social and special justice, geographic information, and human and environmental geography in a Liberal Arts context. Regional emphases include North America, Latin America, and Europe. The department's strengths are complemented by its

association with the Department of International Relations, the Department of Environmental Studies and Science, and a number of study-abroad programs, for example Bucknell in Nicaragua and Bucknell in Northern Ireland, in addition to its location that offers diverse field research opportunities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Two semesters. For information on admissions and financial aid, contact the Office of Admissions, Freas Hall, Bucknell University, Lewisburg, Pennsylvania 17837.

FULL AND PART-TIME FACULTY:

Duane A. Griffin, Ph.D., Wisconsin-Madison, 1997, Associate Professor — physical and human-environmental geography, cartography, GIS, biogeography, climate change

Ben Marsh, Ph.D., Pennsylvania State, 1983, Professor — geoarchaeology, human ecology, mapping, GIS, spatial equity

Vanessa Massaro, Ph.D., Pennsylvania State, 2014, Assistant Professor — feminist geography, critical race theory, alternative political economy, critical and reflexive research methodologies

Karen M. Morin, Ph.D., Nebraska-Lincoln, 1996, Professor, Associate Provost — feminist, cultural, social and historical geography

Adrian N. Mulligan, Ph.D. Arizona, 2001, Associate Professor and Chair — political, social, and cultural geography, identity politics, historical geography, Europe and North America

Paul Susman, Ph.D., Clark, 1979, Professor — regional development, Third World development, Caribbean, Central America

EDINBORO UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1945

DEGREES OFFERED: B.A., B.S.

MAJORS: 87

CHAIR: Brian Zimmerman

DEPARTMENT ADMINISTRATIVE ASST: Penny Tingley

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Brian Zimmerman, Chair, Department of Geosciences, Edinboro University of Pennsylvania, Edinboro, PA, 16444. Telephone (814) 732-2529. Fax (814) 732-1691. Email: geosciences@edinboro.edu. Internet: <http://www.edinboro.edu> Search keyword: Geosciences

PROGRAMS AND RESEARCH FACILITIES: The Department offers two degrees in Geography: B.A. in Environmental Studies and B.S. in Geographic Information Science. The Department also offers a B.S. degree in Geology (traditional program and concentration in Environmental Geology). Courses cover a variety of regional and topical subjects in geography, environmental studies, geographic techniques, and the earth sciences. Facilities include a GIS and cartography laboratory, a weather station, and a biogeography laboratory. The department has a collection of topographic and other maps, aerial photographs, journals, and books. The University Library has over 300,000 volumes plus 680,000 microform units and provides access to more than 100 full-text journal databases. Major research universities and libraries in Pittsburgh, Cleveland, and Buffalo are within 100 miles of the campus.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system, plus summer sessions. For admissions information contact the Admissions Office. For financial aid information contact the Financial Aid Office.

FACULTY:

Richard Deal, Ph.D., South Carolina, 2000, Assistant Professor — cartography, GIS

Karen Eisenhart, Ph.D., Colorado, 2004, Associate Professor — physical geography, biogeography

Baher A. Ghosheh, Ph.D., SUNY - Buffalo, 1988, Professor — cultural geography, international trade, Middle East

David W. Hurd, Ph.D., Cleveland State, 1997, Professor — atmospheric and space science

Wook Lee, Ph.D., Ohio State, Associate Professor — urban and transportation geography, urban and regional planning, GIS, and spatial analysis / quantitative methods

Kerry A. Moyer, Ph.D., Penn State, 1993, Professor — meteorology, climatology

Laurie A. Parendes, Ph.D., Oregon State, 1997, Professor — environmental issues, biogeography, water resources

Joseph F. Reese, Ph.D., Texas at Austin, 1995, Professor — structural geology

Eric Straffin, Ph.D., Nebraska, 2000, Professor — Quaternary geology, sedimentology

Tamara Misner, Ph.D., University of Pittsburgh, 2014, Assistant Professor — hydrogeology, geomorphology

Dale Tshudy, Ph.D., Kent State, 1993, Professor — invertebrate paleontology

Brian S. Zimmerman, Ph.D., Washington State, 1991, Professor and Chair — economic geology

KUTZTOWN UNIVERSITY

DEPARTMENT OF GEOGRAPHY**DATE FOUNDED:** 1961**DEGREES OFFERED:** B.A. in Geography, B.S. in Environmental Science/Geography**GRANTED 7/01/18 - 5/12/19:** 6 B.A., 3 B.S.**MAJORS:** 54**CHAIR:** Richard S. Courtney**DEPARTMENT SECRETARY:** Dorothy J. Siravo**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Chair, Department of Geography, 105 Graduate Center, Kutztown University, Kutztown, Pennsylvania 19530. Telephone (610) 683-4364 Fax (610) 683-4941. E-mail: courtney@kutztown.edu. Information at: www.kutztown.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a Bachelor of Arts degree in four tracks: general, environmental, globalization and planning as well as a Bachelor of Science degree in Environmental Science/Geography. The Department houses a number of facilities to support instructional and research activities of students and faculty. The GIS/Computer Cartography laboratories are state-of-the-art facilities where students may work with the major GIS, remote sensing, statistics, and business graphics software packages. Research opportunities include major urban areas, unique rural cultures, sustainable agricultural environments, geographic information systems, and planning. An internship is required in the environmental and planning tracks, and for the B.S. Environmental Science/Geography track, offering students the opportunity to attain real-world experience.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Kutztown University operates on the semester system. Two five-week summer sessions provide students an opportunity to accelerate their program. The Director of Admissions should be contacted for further information on admission and financial aid. The Carrie Babb Scholarship is offered to qualifying, incoming freshmen by Kutztown University Department of Geography to recruit and retain geography majors that demonstrate excellence in academic

ability and achievement. Available scholarship funds are divided among chosen recipients, who must register as full-time students. More information and application at www.kutztown.edu/geography/scholarships.

FACULTY:

Mario L. Cardozo, Ph.D., University of Texas at Austin, 2013, Assistant Professor — human-environment interactions, conservation, GIS, remote sensing, Latin America

Maira Conway, Ph.D., CUNY Graduate Center, 2014, Assistant Professor — economic geography, GIS, transportation, urban issues

Richard S. Courtney, Ph.D., Ohio State University, 1993, Associate Professor and Chair — physical, cartography, research methods, urban

Michael A. Davis, Ph.D., Ohio State University, 2011, Associate Professor — physical, atmospheric science, meteorology, weather analysis, climatology

Mathias Le Bossé, Ph.D., University of Wisconsin at Madison, 2000, Associate Professor — cultural geography, political, human and regional, Europe

Steven M. Schnell, Ph.D., University of Kansas, 1998, Professor — cultural, Africa, North America, globalization, local foods and economies

ADJUNCT FACULTY

Mr. Matthew West, M.S. Temple University, 2005, Instructor — GIS, transportation planning

THE PENNSYLVANIA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY**DATE FOUNDED:** 1945**GRADUATE PROGRAM FOUNDED:** 1946**DEGREES OFFERED:** B.A., B.S., M.S., M.G.I.S., Ph.D.**GRANTED 6/1/18-5/31/19:** 29 Bachelors, 52 Masters, 9 Ph.D.

STUDENTS IN RESIDENCE: 119 Undergraduate Majors, 122 Undergraduate Minors, 16 M.S., 44 Ph.D., 5 Postdoctoral Scholars

NOT IN RESIDENCE: 211 M.G.I.S. Students, 533 Certificate Students

HEAD OF DEPARTMENT: Cynthia Brewer**DEPARTMENT ADMINISTRATIVE MANAGER:** Denise Kloehr

FOR FURTHER INFORMATION WRITE TO: Jessica Perks, Department of Geography, 302 Walker Building, University Park, Pennsylvania 16802. Telephone (814) 865-3434. Fax (814) 863-7943. E-mail: grad@geog.psu.edu. Internet: www.geog.psu.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography offers a full range of baccalaureate and graduate degrees with diverse learning and research opportunities, on and off campus. The department offers concentrations in all four major subfields of geography: human, physical, environment and society, and GIScience. Across these subfields we emphasize the geography of global change. Our perspectives span local to global levels across spatial and temporal scales. Addressing these components of global change, we also advance geographical information science and technology needed to use new spatial data generated from combinations of specialized sensors and the Internet of things. Research and specialization clusters include: Environmental Change and Prediction; Food Security and Human Health; Geospatial

Big Data Analytics; Justice, Ethics, and Diversity; Population, Environment, and Governance; Spatial Modeling and Remote Sensing.

The department hosts three major research centers. *The GeoVISTA Center* (with affiliate labs ChoroPhronesis and GeoInformatics and Earth Observation) emphasizes geovisual analytics, social processes, immersive realities, remote sensing, and human interaction with geospatial information. Emphases in the *Center for Landscape Dynamics* are understanding the social and ecological factors that govern landscape resilience and inform decision-making in the northeastern United States. *Riparia* conducts and coordinates interdisciplinary research, monitoring, and training on wetlands. Additional departmental labs include PLACE, Vegetation Dynamics, CLIM, HELIX, and GeoSyntheSES, as well as the Gould Center. Departmental research labs and centers are described at www.geog.psu.edu/research/research-centers-and-labs.

The Department of Geography benefits from close ties to the University Office of Global Programs, the Penn State Institutes of Energy and the Environment (IEE), the Earth and Environmental Systems Institute (EESI), the Social Science Research Institute (SSRI), the Institute for CyberScience (ICS), the Rock Ethics Institute, and the Population Research Institute. The department occupies excellent facilities on a beautiful campus and provides office and lab spaces for resident graduate students. In addition to the resources typical of a top-ranked major research university, the department maintains multiple computing facilities in support of its research and instructional missions. The department employs information technology specialists, and equipment and software are regularly updated.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Penn State accepts applications through the Common Application as well as the MyPennState undergraduate admissions portal. The University follows the 15-week semester system with one four-week and two six-week summer sessions. Based on high school performance, SAT scores, and advanced standing, students are admitted to the University Park campus (in State College) or to one of twenty-three other campuses. All geography degrees are completed with junior and senior years at University Park campus, with many students becoming majors when they relocate to University Park. The University participates in all federal and state financial aid programs; scholarships and loans are available at the college level. Degrees are awarded in the College of Earth and Mineral Sciences in geography (B.A. or B.S.) with certificates in Climate and Environmental Change; Environment and Society; Geographic Information Science; Geospatial Big Data Analytics; Global Environmental Systems; Justice, Ethics, Diversity in Space; Landscape Ecology; and Landscapes: Societies, Cultures, and Political Economies. The program offers minors in Geography, Geographic Information Science, Climatology, Environmental Inquiry, Information Science and Technology for Earth and Mineral Sciences, and Watersheds and Water Resources. The department also participates in concurrent majors; honors programs; and interdisciplinary programs such as the Bachelor of Philosophy, Letters Arts and Sciences, and Earth Sciences. All majors are encouraged to participate in one- or two-semester study abroad programs or shorter international study/research experiences. Students may earn academic credit for approved internships in government agencies, private firms, and university teaching and research. Capable undergraduate students benefit from close instructional and research interaction with graduate students and faculty. Detailed information about undergraduate programs is available at www.geog.psu.edu/degree-programs/undergraduate-degrees or by contacting Jodi Vender at advising@geog.psu.edu.

Professional: The department offers online certificate and master's degree programs in Geographic Information Systems, Remote Sensing

and Earth Observation, Geospatial Programming and Web Map Development, and Geospatial Intelligence to meet the needs and busy schedules of full-time professionals who are able to study only part-time and at a distance. With more than a century of commitment to outreach and distance education, Penn State is also a leader in the use of information technology in higher education. Since 1998 the University has offered an array of certificate and degree programs tailored to meet the needs of adult professional students through the World Campus at www.worldcampus.psu.edu. The Department of Geography's certificate program in Geographic Information Systems is a 12-credit post-baccalaureate program that helps students become more skillful and knowledgeable GIS users. The graduate certificate program in Remote Sensing and Earth Observation is a 12-credit program for GIS practitioners who seek formal education in technologies and methods associated with remote sensing, image analysis, and terrain modeling. Two graduate certificates in Geospatial Intelligence require 14 credits and support current as well as aspiring analysts whose responsibilities include planning for emergencies, coordinating responses to natural and human-induced disasters, and planning and conducting national security actions. The 12-credit graduate certificate in Geospatial Programming and Web Map Development helps geospatial professionals become skillful developers of software for the GIS, mapping, and spatial data science industries. The Master of GIS (MGIS) degree is a 36-credit program for those who seek leadership roles in the geospatial profession. The certificate and MGIS programs follow an accelerated schedule of five ten-week terms per year designed to support adult learners who are working full-time while completing their studies. All courses are instructor-led and are offered through the University's web-based course management system. See the department's online geospatial education program gateway at: gis.e-education.psu.edu.

Resident Graduate: The department has minimal course requirements for the resident graduate program. Programs are individually designed to suit personal needs and professional aims, and range from largely course work to largely tutorial and seminar formats. Program emphases are well reflected in faculty specializations listed below. Work outside geography is strongly encouraged. We participate in dual-degree and intercollege graduate programs in Women's, Gender, and Sexuality Studies; Ecology; Climate Science; Demography; and African Studies. Applicants must submit GRE scores and have a junior-senior GPA over 3.0 (A=4.0). Teaching and research assistantships carry a competitive semester stipend plus tuition, health benefits, and fees. Fellowships and employment opportunities are available. A thesis or a publishable research paper is required of M.S. candidates; Ph.D. students must complete a minimum of one academic year in residence beyond the M.S. degree. An accelerated five-year M.S. to Ph.D. program is offered. Detailed information about the graduate programs is available at www.geog.psu.edu/degree-programs/graduate-degrees.

STATEMENT ON RIGHTS AND COMMUNITY:

Penn State Geography is a diverse and inclusive community with representation from many countries, racial and ethnic groups, and perspectives. Our research and teaching activities embrace this diversity because it is our source of strength that also advances the goals of a pluralistic society and integrated world. Penn State Geography recognizes the value of new knowledge and the role of science in advancing human and planetary well-being. Our central mission is to advance knowledge and the human condition. We remain committed to making the world a better place for all.

RESIDENT PROGRAM FACULTY:

Jennifer Baka, Ph.D., Yale, 2012, Assistant Professor — energy geography, political ecology, industrial ecology, governance
Trevor Birkenholtz, Ph.D., Ohio State, 2007, Associate Professor — political ecology, development, social theory, nature-society relations, gender-dynamics, South Asia, water resources

- Cynthia A. Brewer, Ph.D., Michigan State, 1991, Professor and Head of Department — cartographic communication and visualization, map design, color theory, multi-scale mapping, atlas production
- Andrew M. Carleton, Ph.D., Colorado, 1982, Professor — climatology, synoptic climatology, climate dynamics, climate impacts of aviation contrails, human impacts on climate, climate variability and change, land surface-climate interactions, polar climatology, polar lows, Southern Ocean, Antarctica
- Guido Cervone, Ph.D., George Mason, 2005, Professor and Associate Director of the Institute for CyberScience — remote sensing, environmental hazards, geoinformatics, social media, spatial statistics, complex economic systems
- Robert G. Crane, Ph.D., Colorado, 1981, Professor and Associate Vice Provost for Global Programs — climatology, regional scale climate change, African climates
- Lorraine Dowler, Ph.D., Syracuse, 1997, Professor and Associate Head of Undergraduate Programs — social theory, cultural geography, gender, qualitative methods
- Roger M. Downs, Ph.D., Bristol, 1970, Professor — spatial cognition, cognitive development, geography education, behavioral geography
- William E. Easterling, Ph.D., North Carolina, 1984, Professor and Associate Director for the Directorate for Geosciences, National Science Foundation — environmental change, agricultural systems, climate, renewable natural resources, land use
- Christopher Fowler, Ph.D., Washington, 2007, Associate Professor and Director of the Peter R. Gould Center for Geography Education and Outreach — inequality, population, scale, economic, urban, race, segregation
- Helen Greatrex, Ph.D., Reading, 2012, Assistant Professor of Geography and Statistics — geostatistics, uncertainty estimation, historical weather analysis, satellite rainfall estimation, weather risk management, index insurance, agricultural modeling
- Joshua F. J. Inwood, Ph.D., Georgia, 2007, Associate Professor — social and racial dimensions of human vulnerability, global ethics
- Brian King, Ph.D., Colorado, 2004, Professor and Associate Head of Resident Graduate Programs — development, conservation, Southern Africa, cultural and political ecology, health, livelihoods, justice
- Alexander Klippel, Ph.D., Bremen, 2003, Professor and Director of the Penn State Center for Immersive Technologies — 3D modeling, virtual and augmented reality, geographical information science, spatial languages, geographic event conceptualization, behavioral research methods
- Alan M. MacEachren, Ph.D., Kansas, 1979, Professor and Director of GeoVISTA Center — visual analytics, geovisualization, geographic information retrieval, place and big data
- Bronwen Powell, Ph.D., McGill, 2012, Assistant Professor of Geography and African Studies — social, cultural, and environmental drivers of diet quality and food security, relationships between biodiversity and human nutrition
- Anthony Robinson, Ph.D., Penn State, 2008, Associate Professor and Director of Online Geospatial Education Programs — geovisual analytics, cartography, user-centered design, geovisualization, information visualization
- Emily Rosenman, Ph.D., British Columbia, 2017, Assistant Professor — urbanization, housing, financialization, philanthropy, impoverishment
- Erica A. H. Smithwick, Ph.D., Oregon State, 2002, Professor, Associate Director of the Institutes of Energy and the Environment (IEE), and Director of the Ecology Institute — landscape ecology, ecosystem ecology, biogeochemistry, fire ecology
- Alan H. Taylor, Ph.D., Colorado, 1987, Professor — disturbance and climate effects on vegetation, landscape ecology, biogeography, biological conservation, environmental management, fire ecology, paleoecology
- Luke D. Trusel, Ph.D., Clark, 2014, Assistant Professor — climate variability and change, ice sheet surface mass balance, ice core paleoclimatology, remote sensing
- Melissa W. Wright, Ph.D., Johns Hopkins, 1997, Professor of Geography and Women's, Gender, and Sexuality Studies (WGSS) and Head of Department of WGSS — social theory, feminist theory, political economy, Mexico-U.S. border, qualitative methods
- Manzhu Yu, Ph.D., George Mason, 2017, Assistant Professor — geographic information science, spatiotemporal theories and applications, big data and cloud computing, natural hazards and extreme weather, environmental informatics, spatial data science and deep learning
- Karl S. Zimmerer, Ph.D., UC-Berkeley, 1988, Professor — land use and agriculture change, environmental impacts (biodiversity, soils, water), economic development, nature-society theory, human-environment modeling
- EMERITI FACULTY:**
- Ronald F. Abler, Ph.D., Minnesota, 1968
- Robert P. Brooks, Ph.D., Massachusetts, 1980
- Rodney A. Erickson, Ph.D., Washington, 1973
- Deryck W. Holdsworth, Ph.D., British Columbia, 1981
- Donna J. Peuquet, Ph.D., SUNY Buffalo, 1977
- Lakshman Yapa, Ph.D., Syracuse, 1969
- Brent Yarnal, Ph.D., Simon Fraser, 1982
- RESEARCH AND COURTESY FACULTY:**
- Sarah Chamberlain, M.S., San Francisco State University, 1995, Associate Research Professor and Director of the PAC Herbarium — wetlands, botany, graminoid, floristic quality, monitoring and assessment, plant identification
- Larry Gorenflo, Ph.D., UC Santa Barbara, 1985, Professor of Landscape Architecture and Geography — biodiversity conservation, cultural ecology, East Africa, Latin America, Southeast Asia
- Gregory Jenkins, Ph.D., Michigan, 1991, Professor of Meteorology and Atmospheric Science and Geography — atmospheric/air chemistry, climate, tropical meteorology, weather, climate and air quality of West Africa
- Stephen A. Matthews, Ph.D., Wales, 1990, Professor of Sociology, Anthropology, Demography, and Geography and Director of the Graduate Program in Demography — demography, health and well-being, geographic information systems, multi-method research
- Douglas A. Miller, Ph.D., Penn State, 1999, Research Professor and Director of the Center for Environmental Informatics, Earth and Environmental Systems Institute — remote sensing, geographic information science, landscape ecology, soils, geomorphology
- Michael Nassry, Ph.D., Virginia Tech, 2013, Assistant Research Professor, Riparia — wetland hydrology, climate change impacts on aquatic ecosystems, landscape controls on water quality
- Hari M. Osofsky, Ph.D., Oregon, 2013, Dean of Penn State Law and the School of International Affairs, Distinguished Professor of Law, Professor of International Affairs and Geography
- Nathan Piekielek, Ph.D., Montana State, 2012, Kalin Librarian for Technological Innovations, Geospatial Services Librarian and Assistant Professor of Geography — GIS and remote sensing, informatics, conservation ecology, big historical geodata
- Denice Wardrop, Ph.D., Penn State, 1997, Research Professor and Director of Riparia — landscape ecology, wetland plant communities, effects of human disturbance on wetland ecosystems, wetland condition assessment
- ONLINE PROGRAM FACULTY, DEPARTMENT OF GEOGRAPHY:**
- Todd Bacastow, Ph.D., Penn State, 1992, Teaching Professor and Director of Geospatial Intelligence Programs — GIS, geospatial intelligence, geospatial analytic methods

Ryan Baxter, M.S., Penn State, 1999, Associate Teaching Professor — geographic information systems, cloud and server technology, environmental applications

Justine Blanford, Ph.D., Imperial College, 2004, Associate Teaching Professor — spatial analysis, spatial and temporal ecology of disease

James Detwiler, M.S., Delaware, 1999, Associate Teaching Professor — GIS programming and customization, climatology, distance education

Panagiotis Giannakis, Ph.D., Arkansas, 2019, Assistant Teaching Professor — proximity dynamics, economic & industrial geography, networks analysis, GIS, corporate governance

Adrienne Goldsberry, M.A., UC-Santa Barbara, 2002, Assistant Teaching Professor and GIS Certificate Program Advisor — geographic information systems, urban planning, distance education

Fritz Kessler, Ph.D., Kansas, 1999, Associate Teaching Professor — projections, datums, coordinate systems, cartography

Elizabeth King, M.Ed., Penn State, 2003, Associate Teaching Professor and Assistant Program Manager for Online Geospatial Education — geographic information systems, adult education, problem-based learning

Karen Schuckman, MGIS, Penn State, 2009, Associate Teaching Professor — remote sensing, geospatial technology, photogrammetry

Gregory A. Thomas, Ph.D., Indiana University of Pennsylvania, 2014, Assistant Teaching Professor and Assistant Director of Geospatial Intelligence Programs — intelligence analysis, law enforcement

Michelle Zeiders, M.S., Shippensburg, 1995, Assistant Teaching Professor — geographic information systems, spatial databases, environmental applications

Additional part-time faculty teaching in Penn State online geospatial education programs are listed at https://gis.e-education.psu.edu/we_are/faculty

SLIPPERY ROCK UNIVERSITY

DEPARTMENT OF GEOGRAPHY, GEOLOGY, AND THE ENVIRONMENT

DATE FOUNDED: 1930

DEGREES OFFERED: B.S. in Geography with concentrations in Environmental Studies and Sustainability, Global Studies, and Applied Geographic Technology; B.S. in Environmental Geosciences with concentrations in Environmental Science and Geology; B.A. in Environmental Geosciences; Certificate in Geographic Information Technology; Certificate in Sustainability

GRANTED 1/18-12/31/18: 16 B.S. Geography, 23 B.S. Environmental Geoscience, 2 B.A. Environmental Geoscience

MAJORS: 44 B.S. Geography, 71 B.S. Environmental Geoscience, 10 B.A. Environmental Geoscience

CHAIR: Stentor Danielson

PROGRAM ADMINISTRATIVE ASST: Cindy Schnur

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, Geology, and the Environment, 319 Advanced Technology and Science Hall, Slippery Rock University, 1 Morrow Way, Slippery Rock PA 16057. Telephone (724) 738-2048. Fax (724) 738-4217. E-mail: gge.info@sru.edu Internet: <http://www.sru.edu/academics/colleges-and-departments/ches/departments/geography-geology-and-the-environment>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography, Geology, and the Environment at Slippery Rock University offers an integrated curriculum in human and environmental geography, earth sciences, and geographic technology. Undergraduate students have the opportunity to work with faculty in research and participate in numerous field experiences. Students from other programs with an interest in geography are able to complete a Certificate in Sustainability or Geographic Information Technology, the former of which also counts as a Thematic Thread in the Rock Integrated Studies general education curriculum.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major program is the same as that for admission to Slippery Rock University. In addition to the Rock Integrated Studies Program requirements, Geography undergraduate majors are expected to take The Natural Environment, Cultural Geography, Cartography, Economic Geography, Introduction to Geospatial Technology, General Methods of Fieldwork, Introduction to Geographic Information Science, and a capstone course (World Environmental Cultures or Field Investigations in the Geosciences). Each concentration also requires approximately 30 additional credits of core and elective coursework. Environmental Geoscience majors are expected to take Earth Materials and Processes, Earth History, Quantitative Methods, foundation courses in physics, chemistry, and math, and approximately 40 additional credits of core and elective coursework in their concentration.

FACULTY:

Patrick A. Burkhart, Ph.D., Lehigh University, 1994, Professor — hydrology, glacial geology, science education

Patricia A. Campbell, Ph.D., University of Pittsburgh, 1994, Associate Professor — structural geology

Xianfeng Chen, Ph.D., West Virginia University, 2005, Associate Professor — remote sensing, environmental modeling

Stentor Danielson, Ph.D., Clark University, 2007, Associate Professor — cultural geography, environmental justice, wildfire, Australia

Heike Hartmann, Ph.D., Justus Leibig University, 2007, Associate Professor — hydrology, climatology, environmental modeling

Robert J. Livingston, Ph.D., University of Kansas, 2001, Associate Professor — biogeography, geographic information systems, Latin America

Tamra Andrade Schiappa, Ph.D., University of Idaho, 1999, Professor — invertebrate paleontology, stratigraphy, science education

Langdon Smith, Ph.D., University of Kansas, 2002, Professor — conservation, environmental law, public lands

Julie Amy Snow, Ph.D., University of Rhode Island, 2002, Professor — meteorology and climatology, atmospheric chemistry, oceanography

Jialing Wang, Ph.D., Florida State University, 2005, Associate Professor — land use change, landscape ecology, geographic information systems, China

Michael J. Zieg, Ph.D., Johns Hopkins University, 2001, Professor — igneous and metamorphic petrology

TEMPLE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND URBAN STUDIES

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1969

DEGREES OFFERED: B.A. in Geography and Urban Studies; B.A. in Environmental Studies; Undergraduate Certificate in Geographic Information Systems; M.A. in Geography and Urban Studies; Professional Science Master's (PSM) in Geographic Information Systems;

Graduate Certificate in Geographic Information Systems;
Ph.D. in Geography and Urban Studies

GRANTED 09/01/18-08/31/19: 24 Bachelors in Geography and Urban Studies; 41 Bachelors in Environmental Studies; 2 Masters of Arts in Geography and Urban Studies; 8 Master of Professional Science in GIS; 3 Ph.D. in Geography and Urban Studies

STUDENTS IN RESIDENCE: 191 Majors; 6 M.A.; 25 Professional Science Masters in GIS; 21 Ph.D.

CHAIR: Melissa R. Gilbert

DEPARTMENT ADMINISTRATIVE ASST: Vicki Giammarco

FOR FURTHER INFORMATION WRITE TO: Manager, Administration, Department of Geography and Urban Studies, Temple University, 308 Gladfelter Hall, 1115 West Berks Street, Philadelphia, PA 19122. Telephone (215) 204-7692. E-mail: guses@temple.edu. Internet: www.temple.edu/cia/gus

PROGRAMS AND RESEARCH FACILITIES: The department offers a Ph.D. and Master of Arts degrees in Geography and Urban Studies, a Professional Science Master's (PSM) in GIS, a B.A. in Geography and Urban Studies, a B.A. in Environmental Studies, and Graduate and Undergraduate Certificates in GIS. Our curriculum focuses on four areas: Globalization, Sustainability, Social Justice, and Geographic Methods.

The Ph.D. program in Geography and Urban Studies trains students in interdisciplinary and spatially integrative frameworks and equips them with specialized skills to apply to real-world conditions. The complexity and pace of economic, environmental, and social change requires an integrative graduate program that provides students with students with a strong analytical foundation that stresses spatial relations, scale transitions, place and context, and nature societal relations. The program prepares students for careers in institutions of higher education in the field of geography, urban planning, policy studies, and interdisciplinary international, environmental, and development programs, as well as in research-oriented organizations such as think tanks, policy institutes, and non-governmental organizations. The program draws on our Philadelphia location to provide students with opportunities to engage in public policy and applied research. Students can utilize our faculty's linkages with public agencies, educational institutions, community-based organizations, and social movements in the local region, many other regions in the United States, and several significant international locations including South and East Asia and Latin America.

The Ph.D. program requires 57 credit hours and admits students holding a bachelor's degree or master's degree in a related field. Up to 24 credits may be applied toward advanced standing to qualified Masters degree holders. To fulfill the degree requirements, students must complete coursework, pass a qualifying examination, write and defend a dissertation proposal, and then write and defend their dissertation.

The M.A. in Geography and Urban Studies program prepares students for further study and for careers in planning and public administration, environmental management, economic development, geographic systems management, community organizing and social change efforts, and academic careers. Throughout, emphasis is placed on the development of research techniques and analytical skills applicable to problem solving. Graduates find employment in public sector agencies that deal with environmental planning, land use, and urban and regional problems. They also work for quasi-public social service institutions that address various needs of urban residents as well as for private sector firms whose business requires and understanding of urban and spatial dynamics.

The M.A. program requires 36 credits and typically is completed in two years by full-time students. Part-time students also are accepted into our program—and most courses are offered during the evening, to accommodate students who work during the day. The department requires that every student produce a Masters Research Paper.

The Professional Science Master's in Geographic Information Systems (PSM in GIS) program is designed to train a highly competent workforce, ready to meet the demands of the job market in the non-profit, governmental, and private sectors. By coordinating with an advisory board of professionals in the field, we are building a program that meets current market needs and that will be adaptable to future industry needs.

The PSM in GIS program requires 30 credits and follows a year-long, full-time model that provides an intensive experience for student-professionals seeking to re-enter the workforce quickly. Students will also be able to complete the program part-time to ensure that working professionals are able to take advantage of this program. The electives will allow students to specialize within their own respective areas of interest. The Capstone or Internship course provides students with a research project or industry experience, depending on their primary interests. All courses will emphasize practical skills such as project management, scientific writing, verbal communication, and presentation skills, as well as critical thinking.

The Department offers students close personal attention in fulfilling degree requirements and career planning; a state-of-the-art curriculum; opportunities for funded research and internships; a diverse faculty and student community; and opportunities to pursue interdisciplinary study. The program draws upon the interdisciplinary expertise of twenty-four faculty members. In recent years, members of the department have published books with leading publishers in the field including Oxford University Press, MIT Press, and Wiley and Routledge; contributed articles to leading geographical journals such as the *Annals of the Association of American Geographers*, *The Professional Geographer*, and *Economic Geography* and interdisciplinary journals such as *Environment and Planning A*, *Cities*, *Journal of the National Cancer Institute*, *International Forestry Review*, *Remote Sensing of Environment*, and *Transfers: Interdisciplinary Journal of Mobility Studies*; and received competitive grants from the National Science Foundation, the National Institutes of Health, NASA, World Bank, the Environmental Protection Agency, the United Nations, the United States Information Agency, the Overseas Development Institute, the Inter-American Foundation, the American Institute of Indian Studies, and the Economic Development Agency.

The Department has recently opened a new GIS lab and studio for graduate students. Students have opportunities to work on departmental projects and have access to labs with GIS and cartography software in the department and across the College of Liberal Arts (all CLA machines, plus the University's Tech Center, are equipped with the relevant software). Graduate seminars are held within the department and outside speakers often are invited in. Some frequently used map, book, and journal resources are housed within the department; others are located in nearby Paley Library. All graduate assistants are provided with a computer, desk, and office space readily accessible to faculty offices and department facilities. All students in the Professional Science Masters in GIS are provided with a laptop and software.

An additional research facility, the Spatial Analytics Laboratory at Temple (SAL@T.) is a university-wide core-facility in health geographics situated in and managed by the Department of Geography and Urban Studies.

The challenges and opportunities that face cities and metropolitan regions are central to the well being of billions of people around the

globe. Our programs focus on understanding and analyzing such challenges and opportunities. It is truly a program for the 21st century.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Temple University is on a semester plan. Admission requirements for the Ph.D. program are available at: <http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studies-phd>. Admission requirements for the M.A. program are available at: <http://bulletin.temple.edu/graduate/scd/cla/geography-urban-studies-ma/#admissiontext>. Admission requirements for the PSM in GIS are available at: <http://bulletin.temple.edu/graduate/scd/cla/geographic-information-systems-psm/#admissiontext>.

Financial Aid information may be obtained from the Office of Student Financial Services, at: www.temple.edu/sfs.

FACULTY:

- Max Andrucki, Ph.D., Leeds, 2011, Assistant Professor of Instruction and Internship Coordinator* — social and cultural geography, sexuality, gender, and space, geographies of whiteness in contemporary South Africa, intersection between migration and transnationalism and identity
- Sanjoy Chakravorty, Ph.D., Southern California, 1992, Professor* — distribution, development, globalization, cities, regions
- Fletcher Chmura-Huff, Ph.D., Ohio State, 2011, Assistant Professor of Instruction* — territory and territorialization, political ecology, indigenous peoples, Caribbean studies, fisheries, sustainability, citizen science and related methodologies, identity politics, whiteness, green Christianity
- Khila Dahal, Ph.D., Texas State, 2014, Assistant Professor of Instruction* — geography, GIScience, sustainability, risks and hazards, computational urban geography, geocomputation, future scenario modeling
- Amelia Duffy-Tumasz, Ph.D., Rutgers, 2017, Assistant Professor of Instruction* — human-environment interactions, political ecology, fisheries, rural production systems, urban food justice, feminist methods, Senegal, Sub-Saharan Africa, Philadelphia
- Bradley Gardener, Ph.D., CUNY Graduate Center, 2012, Assistant Professor of Instruction* — urban geography, race, migration, identity, neighborhood change, Jewish studies, applications of GIS
- Melissa R. Gilbert, Ph.D., Clark, 1993, Professor and Chair* — urban, economic, and feminist geography, feminist and critical race theory, urban social theory, urban poverty and labor markets, labor and community organizing, information technologies and economic empowerment, qualitative methods
- Victor Hugo Gutierrez-Velez, Ph.D., Columbia, 2013, Assistant Professor* — sustainability science, remote sensing, environmental change, landscape ecology, land change science, spatio-temporal modeling, climate change adaptation and mitigation, social-ecological systems
- Lee Hachadoorian, Ph.D., CUNY Graduate Center, 2011, Assistant Professor of Instruction and Assistant Director of the Professional Science Master's in GIS* — open source GIS, open data, spatial databases, urban economic geography, spatial analysis, residential location, local public finance, suburbanization and sprawl
- Allison Hayes-Conroy, Ph.D., Clark, 2009, Assistant Professor* — food systems, sustainable nature-society relations, social movements, urban/rural studies and land use policy, feminist geography and politics of the body, spiritual ecology
- Kevin Henry, Ph.D., McGill, 2005, Associate Professor* — medical and health geography, public health, cancer epidemiology, applied GIS and spatial statistics for health data, health services and disparities
- Charles Kaylor, ABD, Michigan, Assistant Professor of Instruction* — GIS, information technology, e-government, the digital divide, community planning

Xiaojiang Li, Ph.D., Connecticut, 2016, Assistant Professor — urban environmental informatics, sustainable cities, spatial data science, GIS, spatial analysis and modeling, deep learning

Michele Masucci, Ph.D., Clark, 1987, Professor and Vice President for Research — societal dimensions of information and communications technologies, GIS and society, regional planning theory, water resources management, theories of the digital city

Jeremy Mennis, Ph.D., Pennsylvania State, 2001, Associate Professor and Undergraduate Chair — geographic information science and systems, spatial analysis, geographic data mining, social and environmental applications of GIS

David Organ, Ph.D., Berkeley, 1995, Assistant Professor of Instruction — historical geography, urban geography, African American Studies

Hamil Pearsall, Ph.D., Clark, 2009, Associate Professor and Graduate Chair — urban sustainability, environmental justice and health, GIS, human dimensions of global environmental change, risk, hazards and vulnerability, brownfield redevelopment, urban greening

Christina Rosan, Ph.D., Massachusetts Institute of Technology, 2007, Associate Professor — metropolitan planning and governance in the U.S. and Latin America, environmental planning, land use and growth management, urban politics, management of megacities

Kolson Schlosser, Ph.D., 2007, Pennsylvania State, Assistant Professor of Instruction — political ecology of mineral resource extraction in northern North America, environmental history, critical geopolitics, population geography, geographic pedagogy

Jacob Shell, Ph.D., 2012, Syracuse, Associate Professor — transportation and infrastructure, transport animals, geography of social movements and rebellions, cartography and geovisualization, mapping of texts and literature, geographic dimensions of political economy

Gerald Stahler, Ph.D., Temple, 1983, Professor — psychology (clinical), program evaluation, urban social problems, drug abuse

Kimberley Anh Thomas, Ph.D., Rutgers, 2015, Assistant Professor — environmental politics, international development, economic globalization, global change, international water governance, climate justice

Celeste Winston, Ph.D., CUNY Graduate Center, 2019, Assistant Professor — black geographies, GIS, racial capitalism, police abolition, marronage, migrant diasporas, urban development and planning, scholar activism

EMERITI FACULTY:

Carolyn T. Adams, Ph.D., Washington, 1974, Professor Emeritus — urban public policy, housing, economic development, infrastructure planning

David J. Cuff, Ph.D., Pennsylvania State, 1972, Professor Emeritus — cartography, physical geography, exploration

Roman Cybriwsky, Ph.D., Pennsylvania State, 1972, Professor — urban-social geography, world cities, neighborhood change and development, cultural geography, Pacific Asia, Ukraine

Rickie Sanders, Ohio State, 1981, Professor — urban social geography, geographic education/under-represented groups, environment and development

Marilyn Silberfein, Ph.D., Syracuse, 1971, Professor Emeritus — urban and rural development, third world economic geography, migration, political geography, tourism, world affairs

UNIVERSITY OF PITTSBURGH AT JOHNSTOWN

GEOGRAPHY DEPARTMENT

DATE FOUNDED: 1971

DEGREES OFFERED: B.A.

GRANTED 9/1/16 - 8/31/17: 5 Bachelors

MAJORS: 20

CHAIR: William B. Kory

DEPARTMENT SECRETARY: Sharon E. Wilson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. William B. Kory, Geography Department, University of Pittsburgh at Johnstown, Johnstown, Pennsylvania 15904. Telephone (814) 269-2994 or 2990. Fax (814) 269-7255. E-mail: koryupi@pitt.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Department at the University of Pittsburgh at Johnstown offers an undergraduate major which emphasizes physical/environmental geography, urban/economic geography, and population geography/geodemography studies. Geo-techniques are stressed in all sub-fields. Secondary Education majors may elect a 30 geography credit education degree. A separate Environmental Studies major, emphasizing environmental policy and science, is also administered by the department. The department arranges internships and regional planning and resource management agencies for qualified students. The department also offers a certificate program in GIS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Students with a major in geography must complete 30 credits in the discipline. Four core courses in cartography, human, and physical geography; and an additional six geography courses from three subfields, along with a methodology course are required for a major. Selected courses in related Social Sciences and Natural Sciences are also expected, and there are additional Divisional and University requirements all students must complete.

UPJ is a degree granting four year college within the University of Pittsburgh system. The college offers undergraduate programs in arts and sciences, education, business, nursing and engineering. It is located on a wooded, 650-acre suburban campus and has an enrollment of over 3,000 students. The department edits and publishes *The Pennsylvania Geographer*, a semi-annual refereed journal of the Pennsylvania Geographical Society.

FACULTY:

Ola Johansson, PhD, Tennessee, 2004, Professor — urban, planning, popular music, energy, Europe

William B. Kory, PhD, Pittsburgh, 1977, Associate Professor — geodemography, political, migration, Russia and Eastern Europe, Africa

Ahmad Massasati, PhD, Utah, 1991, Assistant Professor — cartography, GIS, remote sensing, Middle East

Mitzy Schaney, PhD, West Virginia, 2019 (expected), Assistant Professor and Director of Environmental Studies — physical, environmental, water resources, soils

Greg Faiers, Professor Emeritus

Mary Pfau Lavine, Professor Emerita

VILLANOVA UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1966 (Re-established in 2007)

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 8/22/17-8/22/18: 18 Bachelors, 7 Masters

CHAIR: Barry Selinsky

DEPARTMENT ADMINISTRATIVE ASST: Ms. Angelina Fondaco

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Barry Selinsky, Department of Geography and the Environment, Villanova University, 800 Lancaster Ave., G67 Mendel Hall, Villanova, Pennsylvania 19085-1699. Telephone (610) 519-3336. Fax (610) 519-3338. E-mail: barry.selinsky@villanova.edu. Internet: <http://www.villanova.edu/artsci/geoenv/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and the Environment offers B.A. degrees in Geography and Environmental Studies, and a B.S. in Environmental Science. The department also offers minors in Geography and Sustainability Studies. The department's new Master of Science in Environmental Science program is in its second year. The department was re-established in 2007 to serve as a multidisciplinary academic unit linking social and natural sciences within the College of Liberal Arts and Sciences. The department's overarching objective is to integrate the disciplines of geography and environmental science to seek an understanding of human and environmental patterns, the processes that produce those spatial patterns, and salient human and environmental problems that face modern society.

Individual undergraduate programs are formed around major themes: (1) human systems analysis and human geography; (2) geographical techniques; (3) regional analysis; and (4) physical geography and environmental systems. Majors can also participate in an Honors Program and other concentrations/minors within the College. Internships designed for geography and environmental majors are available.

The department has a state-of-the-art computer facility dedicated exclusively to the Geospatial Sciences. The department has three teaching and five research labs. Additionally, the department has just added a full suite of state-of-the-art GPS equipment.

For information regarding the graduate program, please refer to http://www.villanova.edu/villanova/artsci/geoenv/academicprograms/Graduate_Programs.html, or contact the Graduate Program Director: lisa.rodriques@villanova.edu.

The department sponsors the Eta Lambda Chapter of Gamma Theta Upsilon, the International Geographical Honor Society. Students enrolled in the geography and environmental programs participate in a campus-wide Environmental Learning Community as well as several other cross-campus and community activities. The department maintains a large map collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Villanova University is on a semester plan. Admission requirements are available from: Director of Admissions, Office of Admissions, Villanova University, Villanova, Pennsylvania 19085 (<http://www.villanova.edu/enroll/admission/>). Financial Aid information may be obtained from the Director of Financial Aid, Financial Aid Office, Kennedy Hall (<http://www.villanova.edu/enroll/finaid/>).

FACULTY:

Francis A. Galgano Jr., Ph.D., University of Maryland, College Park, 1998, Associate Professor — geomorphology, coastal geomorphology, military geography, environmental security

Steven T. Goldsmith, Ph.D., Ohio State University, 2009, Associate Professor — environmental science, environmental geology, climate change

Bonnie M. Henderson, Ph.D., Louisiana State University, 1998, Assistant Professor — social geography, population geography, North America

Keith G. Henderson, Ph.D., University of North Carolina, Chapel Hill, 1991, Associate Professor — climatology, environmental change, natural resources

Kabindra Shakya, Ph.D., Rice University, 2011, Assistant Professor — environmental science, environmental health

John L. Kelley, M.A., University of Georgia, 1981, Instructor — remote sensing

Peleg Kremer, Ph.D., University of Delaware, 2010, Assistant Professor — geographic information systems, urban sustainability

Lisa J. Rodrigues, Ph.D., University of Pennsylvania, 2005, Associate Professor — environmental science, coral reef biogeochemistry

Stephen M. Strader, Ph.D., Northern Illinois University, 2016, Assistant Professor — meteorology

Nathaniel Weston, Ph.D., University of Georgia, 2005, Associate Professor — environmental science, coastal ecosystems, climate change

Mysha Clarke, Ph.D., Perdue University, 2018, Post-Doctoral Fellow — sustainability

Physical/Environmental Geography, including biogeography, coastal and aeolian geomorphology, climatology, and boundary-layer processes.

Human Geography, including urban geography, cultural and historical landscapes, migration, geopolitics, economic geography, and international development.

Environment-Society Relationships, including natural resources, land use policy, environmental hazards, disaster management, political ecology, and human adaptation to environmental change.

In addition, the department has regional expertise in the Middle East, Latin America and Africa.

The department offers Ph.D., M.A., M.S., B.A., and B.S. degrees. The Ph.D. program prepares students for high-level careers in academia, government, and industry. The M.A. and M.S. programs prepare students for further graduate study and for employment in a broad range of positions in the public and private sector. The M.A. degree is available to students with interests in qualitative human geography, while the M.S. degree is for students with interests in physical/environmental geography and Geographic Information Science. Undergraduate Geography majors can elect to do a B.S. degree, with specialization in physical geography or GIScience, or a flexible B.A. degree. Our internship program provides advanced undergraduates and graduate students with on-the-job experience in local planning agencies, environmental organizations, historic preservation groups, non-profits, and businesses. The department also offers an undergraduate Certificate in Geospatial Intelligence (GEO-INT) that is accredited by the U.S. Geospatial Intelligence Foundation.

The department is home to several research centers and institutes. The Hazards and Vulnerability Research Institute is an interdisciplinary research and graduate and undergraduate training center focused on the development of theory, data, metrics, methods, applications, and spatial analytical models for understanding community vulnerability to hazards. The Carolinas Integrated Sciences and Assessments (CISA), which is supported by NOAA's Regional Integrated Sciences and Assessments (RISA) program, works with stakeholders across South Carolina and North Carolina to incorporate climate information into water and coastal management decision-making processes. The department also houses the South Carolina Geographic Alliance and the state-funded Center for Excellence in Geographic Education, which provide outreach to primary and secondary school educators and statewide leadership in the application of geographic knowledge to the K-12 curriculum. There are several specialized research and training facilities within the department including: the GIScience Research Lab, the WIND Lab, and the Earth Surface Patterns and Processes Lab. The department also hosts the Critical Ecologies Lab, an interdisciplinary network of scholars with interests in the politics of resource extraction, energy production, and development.

The department is a founding member of the University Consortium for Geographic Information Science (UCGIS) and is one of thirteen universities offering the Geospatial Intelligence Certificate. To support the teaching and research mission of GIScience at the University of South Carolina, the department maintains a sizable collection of computing/software resources and field equipment, and it manages site licenses for ArcGIS, Leica Imagine, ENVI, LP360, and Pix4Dmapper. With 11 web and data servers (SQL-based), the department has extensive web development and deployment infrastructure. The department also participates in a high-performance, 13-server network that serves as a testbed for geospatial big-data analytics and computing-intensive applications. In addition, we have a well-maintained collection of technical equipment that includes handheld, mapping-grade, and survey-grade GPS instruments, reflectorless total stations (Leica), aerosol monitoring LiDAR equipment, unmanned aerial systems (DJI Phantom 4 Pro V2s, and Matrice 100), hand-held radiometers, and a high-resolution

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1963

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., M.A., M.S., Ph.D.

GRANTED (CALENDAR YEAR 2018): 20 Bachelors, 10 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 75 Majors, 15 Masters, 15 Ph.D.

CHAIR: Caroline Nagel

GRADUATE PROGRAM DIRECTOR: Dr. Kirstin Dow

FOR FURTHER INFORMATION: Director of Graduate Studies, Department of Geography, University of South Carolina, Columbia, South Carolina 29208. Telephone (803) 777-5234. Fax (803) 777-4972. E-mail: Dr. Kirstin Dow, dowk@mailbox.sc.edu. For more information about the department and the graduate application process, see the Geography Department's home page: <http://artsandsciences.sc.edu/geog/>.

PROGRAMS AND RESEARCH FACILITIES: The department offers training in fundamental geographic skills and the opportunity for advanced study and research in four thematic areas:

Geographic Information Science, including big-data and social-media analytics, spatial-data computing, GIS-based modelling, visualization, and remote sensing using LiDAR and unmanned aerial vehicles.

color plotter and scanner. The department is home to the Campus GIS program, which provides training and technical support to an interdisciplinary research community, and which leads special projects in geospatial technology implementation, analysis, and application development

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: All majors are required to take an introductory geography course, a geographic techniques course, and a senior capstone seminar. Students have the option to specialize in one of two areas of concentration (physical/environmental or Geographic Information Science) or to complete a general Geography degree that consists of courses selected from across the curriculum. All faculty are actively involved in the undergraduate program, so virtually all aspects of the field are represented in both lower- and upper-level courses. Geography undergraduate degree programs are designed to facilitate double-majoring, and Geography majors are encouraged to explore the numerous cognate and minor programs available across the University. Geography forms an important component of interdisciplinary Global Studies and Environmental Studies programs. Links to information about undergraduate admissions, degree requirements, internships, and careers can be found on the department website.

GRADUATE: The Doctoral program requires a minimum of 33 post-master's credit hours. Doctoral students must fulfill three core requirements: a disciplinary history course, an advanced methodology course, and a graduate-level statistics course. Additional courses, selected in conjunction with an advisor, support the student's research interests. Twelve of the 33 credit hours are for doctoral research. Doctoral students have the option of writing a traditional dissertation or a 3-manuscript dissertation. In addition to defending a dissertation, doctoral students are required to give a public presentation of their research and to serve as an instructor-of-record or laboratory teaching assistant for at least one semester.

The Master's degree programs require a minimum 30 semester hours of graduate work, including a geographical methods course, a disciplinary history course, and 1-6 thesis research credit hours. Small informal classes and seminars offer students the chance to work closely with faculty members, while the flexible program requirements offer the opportunity to take related courses in other departments. The M.A. and M.S. programs culminate in a thesis based upon original research, and Master's students have the option of writing a manuscript-style thesis or a traditional-style thesis.

Students seeking admission to a graduate program in Geography at the University of South Carolina are required to submit official transcripts of all previous study, Graduate Record Examination scores, two letters of recommendation, a brief written statement describing career objectives and probable specialties, and an Application Summary Form. TOEFL scores are required of all applicants for whom English is not the primary language (exemptions can be made for students who have completed an undergraduate or graduate degree at an English-speaking university). The department does not require applicants to have an undergraduate or graduate degree in Geography, but students with subject deficiencies may be required to complete remedial work. Please see the department webpage for application deadlines and further details about requirements.

Financial Aid: Graduate assistantships carry stipends of \$12,500-\$15,500 plus tuition supplements for the academic year. Doctoral fellowships are available on a highly competitive basis for up to \$23,500 per academic year and are renewable for up to four years. The Graduate School and department offer travel support for presentations at professional meetings.

FULL-TIME FACULTY:

Jessica Barnes, Ph.D., Columbia, 2010, Assistant Professor — water and resource politics, food politics, development, Middle East
Gregory J. Carbone, Ph.D., Wisconsin-Madison, 1990, Professor — climatology, environmental decision-making
Susan L. Cutter, Ph.D., Chicago, 1976, Carolina Distinguished Professor — environmental hazards and risks, environmental policy
Meredith DeBoom, Ph.D., Colorado-Boulder, 2018, Assistant Professor — human rights, development, geopolitics, African geography
Kirstin Dow, Ph.D., Clark, 1996, Carolina Trustee Professor — human dimensions of global environment change, vulnerability, adaptation
Jean T. Ellis, Ph.D., Texas A&M, 2006, Associate Professor — geomorphology, aeolian and coastal sediment transport, coastal management
Diansheng Guo, Ph.D., Pennsylvania State, 2003, Professor — geographic information science, spatial data mining, geocomputation
Conor Harrison, Ph.D., North Carolina, 2014, Assistant Professor — energy and infrastructure, economic geography, urban geographies of race
April Hiscox, Ph.D., Connecticut, 2006, Assistant Professor — boundary layer meteorology, land-air interactions, forest meteorology
Michael E. Hodgson, Ph.D., South Carolina, 1987, Professor — geographic information science, remote sensing, hazards
David Kneas, Ph.D., Yale, 2014, Assistant Professor — mining and resource conflicts, political ecology, Latin America
John A. Kupfer, Ph.D., Iowa, 1995, Professor — biogeography, landscape ecology, public land management, spatial analysis, GIScience
Kirsten Lackstrom, Ph.D., South Carolina, 2015, Research Assistant Professor — drought, adaptation to environmental change, citizen science
Zhenlong Li, Ph.D., George Mason, 2015, Assistant Professor — high-performance/cloud computing, environmental modeling and simulation
Amy Mills, Ph.D., Texas, 2004, Associate Professor — cultural landscapes and historical memory, urban cultures, gender, Middle East
Jerry Mitchell, Ph.D., South Carolina 1998, Research Professor — geographic education, environmental hazards, tourism
Cary Mock, Ph.D., Oregon, 1994, Professor — synoptic climatology, climate change, historical and Quaternary environments
Caroline R. Nagel, Ph.D., Colorado-Boulder, 1998, Professor — migration, multiculturalism, citizenship, urbanization, religion
Cuizhen (Susan) Wang, Ph.D., Michigan State, 2004, Assistant Professor — bio-environmental remote sensing, GIS, spatial analysis

EMERITI FACULTY:

Allen D. Bushong, Ph.D., Florida, 1961
David Cowen, Ph.D., Ohio State, 1971
Patricia Gilmartin, Ph.D., Kansas, 1980
William L. Graf, Ph.D., Wisconsin-Madison, 1974
John F. Jakubs, Ph.D., Ohio State, 1974
L. Allan James, Ph.D., Wisconsin-Madison, 1988
Robert L. Janiskee, Ph.D., Illinois, 1974
John R. Jensen, Ph.D., UCLA, 1976
Charles F. Kovacic, Ph.D., Michigan State, 1970
Robert E. Lloyd, Ph.D., Pennsylvania State, 1974
Paul E. Lovingood, Jr., Ph.D., North Carolina, 1962
Julian V. Minghi, Ph.D., Washington, 1962
Lisle S. Mitchell, Ph.D., Ohio State, 1967
William R. Stanley, Ph.D., Pittsburgh, 1966
Theodore R. Steinke, Ph.D., Kansas, 1979

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY & GEOSPATIAL SCIENCES

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 1974

DEGREES OFFERED: B.S. Geography; B.S. Geographic Information Sciences; B.S. Community and Regional Planning; M.S. Geography; M.S. Geographic Information Sciences Specialization; Ph.D. Geospatial Science and Engineering

GRANTED 8/1/17-12/31/18: 14 Bachelors, 8 Masters

STUDENTS IN RESIDENCE: 62 Majors, 13 Masters, 6 Ph.D.

NOT IN RESIDENCE: 6 Masters

HEAD: Bob Watrel (Interim)

GRADUATE PROGRAM COORDINATOR: Darrell Napton

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Darrell Napton, Graduate Program Coordinator, Department of Geography, 211 Wecota Hall- Box 506, South Dakota State University, Brookings, South Dakota 57007. Telephone (605) 688-4511. E-mail: Robert.Watrel@sdstate.edu. Internet: <http://www.sd-state.edu/geo/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers Bachelors of Science degrees in Geographic Information Sciences and Geography, a Master of Science degree in Geography, including a specialization in Geographic Information Sciences, and minors in Geographic Information Sciences, Geography and Sustainability, which are offered at the undergraduate level. Undergraduate certificates in Geographic Information Sciences and Unmanned Aircraft Systems (UAS) also are available. Many of the department's courses are offered online. The geography major and minor and the GISc minor are offered completely online. An interdisciplinary PhD program in Geospatial Science and Engineering also is offered in collaboration with the Geospatial Sciences Center of Excellence (GSCE).

The Geographic Information Systems (GIS) laboratory is a fully equipped 18-seat instructional and research computer facility. The lab is supported through a state higher education site license for the latest releases of ESRI GIS software.

Internships at the undergraduate and graduate level are generally available with the USGS EROS Center, planning agencies at the state, regional, county, and city level, governmental agencies, and business and industry.

The H.M. Briggs Library contains the largest geography collection in the state. The USGS EROS Center offers related facilities to benefit students, as do the South Dakota Geographic Alliance office, the Northern Plains Hazard Research Office, and the South Dakota Census Data Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: The Bachelor of Science degrees require a total of 120 semester credit hours. Areas outside the department, beneficial to the student, include Computer Science, Biology, Economics, Education, Engineering, Mathematics, Plant Science, Natural

Resource Management, and Sociology. The undergraduate program in geography includes coursework in research methods, human, physical, and regional geography.

A minimum of 30 semester credits is required for the Master of Science degree, of which at least 22 credits must be earned in the major. The thesis may account for up to six of these credits. Financial aid includes several Graduate Teaching Assistantships. South Dakota State University is a Land Grant Institution with several natural resources and social science departments that complement geography. The department has on-going collaboration with an institute in Romania and is developing collaborations with institutions in other countries. The graduate program in geography includes coursework in geospatial techniques; physical environment; political geography, culture, and place; and rural and urban land systems.

FACULTY:

Dapeng Li, Ph.D., University of Utah, 2016, Assistant Professor — GISc, systems modeling & integration, spatial analysis, mobile computing, data mining, geocomputation, geographic information engineering, big data, open science

Kimberly Johnson Maier, Ph.D. Oklahoma State University, (ABD), Instructor — landscape, cultural, tourism, historical, qualitative methods

Bruce Millett, Ph.D., South Dakota State University, 2004, Assistant Professor — physical, aerial remote sensing

Darrell Napton, Ph.D., University of Minnesota, 1987, Professor — land use and land use systems, human-environmental interactions, sustainability and future geographies, rural and agricultural, North America

Bob Watrel, Ph.D., University of Nebraska, 2001, Associate Professor — cartography, political, Great Plains

George W. White, Ph.D., University of Oregon, 1994, Professor — world regional, political, culture, ethnicity, and identity formation, Europe, geographic thought

Xiaoyang Zhang, Ph.D., Professor, University of London, 1999 — remote sensing science and applications in land cover land use

EMERITI FACULTY:

Donald J. Berg, Ph.D., UC, Berkeley, 1976, Professor — physical, hazards, American Indians, world regional

Charles F. Gritzner, Ph.D., Louisiana State, 1969, Distinguished Professor — cultural, developing countries, history and philosophy of geography, geographic education

Janet H. Gritzner, Ph.D., Louisiana State, 1978, Professor — cultural, remote sensing, geographic information systems, Africa

Edward Patrick Hogan, Ph.D., Saint Louis, 1969, Professor and Assistant Vice President for Academic Affairs — South Dakota, human, research, industrial

Roger K. Sandness, Ph.D., Iowa, 1986, Professor — physical, computer cartography, quantitative methods

ADJUNCT FACULTY:

Chris Crawford, Ph.D., Associate Professor, USGS EROS Center, University of Minnesota, 2013

Alisa Gallant, Ph.D., Associate Professor, USGS EROS Center, Colorado State University, 1997

Dean B. Gesch, Ph.D., Assistant Professor, USGS EROS Center, South Dakota State University, 2006

Thomas Loveland, Ph.D., Professor, USGS EROS Center, University of California-Santa Barbara, 1998

Izaya Numata, Ph.D. Associate Professor, University of California-Santa Barbara, 2006

Birgit Peterson, Ph.D., Associate Professor, USGS EROS Center, University of Maryland, 2000

David Roy, Ph.D., Professor, Michigan State University, Cambridge University, 1994

George Z. Xian, Ph.D., Professor, USGS EROS Center, University of Nevada, Reno, 1996

TENNESSEE

UNIVERSITY OF MEMPHIS

DEPARTMENT OF EARTH SCIENCES

DATE FOUNDED: 1925 (Merged with Geological Sciences in 2002)

DEGREES OFFERED: B.A., Earth Sciences (Geography concentration); M.S., Earth Sciences (Geography concentration); M.A., Earth Sciences; Ph.D., Earth Sciences

GRANTED 8/22/17-8/22/18: Earth Sciences: 11 Bachelors, 9 Masters; 11 Geographic Information System Certificates; 4 Ph.D.

CHAIR: Dr. Daniel Larsen

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Youngsang Kwon, Department of Earth Sciences, University of Memphis, Johnson Hall 223, Memphis, TN. Telephone (901) 678-2979. Fax (901) 678-2178. E-mail: ykwon@memphis.edu. Internet: <http://uofm.memphis.edu/earthsciences/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Earth Sciences offers B.A. degrees in Earth Sciences with concentrations in Archaeology, Geography, and Geology. We offer M.S. degrees in Earth Sciences with concentrations in Archaeology, Geography, Geology and Interdisciplinary Studies, a non-thesis M.A. degree in Earth Sciences and a Ph.D. in Earth Sciences. A graduate certificate is offered in Geographic Information Systems, which is available to all graduate students on campus and nearby Colleges. The Certificate program offers online GIS courses. Earth Sciences at the University of Memphis provides an interdisciplinary undergraduate program where students take one or more courses in each of the disciplines, but achieve the concentration requirements by focusing coursework in a specific area. The University of Memphis is known for its extensive internship programs and for the Helen Hardin Honors program, one of the largest Honors programs in the state of Tennessee. Earth Science faculty encourages students to take advantage of these programs and explore research opportunities in the undergraduate program. The graduate program emphasizes applied Earth Sciences research, and is especially well suited for interdisciplinary research in our focus areas of hazards, geomorphology, Quaternary studies, water resources, meteorology and climate studies, remote sensing and geo-spatial analysis. Applied geography topics, perspectives, and techniques have proven to be strong components of our Earth Sciences doctoral program. The department has a state-of-the-art University computer facility in the building for computer-intensive courses. Additionally, the department has survey-grade GPS equipment, field mapping GPS units, state-of-the-art GIS and Remote Sensing software, and a variety of other research facilities to support student research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

The University of Memphis is on a semester plan. Information regarding admission to the University is available at <http://www.memphis.edu/admissions/> or contact Office of Admissions, University of Memphis, 101 Wilder Tower, Memphis, TN. Financial Aid information may be obtained from the Office of Financial Aid, 103 Wilder Tower, University of Memphis, Memphis, TN 38152 (<http://www.memphis.edu/financialaid/>).

FACULTY:

Angela Antipova, Ph.D., Louisiana State U, 2010, Associate Professor — GIS and spatial analysis, medical geography, transportation geography, urban geography

Jerry Bartholomew, Ph.D., Pennsylvania State University, 1964, Professor — hazards, tectonics and Quaternary studies
Dorian Burnette, Ph.D., University of Arkansas, 2009, Assistant Professor — meteorology, climatology, climate change, dendroclimatology, extreme weather and climate events
Randel Cox, Ph.D., University of Missouri, 1995, Professor — active tectonics, geomorphology, hazards
David Dye, Ph.D., Washington University, St. Louis, 1980, Professor — archaeology
Arleen Hill, Ph.D., University of South Carolina, 2002, Professor — hazards, nature-society interaction, spatial analysis
Julie Johnson, Ph.D., Florida International University, 2014, Instructor — igneous petrology, mineralogy, geochemistry
Hsiang-te Kung, Ph.D., University of Tennessee-Knoxville, 1980, Professor and Director, Confucius Institute — water resources, hazards, geomorphology
Youngsang Kwon, Ph.D., SUNY-Buffalo, 2012, Assistant Professor — remote sensing, spatial statistics, GIS, forest dynamics, terrestrial carbon cycling, climate change
Daniel Larsen, Ph.D., New Mexico, 1994, Professor and Chair — hydrogeology, soils, low-temperature geochemistry, sedimentology
Andrew Mickelson, Ph.D., Ohio State University, 2002, Associate Professor — archaeology of eastern North America, spatial analysis and GIS, geophysical methods in archaeology
Esra Ozdenerol, Ph.D., Louisiana State University, 2000, Professor — GIS, remote sensing, spatial analytical methods, medical geography and landscape ecology
Ryan Parish, Ph.D., University of Memphis, 2013, Assistant Professor — geoarchaeology, archaeometry, chert sourcing, reflectance spectroscopy, hunter-gatherer societies, initial colonization of the Americas
Jose Pujol, Ph.D., University of Wyoming, 1985, Professor — earthquake and exploration seismology
Elizabeth Rhenberg, West Virginia University, 2011, Visiting Assistant Professor — paleontology, paleoecology, sedimentology and stratigraphy
Roy Van Arsdale, Ph.D., University of Utah, 1979, Professor — active tectonics, geomorphology, structural geology

UNIVERSITY OF TENNESSEE, KNOXVILLE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1928

DEGREES OFFERED: B.A., M.S., Ph.D.

GRANTED 7/1/2018-06/30/2019: 48 Bachelors, 4 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 111 Majors, 12 Masters, 27 Ph.D.

HEAD: Ronald V. Kalafsky

ASSOCIATE HEAD: Nicolas Nagle

DIRECTOR OF GRADUATE STUDIES: Hyun Kim

FOR FURTHER INFORMATION WRITE TO: Department of Geography, 304 Burchfiel Geography Building, University of Tennessee, Knoxville, Tennessee 37996-0925. Telephone (865) 974-2418. Fax (865) 974-6025. E-mail: utkgeog@utk.edu. Home page: <http://geography.utk.edu/>.

PROGRAMS AND RESEARCH & OUTREACH FACILITIES:

UNDERGRADUATE: Geography, in the College of Arts and Sciences, offers a B.A. degree with five concentrations or specializations from which the student can choose: (1) Geospatial

Science and Technology; (2) Landscapes and Environments; (3) Climate and Climate Change; (4) Space, Society, and Culture; and (5) World Cities and Economies. The major emphasizes the breadth of the discipline with concentrations allowing students to assemble a mix of courses and skills uniquely suited to their interests and career needs. Skills acquired include GIS, field and lab techniques, and experience in qualitative and quantitative analysis. The department has areas of special strength in physical geography/climate change, urban/economic geography, transportation geography/spatial analysis, and cultural/social geography. Courses required for the major are Introduction to GIS and Geovisualization, a senior "Practicing Geography" capstone seminar, a methods course, and concentration-related courses. Faculty members make special efforts to involve undergraduates in their research. Students have obtained internships with NOAA, NASA, and National Geographic as well as local firms, campus research units, and nearby government agencies, including the Oak Ridge National Laboratory.

GRADUATE: The faculty, with extensive world-wide experience (East Asia, China, Latin America, Europe, the American South, the American West, and Canada), is exceptionally qualified to direct graduate research in: transportation, technology, and society; population, migration, and politics; race/ethnicity, identity, and social justice; cities, urban economies, trade and globalization; biogeography; climate and environmental history; geomorphology and soils; human-environment interaction and water resources; geographic information science; GIS database design and programming; geo-computation and environmental modeling; statistical mapping and census data analysis; socio-economic and environmental applications for GIS; and remote sensing and spatial modeling with an emphasis on natural resource assessment.

The Master's Degree emphasizes research and professional development, and offers opportunities to acquire substantial depth in a sub-field. The degree requires a minimum of 30 hours of approved graduate credit. Required courses include Introduction to Geographical Research, Research Design and Field Methods, Quantitative Methods, a minimum of three hours in a research seminar, and participation in the departmental Colloquium. Students without a sound undergraduate background in geography may require additional credit hours. Up to six hours of thesis credit may be counted toward the degree. Although a non-thesis degree option does exist, the thesis approach is strongly recommended for most students.

The Ph.D. is granted to candidates who demonstrate proficiency in conducting independent research and complete a dissertation that makes a significant and original contribution to geography. Course requirements are determined by the student's doctoral committee, but must include the basic graduate courses (Geographic Concept and Method, Topics in Quantitative or Qualitative Methods), nine hours of credit in related fields outside the department, three doctoral seminars, and participation in the departmental Colloquium. Competence in theories and methodologies pertinent to the student's research specializations (including foreign languages, when appropriate) are also required. Admission to candidacy is granted following successful completion of written comprehensive examinations and an oral examination over the student's program and dissertation proposal.

RESEARCH & OUTREACH FACILITIES: The Burchfield Geography Building (BGB) is centrally located near other natural science departments and various University resources. Both the University and Department computer labs contain a wide array of GIS, remote sensing, and statistical software. The BGB houses GIS and Remote Sensing facilities; a GIS Outreach and Public Engagement Laboratory; the Tennessee Geographic Alliance; laboratories for research on soil and watershed dynamics; and three physical geography teaching laboratories. The nearby Science and Engineering Building houses facilities for global environmental change research, including laboratories for analysis of organic and mineral sediment, soils, pollen grains and other microfossils, and tree

rings; and laboratory space for climate modeling, computer imaging of fossil charcoal samples, and scanning electron microscopy. The Claxton Lab Facility, which includes numerous computer workstations, is used for various research activities by faculty and students engaged in geospatial science, physical geography, and human geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University of Tennessee operates on a semester system. General information on admission requirements may be obtained from Graduate School, 111 Student Services Building, Knoxville, TN 37996-0211 (gradschool.utk.edu). Students interested in geography graduate studies should contact the department (utkgeog@utk.edu) or visit the department's web page. Interested students are also encouraged to follow the department on Facebook (www.facebook.com/UTKGeography) and Twitter @UTKGeography.

Although graduate students may begin during any term, the fall term is strongly recommended. A 3.0 (4.0 scale) or higher undergraduate grade point average is normally required for admission to a graduate degree program. Official transcripts of all previous college work, three letters of recommendation and GRE scores are required. No single criterion will dominate, but the aggregate should provide strong evidence of ability and potential. Any person whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). A minimum score of 550 on the paper test or 80 on the Internet-based test typically with a score of 20 on each of the sections of the test (reading, listening, writing, and speaking) is required for admission consideration. For the IELTS, a minimum score of 6.5 is required. The score must be no more than two years old from the requested date of entry. Applicants who have received a degree from an accredited U.S. institution within the past two years are exempt from the TOEFL requirement. Admission to the geography graduate program is competitive and subject to the availability of space and faculty advisors.

Several types of financial aid are available, including graduate teaching assistantships and associateships that include a stipend and tuition waiver. Research grants and contracts provide additional opportunities for support in the form of graduate research assistantships, and part-time research positions are often available through various campus research units and through the Oak Ridge National Laboratory. In addition, the Graduate School offers a variety of graduate fellowship opportunities. Highly qualified PhD applicants might be eligible for a Chancellor Fellowship that supplements graduate teaching assistantship stipends.

FACULTY:

Derek Alderman, Ph.D., Georgia, 1998, Professor — cultural, historical, public memory, American South, tourism, race
Budhendra L. Bhaduri, Ph.D., Purdue, 1998, Professor — geographic data science, population distribution and dynamics, energy geography, emergency preparedness and response
Kelsey N. Ellis, Ph.D., Florida State University, 2010, Assistant Professor — climatology, meteorology, atmospheric hazards, human-environment interaction
Ronald A. Foresta, Ph.D., Rutgers, 1979, Professor — urban revitalization, landscape and ideology, Latin America
Sally P. Horn, Ph.D., UC, Berkeley, 1986, Professor — biogeography, quaternary environments, Latin America
Ronald V. Kalafsky, Ph.D., SUNY at Buffalo, 2002, Professor — economic geography, trade, manufacturing
Hyun Kim, Ph.D., Ohio State University, 2008, Assistant Professor — transportation, telecommunications, geographic information science, spatial optimization and modeling
Yingkui Li, Ph.D., Peking University, 2001, Professor — geomorphology and paleo-climate reconstruction, cosmogenic nuclides, GIS/spatial analysis, Tibetan Plateau and Tian Shan

Isabel Solange Muñoz, Ph.D., University of Texas-Austin, 2014, Assistant Professor — Latin America, urban geography, immigration, race and ethnicity, social movements
Nicholas Nagle, Ph.D., University of California - Santa Barbara, 2005, Associate Professor — spatial analysis, population geography, urban geography
Paulo Raposo, Ph.D., Pennsylvania State University, 2016, Assistant Professor — cartography, GIS, map generalization
Madhuri Sharma, Ph.D., Ohio State, 2009, Associate Professor — urban-social dimensions of race and ethnicity, poverty and inequality, mixed-method approaches
Shih-Lung Shaw, Ph.D., Ohio State, 1986, Professor — transportation, geographic information science, space-time analysis
Robert Stewart, Ph.D., Tennessee, 2011, Assistant Professor — GIS, risk and decision analysis, environmental regulatory guidance
Liem T. Tran, Ph.D., Hawaii, 1999, Professor — environmental modeling, integrated environmental assessment

TECHNICAL STAFF:

Kurt Butefish, M.S., University of Tennessee, 1986, Coordinator of Tennessee Geographic Alliance — geographic education, curriculum
Michael Camponovo, M.S., University of New Mexico, 2013, GIS Outreach Coordinator — GIS, volunteered geographic information, natural hazards
Nathan McKinney, M.S., University of West Florida, 2016, GIS Labs Manager — applied GIS, web mapping, environmental science, hazards, coastal science, field methods

ADJUNCT FACULTY:

Wade Bishop, Ph.D., Florida State, 2010, Adjunct Assistant Professor — GIS, information policy
Maria Caffrey, Ph.D., University of Tennessee, 2011, Adjunct Assistant Professor — paleo-environmental reconstruction, palynology, quaternary environments
Jon Harbor, Ph.D., Washington (Seattle), 1990, Adjunct Professor — geomorphology, climate change, water resources, land use impact
William Hargrove, Ph.D., University of Georgia, 1988, Adjunct Professor — landscape ecology
Matthew Heric, Ph.D., Virginia Tech, 1996, Adjunct Assistant Professor — GIS, remote sensing, cultural modeling, software development
Chad Lane, Ph.D., Tennessee, 2007, Adjunct Assistant Professor — biogeography
Cheng Liu, Ph.D., Tennessee, 1986, Adjunct Associate Professor — transportation, geographic information systems
Kenneth H. Orvis, Ph.D., UC Berkeley, 1992, Adjunct Associate Professor — landscape, climatology, global change, paleo-climate
Robert Pavlowsky, Ph.D., Wisconsin (Madison), 1995, Adjunct Professor — geomorphology, water quality, soils
Todd Schroeder, Ph.D., Oregon State, 2007, Adjunct Associate Professor — ecology, remote sensing
Francoise Micheline van Riemsdijk, Ph.D., Colorado, 2008, Adjunct Associate Professor — population, migration, urban, gender, qualitative methods
Dali Wang, Ph.D., NY Rensselaer Polytechnic Institute, Adjunct Assistant Professor — environmental engineering
Robert A. Washington-Allen, Ph.D., Utah State University, 2003, Adjunct Associate Professor — biogeography, complex systems, landscape ecology, pastoralism, remote sensing, spatial modeling

EMERITUS FACULTY:

Charles S. Aiken, Ph.D., Georgia, 1969, Professor Emeritus — rural, North America, U.S. South
Thomas L. Bell, Ph.D., Iowa, 1973, Professor Emeritus — location theory, urban, economic, geographic thought and methodology, popular culture

Leonard W. Brinkman, Ph.D., Wisconsin, 1964, Associate Professor Emeritus — historical, North America, Appalachia
Carol P. Harden, Ph.D., Colorado, Boulder, 1987, Professor Emeritus — geomorphology, watershed dynamics, Latin America
Lydia Mihelic Pulsipher, Ph.D., Southern Illinois, 1977, Professor Emeritus — historical, cultural ecology, sustainable development, gender, critical theory
Bruce A. Ralston, Ph.D., Northwestern, 1976, Professor Emeritus — transportation and location, diffusion theory, geographic information science

TEXAS

AUSTIN COMMUNITY COLLEGE

FOR FURTHER INFORMATION WRITE TO: Don Jonsson at 512-223-4051 or djonsson@austincc.edu

PROGRAMS:

Associate of Arts (A.A.) in Geography
 Associate of Science (A.S.) in Geography

NORTHWEST VISTA COLLEGE

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SUSTAINABILITY

DATE FOUNDED: June 20, 1995

DEGREES OFFERED: Associate of Arts, Associate of Science

CHAIR: Scott L. Walker, ScEdD

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Scott L. Walker, ScEdD, swalker6@alamo.edu

PROGRAMS AND RESEARCH FACILITIES: There are two majors in this discipline: Environmental Science and Geography. This program is designed to help prepare students to transfer to a university and major in geography or environmental science.

We offer an International Field Study Program in the High Atlas Mountains of Morocco during the early summer. We also have a number of ongoing extracurricular undergraduate research projects and we disseminate the results in academic journals and at Southwest Association of American Geographers meetings.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic plans are called Transfer Advising Guides (TAGs). They track students into regional universities. See here for the TAGs in Environmental Science and for Geography and Environmental Sustainability: <http://myalamocatalog.alamo.edu/content.php?catoid=157&navoid=9461>

FACULTY:

Scott L. Walker, ScEdD, Curtin University, 2004; Professor — mountain geography, place & sex, transformative learning, distance education, psychosocial learning environments
Charles Yeager, PhD, Indiana State University, 2013; Assistant Professor — geography of beer, food geography, GIS

SAN ANTONIO COLLEGE

NATURAL SCIENCES DEPARTMENT

DATE FOUNDED: 1953

HEAD: Teanna Staggs

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Natural Sciences Department, San Antonio College, 1300 San Pedro, San Antonio, TX, 78212. Telephone (210)-486-0045. Fax (210) 486-0055. E-mail: tstaggs@alamo.edu Internet: http://my-saccatalog.alamo.edu/preview_entity.php?catoid=91&ent_oid=2301&returnto=3571

PROGRAMS AND RESEARCH FACILITIES: The department provides core curriculum instruction in introductory level courses in physical, human, and regional geography.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Prospective students should contact the Office of Admissions, Fletcher Administration Center (FAC 216), 1819 N. Main Avenue, San Antonio, TX 78212-3941. Telephone (210) 486-0700, Fax (210) 486-1543.

FACULTY:

Dean P. Lambert, Ph.D., University of Texas, 1992, Professor — physical geography, cultural geography, world regional geography, Latin America

Ryan Rudnicki, Ph.D., Pennsylvania State University, Adjunct Instructor — physical geography

C. Keith Smith, M.A.G., Southwest Texas State, Adjunct Instructor — physical geography

G. Roger Stanley, Jr., M.A., University of Texas, Associate Professor — astronomy and earth science

TARLETON STATE UNIVERSITY

DEPARTMENT OF HISTORY, SOCIOLOGY, GEOGRAPHY & GIS – GEOGRAPHY PROGRAM

DATE FOUNDED: 2016

DEGREES OFFERED: B.S. in Geography and Geographic Information Systems

MAJORS: 13 Undergraduate Geography/GIS

CHAIR/PROGRAM COORDINATOR: Dr. Opeyemi Zubair

PROGRAM ADMIN. ASSISTANT: Jeannie Vazquez

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of History, Sociology, Geography & GIS, Box T-0660, Tarleton State University, Stephenville, Texas 76402. Telephone (254) 968-9021. Fax (254) 968-9784. E-mail: zubair@tarleton.edu. Internet: <http://www.tarleton.edu/degrees/bachelors/bs-geographic-information-systems/>. Catalog: <http://catalog.tarleton.edu/undergrad/collegeofliberalfinearts/socialsciences/#text>

PROGRAMS AND RESEARCH FACILITIES: The Department of History, Sociology, Geography and GIS, Tarleton State University offers undergraduate majors in Geography and Geographic Information Systems the opportunity to join faculty in their research in geospatial analysis and human geography. The program is student-focused, with a special emphasis on applied research as it relates to Geographic Information Systems, Remote Sensing and Human Geography. Students in the program are offered many opportunities and financial support to present the results of their undergraduate research at numerous meetings. This degree program emphasizes on graduating students on time! Our courses are taught on a rotation,

providing students with the flexibility of having most of the required courses taught at least once a semester, and often times twice a semester.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Admission to the undergraduate major program in Geography/GIS is the same as that for admission to the College of Liberal & Fine Arts: <http://www.tarleton.edu/admissions/>. Specifically, the Bachelor of Science Degree in Geography and Geographic Information Systems (GIS) is a 120 (4 years) credit hour program which teaches students how to think geographically, how to use geographic computer software programs (such as ArcGIS), and how to create maps and databases to solve contemporary world issues such as global climate change and resource management. A teacher certification option is available in the program to teach at the secondary level.

FACULTY:

Kelly Lemmons, Ph.D., Texas A&M University, 2014, Assistant Professor — human geography, geography of travel, international experience, study abroad, GIS

Opeyemi Zubair, Ph.D., University of Missouri-Kansas City, 2016, Assistant Professor — applied geography, GIS, remote sensing, cartography, landscape modeling, human-environment interactions, wetlands

VISITING FACULTY:

Yuen Tsang, Ph.D., University of Texas at Dallas, 2019, Visiting Instructor — remote sensing, GIS, human-environment interactions, UAV, physical geography

ADJUNCT FACULTY:

John Martins, M.S., Plattsburgh State University — human geography, navigation, military geography

TEXAS A&M UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1968

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: B.S. Geography, B.S. Geographic Information Science and Technology, B.S. Environmental Studies, B.S. Spatial Sciences, M.S., Ph.D.

GRANTED 9/1/18-8/31/19: 67 Bachelors, 10 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 424 Majors, 32 Masters, 8 Ph.D. Geography, Geographic Information Sciences and Technology, Environmental Studies and Spatial Sciences Majors, Masters, Ph.D.

NOT IN RESIDENCE: 35 B.S., 22 M.S., 49 Ph.D.

HEAD: David M. Cairns

DEPARTMENT ADMINISTRATIVE ASST: Carria Collins

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Director, Department of Geography, College of Geosciences, MS 3147, Texas A&M University, College Station, Texas 77843-3147. Telephone (979) 845-7141. Fax (979) 862-4487. E-mail: geog-advisor@geog.tamu.edu. Internet: <https://geography.tamu.edu/>. Online catalog can be obtained from Admissions, at <http://catalog.tamu.edu/>. An application is available online at <https://www.applytexas.org/> or <http://admissions.tamu.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The department offers advanced training in five themes. *Physical geography*

emphasizes the study of surficial processes in the fields of geomorphology, biogeography, climatology and hydrology. *Human geography* includes programs in cultural, historical, economic, urban, and political geography. A third theme integrates *Human-environment interactions*; specific foci are conservation and development, cultural and political ecologies, environmental history, environmental justice, environmental policy, water resources and land-use change. The Geographic Science and Technology theme aims to provide modern training in theory and application of GIS and remote sensing.

The department maintains a comprehensive spatial analysis and mapping laboratory, including both workstation and networked PC-based hardware and software for geographical information systems, remote sensing, digital image processing and computer mapping and graphics. There are three physical geography teaching laboratories and six research laboratories. The equipment and facilities include standard gear for field surveying and mapping, soil and sediment analysis, vegetation analysis, water quality and hydrology, as well as specialized equipment. Students and faculty are actively involved in the interdisciplinary research and teaching activities in the College of Geosciences. The College comprises programs in geology, geophysics, meteorology, oceanography and geography. The department is a partner in the College's Light Stable Isotope Analytical Facility. Geographers participate in other interdisciplinary groups or facilities, including the George Bush School of Government and Public Service, Whole Systems Genomics Institute, Applied Biodiversity Science Program, Center for Science and Technology Policy and Ethics, the Spatial Sciences Laboratory, Texas Center for Climate Studies, The Texas A&M Water Program, and the Center for the Study of First Americans. The department collaborates with the Department of Ecosystem and Science Management to administer Graduate Certificate Programs in Remote Sensing and Geographic Information Sciences.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: This program is on the semester system. The B.S. degree requires 120 credit hours of which 55 must be in geography. Applicants are evaluated on an individual basis that assesses academic achievement, potential for success, and other factors. No single factor may be used for the determination of admission or rejection of an applicant. The department offers a B.S. in Geography and a B.S. in Geographic Information Science and Technology. The department offers minors in Geography and Geoinformatics, and administers B.S. degree programs in Environmental Studies and in Spatial Sciences.

Graduate: Three degree programs are offered by the department: M.S., M. Geosciences, and Ph.D. Applicants must submit an application form and fee, undergraduate transcript and graduate transcript (Ph.D. only), GRE scores (verbal and quantitative), three letters of recommendation and a statement of purpose. Applications for Fall should be submitted by January 1st, for full consideration for fellowships and scholarships. Research and teaching assistantships and fellowships are available through the Department and the University.

FULL AND PART-TIME FACULTY:

George Allen, Ph.D., The University of North Carolina at Chapel Hill, 2017, Assistant Professor — global river water resources and fluvial geomorphology, data remote sensing analysis, geographic information systems, fieldwork
Michael Bishop, Ph.D., Indiana State University, 1987, Professor & Cook Professor in Geosciences — remote sensing, GIS, geomorphometry, spatial analysis and modeling, mountain geomorphology, cryospheric sciences
Rodrigo J. Bombardi, Ph.D., University of California, 2013, Assistant Professor — climatology, monsoon systems, regional and global climate modeling, predictability studies

Bonnie Bounds, Ph.D., The Ohio State University, 2019, Visiting Assistant Professor — rural/urban economic development, human capital, economic geography
Christian Brannstrom, Ph.D., Wisconsin, 1998, Professor and Associate Dean for Academic Affairs — political/cultural ecology, energy, historical geography, Latin America
Betsy Breyer, Ph.D., University of Illinois, 2019, Visiting Assistant Professor — society, space & environments, cities & metropolitan areas, urban political ecology, land use and land cover change
John Casellas Connors, Ph.D., Arizona State University, 2015, Assistant Professor — social-ecological systems, focused primarily on issues of food system sustainability and processes of land cover change
David M. Cairns, Ph.D., Iowa, 1995, Professor and Department Head — biogeography, landscape ecology, ecosystem modeling, GIS applications
Anthony M. Filippi, Ph.D., South Carolina 2003, Associate Professor — remote sensing, GIS, ocean optics, machine learning
Oliver W. Frauenfeld, Ph.D., University of Virginia, 2003, Associate Professor and Director of Undergraduate Programs — synoptic climatology, surface-atmosphere interactions, climate change
Tyler Fricker, Ph.D., Florida State University, 2019, Visiting Assistant Professor — physical geography, extreme weather and climate, hazards, spatial statistics
John R. Giardino, Ph.D., P.G., Nebraska, 1979, Professor in Geology and Geophysics Department — periglacial, engineering and fluvial geomorphology, earth science education (joint appointment with Geology and Geophysics)
Daniel Goldberg, Ph.D., University of Southern California, 2010, Associate Professor — GIS, CyberGIS, GIS programming & algorithms, spatial databases, health GIS (joint appointment with Computer Science)
Burak Güneralp, Ph.D., Illinois, Urbana-Champaign, Assistant Professor — urbanization and global environmental change, urban land-use change, interactions between socio-economic and biophysical systems, systems modeling, remote-sensing applications
Inci Güneralp, Ph.D., Illinois, Urbana-Champaign, Associate Professor and Graduate Director — fluvial geomorphology, lowland rivers, spatio-temporal modeling, human impact on fluvial systems
Wendy Jepson, Ph.D., UCLA, 2003, Professor and University Professor — political/cultural ecology, sustainability, water security, water governance, environmental justice, Latin America
Andrew G. Klein, Ph.D., Cornell, 1997, Professor and EOG Teaching Professor — remote sensing, GIS, glacial geomorphology, cryosphere, hydrology
Charles W. Lafon, Ph.D., Tennessee, 2000, Professor and Assistant Department Head — biogeography, vegetation dynamics
Thomas Loder, Ph.D., Texas A&M University, 2018, Visiting Assistant Professor — cultural and economic changes in energy-producing environments in the rural United States, socioeconomic impacts
Julie Loisel, Ph.D., Lehigh University, 2012, Assistant Professor — climate change ecology, paleoclimate reconstructions, high-latitude ecosystem dynamics, peatland carbon cycling, global biogeochemical cycling
Stacey D. Lyle, Ph.D., University of Georgia, 2003, Assistant Professor of Practice — professional land surveying, geodesy, geomatics, petroleum geoscience, GIS
Kathleen O'Reilly, Ph.D., Iowa, 2002, Professor — political/cultural ecology, gender, water resources, South Asia, queer studies
Erik Prout, Ph.D., Louisiana State, 2001, Instructional Associate Professor — cultural and political geography
E. Brendan Roark, Ph.D., California, Berkeley, 2005, Associate Professor and Director of Environmental Programs — paleoceanography, geochemistry, earth system sciences, corals, deep-sea corals

Lindsay Sansom, Ph.D., Texas A&M University, 2018, Research Assistant Professor — socio-ecological systems, transboundary water sharing, international water law, common pool resource management, political ecology, human-environment dynamics, Latin America

Jonathan M. Smith, Ph.D., Syracuse, 1991, Professor — cultural, historical, history and philosophy of geography, United States

Vatche P. Tchakerian, Ph.D., UCLA, 1989, Professor — desert and coastal geomorphology, aeolian environments, Quaternary (joint appointment with Geology and Geophysics)

Courtney M. Thompson, Ph.D., University of Idaho, 2016, Assistant Professor — natural hazards, risk perception, vulnerability and resilience assessments, GIS and spatial statistics

Zhe Zhang, Ph.D., Aalto University, 2016, Assistant Professor — GIScience, decision science, applied mathematics, spatial uncertainty, big data and CyberGIS, disaster management

Lei Zou, Ph.D., Louisiana State University, 2017, Assistant Professor — GIS, social media data mining, spatial data science, disaster resilience, sustainability

EMERITI FACULTY:

Robert S. Bednarz, Ph.D., Chicago, 1975, Professor Emeritus — spatial thinking and cognition, geographic education, economic, urban, property value, taxation

Sarah W. Bednarz, Ph.D., Texas A&M, 1992, Professor Emerita — geography education, human geography, curriculum development, environmental education, GIScience and education, education for sustainable development

Peter J. Hugill, Ph.D., Syracuse, 1977, Professor Emeritus — cultural/historical, political, world system theory, landscape, Anglo-America

Clarissa T. Kimber, Ph.D., Wisconsin, 1969, Professor Emerita — plant geography, sustainable agriculture, Caribbean

James B. Kracht, Ph.D., Washington, 1971, Professor Emeritus — geographic education, curriculum development, urban, United States

AFFILIATED AND GRADUATE FACULTY:

Daikwon Han, Ph.D., SUNY-Buffalo, 2003, Associate Professor — spatial epidemiology, environmental health/exposure assessment, health GIS and geography (joint appointment with Epidemiology and Biostatistics, School of Public Health)

Zenon Medina-Cetina, Ph.D., The John Hopkins University, 2006, Associate Professor — stochastic geomechanics, risk, reliability and sensibility analysis, geostatistics: probabilistic site characterization, integrated site characterization: geologic, geophysical and geotechnical

Jim Norwine, Ph.D., Indiana State, 1971, Regents Professor, Texas A&M University-Kingsville, Kingsville, TX — climate, philosophy of geography

David P. Rechless, Ph.D., Penn State University, 2015, Assistant Professor (joint appointment with Department of Marine Sciences, Texas A&M University at Galveston) — climate change, cartography, hazards

Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair, University of Alabama — geomorphology, coastal and aeolian environments

John D. Vitek, Ph.D., University of Iowa, 1973, Department of Geology and Geophysics Professor — periglacial geomorphology, earth science education

TEXAS CHRISTIAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 2016

DEGREES OFFERED: B.A., B.S. in Geography

GRANTED 9/1/18-8/15/19: 16 Bachelors

MAJORS: 31 Majors

MINORS: 21 Minors

CHAIR: Ben Tillman

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Melissa Payton

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Benjamin F. Tillman, Geography Department, TCU Box 297280, Scharbauer Hall 2004, Fort Worth, Texas 76129. Telephone (817) 257-4377. Fax (817) 257-4494. E-mail: b.tillman@tcu.edu.

PROGRAMS AND RESEARCH FACILITIES: The Geography Program offers Bachelor of Arts and Bachelor of Science degrees that require a minimum of 124 hours. Students majoring in geography must complete 30 hours for the B.A. degree and 42 hours for the B.S. degree. Required courses include World Regional Geography, Human Geography, Physical Geography, and GIS. Students may select additional courses from a menu of regional and systematic courses. Texas Christian University offers Geography majors the opportunity to participate with faculty in their research. Field trips are a component of most upper-division geography courses and summer study abroad programs are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Texas Christian University operates on the semester system. Undergraduate applicants must satisfy the general admission requirements for the University. Detailed information concerning admission requirements and financial aid can be found on the University's web page <https://addran.tcu.edu/geography/>

FACULTY:

Ashley Coles, Ph.D., University of Arizona, 2013, Assistant Professor — human-environment interactions, hazards, development, science and technology studies, Latin America

Sean M. Crotty, Ph.D., San Diego State University and University of California at Santa Barbara, 2012, Assistant Professor — economic, urban, North America

Jeffrey B. Roet, Ph.D., Northwestern, 1982, Instructor — urban, cultural, historical, United States, Western Europe

Andrew Schoolmaster, Ph.D., Kent State 1979, Dean of AddRan College of Liberal Arts — applied

Sarah Schwartz, Ph.D., University of South Carolina 2011, Lecturer — tourism, Sub-Saharan Africa

Benjamin F. Tillman, Ph.D., Louisiana State University, 1999, Associate Professor — cultural, historical, Latin America

Kyle Walker, Ph.D., University of Minnesota, 2011, Associate Professor — GIS, urban geography

TEXAS STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

GRADUATE PROGRAM FOUNDED: 1983

DEGREES OFFERED: B.A., B.S. in Geography; B.S. in Resource and Environmental Studies, Geographic Information Science, Physical Geography, Water Studies, Urban and Regional Planning; Certificates in GIS, Location Analysis, Environmental Interpretation, and Water Resources Policy; Master of Applied Geography (M.A.G.); Master of Science in Geography (M.S.); Ph.D. in Geography, Geographic Information Science, Geographic Education

GRANTED 9/1/17-8/31/18: 186 Bachelors, 26 Masters, 8 Ph.D.

STUDENTS IN RESIDENCE: 550 Majors, 47 Masters, 57 Ph.D.

CHAIR: Yongmei Lu

ASSOCIATE CHAIR: Jason Julian

PROGRAM COORDINATORS: Brian

Cooper, Undergraduate Program Coordinator;
Undergraduate Staff Administrative Assistant; Ben Zhan,
Graduate Program Coordinator; Allison Glass, Graduate
Staff Advisor

DEPARTMENT ADMINISTRATIVE ASSTS: Angelika
Wahl, Office Manager; Joyce Wilkerson, Patricia Hell-
Jones

FOR CATALOG AND FURTHER INFORMATION: 1) about the Department: Angelika Wahl (AL07@txstate.edu), 2) about Undergraduate programs: Undergraduate Director of Admissions, Undergraduate Admissions Office, Texas State University, San Marcos, Texas 78666; Brian Cooper (BC31@txstate.edu) Undergraduate Program Coordinator; or the Undergraduate Staff Administrator; 3) about Graduate programs: Ben Zhan (FZ01@txstate.edu), Graduate Program Coordinator, or Allison Glass (AM13@txstate.edu), Graduate Staff Advisor. Telephone (512) 245-2170. Fax (512) 245-8353. Website: www.geo.txstate.edu (for information on academic programs, faculty, facilities, research centers, schedules, student organizations).

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate: General geography majors are available for both B.A. and B.S. degrees. Major concentrations within the B.S. degree program are also available in resource and environmental studies, urban and regional planning, geographic information science, water studies, and physical geography. A teacher certification option is also available. Numerous scholarships and internship opportunities are likewise available.

Certificate Programs: The department offers four certificate programs in GIS, Location Analysis, Environmental Interpretation, and Water Resources Policy, which enable students to gain in-depth knowledge and skills in these critical areas.

Graduate, M.A.G.: The Master of Applied Geography degree provides the geographic training and skills necessary to solve real-world problems. The 33-hour M.A.G. program includes a 9-hour required core and a major in: 1) general geography, 2) resource and environmental studies, 3) geographic information science, or 4) geographic education. Students complete a 3-hour directed research project. Internships are also available.

Graduate, M.S.: The Master of Science in geography program gives highly qualified students exposure to geographic theory and research at the pre-doctoral level. Programmatic emphases include environmental geography, geographic information science, geographic education, and other specialty areas in geography represented by the current research interests of the faculty. The 30-hour M.S. curriculum includes 9 hours of core courses, 15 hours of additional course work, and a 6-hour master's thesis.

Graduate, Ph.D.: Ph.D. in geography, geographic information science, and geographic education. The Ph.D. is a research-based degree that allows doctoral graduates to fill professional positions in universities, public agencies, and private enterprises. The Ph.D. degree requires a minimum of 31 hours of course work, including 9 hours of core courses beyond the master's degree, plus a minimum of 15 hours of dissertation research and writing.

Research Facilities: The department is actively involved with numerous research programs and has three internal research centers: The Gilbert M. Grosvenor Center for Geographic Education (Director

Richard Boehm, RB03@txstate.edu), The National Center for Research in Geography Education (Co-Directors Richard Boehm, RB03@txstate.edu and Michael Solem, MS32@txstate.edu), the Texas Center for Geographic Information Science (Director Nate Currit, NC17@txstate.edu), and the Institute for Government Innovation (Director Rebecca Davio R. D178@txstate.edu). The University is a member of the University Consortium for Geographic Information Science (UCGIS) and the University Corporation for Atmospheric Research (UCAR).

The department has more than 450 PCs linked via servers that support six teaching labs and seven research labs through an extensive library of software applications. For more information about the department's computing infrastructure, visit our Website at www.geo.txstate.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester system. Department tours are available during semesters. The University participates in a variety of federal, state, and local financial aid programs. Application may be obtained through high school counselors or the Office of Financial Aid, Texas State University (Web site: www.txstate.edu).

Graduate, M.A.G.: Semester system. Applicants must submit official transcripts indicating a 3.2 GPA or higher in their last 60 hours of undergraduate course work, three letters of recommendation, resume, and a statement of purpose outlining academic interests. All international students must submit an internet based (iBT) TOEFL score with at least a total minimum score of 78. The TOEFL is required of international applicants who are non-native speakers of English.

All applicants must submit official GRE scores. Applications must arrive at the Graduate College no later than May 1 for fall admission and October 15 for spring admission for domestic applicants. The deadline for international application is April 15. Assistantships for Master's degree students are awarded on a competitive basis and currently pay a minimum of \$14,500 per nine-month academic year and include a waiver of out-of-state tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by February 1. Occasionally, assistantship funds may still be awarded after this date. Master students can retain assistantships for up to two years from initial entry into the program.

Graduate, MS.: Same as M.A.G., except applicants must have a 3.4 GPA or higher in their last 60 hours of undergraduate course work. For assistantship information, see M.A.G. above.

Graduate, Ph.D.: Semester system. Applicants must have a 3.5 GPA on a 4.0 scale in their master's course work in geography or a closely related field, and submit three letters of recommendation, curriculum vita, a statement of purpose, and arrange submission of official GRE scores. All international students must submit an internet based (iBT) TOEFL score with at least a total minimum score of 78. The TOEFL is required of international applicants who are non-native speakers of English. No conditional admissions are accepted.

All application materials must be submitted to the Graduate College by May 1; for international students, by April 15. Ph.D. graduate assistantships are awarded on a competitive basis and currently pay a minimum of \$27,820 for nine months and include waiver of out-of-state tuition. Students are still responsible for in-state tuition and fees. For full consideration for assistantships, applications should be received by January 15th. Occasionally, assistantship funds may still be awarded after this date. Ph.D. students can retain Ph.D. assistantships for up to four years from initial entry into the program.

FACULTY:

- Thomas Ballinger, Ph.D., Kent State, 2015, Assistant Professor* — climatology, climate and environmental change, cryosphere-climate interaction, synoptic meteorology
- R. Denise Blanchard, Ph.D., Colorado at Boulder, 1992, Professor* — natural and environmental hazards, economic, environmental studies, historical, research methods, location analysis, international trade, relations and development, coastal zones, energy resources, conservation
- Sarah Blue, Ph.D. UCLA, 2004, Associate Professor* — Latin America, population, migration, qualitative methods, immigration policy, agroecology
- Richard G. Boehm, Ph.D., Texas at Austin, 1975, Professor and Jesse H. Jones Distinguished Chair of Geographic Education* — geographic education, economic
- Mark L. Carter, M.A.G., Texas State, 1994, Senior Lecturer* — land use analysis, quantitative methods, energy
- Edwin Chow, Ph.D., South Carolina, 2005, Associate Professor* — GIScience, geocomputation, GIS based-modeling, GIScience programming, hazards, environmental modeling, human dynamics, risk/exposure/vulnerability assessment, disaster scene analytics
- Brian Cooper, Ph.D., Texas State, 2012, Senior Lecturer* — world regional, U.S. and Canada, economic
- Nathan Currit, Ph.D., Pennsylvania State, 2003, Associate Professor* — remote sensing and land cover change, GIScience, human-environment systems
- Rebecca Davio, Ph.D., Texas at Austin, 2001, Associate Professor of Practice* — solid waste management, land management
- Rene DeHon, Ph.D., Texas Tech, 1970, Senior Lecturer* — geology, mineralogy, petrology, planetary geology
- Jennifer Devine, Ph.D., California at Berkeley, 2013, Assistant Professor* — political, Central America, sustainable development, qualitative methods, conservation, drug trafficking, critical social theory, community-resource management, protected area governance, conservation
- Richard W. Dixon, Ph.D., Texas A&M, 1996, Professor* — climatology, meteorology, oceanography, hazards, quantitative methods, environmental
- Richard A. Earl, Ph.D., Arizona State, 1983, Professor* — water resources, environmental change and management, field methods, physical
- Alberto Giordano, Ph.D., Syracuse, 1999, Professor* — cartography, historical GIS, Holocaust and genocide, spatial applications of forensic anthropology, spatial humanities
- Ronald Hagelman, III, Ph.D., Texas State, 2001, Associate Professor* — environmental, hazards and disaster, disaster recovery, land management and conservation, urban environment/agriculture
- Suzon Jammes, Ph.D., Strasbourg, France, 2009, Senior Lecturer* — geology, geophysics
- Jennifer Jensen, Ph.D., Idaho, 2009, Associate Professor* — Lidar, remote sensing, biogeography, land use/land cover change
- Injeong Jo, Ph.D., Texas A&M, 2011, Associate Professor* — geographic education, geospatial technologies for education, assessment in geography
- Jason Julian, Ph.D., North Carolina, 2007, Professor and Associate Chair* — water resources, riverscapes, parks and protected places, geomorphology, land change science, fluvial geomorphology
- Yanan Li, Ph.D., University of Tennessee, 2015, Assistant Professor* — geomorphology, physical, climatology, natural hazards, glacial geomorphology, GIS applied to physical geography, paleoclimatology, digital terrain analysis
- Timothy Loftus, Ph.D., Southern Illinois University Carbondale, 2000, Professor of Practice and Meadows Endowed Chair in Water Conservation* — water conservation and efficiency, water supply planning and policy, watershed planning
- Yongmei Lu, Ph.D., SUNY at Buffalo, 2001, Professor and Chair* — GIScience, urban and regional studies, crime, health, China and East Asia

Robert Mace, Ph.D., University of Texas at Austin, 1998, Professor of Practice — water policy, policy and science, water resources and planning

Kimberly Meitzen, Ph.D., South Carolina, 2011, Assistant Professor — fluvial processes, geomorphology, river processes and connectivity, conservation biogeography, environmental flows

Osvaldo Muniz, Ph.D., Tennessee, 1991, Professor — geographic education, Latin America, online learning methods, global collaboration, international flows

Colleen Myles, Ph.D., California at Davis, 2012, Assistant Professor — land and environmental management, cultural and political ecology, food and fermented landscapes, qualitative methods

Andrew Sansom, Ph.D., Texas State, 2013, Professor of Practice — water resources, parks and protected places, conservation leadership

Eric Sarmiento, Ph.D., Rutgers, 2015, Assistant Professor — urban, cultural, political ecology, social theory, economic

Alexander Savelyev, Ph.D., Pennsylvania State, 2015, Assistant Professor — geovisualization, geovisual analytics, cartography

Michael Solem, Ph.D., Colorado at Boulder, 1999, Research Professor — geographic education

John P. Tiefenbacher, Ph.D., Rutgers, 1992, Professor — hazards, environmental problems, spatial responses to climate change, environmental perception and behavior, air quality, viticulture, historical, genealogy

Christi Townsend, Ph.D., Texas State, 2012, Senior Lecturer — physical, research methods, world

Dolores van der Kolk, Ph.D., Texas at Austin, 2016, Lecturer — geology, structural geology

Russell Weaver, Ph.D., University at Buffalo, 2012, Assistant Professor — urban change and decline, GIScience, quantitative methods, neighborhood change, land use policy, community economic development

Yihong Yuan, Ph.D., California at Santa Barbara, 2013, Assistant Professor — GIScience, spatio-temporal data mining, human mobility modeling and travel behavior, GIScience programming

F. Benjamin Zhan, Ph.D., SUNY at Buffalo, 1994, Professor — GIScience, health, medical, spatial data science, transportation, hazards reduction, China

ADJUNCT FACULTY:

Neil Kucera, J.D., Houston, 1986; M.A.G., Texas State, 2001, Lecturer — environmental law, energy and resource management

Jo Beth Oestreich, Ph.D., Texas at Austin, 2002, Lecturer — geographic education

Shelley Plante, M.A.G., Texas State, 2007, Lecturer — nature and heritage tourism

Cathryn Springer, Ph.D., Texas State, 2007, Lecturer — world, U.S. and Canada

EMERITUS FACULTY:

Byron Augustin, D.A., Northern Colorado, 1975, Regent's Professor and University Distinguished Professor Emeritus — conservation, Latin America, geographic education, Middle East

Brock J. Brown, Ph.D., Oklahoma, 1992, Distinguished Professor Emeritus — geographic education, cultural ecology, historical Southwest, urban

David R. Butler, Ph.D., Kansas, 1982, Texas State University Regents' Professor — geomorphology, natural hazards, mountain environments and environmental change, biogeography

Frederick A. Day, Ph.D., Ohio State, 1982, Professor — population, economic development, East and Southeast Asia

J. Ronald Eyton, Ph.D., Illinois, 1974, Professor — remote sensing, computer cartography, quantitative methods

James R. Kimmel, Ph.D., Texas at Austin, 1992, Professor — nature and heritage tourism, Southwestern geography, river studies

Robert D. Larsen, Ph.D., Wisconsin at Madison, 1976, Distinguished Professor Emeritus — urban and regional planning, land use planning and environmental policy, solid waste management, transportation

Susan M. Macey, Ph.D., Illinois, 1982, Professor — environmental hazards, aging, medical, GIScience

James F. Petersen, Ph.D., Utah, 1981, Distinguished Professor Emeritus — physical, geomorphology, geographic education

David Stea, Ph.D., Stanford, 1964, Professor — spatial cognition, environmental perception, sustainable development

Philip W. Suckling, Ph.D., British Columbia, 1977, Professor — climatology, natural hazards

TECHNICAL STAFF:

Daniel D. Hemenway, M.S., Alberta, 1995, Senior Computer Systems Analyst

Charles Robinson, B.B.A., Texas State, 1995, Computer Systems Analyst

TEXAS TECH UNIVERSITY

GEOGRAPHY PROGRAM, DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1971

GRADUATE PROGRAM FOUNDED: 2011

DEGREES OFFERED: BA (Geography), MS (Geography), PhD (Geosciences)

GRANTED 8/1/17-8/1/18: 19 Bachelors, 2 Masters, 4 PhDs

STUDENTS IN RESIDENCE: 39 Undergraduate, 9 Masters, 8 PhD

CHAIR: Kevin R. Mulligan

DEPARTMENT ADMINISTRATIVE ASST: Hannah Webb, Catherine Massengale

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Kevin R. Mulligan, Department of Geosciences, MS 1053, Texas Tech University, Lubbock, TX 79409-1053. Telephone (806) 834-0391. E-mail: kevin.mulligan@ttu.edu. Web Page: www.depts.ttu.edu/geosciences

PROGRAMS AND RESEARCH FACILITIES: The Geography Program in the Department of Geosciences offers a course of study leading to the Bachelor of Arts in Geography, the Master of Science in Geography, the PhD in Geosciences (Geography track), and a Graduate Certificate in Geographic Information Science and Technology. The BA combines a liberal arts education with the technical skills necessary to be successful in the modern workforce or to pursue higher-level graduate study. The degree program emphasizes coursework in both the social and physical sciences to provide students with a broad understanding of Earth's physical environment and the human experience in that world. Geography majors are strongly encouraged to pursue a minor in Geographic Information Science and Technology (GIST). At the graduate level, the Geography Program offers thesis and non-thesis options for the MS degree, and the PhD in Geosciences is adaptable to research topics in either human geography, physical geography or GIST. The department has three computer labs dedicated to teaching GIS and remote sensing and one physical geography lab. As part of the Department of Geosciences, students also have access to atmospheric science, geology, geochemistry, and geophysics research facilities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates on a semester system. Undergraduate and graduate applicants must satisfy the general admissions requirements for the University. Detailed information concerning admission requirements and financial aid can be found on

the University's web page www.ttu.edu. Teaching and research assistantships are available to qualified applicants on a competitive basis.

FACULTY:

Karin Ardon-Dryer, Ph.D., Tel Aviv University, 2012, Assistant Professor — cloud physics, aerosols-cloud interaction, geohealth, aerosol-health interaction, air pollution & air quality, dust storms

Lucia S. Barbato, M.A., UCLA, 1988, GISP, Instructor, Senior Research Associate, Center for Geospatial Technology — geographic information systems, GIS in water resources, geodatabase design

Guofeng Cao, Ph.D., UCSB, 2011, Associate Professor, Co-Director, Center for Geospatial Technology — GIS, geostatistics, spatial uncertainty, cyberinfrastructure, GIS in public health and environmental science

Perry L. Carter, Ph.D., Ohio State, 1998, Associate Professor — cultural, social, economic, tourism and museum geographies, geographies of race, methodology

Gary S. Elbow, Ph.D., Pittsburgh, 1972, Professor Emeritus — cultural, settlements and land utilization, development planning, Latin America, geography education

Cameron Griffith, ABD, Indiana, Instructor — GIS, geolocation, archaeology, remote sensing, rock art, agent based modeling, applied computational demography

Linda L. Jones, M.A., UCLA, 1986, Instructor and Lab Director — human geography, environmental and historical geography, geographic education

Jeffrey A. Lee, Ph.D., Arizona State, 1990, Professor — physical geography, geomorphology, aeolian processes, field methods, science education

Kevin R. Mulligan, Ph.D., Texas A&M, 1997, Associate Professor and Chair — geographic information systems, physical geography, geomorphology, arid lands, aeolian processes and landforms

Patricia Solis, Ph.D., Iowa, 2002, Adjunct Research Associate Professor, Co-Director, Center for Geospatial Technology — geographic technologies, higher education, developing regions, climate change

Xiaopeng Song, Ph.D., University of Maryland, 2015, Assistant Professor — remote sensing, land-cover and land-use change, deforestation, agricultural in(ex)tenification, urbanization, South America, United States, China

Zhen Song, Ph.D., Beijing Normal University, 2018, Research Assistant Professor — remote sensing, land surface temperature, albedo, environmental change

UNIVERSITY OF NORTH TEXAS

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1901

GRADUATE PROGRAM FOUNDED: 1995

DEGREES OFFERED: B.A., B.S. in Geography; M.S. in Geography; Ph.D. in Environmental Science; Ph.D. in Information Science; Ph.D. in Philosophy

GRANTED 9-1-17 to 8-31-18: 46 Bachelors, 16 Masters (Geography)

STUDENTS IN RESIDENCE: 119 Bachelors, 26 Masters (Geography)

CHAIR: Steve Wolverton

DEPARTMENT ADMINISTRATIVE ASSISTANTS: Tami Deaton & Keshia Wilkins

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and the Environment, University of

North Texas, 1155 Union Circle #305279, Denton, Texas 76203-5017.
Telephone: (940) 565-2091. Fax: (940) 369-7550. E-mail: geog@unt.edu. Internet: www.geography.unt.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Our bachelor's program emphasizes the acquisition of basic research skills, geographic concepts, and techniques, and their applications, preparing students for employment in diverse areas of high demand in the job market or advanced study. Students select courses from physical and human geography, as well as geospatial technology, customizing degree plans to areas of interest. For example, recent students have emphasized: environmental management; water, food, and energy resources; geospatial technologies and GIS; urban and economic geography; globalization and development; medical geography and public health; ecosystems geography; geomorphology and geology; and environmental archaeology. Both undergraduate and graduate students also have access to internships; the department has collaborated with 80 government agencies and companies in the Dallas-Fort Worth metropolitan area. In addition to bachelor's degrees in geography, the department offers minors in geography, geology, and archaeology.

GRADUATE: Our graduate curriculum emphasizes research and communications skills, preparing students to meet the challenges of an increasingly globalized and connected world through engagement with theory and practice. In consultation with their advisor, students create degree plans involving coursework and independent research. Degree plans reflect student interests and faculty expertise in four core concept areas — earth science and modeling, human systems and the environment, environmental archaeology, and globalization and development — as well as geospatial technology. For example, recent students have studied: health geography and emergency response; environmental archaeology; GIS and remote sensing; coastal processes and geomorphology; ecosystems and water resources; urban and economic geography; coastal geomorphology; and resource and energy governance. The department offers both research and professional master's degree options.

CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS (GIS): The department offers a five-course certificate providing the conceptual understanding and technical proficiency necessary to apply GIS in various settings (offered at undergraduate and graduate levels).

CERTIFICATE IN ECONOMIC GEOGRAPHY: The department offers a six-course certificate in collaboration with the Department of Economics.

RESEARCH, FACILITIES, AND EQUIPMENT: Funded by many agencies, faculty research is often interdisciplinary, involving fieldwork in the U.S. and numerous other countries. Presently, the department is very active in Latin America, China, South and Southeast Asia, the United States and Canada, West Africa, and Transcaucasia. The department is located in a well-equipped, modern building with an open atmosphere conducive to faculty, staff, and student interaction. Extensive, well-equipped classrooms and laboratories support teaching and research in various aspects of geography and archaeology. We have ample office space for graduate students, as well as informal gathering areas and formal meeting rooms.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The department conducts a holistic review of applicants for evidence of potential success in the graduate program (www.geography.unt.edu). Master's teaching and research assistantships carry competitive monthly stipends, benefits, and an out-of-state tuition waiver. In-state tuition awards for teaching and research assistants are also available on a competitive basis. Applications are accepted through April 15, but those submitted by January 5 are assured consideration for available funding.

FACULTY:

Waqar Ahmed, Ph.D., Clark University, 2007, Associate Professor — socio-economic impacts and manifestations of capitalism, global governance institutions, corporate power and foreign direct investments, nature-society relations, state-society relations
Ipsita Chatterjee, Ph.D., Clark University, 2007, Associate Professor — economic, cultural, and geopolitical impacts of globalization, urban process under capitalism in relation to class, race, and gender
Pinliang Dong, Ph.D., University of New Brunswick, 2003, Professor — geographic information science, remote sensing
C. Reid Ferring, Ph.D., University of Texas, Dallas, 1993; Ph.D., Southern Methodist University, 1980, Professor — prehistory, geoarchaeology, soils geomorphology, fluvial processes, paleoenvironments, Western Eurasia
Matthew Fry, Ph.D., University of Texas, Austin, 2008, Associate Professor — human-environment, energy and resource governance, cultural and political ecology, Latin America and Texas
Paul F. Hudak, Ph.D., University of California, Santa Barbara, 1991, Professor — environmental monitoring and remediation, geologic hazards, wetlands, water resources
Lu Liang, Ph.D., University of California, Berkeley, 2015, Assistant Professor — GIS, remote sensing, environmental health
Kent McGregor, Ph.D., University of Kansas, 1982, Associate Professor — meteorology, climatology, water resources, remote sensing
Lisa Nagaoka, Ph.D., University of Washington, 1999, Associate Professor — zooarchaeology, evolutionary ecology, conservation, biogeography
Joseph R. Oppong, Ph.D., University of Alberta, Edmonton, 1992, Professor — cultural geography, medical geography, location-allocation models, quantitative methods
Feifei Pan, Ph.D., Georgia Institute of Technology, 2002, Associate Professor — hydrology, water resources, modeling
Alexandra G. Ponette-Gonzalez, Ph.D., Yale University, 2009, Associate Professor — global environmental change, terrestrial ecosystems, biogeochemistry, environmental services
Murray D. Rice, Ph.D., University of Saskatchewan, 1995, Professor — applied economic geography, retail geography, urban and regional economic development
Chetan Tiwari, Ph.D., University of Iowa, 2008, Associate Professor — medical geography, GIS programming, computational geography
Harry F.L. Williams, Ph.D., Simon Fraser University, 1989, Professor — geomorphology, paleotempestology, hurricane impacts
Steven J. Wolverton, Ph.D., University of North Texas, 2007; Ph.D., University of Missouri, 2000, Professor — historical ecology, conservation ecology, zooarchaeology

ADJUNCT FACULTY:

Aldo Avina, M.S., University of North Texas, 2010 — introductory GIS
Johnny Byers, M.S., University of North Texas, 2008 — geology
Mara Hedrich, M.S., University of North Texas, 2012 — earth science

UNIVERSITY OF TEXAS AT AUSTIN

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1950

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED: 09/01/17-08/31/18: 112 Bachelors, 2 Masters, 4 Ph.D.

STUDENTS: 600 Majors, 7 Masters, 21 Ph.D.

CHAIR: William Doolittle

DEPARTMENT GRADUATE COORDINATOR: James Gunter

FOR FURTHER INFORMATION WRITE TO: Department of Geography and the Environment, The University of Texas at Austin, Austin, Texas 78712-1098 Telephone (512) 232-1595 Fax (512) 471-5049. E-mail: teal@austin.utexas.edu Internet: <https://liberal-arts.utexas.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES:

The Department offers the B.A. in Geography with several areas of concentration, including Environmental Resource Management, Cultural Geography, GISc, Landscape Ecology and Biogeography, Earth Science, and Urban Geography. It also offers a B.A. in Urban Studies, a B.A. in Sustainability Studies, a B.S. in Environmental Science, the M.A. and Ph.D. in Geography, and a joint Ph.D. in Geography and M.S. in Community and Regional Planning.

Graduate students work closely with their supervising professors to develop individualized, original research projects. Faculty and graduate students have contributed in many ways to understanding and managing earth's diverse cultural and physical environments, ranging from local to global scales across the full range of human history. Current areas of faculty research include Space, Place, and Social Worlds; Environmental Changes and Surface Processes; and Digital Landscapes. The faculty has always had a strong international orientation and is especially well prepared to guide students in research in Latin America, South Asia, Africa, the Middle East, and Europe, as well as field research in the Southwestern and Western regions of the United States. Field work and archival investigation are important parts of student research, and many pursue training in languages and field methods. Computer and laboratory techniques serve the needs of both scientific and humanistic research and teaching; such tools include Geographic Information Science and the laboratory analysis of soils, sediments, and archaeological materials.

The professional development of students involves education in the discipline's heritage and philosophy as well as current issues and theories. Interdisciplinary expertise is developed through course work and involvement in campus-wide as well as Departmental symposia and colloquia. Students are encouraged to attend and present papers at regional and national professional meetings, and to develop skills in leadership, service, and teaching. Most Ph.D. recipients pursue careers in higher education; others obtain advanced professional positions in government agencies, non-governmental organizations, and the private sector. Most Master's recipients are encouraged to pursue the Ph.D.; the rest are employed in a variety of governmental, non-governmental organization, and private sector positions, or in secondary education.

Research facilities: The University library of over eight million volumes is one of the largest in the United States, and is noted for its collections and rare materials on Latin America and the American West and South. The Ransom Center is one of the world's premier cultural archives, and houses thirty million literary manuscripts, five million photographs (including the world's first photograph), and numerous rare maps and atlases. Courses, symposia, and research support are available through nationally prominent area studies centers for Latin America, the Middle East, Russia, East Europe, and Eurasia, and South Asia. Further resources are available through the Population Research Center, the Environmental Science Institute, the Center for Space Research, and the Bureau of Economic Geology.

The Department houses the University's Center for Geographic Information Science and deploys ESRI, ERDAS, and IDRISI software

packages. Facilities for GISc include an Environmental Information Systems Laboratory, a Digital Landscape Laboratory for research, an Environmental Change Laboratory, and a Spatial Sciences Laboratory. The Department has a new Soils and Geoarchaeology Research Laboratory for the study of soils, sediments, and pollen samples, and a new Water Quality and Hydrology Research Laboratory, complementing existing Fluvial Geomorphology Research Laboratories. The Department also has a research partnership with the Hornsby Bend Center for Environmental Research, located in an urban floodplain wetland.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: The University has two regular semesters, and two summer sessions. Students in geography take courses assuring breadth of knowledge in physical geography, human geography, and geographic methods. Students also specialize in an area of concentration. Numerous honors programs such as Liberal Arts Honors, Junior Fellows, Gamma Theta Upsilon, and Phi Beta Kappa are available to geography majors. The University encourages international study.

Graduate: All entering students participate in a common two semester seminar sequence, which provide an introduction to the department, disciplinary research, and international research. A master's student takes at least two organized courses from different faculty during the first year of study, and demonstrates mastery of a foreign language or method prior to receiving the degree. Master's theses usually involve fieldwork, often in foreign countries. A report option is also available for special situations.

A doctoral student crafts a personal program of work with help from a faculty supervisor and dissertation committee, selected by the end of the second semester. Doctoral students take at least three organized courses from different departmental faculty. Mastery of an appropriate method and foreign language, proficiency in two areas of specialization in geography, and passing qualifying examinations admits the student to candidacy. Research and writing of the dissertation culminates in an oral defense.

Graduate Admission Requirements: Students in all disciplines and backgrounds, whose goals are related to faculty interests, are encouraged to apply; a background in geography is not required. Admission is very selective, and is based on careful analysis of the entire application dossier. Personal essay, letters of recommendation, and suitability of previous training and experience for the proposed topic of graduate study are very important. GRE scores and grade point averages are examined, but no single factor guarantees or precludes admission. A personal visit and interview with prospective supervisor is recommended but not required; all applicants should contact relevant faculty members to discuss their goals before applying. All application materials must be submitted by 15 December.

Graduate Financial Aid: The department offers multiple Teaching and Research Assistantships and Fellowships each academic year. Most fellowships and assistantships include rebates to help pay for tuition, and some include extra stipends for travel. The Department also offers several summer teaching assistantships, and several research assistantships. The Department and Graduate School offer travel grants for research and attendance at professional meetings. Many students receive funding through University institutes or area studies programs, and from external sources.

FACULTY:

Paul C. Adams, Ph.D., Wisconsin, 1993, Professor — place images in the media, technologically-mediated gathering, topologies of communication, geopolitical discourses, formation of subjectivity

Eugenio Arima, Ph.D., Michigan State University, 2005, Associate Professor — human-environment relations, GIS/Science, applied quantitative methods, Latin America

Timothy P. Beach, Ph.D., University of Minnesota-Minneapolis, 1989, Professor and C. B. Smith, Sr. Centennial Chair in United States-Mexico Relations — soil and agricultural systems, geomorphology, water, environmental change, paleoclimates, geoarchaeology

Kelley A. Crews, Ph.D., North Carolina, 2000, Associate Professor — land use ecology and management, GIS & remote sensing, environmental policy analysis, population-environment interactions, global tropics

William E. Doolittle, Ph.D., Oklahoma, 1979, Erich W. Zimmermann Regents Professor — landscapes, indigenous agriculture, arid lands, American Southwest, Mexico

Caroline Faria, Ph.D., University of Washington 2009, Assistant Professor — feminist geography, political geography, critical geographies of gender, sexuality and race, transnational feminist theory, critical development geographies, postcolonial geography, cultural geography, African studies

Gregory W. Knapp, Ph.D., Wisconsin, 1984, Associate Professor — cultural and political ecology, historical geography, Latin America

Edgardo Latrubesse, Ph.D., National University of San Luis, Argentina, 1992, Professor — fluvial geomorphology, Latin America, mega-geomorphology, paleogeography, river management

Sheryl Luzzadder-Beach, Ph.D., University of Minnesota-Minneapolis, 1990, Professor & Chair of the Department of Geography and the Environment, and Fellow of the C. B. Smith, Sr. Centennial Chair in United States-Mexico Relations #2 — water resources, geoarchaeology, spatial analysis, geomorphology, paleoenvironments, gender, science and human rights

Jennifer A. Miller, Ph.D., San Diego State-UC Santa Barbara joint program, 2003, Associate Professor — GIScience, integration of GIS and remote sensing, environmental/ecological modeling

Carlos E. Ramos Scharrón, Ph.D., Colorado State University, 2004, Assistant Professor — hydro-geomorphology, terrestrial carbon and sediment budgets, watershed analyses, land use change

Rebecca Torres, Ph.D., UC-Davis, 2000, Associate Professor — rural and community development, transnationalism and migration, Latino communities in the U.S., Mexico and Latin America

Kenneth R. Young, Ph.D., Colorado, 1990, Professor — biogeography, landscape ecology, climate change, sustainability, tropical environments

RELATED FACULTY AND RESEARCHERS ON CAMPUS:

Erick Akins, M.A., Trinity, 1988, Lecturer — non-profit management, grant research, development and writing, grant management, policy development, community development

Samia Aquino da Silva, Ph.D., Universidade Estadual de Maringá, Brasil, Lecturer

Elisabeth K. Butzer, M.A., Chicago, 1977, Research Fellow (Geography and Latin American Studies) — northern New Spain, land use, climatic extremes, epidemics

David J. Eaton, Ph.D., Johns Hopkins, 1977, Bess Harris Jones Centennial Professor of Natural Resource Policy Studies (Public Affairs, Middle Eastern Studies, and Geography) — regional and international environmental resource management, quantitative methods

Jules R. Elkins, Ph.D., University of California at Berkeley, 2008, Lecturer — international development, health, environmental health, environmental economics

Charles D. Frederick, Ph.D., Texas, 1995, Research Fellow — geoarchaeology

David W. Guillet, Ph.D., Texas, 1974, Research Fellow — cultural ecology, irrigation, historical ecology, Spain, Andes, Himalayas, natural resource management, political ecology

Rich Heyman, Ph.D., Washington, 2004, Lecturer — cultural geography, urban geography, critical theory and Marxism, history of geography, pedagogy, public space

Steven D. Hoelscher, Ph.D., Wisconsin, 1995, Associate Professor (American Studies and Geography) Affiliated Faculty — historical geography, tourism, ethnicity, historic landscapes, North America

Donald J. Huebner, Ph.D., Texas, Austin, 2002, Lecturer — American Southwest, desert and mountain environments, coastal environments, surveying, GIS

Bella Bychkova Jordan, Ph.D., Texas, Austin, 2002, Lecturer — cultural geography and ethnogenesis, religion, Russia, circumpolar north

Troy M. Kimmel Jr., B.S., Texas A&M University, 1983, Senior Lecturer — broadcast meteorology, severe/inclement weather forecasting, aviation meteorology

Blanca León, Ph.D. Aarhus U., Denmark, 1993, Research Fellow — plant geography, botany, conservation

Thoralf Meyer, MSc, Anhalt University of Applied Sciences, Germany, 1999, Ph.D. University of Virginia, 2014, Lecturer — land use ecology and land management, environmental science, GIScience, African savanna ecosystems

Molly Polk, Ph.D., The University of Texas at Austin, 2016, Lecturer - Associate Director of Sustainability Studies — land change science, sustainability, mountain geography, human dimensions of global change, landscape ecology, conservation

Bjorn Sletto, Ph.D., Cornell University, Associate Professor at The University of Texas at Austin School of Architecture, Affiliated Faculty — GIS, Latin American planning and development, participatory planning, environmental and social justice, social theory

Jayne Walenta, Ph.D., University of British Columbia, 2009, Lecturer — economic geography, feminist geography, environment and business relations

Peter M. Ward, Ph.D., Liverpool, 1976, Professor (Public Affairs, Sociology, and Geography) Affiliated Faculty — Mexican politics and urban administration, housing and land development in third world countries, local leadership

EMERITI:

Alfred W. Crosby, Jr., Ph.D., Boston, 1961 Professor Emeritus of Geography, History, and American Studies

Robin W. Doughty, Ph.D., UC-Berkeley, 1971, Professor Emeritus of Geography

Robert K. Holz, Ph.D., Michigan State, 1963, Erich W. Zimmermann Regents Professor Emeritus of Geography

Ian R. Manners, D.Phil., Oxford, 1969, Professor Emeritus of Geography (Middle Eastern Studies and Center for Middle Eastern Studies)

Francisco L. Pérez, Ph.D., UC-Berkeley, 1985, Professor — mountain geocology, geomorphology, vegetation ecology, soils

UNIVERSITY OF TEXAS AT SAN ANTONIO

DEPARTMENT OF POLITICAL SCIENCE AND GEOGRAPHY

DATE FOUNDED: 1977

DEGREES OFFERED: Minor in Geography and Environmental Sustainability, B.A. in Geography and Environmental Sustainability, M.A. in Geography

GRANTED: 9/1/16 - 5/31/17: 22 B.A., 10 M.A. (program implemented fall 2014)

STUDENTS: 114 Majors, 30 Minors, 18 Masters

CHAIR: Jon R. Taylor

GEOGRAPHY PROGRAM COORDINATOR: Richard Jones

GRADUATE PROGRAM COORDINATORS: Andrea

Aleman, Nazgol Bagheri, Richard Jones

DEPARTMENT ADMINISTRATOR: Martha Luna

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Political Science and Geography, The University of Texas at San Antonio, One UTSA Circle, San Antonio, Texas 78249. Telephone (210) 458-5600. Fax (210) 458-4629. Email: richard.jones@utsa.edu. Web: <http://colfa.utsa.edu/polisci-geography/>.

For graduate program, contact andrea.aleman@utsa.edu (210-458-4627).

PROGRAMS AND RESEARCH FACILITIES: The geography program is housed with Political Science in the College of Liberal and Fine Arts, and offers a Bachelor of Arts degree requiring 37 hours of courses in the major. The program specializes in cultural, urban, GIS, economic, political, and physical geography, and offers coursework in most other subareas of the field. The program is highly interdisciplinary. Students are encouraged to take courses in related areas of human and environmental sciences, and faculty regularly interact with those in other disciplines and with several Institutes on campus. The department has a GIS lab in addition to a College-level Critical GIS research laboratory with teaching capabilities, both directed by geography faculty. The program provides students and faculty numerous opportunities for study, internships, field trips, and research in the San Antonio region, south Texas, and abroad.

ACADEMIC PLAN, ADMISSIONS REQUIREMENTS, & FINANCIAL AID: The University operates on a semester system, with a full range of summer courses. Complete information on admissions, program, and financial aid, may be obtained through the University website: www.utsa.edu.

Graduate Admissions requirements: For complete program information see the UTSA Graduate School Website: Academic Programs > Geography (M.A.). For application information see <https://apply.embarc.com/grad/utsa/>. Requirements for admission to the GRG Masters program include submission of official transcripts, a statement of purpose, and two letters of recommendation by July 1 for fall or September 1 for spring. A CV and the GRE are recommended but not required. Prerequisites include a 3.0 GPA in the last 60 hours of college work and completion of an introductory GIS course and a Methods course. A limited number of competitive Teaching Assistantships are available, for which early application is encouraged.

FACULTY:

Neil Debbage, Ph.D., U. of Geography, 2018, Assistant Professor — environmental geography, GIS, weather and climate

Nazgol Bagheri, Ph.D., U. of Missouri-Kansas City, 2013, Assistant Professor — urban geography, feminist geography, GIScience, Middle East

Miguel De Oliver, Ph.D., Penn State, 1992, Associate Professor — race and gender disparities, consumerism and social inequality, North America

Richard Jones, Ph.D., Ohio State, 1973, Professor — international migration, development, Texas/Mexico social geography

James Vaughan, Ph.D., Texas State U., 2006, Senior Lecturer — urban planning, resources, physical geography, sustainable urbanism

ADJUNCT FACULTY:

Dean Lambert, Ph.D., U. of Texas-Austin, 1992 — physical geography, Latin America

Matt Melancon, ABD, Texas State U., 2006 — physical geography, conservation, biogeography

Raluca Owens, MA, U. of Texas at San Antonio — introduction to geography, physical geography, cultural geography, geography of Europe

Andrea Hansis-Diarte, MPH, U. of Texas Health Science Center at Houston — medical geography

UTAH

UNIVERSITY OF UTAH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1948

DEGREES OFFERED: B.A., B.S., M.S., Ph.D.

(Geography); BSGIS, MSGIS (Geographic Information Science)

GRANTED (Summer 2017 - Spring 2018): 38 Bachelors, 7 Masters, 2 Ph.D., 4 MSGIS

STUDENTS IN RESIDENCE: 119 Bachelors, 29 Masters, 23 Doctoral

CHAIR: Philip Dennison

DEPARTMENT ADMINISTRATIVE OFFICER: Lisa Clayton

GRADUATE SECRETARY: Pam Mitchell

FOR CATALOG AND FURTHER INFORMATION WRITE TO: University of Utah, Department of Geography, 260 Central Campus Drive, Room 4625, Salt Lake City, Utah, 84112. Telephone (801) 581-8218. Fax (801) 585-5081. Email: pam.mitchell@geog.utah.edu. Website: <http://www.geog.utah.edu>. Facebook: <https://www.facebook.com/uofugeography/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography emphasizes scientific geography within three main focus areas, as well as their synergistic overlaps: 1) *Urban/Economic Systems*, including urbanization, transportation, economic geography, globalization, public health, natural and technological hazards, and demography; 2) *Earth Systems Science*, including biogeography and ecosystems, glaciology, hydrology, paleoecology, geomorphology, and climate science; and 3) *Geographic Information Science*, including geographic information systems (GIS), remote sensing, cartography and geovisualization, spatial analysis, and geocomputation. These focus areas provide knowledge and technical skills required to support high-end careers in the private, public, and academic sectors. Any of the focus areas or their interfaces can serve as a focus for the Ph.D., M.S., B.A., or B.S. degrees in geography.

In addition to traditional academic Master's and Doctoral degrees in Geography, we also have a Bachelor's of Science in Geographic Information Science (BSGIS) and a Master's of Science in Geographic Information Science (MSGIS). The MSGIS focuses on coursework and is targeted towards professionals seeking GIS-centered training. Under the Western Regional Graduate Program, residents of 13 western US states are eligible for in-state tuition while completing the MSGIS. The Department of Geography also provides multiple certificate programs. The Geographic Information Science Certificate offers emphases in *Applied GIS* and *Remote Sensing*. The Geospatial Intelligence (USGIF) Certificate is one of only fourteen programs nationwide accredited by the US Geospatial Intelligence Foundation. We also offer certificates in Climate Change, Hazards and Emergency Management, and participate in an Integrated Certificate in Sustainability.

The Department has well-equipped facilities for research in GIScience, digital cartography, remote sensing and environmental analysis. The Department houses and operates the Digitally Integrated Geographic Information Technologies Laboratory (DIGIT), a major GIScience research and production facility serving interests on and off campus. DIGIT is equipped with state-of-the-art hardware platforms and software systems for analytical computer cartography, GPS field data collection, web-based mapping, remote sensing and GIScience, including a full range of ESRI products (including full suite of ArcGIS Platform products), Trimble, ENVI, GlobalMapper, SQL Server and other image processing, spatial analysis, spatial database and graphics software. We are also home to the Utah Remote Sensing Applications (URSA) Lab. URSA engages in cutting-edge, applied remote sensing research using hyperspectral, lidar, and multispectral time series remote sensing data and has a wide array of remote sensing field equipment and software. The Center for Natural and Technological Hazards (CNTH) which integrates research and teaching in urban economic systems, earth system science and GIScience as applied to hazards analysis, policy and mitigation. The Utah Geo-Health Lab (UGHL) focuses on research and teaching on medical/health geography, public health, and environmental health. The Geospatial Intelligence Research Lab (GIRL) works in all aspects of geospatial intelligence and human security which includes theoretical constructs, quantitative and qualitative approaches, regional analyses, and geographic information technologies, remote sensing, and data mining. The Urban and Sustainability Research Lab has a broad range of coverage, including urbanization, development, inequality, health, land use, and sustainability with extensive use of GIS spatial analysis. The RED Lab (Records of Environment and Disturbance) and Power Paleocology Lab are two paleocology labs housing state-of-the-art facilities for studying environmental change from sedimentary records. The Nicoll Lab for Quaternary Sedimentology and Geomorphology integrates applied geological techniques, including field-intensive strategic, archaeological and geophysical research using sedimentological techniques, ground penetrating radar and terrestrial LiDAR acquisition and interpretation. The Snow and Ice Lab focuses on studying the climate change aspects of mountain glaciers, ice sheets, and seasonal snow using remote sensing data acquired from satellites, airborne and ground-based systems. The Paleo-Data Lab works with regional and continental scale databases of pollen and peatland sequences to reconstruct information about past climates and ecosystems over the Northern hemisphere to estimate future global change. We also have strong ties to University of Utah interdisciplinary field, educational, and computing facilities, including Range Creek Canyon, Rio Mesa Center, Natural History Museum of Utah Garrett Herbarium, Global Change and Sustainability Center, and Center for High Performance Computing.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: All prospective University of Utah undergraduate students must apply through the Admissions Office. Applicants must submit a completed *Application for Undergraduate Admission*, required test scores (ACT/SAT); processing fee; and any required credentials by the appropriate deadline to avoid being assessed a late fee. Following are deadlines for filing applications: Fall Semester – April 1; Spring Semester – Nov. 1; Summer Semester – March 15. The following types of financial aid are available through the Financial Aid and Scholarship Office: scholarships, grants, loans and work-study. Financial aid and scholarship deadlines are prior to the start of the academic year. Dates can be found on the University web page at <http://financialaid.utah.edu/news/>. Offers made to students may be a combination of various forms of aid. Scholarships and grants are restricted to undergraduate students; loans and work-study are open to both graduate and undergraduate students.

GRADUATE: Candidates must apply online via an ApplyYourself link on our website and must be accepted by both the Department and the University's Graduate School. A minimum of a 3.00 G.P.A. is

required for acceptance. Applicants must submit a completed application for admission, processing fee, and any required credentials by the appropriate deadline. Several teaching assistantships are available; which include stipends of up to \$20,000 per academic year and carry a full tuition waiver. Research assistantships and part-time project work are also available through funded research grants. Complete applications for graduate school as well as teaching assistantships and research assistantships for the Master's program are due in the Geography Department no later than January 10. Ph.D. applications are accepted at any time for fall and spring semesters, but for Ph.D. applicants wishing to apply for teaching and research assistantships, applications are due January 10. Information and details are available at www.geog.utah.edu.

FACULTY:

- Simon C. Brewer, Ph.D., *Universite' d'Aix-Marseille I*, 2002, *Associate Professor* — past and present climate change, paleoecology, environmental modeling, data mining and analysis
- Andrea Brunelle, Ph.D., *University of Oregon*, 2002, *Professor* — paleoecology, disturbance (fire and beetle) history, climate change
- Timothy Collins, Ph.D., *Arizona State University*, 2005, *Professor and Director of Undergraduate Studies* — human-environmental interactions, vulnerability, hazards and disasters, environmental justice, health disparities, climate change, water, wildfire, and air pollution
- Thomas J. Cova, Ph.D., *University of California-Santa Barbara*, 1999, *Professor* — environmental hazards, human-environmental systems, emergency management, transportation, geographic information science
- Philip E. Dennison, Ph.D., *University of California-Santa Barbara*, 2003, *Professor and Chair* — remote sensing of vegetation, hyperspectral, multispectral, and lidar remote sensing, wildfire and climate, vegetation disturbance, fire safety
- Richard R. Forster, Ph.D., *Cornell*, 1997, *Professor* — glaciology, microwave remote sensing, application of radar interferometry to studies of glaciers and ground subsidence, remote sensing of snow packs, hydrology
- Alexander S. Hohl, Ph.D., *University of North Carolina-Charlotte*, 2018, *Assistant Professor* — cyberGIS, geovisualization, knowledge discovery
- Andrew M. Linke, Ph.D., *University of Colorado-Boulder*, 2013, *Assistant Professor* — political geography, political violence, Kenya, spatial statistics, GIS, climate change and conflict
- Phoebe B. McNeally, Ph.D., *University of Utah*, 2008, *Research Associate Professor and Director of Digitally Integrated Geographic Information Technologies (DIGIT) Laboratory* — GIS, spatial decision support systems, spatial databases, snow science
- Richard Medina, Ph.D., *University of Utah*, 2009, *Associate Professor* — conflict, hazards, complex systems, GIS
- Kathleen Nicoll, Ph.D., *Arizona*, 1998, *Associate Professor* — Quaternary stratigraphy, geomorphology, archaeology, environmental change, petroleum geology
- Mitchell J. Power, Ph.D., *University of Oregon*, 2006, *Associate Professor* — paleoecology, biogeography, historical plant geography, climate history, fire history from local to global scales
- Summer Rupper, Ph.D., *University of Washington-Seattle*, 2007, *Professor and Director of Graduate Studies* — glaciology, climate change, modeling glacier mass balance, ice core analysis, glacier geomorphology
- Vincent V. Salomonson, Ph.D., 1968, *Colorado State University*, *Research Professor* — spaceborne remote sensing of Earth-atmosphere processes and trends with emphasis on hydrological processes, regional and global snow cover dynamics
- Sara McKenzie Skiles, Ph.D., *University of California – Los Angeles*, 2014, *Assistant Professor* — mountain hydrology, snow optics and remote sensing, radiative forcing by light absorbing particles in snow and ice, cryosphere-climate interaction

Neng Wan, Ph.D., Texas State University-San Marcos, 2011, Associate Professor — medical/health geography, aging, health disparity, healthcare accessibility, environmental exposure, GIScience, spatial modeling
Yehua Dennis Wei, Ph.D., UCLA, 1998, Professor — economic/urban geography, urban and regional development, spatial inequality, spatial analysis, China

AUXILIARY FACULTY:

Larry L. Coats, M.S., Assistant Professor Lecturer — quaternary sciences
Elizabeth Dudley-Murphy, Ph.D., Assistant Professor Lecturer — world regional/cultural geography, geography of Latin America, human geography
Timothy Edgar, M.S., Utah, Assistant Professor Lecturer — energy/natural resources, sustainability, spatial statistics, remote sensing, GIS, geocomputation
Jack Hamilton, Ph.D., Columbus University, 1991, Adjunct Associate Professor — energy, environment, sustainability
Zachary Lundeen, Ph.D., Utah, Research Assistant Professor and Director of Rio Mesa Center — paleoclimatology, paleoecology, water resources
Ola Opera, Ph.D., Utah, 2013, Adjunct Assistant Professor — energy, environment
Pamela Perlich, Ph.D., Adjunct Professor — demo-economic analysis and regional science
Kenneth L. Petersen, Ph.D., Washington State University, 1981, Adjunct Assistant Professor — palynology, environmental archaeology
Jennifer Watt, Ph.D., Utah, 2013, Adjunct Assistant Professor — global climate change, environmental and sustainability studies, paleoecology and disturbance
Ingrid Weinbauer, M.A., Assistant Professor Lecturer — world regional geography, human geography, resource conservation, urban environmental geography, global environmental change, cartography

EMERITUS FACULTY:

Robert T. Argenbright, Ph.D., UC-Berkeley, 1990, Associate Professor Lecturer
Genevieve Atwood, Ph.D., Utah, 2006, Adjunct Associate Professor
Donald R. Currey, Ph.D., Kansas, 1969, Professor - Deceased
Albert L. Fisher, Ph.D., Johns Hopkins, 1954, Professor
George F. Hepner, Ph.D., Arizona State, 1979, Professor
James W. King, Ph.D., Northwestern, 1964 Associate Professor
Thomas M. Kontuly, Ph.D., Pennsylvania, 1978, Professor
Chung-Myun Lee, Ph.D., Michigan, 1961, Professor
Roger M. McCoy, Ph.D., Kansas, 1967, Professor
Merrill K. Ridd, Ph.D., Northwestern, 1963, Professor
Leroy H. Wullstein, Ph.D., Oregon State, 1965, Professor

UTAH STATE UNIVERSITY

DEPARTMENT OF ENVIRONMENT AND SOCIETY

DEGREES OFFERED: Geography, Environmental Studies, Recreation Resource Management

DEGREES GRANTED (9/1/18 – 8/31/19): 38

CHAIR: Dr. Chris Last

ADMINISTRATIVE ASST: Emilee Ballard

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Emilee Ballard, emilee.ballard@usu.edu

PROGRAMS AND RESEARCH FACILITIES: Human-Environment Geography, Geographic Information Science.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Freshmen: New freshmen admitted to USU in good standing qualify for admission to this major.

Transfer Students: Transfer students from other institutions or from other USU majors need a 2.5 total GPA for admission to this major.

FACULTY:

Emily Burchfield, Ph.D., Vanderbilt University, Assistant Professor

VERMONT

MIDDLEBURY COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1800

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 26 Bachelors

MAJORS: 71

CHAIR: Guntram Herb

DEPARTMENT ADMINISTRATIVE ASST: Jessica Hellyer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Guntram Herb, Department of Geography, 276 Bicentennial Way, Middlebury College, Middlebury, Vermont 05753. Telephone (802) 443-5714. E-mail: herb@middlebury.edu, Internet: www.middlebury.edu.

PROGRAMS AND RESEARCH FACILITIES: Middlebury is a four-year liberal arts college that grants a Bachelor of Arts in geography. With seven full-time faculty, the geography department offers a curriculum that aims toward a broad yet integrated perspective on the discipline. Beyond the classroom, students have opportunities to do a variety of internships and independent projects and to work closely with faculty on their research. The department has well equipped facilities, including modern GIS and cartography laboratories.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Middlebury is on a 4-1-4 calendar, which means that students complete 4 courses each during regular fall and spring semesters and one course during a special, one-month winter term. The winter term especially offers many opportunities for travel, internships, and independent study. Admission to Middlebury is on a need-blind, competitive basis, and financial aid is available. Additional information on admissions and financial aid can be obtained by writing the Admissions Office, Middlebury College, Middlebury, VT 05753.

FACULTY:

Guntram H. Herb, Ph.D., Wisconsin-Madison, 1993, Professor — national identity and territoriality, native borderlands, maps and geopolitics, history of geography, Europe
Joseph Holler, Ph.D., SUNY-Buffalo, 2012, Assistant Professor — geographic information science, social vulnerability and adaptation, development geographies, political ecology
Jeffrey T. Howarth, Ph.D., California-Santa Barbara, 2007, Associate Professor — spatial thinking in problem-based learning, instructional design for GIS and cartography, GIS in planning and design
Jessica L'Roe, Ph.D., Wisconsin-Madison, 2017, Assistant Professor — people-environment geography, forest conservation and economic development, land use change, rural livelihood dynamics, East Africa, Latin America

Tamar Mayer, Ph.D., Wisconsin-Madison, 1985, Professor — political and cultural geography, nationalism, political landscapes, gender, development, Middle East, Central Asia, Xinjiang

Peter B. Nelson, Ph.D., Washington, 1999, Professor — economic geography, population migration, rural restructuring, urban-rural linkages

UNIVERSITY OF VERMONT

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

DEGREES OFFERED: B.A.

GRANTED 9/1/17-8/31/18: 21 Bachelors

STUDENTS IN RESIDENCE: 85 Geography Majors; 41

Geography Minors; 91 Geo-spatial Technologies Minors

CHAIR: Beverley Wemple

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, University of Vermont, 200 Old Mill, 94 University Place, Burlington, Vermont 05405-0114. Telephone (802) 656-2063. E-mail: geography@uvm.edu. World Wide Web: <http://www.uvm.edu/cas/geography>.

PROGRAMS AND RESEARCH FACILITIES: The department offers a rich program that covers a broad range of subfields within the discipline. Department faculty members have had substantial international experience, and are also involved in studies on Vermont. The University, with 10,000 full-time students, is likewise of human scale, promoting close contact between students and faculty. The campus is located in Burlington, a highly attractive city of 42,260 in a metropolitan area of 214,796. The Green Mountains form the eastern backdrop, and Lake Champlain and Adirondack Mountains the western view. Montreal is only two hours away by car. Within a 50-mile radius, there is an unequaled range of settings for interesting fieldwork in human and physical geography. The B.A. degree requires thirty-three credits in geography plus meeting College of Arts & Sciences distribution requirements and general education requirements such as 'sustainability' and 'writing and information literacy'. The Geo-Spatial Technologies minor is a cross-College collaboration among Geography, Natural Resources, Engineering and Computer Science. Among the facilities are a library with more than one million volumes; a map library; and well-equipped cartographic, GIS and remote sensing laboratories, the Vermont State Climate Office, two physical geography laboratories and a human geography laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: UNDERGRADUATE:

The University is on the Semester system. The University of Vermont Catalog offers full information on admission requirements and financial aid opportunities. Consideration for admission relates to the secondary school record, recommendations, College Board Scholastic Aptitude Test results, writing ability, and other supportive information. Application forms may be obtained from the Admissions Office, University of Vermont, 194 South Prospect Street, Burlington, Vermont 05405-3596 or www.uvm.edu. The University will consider provision of financial aid based on a calculated determination of financial need.

FACULTY:

Pablo Bose, Ph.D., York University, 2006, Associate Professor — migration, urban geography, refugees, development and environment, community-based research, India and South Asia

Meghan Cope, Ph.D., University of Colorado, 1995, Professor — urban social geography, gender, race, children's/youth geographies, historical geography, qualitative research, critical and qualitative GIS

Lesley-Ann Dupigny-Giroux, Ph.D., McGill University, 1996, Professor, Vermont State Climatologist — physical geography, climatology, remote sensing, GIS, hazards, drought, land-surface interactions, climate education, Northeastern North America, Vermont

Cheryl Morse, Ph.D., University of British Columbia, 2006, Associate Professor — social geography, rural studies, human-environment interactions, Vermont

T. Harlan Morehouse, Ph.D., University of Minnesota, 2018, Lecturer — contemporary environmental thought and practice, nature-society, human-nonhuman relationships

Ingrid Nelson, Ph.D., University of Oregon, 2012, Assistant Professor — political ecology, critical development studies, gender, sexuality and environment, critical GIS, southern Africa

Shelly A. Rayback, Ph.D., University of British Columbia, 2003, Associate Professor — physical geography, biogeography, dendrochronology, paleoclimatology, climate change, isotopes, Arctic, Northeastern North America, Himalayas

Richard Watts, Ph.D., University of Vermont, 2006, Lecturer — communications and public policy, energy, transportation and public health, journalism and media

Beverley Wemple, Ph.D., Oregon State, 1998, Professor and Chair — physical geography, geomorphology, water resources, GIS, quantitative methods

ADJUNCT, EMERITI, AND RESEARCH FACULTY:

Rebecca Manners Diehl, Ph.D., Utah State University, 2013, Research Assistant Professor — fluvial geomorphology, eco-geomorphic modeling, river management

Cathleen Geiger, Ph.D., Dartmouth College, 1996, Adjunct Professor — physical geography, snow and ice, planetary thermal stability, quantitative methods, scale analysis

Richard S. Kujawa, Ph.D., Iowa, 1990, Adjunct Professor — political, urban, economic, environmental policy, planning

Aulis Lind, Ph.D., Wisconsin, 1968, Professor Emeritus

Susannah McCandless, Ph.D. Clark University, 2009, Adjunct — race, ethnicity and gender, immigration, community forestry, resource access, commons, social effects of conservation, land trusts, Vermont

Nicholas 'Pete' Shear, MA University of Vermont, 1997, Adjunct Lecturer — political geography, land use conflicts, Meso-American and Andean history, Ecuador

Stuart White, Ph.D., University of Wisconsin-Madison, 1981, Adjunct Assistant Professor — pre-Columbian Andes, mountain farming systems, conservation, paramo landscapes

VIRGINIA

GEORGE MASON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND GEOINFORMATION SCIENCE

FOUNDED: 2008; formerly the Department of Geography (founded 1991), and the Department of Earth Systems and Geoinformation Sciences (founded 2002)

UNDERGRADUATE PROGRAMS FOUNDED: 1972 and 2007

GRADUATE PROGRAMS FOUNDED: 1978, 2002, 2004, 2010, and 2017

DEGREES OFFERED: B.A. and B.S. in Geography (available as an online program); Minors in Geography, Geographic Information Systems, and Urban Informatics; M.S. in Geographic and Cartographic Sciences; M.S. in Geoinformatics and Geospatial Intelligence; M.S. in

Earth Systems Science; Ph.D. in Earth Systems and GeoInformation Sciences; Graduate Certificates in Geographic Information Sciences, Remote Sensing and Earth Image Processing, Geospatial Intelligence (available as a partially online program), Data Journalism, Environmental GIS and Biodiversity Conservation

GRANTED 9/1/18-5/31/19: 4 Ph.D. in Earth Systems and GeoInformation Sciences; 14 M.S. in Geographic and Cartographic Sciences; 4 M.S. in Earth Systems Sciences; 7 M.S. in Geoinformatics and Geospatial Intelligence; 12 B.A./B.S. in Geography

MAJORS (2018-2019): 89 Geography; 30 Geographic and Cartographic Sciences; 29 Geoinformatics and Geospatial Intelligence; 9 Earth Systems Science; 94 Earth Systems and GeoInformation Sciences; 38 Graduate Certificates

CHAIR: Dieter Pfose

DEPARTMENT MANAGER: Samantha Cooke

FOR FURTHER INFORMATION SEE: <http://ggs.gmu.edu>, ggs@gmu.edu

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and GeoInformation Science (GGS) offers B.A. and B.S. degree programs in Geography, the former requiring a minor or second major in another field. The B.S. in Geography provides an extensive range of courses in remote sensing, geographic information systems, and cartography. Students may pursue two emphases in this interdisciplinary degree: Global Change and Environmental Change, including a robust combination of supporting math, science, and geospatial information technology coursework.

At the graduate level, the GGS Department offers the M.S. in Geographic and Cartographic Sciences, the M.S. in Geoinformatics and Geospatial Intelligence and administers the M.S. in Earth Systems Science (jointly offered). GGS offers a Ph.D. in Earth Systems & GeoInformation Sciences with six core foci: quantitative skills, geoinformatics, physical geography, human geography, GIS, and remote sensing.

Students in our degree programs are invited to join GGS faculty in their research in Geographic Information Science, Geospatial Data Science, Urban Science, Remote Sensing, Digital Image and Video Analysis, Human and Physical Geography, Geoinformatics, Environmental Sciences, and other related areas. The Department, including several affiliated centers (Center of Excellence in Geographic Information Science, Center for Earth Observing and Space Research, I/UCRC for Spatiotemporal Thinking, and the Center for Geospatial Intelligence), has state-of-the-art research facilities to support research and instruction. The Department also offers four graduate certificates in Geographic Information Science, Geospatial Intelligence, Remote Sensing & Earth Image Processing, and Data Journalism, to provide graduate-level training to the working community in the Washington, DC metropolitan area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Most GMU graduate courses are offered in the evenings. Many graduate students are employed full or part-time in government and industry positions in geography, remote sensing, GIS, intelligence, earth science, geoinformatics, and other related fields.

Applicants for the M.S. in Geographic and Cartographic Sciences (GECA) program should have a bachelor's degree in Geography, Cartography or equivalent, with a grade point average of at least 3.0 (on a 4.0 scale) and should present GRE scores. Other applicants may be considered for provisional or non-degree status. Applicants should

also present a course in statistics or spatial analysis prior to full admission.

Applicants for the M.S. in Geoinformatics and Geospatial Intelligence (GEOI) program should have a bachelor's degree in a discipline related to the program's theme, with a grade point average of at least 3.0 (on a 4.0 scale) and should present GRE scores and courses in differential and integral calculus. This program addresses the emerging demand for scientists trained in the collection, organization, analysis, and dissemination of information about physical features, man-made structures, moving objects, people, and events that are geo-referenced or geo-located. It focuses primarily on the computational approaches that support the synthesis and analysis of diverse types of data, in order to identify and monitor complex events and phenomena that manifest themselves over space and time. Other applicants may be considered for provisional or non-degree status.

Students with backgrounds in Geography, Earth Systems, one of the physical science disciplines, Engineering, or equivalent can apply for the M.S. in Earth Systems Science (ESS) program and for the Ph.D. in Earth Systems and GeoInformation Science (Ph.D. ESGS). The M.S. ESS degree requires 30 hours of course work, including a thesis or a project and exam.

As previously mentioned, the Ph.D. ESGS degree has concentrations in Geography, GIS, Geosciences, and Remote Sensing and Earth Observation. Forty-two hours beyond the Master degree or 72 hours beyond the baccalaureate degree, plus comprehensive exams and a dissertation are required. Depending on the applicant's credentials and background, a number of Graduate Teaching Assistantships (stipends and tuition supplements) may be awarded on a competitive basis. One Presidential Fellowship per year may be offered to a PhD applicant meeting certain GRE scores and GPA. Depending on available research funding, the department offers a number of Graduate Research Assistantships based on qualification and interest.

The Graduate Certificates in (i) Geographic Information Sciences, in (ii) Remote Sensing & Earth Image Processing, and in (iii) Data Journalism each require 15 hours; while the Certificates in (iv) Geospatial Intelligence and in (v) Environmental GIS and Biodiversity Conservation each require 18 hours of course work. As noted above, the certificate in Geospatial Intelligence is available as a fully online program. See <https://masononline.gmu.edu/programs/geospatial-intelligence-graduate-certificate/>. Detailed information about the GGS Department and requirements for all its degrees may be viewed at: <http://catalog.gmu.edu>.

Information about scholarships and loans is available through the Office of Student Financial Aid. See: <http://financialaid.gmu.edu>.

FULL-TIME FACULTY:

Peggy Agouris, Ph.D., The Ohio State University, 1992, Professor and Dean, College of Science, Director of Center for Earth Observing and Space Research — digital image processing/analysis, optical remote sensing, photogrammetry

Nathan Burtch, Ph.D., University of Maryland, College Park, 2017, Assistant Professor — religious geography, geographic information systems

Arie Croitoru, Ph.D. Technion – Israel Institute of Technology, 2002, Assistant Professor — computational geoinformatics, digital image analysis, social media analysis, geospatial /spatiotemporal data modeling, photogrammetry

Liping Di, Ph.D., University of Nebraska-Lincoln, 1991, Professor and Director of Center for Spatial Information Science and Systems — GIS, remote sensing, interoperability

Sven Fuhrmann, Ph.D., Westfaelische Wilhelms Universitaet Muenster, Germany, 2002, Associate Professor — geovisualization, cartography

Barry N. Haack, Ph.D., University of Michigan, 1977, Professor — physical, environmental, photogrammetry, development

Paul R. Houser, Ph.D., University of Arizona, 1996, Professor and co-Director of the Center for Intelligent Spatial Computing for Water/Energy Science — global hydrology, water cycle dynamics, land surface

Maktion Komwa, Ph.D., George Mason University, 2011, Assistant Professor — conservation GIS and planning, geographic perspectives on sustainability

Timothy Leslie, Ph.D., Arizona State University, 2007, Associate Professor — urban-economic development, spatial statistics, health geography

Dieter Pfoser, Ph.D., Alborg University, 2000, Professor and Chair — spatial and spatiotemporal databases, graph algorithms - shortest-path computation, map matching, machine learning, geospatial crowdsourcing

John J. Qu, Ph.D., Colorado State University, 1997, Professor — remote sensing, fire sciences, atmospheric sciences, Earth data computing and GIS applications

Matt Rice, Ph.D., University of California-Santa Barbara, 2005, Associate Professor — geographic information science, geovisualization, cartography, crowdsourcing

Christine Rosenfeld, Ph.D., George Mason University, 2018, Assistant Professor — cultural geography

Anthony Stefanidis, Ph.D., The Ohio State University, 1993, Professor and Director Criminal Investigations and Network Analysis Center, a Department of Homeland Security Center of Excellence — image and video analysis, social media analysis, volunteered geographic information, geospatial intelligence

Donglian Sun, Ph.D., University of Maryland, College Park, 2003, Associate Professor — remote sensing, algorithm development, numerical modeling simulation

Konrad Wessels, Ph.D., University of Maryland, College Park, 2005, Assistant Professor — remote sensing, terrestrial ecosystem process modeling, biomass estimation

David W. Wong, Ph.D., State University of New York, Buffalo, 1990, Professor — spatial analysis and statistics, GIS, population, public health

Chaowei (Phil) Yang, Ph.D., Peking University, China, 2000, Professor and co-Director of Center for Intelligent Spatial Computing for Water/Energy Science and Director of I/UCRC for Spatiotemporal Thinking, Computing and Applications — distributed geospatial information processing: architecture and algorithms, interoperability, high performance computing, cloud computing

Ruixin Yang, Ph.D., University of Southern California, 1990, Associate Professor — geosciences, data analysis, data mining, data information systems

Andreas Zuefle, Ph.D., Ludwig Maximilians Universitaet Muenchen, Germany, 2013, Assistant Professor — data science, machine learning, uncertainty management, crowdsourcing

SYSTEMS SUPPORT:

Na Liu, M.S., University of South Carolina, 1999, Geographic Information Systems Laboratory Manager

Jacek Radzikowski, M.S., Warsaw University of Technology, 1996, and George Mason University, 2007, Geospatial Intelligence and Geoinformatics Laboratory IT Manager

JAMES MADISON UNIVERSITY

GEOGRAPHIC SCIENCE PROGRAM SCHOOL OF INTEGRATED SCIENCE

DATE FOUNDED: 1970

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/18-8/31/19: 54 Bachelors

STUDENTS IN RESIDENCE: 221 Majors, 66 Minors

PROGRAM COORDINATOR: Dr. Mace Bentley

DEPARTMENT ADMINISTRATIVE ASST: Fasha Strange

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Fasha Strange, School of Integrated Sciences, Geographic Science Program, James Madison University, MSC 4302, Harrisonburg, Virginia 22807. Telephone (540) 568-2799. Fax (540) 568-8741. E-mail: strangfx@jmu.edu. Internet: www.gis.jmu.edu

PROGRAMS AND RESEARCH FACILITIES: Geographic Science (GS) at JMU is a vibrant community of professors and students who join together to learn, critically examine geographical issues, and make a difference in the world. Our program offers a unique, holistic approach: the geographical perspective. Geography examines interactions of environment, nature and society; focuses on how place matters to the environment, economy and culture; and utilizes modern technologies to critically analyze these relationships.

Geography is a bridge between the social sciences (human geography) and the natural sciences (physical geography). More than this, geography exposes students to the latest geospatial technologies – geographic information systems (GIS), earth observation, and other cutting-edge tools – to analyze global change. The primary challenges facing our world and humanity in the coming century can be critically examined and addressed by the geographical approach.

Students in the Geographic Science program select one of the following concentrations: Custom, that is specifically tailored to student interests; Applied Geographic Information Science; or Environmental Conservation, Sustainability and Development. Facilities include four computer laboratories used for instruction, a state-of-the-art video wall for geovisualization, an AR sandbox, and a rack-mounted server for research and applied work housed in the Geospatial Commons. The server and computer labs include the following geography-related software packages: ArcGIS (through an ESRI site license), TerrSet Geospatial Monitoring and Modeling Software (University site license), QGIS, Matlab, ERDAS Imagine, PCI Geomatica, Trimble Pathfinder Office, eCognition, R, SPSS, SQLite and others. Additionally, a wide variety of field and analytical equipment is available to students and faculty. This includes a large topographic map and aerial photograph collection, water and soil testing equipment, an aerial mapping UAV, meteorological equipment, a GPS base station, and Trimble GPS units.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. Admission is handled by the Admissions Office. Applicants must have a high school diploma, submit appropriate forms, references, and SAT scores. All applicants are encouraged to visit the Geographic Science Program website and visit the JMU Admissions website: www.jmu.edu/admissions/. Applicants can also write to the Admissions Office, James Madison University, MSC 0101, Harrisonburg, Virginia 22807 for application materials.

FACULTY:

Mace Bentley, Ph.D., Georgia, 1999, Professor — climatology, human-environment interactions, critical physical geography

Thomas Benzing, Ph.D., Michigan, 1993, Professor — hydrology, water resources

Dudley Bonsal, Ph.D., Minnesota, 2015, Assistant Professor — GIS, cartography, land use/land cover analysis, agent-based modeling, landscape ecology, soundscapes

Zachary Bortolot, Ph.D., Virginia Tech, 2004, Associate Professor — remote sensing, GIS, natural resources

Jennifer Coffman, Ph.D., North Carolina, 2000, Associate Professor — environment, development, political ecology, sociocultural change, East Africa

Amy Goodall, Ph.D., Nebraska-Lincoln, 1999, Associate Professor — biogeography, biodiversity, human-environment interactions

Mary Kimsey, Ph.D., Georgia, 1991, Professor — climatology, humanitarian affairs and the Caribbean
 Robert Kolvoord, Ph.D., Cornell, 1990, Professor and Dean of the College of Integrated Science and Engineering — environmental GIS
 Helmut Kraenzle, Ph.D., Ludwig-Maximilians-University of Munich, 1991, Professor — GIS, spatial databases
 David McGraw, JD, Georgetown, 1997, Professor — political geography, environmental law and ethics
 Galen Murton, Ph.D., Colorado, 2017, Assistant Professor — development, cultural geography, Tibet and Himalaya Region
 Carole Nash, Ph.D., Catholic University 2009, Associate Professor — cultural ecology, landscape, field studies
 Wayne Teel, Ph.D., Cornell, 1994, Professor — geography of Africa, sustainability, agroforestry
 Henry Way, Ph.D., Kansas, 2008, Associate Professor — cultural, urban and political geography
 Kayla Yurco, Ph.D., Penn State, 2017, Assistant Professor — conservation and development, feminist geography, political ecology, sub-Saharan Africa

EMERITI FACULTY:

Mike Deaton, Ph.D., Virginia Tech, 1980 — spatial analysis, statistics, systems modeling
 Joseph Enedy, Ph.D., Kent State, 1972 — North America, regional geography
 Jack Gentile, Ph.D., Oregon State, 1983 — resource and environmental geography
 Glen C. Gustafson, Ph.D., Munich, 1973 — aerial photography and remote sensing

OLD DOMINION UNIVERSITY

DEPARTMENT OF POLITICAL SCIENCE & GEOGRAPHY

DATE FOUNDED: 1980

GEOGRAPHY DEGREES OFFERED: B.A., B.S.; M.A. in Humanities (concentration in Human Geography)

DEGREES GRANTED (6/1/18-5/31/19): 16 Bachelors in Geography; 1 M.A. in Humanities

STUDENTS IN RESIDENCE: 50 Bachelors in Geography

DEPARTMENT CHAIR: Jonathan Leib

DEPARTMENT ADMINISTRATIVE ASSISTANTS:

Jessie Hobbs and Vinecia Parraway

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

For general University information contact the Office of Admissions; for information about the Geography Program contact the Department Chair, Old Dominion University, Norfolk, Virginia 23529-0088. Telephone (757) 683-3841. Fax (757) 683-4763. E-mail: jleib@odu.edu Internet: <http://www.odu.edu/al/pols-geog/>

PROGRAMS AND RESEARCH FACILITIES: The geography program at Old Dominion University is staffed by a professionally active faculty committed to research, teaching, and close interaction with majors and minors. Both the B.A. and B.S. degrees are designed to provide students with a broad-based background in the discipline and a command of the tools of geographic research. In addition to a general major, students may specialize in Geographic Information Systems (GIS), Urban Geography, or Environment and Resources. Students may also pursue certificate programs in Geographic Information Science and in the Spatial Analysis of Coastal Environments at both the undergraduate and graduate levels.

The department offers extensive coursework in geospatial technology, including GIS, remote sensing, and spatial analysis, supported by a state-of-the-art research and instructional GIS laboratory. In addition,

the department offers a Human Geography concentration within the interdisciplinary M.A. degree program in Humanities, and participates in the interdisciplinary B.A., M.A., and Ph.D. degree programs in International Studies.

Located in the Hampton Roads region of southeastern Virginia, Old Dominion University is a metropolitan research university with a diverse student population of nearly 25,000. The University is a national leader in the study of the impacts of sea level rise, and the geography program actively participates in both a university-wide Resiliency Collaborative and the Commonwealth of Virginia Center for Recurrent Flooding Resilience. ODU is also the center for geospatial technologies in the Hampton Roads region and houses the Center for Geospatial & Visualization Computing. Research collaborations and internships routinely occur with NASA Langley Research Center, the Virginia Space Grant Consortium, federal and state agencies, municipal governments, and private sector companies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester plan. Requirements for admission to the University include 16 units of credit from high school and official results of the SAT. Applications for admission are handled by the Office of Admissions and are reviewed continually. Most of the University's financial aid is awarded on the basis of family financial need. Further information on financial aid is available from the Office of Financial Aid and Student Employment.

FACULTY:

Michael Allen, Ph.D., Kent State, 2014, Assistant Professor — climatology, climate change, bioclimatology, meteorology
 Thomas Allen, Ph.D., UNC-Chapel Hill, 1995, Professor — GIS, spatial analysis, coastal, environmental
 Federica Bono, Ph.D., KU Leuven, 2018, Lecturer — political ecology, food and agriculture, economic, urban, Latin America, GIS
 Thomas Chapman, Ph.D., Florida State, 2007, Associate Professor — cultural, economic, urban, political, social justice, GIS
 Nicole Hutton, Ph.D., South Florida, 2016, Assistant Professor — natural hazards, organizational resilience, environmental justice
 Timothy Kidd, M.S., Alabama, 2002, Senior Lecturer — political, cultural, ethnic minorities, Europe
 Jonathan Leib, Ph.D., Syracuse, 1992, Professor and Department Chair — political, American South, 'race' and ethnicity, cultural
 Hua Liu, Ph.D., Indiana State, 2007, Associate Professor — GIS, remote sensing, urban environmental changes
 Hannah Torres, Ph.D., South Florida, 2017, Assistant Professor — applied geography, sustainability, community resilience
 Jennifer Whytlaw, Ph.D., Rutgers, 2018, Assistant Professor — applied geography, GIS, hazards, spatial analysis and modeling

ASSOCIATED FACULTY:

Zand Bakhtiari, M.A., George Washington, 2015, Adjunct Instructor — GIS
 Christine Drake, Ph.D., Rutgers, 1977, Professor Emerita — Asia, Africa, cultural, world resources
 Georgeanne Hribar, Ed. D., Nova Southeastern, 2005, Adjunct Assistant Professor — Europe, Russia, cultural, GIS
 Heather Jersild, M.S., UC-Davis, 1989, Adjunct Instructor — environmental, cultural
 George McLeod, M.S., Old Dominion, 2009, Adjunct Instructor & Assistant Director for Geospatial & Visualization Systems — geospatial technologies
 Valerie Mervine, M.A.S., Arizona State, 2009, Adjunct Instructor — cultural
 Donald Zeigler, Ph.D., Michigan State, 1980, Professor Emeritus — urban, Middle East, Latin America

RADFORD UNIVERSITY

GEOSPATIAL SCIENCE DEPARTMENT

DATE FOUNDED: 1966

DEGREES OFFERED: B.A., B.S.

DEGREES GRANTED (9/1/18 – 8/31/19): 21 Bachelors

STUDENTS IN RESIDENCE: 62 Majors, 14 Minors

DEPARTMENT CHAIR: Charles G. Manyara

ADMINISTRATIVE ASST: Theresa Gawthrop

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Charles G. Manyara, Chair, Geospatial Science Department, Box 6938, Radford University, Radford, Virginia 24142. Telephone (540) 831-5558. Fax (540) 831-5254. Email: geospatial@radford.edu. Web: <https://www.radford.edu/content/csat/home/geospatial-science/academics.html>

PROGRAMS AND RESEARCH FACILITIES: The cornerstone of the department is our B.S. in Geospatial Science with Geoinformatics and Environmental concentrations. The common goal of each of these concentrations is to graduate broadly-trained students who are equally prepared to pursue an advanced degree or obtain suitable employment as professionals within or outside of the discipline.

We also offer a minor in Geospatial Science and two certificate programs, Sustainability and Environmental Studies, and Geospatial Intelligence (GEOINT). The Sustainability Certificate program allows us to service students who pursue degrees in other programs but are passionate about the environment. The GEOINT certificate combines the strengths of geospatial analysis with human intelligence in decision making. Students have the opportunity to take an array of courses ranging from an introduction to geospatial data and technologies, human and physical geography, cartography, several GIS courses, remote sensing, geomatics, geostatistics, geocomputation, land use planning, and environmental and natural resources management.

General Education Core (42 credits). Required Geospatial Core Courses (24 credits): Environmental Concentration (38-38 credits); Geoinformatics Concentration (34-36 credits).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: For information about the Geospatial Science Department contact: Chair, Geospatial Science Department, P.O. Box 6938, Radford University, Radford, Virginia 24142.

For information about Radford University contact: Dean of Admissions, Radford University, Radford, Virginia 24142. Email: admissions@radford.edu.

FACULTY:

Andrew S. Foy, Ph. D., Virginia Tech, 2011, Associate Professor GIS — geostatistical modeling, geocomputation, 3D modeling and analysis

Charles G. Manyara, Ph.D., Michigan State, 2000, Professor — remote sensing, applied GIS, geomatics

Christine M. Mitchell, Ph.D., Florida Atlantic University, 2014, Instructor — human geography, geovisualization, environmental studies

Grigory Ioffe, Ph.D., USSR Academy of Science, 1980, Professor — population geography, geography of agriculture, geopolitics, nation-building

Richard A. Roth, Ph.D., Virginia Tech, 1993, Professor — environmental planning, sustainable development, water resources

R. Stockton Maxwell, Ph.D., West Virginia University, 2010, Associate Professor — physical geography, regional geography, GIS, environmental studies, biogeography

UNIVERSITY OF MARY WASHINGTON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1959

DEGREES OFFERED: B.A., B.L.S., Certificate in GISc,

M.S. in Geospatial Analysis

GRANTED 9/1/17-8/31/18: 20 B.A. Geography, 29

Certificates in GISc, 9 M.S. Geospatial Analysis

MAJORS: 90

CHAIR: Jackie Gallagher

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Jacqueline Gallagher, Chair, Department of Geography, University of Mary Washington, Fredericksburg, Virginia 22401. Telephone (540) 654-1493. Fax (540) 654-1074. E-mail: jgallagh@umw.edu. Internet: <http://cas.umw.edu/geography/> and <http://cas.umw.edu/gis/masters/>.

PROGRAMS AND RESEARCH FACILITIES: The University of Mary Washington is public liberal arts institution with about 4000 undergraduate students. The Geography Department offers a professional master's of science in Geospatial Analysis (MSGA) and two undergraduate programs: a major in Geography and a Certificate in GISc. The Bachelor of Liberal Studies (BLS) is an adult degree-completion program with a major in Geography. The MSGA program is designed for professionals and four-year college graduates who have successfully completed at least two GIS-related courses. The program emphasizes spatial thinking, web-based GIS, image analysis, and statistical modeling. It can be completed in 12-months by full-time students.

The geography major has three areas of emphasis: 1) Community, Development, and Culture; 2) Globalization; and 3) Nature and Society. All geography majors receive rigorous training in research methods and geographic techniques appropriate for their area of emphasis and are encouraged to pursue independent research projects and/or internships. The GISc certificate includes required courses in GIS programming or web concepts and a capstone research project typically completed through an internship. The department's strengths are enhanced by its involvement with interdisciplinary programs in Climate Science, Environmental Science, Urban Studies, Social Justice, International Affairs, American Studies, Latin American Studies, and Middle Eastern Studies. This geography program prepares students for further study at the graduate level in geography, planning, and related disciplines, as well as for careers with a variety of governmental agencies and private organizations. Recent graduates work in GIS/cartography, urban and regional planning, intelligence, and environmental consulting.

The department's facilities include laboratories for training and student-faculty research in GIS, cartography, remote sensing, pollen analysis, and physical geography. The affiliated Center for Spatial Analysis and Research generates grants and contracts that provide undergraduate research and internship opportunities. UMW's location midway between Washington, DC, and Richmond, VA offers immediate access to numerous major research libraries as well as abundant opportunities for internships with private organizations, international institutions, and federal, state, and local agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: The University of Mary Washington employs a semester system. For undergraduates, the university takes a personal approach to admissions. Each application is reviewed and weighed along with a variety of other supporting information. Successful applicants are usually in the top one-fifth of their high school class and have combined S.A.T scores averaging over 1200. Acceptance of

the university's Honor System is a prerequisite for enrollment and competence in a foreign language is a requirement for graduation. Financial aid is available from a variety of sources for all students who can demonstrate need. The MSGA is a 30-credit, 12 month program culminating in a capstone project completed through an independent project. Students accepted into the program typically have at least a 3.0 undergraduate GPA and have either completed two college-level GIS-related courses or demonstrate professional experience equivalent to such courses.

FACULTY:

Dawn S. Bowen, Ph.D., Queen's University, 1998, Professor — historical, environmental, North America, Latin America, field methods
Caitlyn Finlayson, Ph.D., Florida State University, 2012, Associate Professor — cultural geography, geography of religion, geographic thought, nature-society, research methods
Jacqueline Gallagher, Ph.D., UCLA, 1996, Associate Professor and Chair — Quaternary geomorphology, biogeography, natural hazards, GPS and mobile GIS, field methods
Stephen P. Hanna, Ph.D., University of Kentucky, 1997, Professor — critical cartography and GIS, landscape and race, globalization and local development
Marco Millones Mayer, Ph.D., Clark University, 2011, Assistant Professor — GIScience, remote sensing, human-environment interactions, policy impact evaluation, risk assessment
Joseph W. Nicholas, Ph.D., University of Georgia, 1991, Associate Professor — geomorphology, Quaternary studies, climatology, alpine environments
Melina A. Patterson, Ph.D., Rutgers University, 2002, Associate Professor — urban geography and planning, community development, political geography of education, emergence of the modern world economy
Brian Rizzo, Ph.D., University of Virginia, 2008, Associate Professor and Director, GIS Programs — GIScience, environmental science, business applications of GIS
Farhang Rouhani, Ph.D., University of Arizona, 2001, Professor — political and cultural globalization, Middle East, social justice, international migration, qualitative methods
Ping Yin, Ph.D., University of Georgia, 2012, Associate Professor — GIScience, spatial epidemiology, web-based GIS

UNIVERSITY OF RICHMOND

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 2008

DEGREES OFFERED: B.A.

CHAIR: David Salisbury

DEPARTMENT ADMINISTRATIVE ASST: Nancy Propst

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. David Salisbury Department of Geography and the Environment, University of Richmond, #309 Carole Weinstein International Center, 211 Richmond Way, Richmond, Virginia 23173. Telephone (804) 289-8661. Fax (804) 484-1577. E-mail: dsalisbu@richmond.edu Internet: <http://geography.richmond.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and the Environment is the University of Richmond's newest department. Our objective is to cultivate informed and engaged global citizens through an emphasis on integrative problem solving, spatial analysis, and communication skills. Our department bridges the natural sciences, social sciences, and the humanities to provide a better understanding of the earth's cultural and biological diversity.

Majors and minors complete course work in three areas: (1) human geography; (2) geospatial techniques; and (3) physical geography and environmental systems. The department has a state-of-the-art computer facility dedicated exclusively to spatial analysis (<http://geography.richmond.edu/spatial-analysis-lab/index.html>). Our curriculum highlights active, experiential learning and community engagement. Students are encouraged to study abroad. Internships and independent studies are encouraged throughout the year. Paid summer research fellowships and paid summer internships are available.

The department hosts a chapter of Gamma Theta Upsilon, the International Geographical Honor Society, and a student-run University of Richmond Geographic Society.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

University of Richmond is on a semester plan. Admission requirements are available from the Office of Admissions (<http://admissions.richmond.edu/>) and financial aid information may be obtained from the Financial Aid Office (<http://financialaid.richmond.edu/>).

FACULTY:

Mary Finley-Brook, Ph.D., University of Texas, Austin, 2006, Associate Professor — political geography, economic geography, university sustainability, climate policy, Indigenous Peoples, territoriality and land rights, environmental justice, Latin America and the Caribbean
Todd R. Lookingbill, Ph.D., Duke University, 2003, Associate Professor — landscape ecology, physical geography, natural resources management, parks and protected areas, James River watershed
David S. Salisbury, Ph. D., University of Texas, Austin, 2007, Associate Professor and Chair — conservation and development, political ecology, Amazonia, borderlands, sustainability, cartography
Stephanie Spera, Ph.D., Brown University, 2016, Assistant Professor — remote sensing, climate change, land change science, conservation, sustainability, Latin America

VIRGINIA TECH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1975

GRADUATE PROGRAM FOUNDED: M.S. 1979, Ph.D. 2006

DEGREES OFFERED: B.A. Geography, B.S. Meteorology, M.S. Geography, Ph.D. Geospatial and Environmental Analysis

DEGREES GRANTED (9/1/18 – 8/31/19): 47 B.A.

Geography, 20 B.S. Meteorology, 9 M.S. Geography
MAJORS (as of Sept. 2018): 95 B.A. Geography, 125 B.S. Meteorology, 18 M.S. Geography, 12 Ph.D. Geospatial and Environmental Analysis

CHAIR: Tom Crawford

PROGRAM ADMINISTRATIVE ASSISTANT: Karen Bland

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Visit the department's website at www.geography.vt.edu. If you have further questions, please contact the department at geography@vt.edu or department chair Dr. Tom Crawford (tomec3@vt.edu). Main contact information: Department of Geography, 238 Wallace Hall, 295 West Campus Drive, Blacksburg VA 24061-0115. Telephone: (540) 231-7557.

Undergraduate Inquiries: Ms. Maureen Deisinger (mdeising@vt.edu); M.S. Inquiries: Dr. Korine Kolivras (korine@vt.edu); Ph.D. Inquiries: Dr. James Campbell (jayhawk@vt.edu).

PROGRAMS AND RESEARCH FACILITIES:

Programs: The Department offers the B.A. in Geography, the B.S. in Meteorology, and the M.S. in Geography. We also participate in the College of Natural Resources and Environment Ph.D. program in Geospatial and Environmental Analysis. Founded in 1975, the Geography Department at Virginia Tech is part of the College of Natural Resources and Environment (CNRE), which for the past three years has been the #1 ranked college/school of this type in the U.S. according to USA Today College. The department's mission is to foster an appreciation and understanding of the diversity of Earth's physical and cultural environments, the importance and value of a spatial perspective, and an understanding of the complex interrelationships between peoples and their environments at a variety of scales. Our goal is to provide students with the intellectual and technical skills to synthesize information, become critical thinkers, develop into better and more informed citizens, and find success in employment or further academic training. Our department emphasizes teaching and scholarship involving four themes: 1) human-environment relationships – how culture, gender, economy, and politics affect people's use of and interaction with the environment; 2) international development – the relations between developed and developing countries and the impacts of globalization at local, national, and regional levels; 3) environmental systems – the interrelations among patterns of climate, landforms, vegetation, soils and water, including the factors and processes that produce those patterns; and 4) geospatial analysis – the use of Geographic Information Systems (GIS), Global Positioning Systems (GPS), computer mapping, and remote sensing in geographic analyses. Research and internship opportunities abound in the surrounding southwestern Virginia region that is home to the Washington and Jefferson National Forest, national park service lands of the Blue Ridge Parkway, and the Blacksburg National Weather Service (NWS) office. Undergraduate students also commonly find placement in internships within the metropolitan Washington, DC region.

Facilities: The program has a wide range of facilities necessary for advanced training in geospatial and environmental analysis, including state-of-the-art labs for GIS and for biogeography (for the study of recent and long-term environmental history and vegetation change). Two biogeography Laboratories offer advanced facilities for the study of recent and long-term environmental history and vegetation change through analysis of lake sediment and/or tree rings. Equipment resources include refrigerated storage, computers, several Leica compound microscopes with digital imaging capability used in paleoecological research, a Colinvaux-Vohnout Sediment Coring system, Fume Hood, isotemp Furnace, and a Velmex tree-ring measurement system used in dendrochronological analysis. Our Physical Geography Lab includes equipment for soil sampling, sample desiccation and microscopic viewing. The Department's GIS Laboratory offers a full range of XP workstation for classes and for research, including specialized systems for GIS, cartography, and remote sensing. Software packages include the complete suite of desktop and workstation ArcGIS, Surfer, Trimble GPS Pathfinder, IDRISI, ERDAS IMAGINE, ENVI/IDL, and eCognition. Located at a comprehensive research university, the Virginia Tech library offers an excellent journal and monograph collection in geography, worldwide coverage by maps and atlases, and extensive electronic journals and databases. The Center for Environmental Applications of Remote Sensing (CEARS), housed in the College of Natural Resources and Environment, is a world-class geospatial research facility established in 1997 as a NASA center of excellence in applications of remote sensing to regional and global integrated environmental assessments. With core faculty in both the Geography and Forest Resources and Environmental Conservation departments, it is Virginia Tech's focal point for interdisciplinary research, instruction, and outreach focused on remote sensing applications.

Doctoral candidates in this program will have the opportunity to interact with CEARS researchers who have extensive expertise with a wide variety of data types (including active and passive microwave, multispectral, hyperspectral, LIDAR, aerial photographs) and application areas (such as temperate and tropical forestry, limnology, ecological modeling, marine biology, environmental monitoring, urban ecology, carbon sequestration, tropical biodiversity assessment, phenology studies, rangeland management, invasive species, and fire fuel loading).

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Undergraduate tracks include the B.A. in Geography and the B.S. in Meteorology. Both degrees share a common core covering physical, human and regional geography and require at least four mapping and GIS courses. The geography degree also offers courses spanning faculty specializations in biogeography, geomorphology, weather and climate, human geography, urban geography, health/medical geography, population and development, sustainability science, gender and environment, international development, water resources, hazards, population; and geospatial techniques including GIS, remote sensing, and quantitative spatial analysis methods. The meteorology degree is the only such degree in Virginia. In addition to the common core, meteorology students must take eight hours of physics and eight hours of calculus. Twenty-five credits of other required meteorology courses within the department include weather analysis, severe weather, dynamic meteorology, synoptic meteorology, physical meteorology and others. Students in both undergraduate degree programs are required to complete a three credit hour field experience which can be satisfied by: study abroad, internship, undergrad research, or field study course. The department offers minors in Geography, GIS, and Meteorology, and leads an interdisciplinary minor in Sustainability.

GRADUATE: The graduate MS in Geography program is open to qualified students holding a Bachelor's degree from an accredited college. Both geography and non-geography majors are encouraged to apply. Applicants are expected to have maintained at least a 3.0 (on a 4.0 scale) grade-point average for their final two years of undergraduate study. Individual students' backgrounds and interests will be considered in developing programs and course requirements. Graduate Record Exams (General Test) scores are required of all students and TOEFL (Test of English as a Foreign Language) scores are required of all international students whose first language is not English, except those applicants who have graduated from an accredited university at which English is the language of instruction. The Ph.D. in Geospatial and Environmental Analysis program requires a master's degree preferably with a geospatial emphasis, GRE scores and gives preference to applicants with a 3.2 Grade Point Average or higher.

Financial Aid: Department Graduate Teaching Assistantships provide a competitive stipend for the nine-month academic year as well as a full tuition waiver. Prospective applicants are encouraged to contact faculty about potential research assistantships that individual faculty may have available through grant activities. Additional scholarships and financial support for undergraduate and graduate research, professional meeting participation, and study abroad are available from the Sidman P. Poole Endowment in Geography that is administered within the department. Virginia Tech operates on the semester system.

FACULTY:

Timothy D. Baird, Ph.D., North Carolina, 2012, Associate Professor — coupled human and natural systems, pastoral systems, sustainability science, Africa

John D. Boyer, M.S., Virginia Tech, 1998, Senior Instructor — world regions, viticulture, educational technology

Anamaria Bukvic, Ph.D., Virginia Tech, 2012, Research Assistant Professor — coastal hazards, adaptation & resilience, vulnerability, relocation & displacement, climate change, disaster risk reduction

James B. Campbell, Ph.D., Kansas, 1976, Professor — remote sensing, soils & geomorphology, landuse/cover change, quantitative methods

David Carroll, M.S., Mississippi State, 2002, Instructor — meteorology, severe weather

Laurence W. Carstensen, Ph.D., North Carolina, 1981, Professor — GIS, cartography, wireless telecommunications modeling & unmanned vehicle navigation

Thomas W. Crawford, Ph.D., North Carolina, 2000, Professor and Department Head — coastal geographies, human-environment interactions, hazards, resilience, health geographies, geospatial applications

Maureen M. Deisinger, M.S., Iowa State, 1993, Undergraduate Advisor — advising & student services

Andrew W. Ellis, Ph.D., Delaware, 1997, Associate Professor — hydroclimatology, climate variability and change, meteorology, drought, water resources

Luke Juran, Ph.D., Iowa, 2012, Assistant Professor — human ecology of water, hazards & disasters, South Asia, mixed methods

Lisa M. Kennedy, Ph.D., Tennessee, 2003, Associate Professor — physical geography, biogeography, fire history & ecology, Quaternary paleoenvironments, Caribbean, Appalachia

Korine N. Kolivras, Ph.D., Arizona, 2004, Associate Professor — medical geography, climate and health, GIS applications

Robert Oliver, Ph.D., Queens, 2008, Associate Professor — human geography, sports and public spaces, mega-events, urban, political

Thomas Pingel, Ph.D., UC-Santa Barbara, 2010, Associate Professor — GIScience, terrain analysis, LiDAR, geovisualization, UAVs, spatial cognition, transportation

Craig Ramseyer, Ph.D., Georgia, 2016, Assistant Professor — climate modeling, hydroclimatology, climate change

Lynn M. Resler, Ph.D., Texas State University, 2004, Associate Professor — physical geography, biogeography, mountain geography, alpine treeline, species interactions, field methods, geospatial techniques

Santosh Rijal, Ph.D., Southern Illinois, 2017, Visiting Assistant Professor — GIS, remote sensing, ecosystem services, natural resource management, land disturbance

Steward Scales, M.S., Virginia Tech, 2011, Instructor — cartography, map design, physical geography, Appalachia, Virginia

Yang Shao, Ph.D., North Carolina, 2007, Associate Professor — remote sensing, GIS, land use/cover change, watershed analysis, high performance geocomputation

Kenneth L. Stiles, M.A., Old Dominion, 1988, Instructor — national security, intelligence, global conflicts, counter terrorism, geospatial

Stephanie E. Zick, Ph.D., Florida, 2016, Assistant Professor — meteorology, tropical systems, cyclone dynamics and structure, geospatial methods, numerical weather prediction, radar & satellite data

ASSOCIATED & EMERITUS FACULTY:

Stacy Boyer, M.S., Virginia Tech, 2012, Instructor — infectious diseases, refugee health, HIV/AIDS, gender and poverty

Maria Elisa Christie, Ph.D., Texas, 2003, Director, Women and Gender in International Development, Center for International Research, Education and Development — gender, agriculture, and development, cultural and political ecology, geography of food, qualitative methods, participatory mapping

Randal Dymond, Ph.D., PE, Pennsylvania State University, 1987, Professor, Civil and Environmental Engineering — GIS, storm water, watershed management, infrastructure, land development planning, visualization

Charles M. Good, Ph.D., Chicago, 1970, Professor Emeritus — medical, Africa, Third World development, immigration

Lawrence S. Grossman, Ph.D., Australian National, 1979, Professor — Caribbean, Third World development, political ecology, colonial environmental history

Robert W. Morrill, Ph.D., Clark, 1973, Professor Emeritus — geographic education, North America, political

Bonham C. Richardson, Ph.D., Wisconsin, 1970, Professor Emeritus — historical, Caribbean, human ecology

Joseph L. Scarpaci, Ph.D., Florida, 1985, Professor Emeritus — urban, social, Latin America

Peter Sforza, M.S., Virginia Tech, 2005, Director, Center for Geospatial Information & Technology, Research Associate — remote sensing, geospatial informatics, biosecurity, epidemiology, weather and climate

Randolph Wynne, Ph.D., Wisconsin-Madison, 1995, Professor, Forest Resources and Environmental Conservation — remote sensing, ecological modeling, natural resource management

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY

FOUNDED: 1935

GRADUATE PROGRAM FOUNDED: 1983

DEGREES OFFERED: B.A., B.S., M.S.

GRANTED 6/01/17 - 5/31/18: 18 Bachelors, 15 Masters

STUDENTS IN RESIDENCE: 58 majors, 35 Masters

NOT IN RESIDENCE: 10 Masters

CHAIR: Michael Pease

DEPARTMENT SECRETARY: Monica Reece-Bruya

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Michael Pease, Chair, Geography, Central Washington University, 400 E. University Way, Ellensburg, Washington 98926-7420. Telephone (509) 963-1188. TDD (509) 963-3323. Fax (509) 963-1047. Internet: www.cwu.edu/geography.

PROGRAMS AND RESEARCH FACILITIES: CWU offers both the B.A. and a B.S. in geography. The B.A. is a good choice for students who want flexibility to customize their curriculum beyond the five-course core common to all Geography majors. The B.A. offers broad training that will lead to careers in international affairs and trade, planning, or education. Students pursuing the B.S. may choose either the geographic information science (GIScience) specialization or the environmental and resource geography specialization. The GIScience route provides a suite of skills to process, analyze, and interpret geospatial data and teaches students how to use the skills to solve real-world problems. The environmental and resource geography specialization emphasizes laboratory and field research skills and provides comprehensive, integrated scientific knowledge of Earth systems and their relationship to human societies—especially in the Pacific Northwest. This option gives students a leg up in a wide range of careers, especially natural resource management.

Courses in our program emphasize field learning, both in physical and human geography. Additionally, many of our majors complete internships with public and private organizations in the Pacific Northwest. On campus, the department also maintains a well-equipped Geography Information Systems laboratory that benefits majors from other programs in addition to geography. We also have state-of-the-art labs for work in paleoecology, soil science, and hydrology.

Geography is one of three main departments that support an interdisciplinary M.S. in Cultural & Environmental Resource Management (CERM) degree, providing most of the natural resource component of the program. Details of this program are available at www.cwu.edu/resource-management. Recent master's thesis research efforts have focused on restoration of salmon habitat, water resources and watershed analysis, sacred sites and indigenous geographies, historic preservation, regional land use planning, and forest recreation management. Geography is also actively involved in several other interdisciplinary programs, including Asian Studies, Environmental Studies, Integrated Energy Studies, Latino & Latin American Studies, and Public Policy. Students pursuing any major at CWU can sign up for the GIS certificate or the Natural Resource Management certificate.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Central Washington University operates on the quarter system with ten-week terms beginning in mid-September. Admission to the University requires a comprehensive high school background with a minimum grade average of C+/B-. Financial aid is available to qualified students. Details on admissions and financial aid are available from the Admissions Office, Central Washington University, 400 E. 8th Ave., Ellensburg, Washington 98926.

Admission to the Resource Management graduate program requires a solid academic background in a relevant field, of which geography is but one possibility and academic recommendations. See www.cwu.edu/resource-management. Assistantships are available to qualified applicants. Central Washington University is an EEO/AA/Title IX Institution.

FACULTY:

Kevin Archer, Ph.D., Johns Hopkins University, 1990, Dean of Graduate Studies & Research — social construction/production of nature, globalization

John T. Bowen, Jr., Ph.D., University of Kentucky, 1993, Professor — economic geography, air transport systems, logistics, Southeast Asia

Elvin Delgado, Ph.D., Syracuse University, 2012, Associate Professor — political ecology, energy and capitalism, critical resource geography

Holly A. English, M.S., University of Denver, 1998, Senior Lecturer — environmental studies, energy resources

Anthony O. Gabriel, Ph.D., University of Guelph, 1993, Professor — physical geography, biogeography, coastal environments, wetlands

Elaine K. Glenn, M.S., Brigham Young University, 1987, Senior Lecturer — world regional geography, political geography, Russia, Middle East

Robert J. Hickey, Ph.D., University of Idaho, 1994, Professor — GIS and remote sensing, natural resources management, economic geology

Karl D. Lillquist, Ph.D., University of Utah, 1994, Professor — geomorphology, soils, environmental change, arid lands, mountain environments

Jennifer Lipton, Ph.D. University of Texas, 2008, Associate Professor — biogeography, landscape ecology, conservation and development, remote sensing, GIS, Latin America

Michael Pease, Ph.D., Southern Illinois University, 2008, Associate Professor and Chair — arid lands, field methods, water resources, American Southwest

Sterling Quinn, Ph.D., Pennsylvania State University, 2016, Assistant Professor — geovisual analytics, social aspects of GIS, critical cartography, web mapping approaches

Craig S. Revels, Ph.D., Louisiana State University, 2002, Associate Professor — cultural, historical, and economic geography, Latin America

Megan Walsh, Ph.D., University of Oregon, 2008, Associate Professor — paleoecology, physical geography, Pacific Northwest

EMERITI FACULTY:

Dee R. Eberhart, M.A., Northwestern University, 1950 — economic geography, land development, Europe

Kenneth A. Hammond, Ph.D., University of Michigan, 1969 — conservation, resource planning and legislation, Pacific Northwest

James L. Huckabay, Ph.D., University of Kansas, 1975 — energy resources, climatology, air photo interpretation

Nancy B. Hultquist, Ph.D., University of Idaho, 1991 — economic geography, GIS, urban geography, computer cartography

Robert Kuhlken, Ph.D., Louisiana State University, 1994 — historical geography, urban and regional planning, cultural ecology, Oceania, North America

John Q. Ressler, Ph.D., University of Oregon, 1970 — cultural geography, Latin America, GIS

Morris L. Uebelacker, Ph.D., University of Oregon, 1987 — human geography, field methods, Columbia River Basin

STAFF:

David Cordner, M.S., Instructional & Classroom Support Technician III

Monica Reece-Bruya, Secretary Senior

Craig Scrivner, Ph.D., Systems Administrator

EASTERN WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1955

DEGREES OFFERED: B.A., M.A.

GRANTED 07/01/017-06/30/18: 11 Bachelors

STUDENTS IN RESIDENCE: 25 Majors, 11 Graduate Students

CHAIR: Stacy Warren

DEPARTMENT ADMINISTRATIVE ASST: LeAnn Knoles

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Stacy Warren, Chair, Department of Geography and Anthropology, 110 Isle Hall, Eastern Washington University, Cheney, Washington 99004-2417. Telephone (509) 359-7962 or 359-2433. Internet: www.ewu.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Department of Geography and Anthropology at Eastern Washington University is a small yet dynamic program, with research and teaching foci that span both human and physical geography. We are located in the heart of the Intermountain Northwest, with campuses in Cheney and Spokane, and are in close proximity to the Northern Rocky Mountains, Columbia Basin, Channeled Scablands, and the Palouse.

The EWU undergraduate program in geography seeks to cultivate geographic literacy as an indispensable element of a liberal arts education. A broad range of course offerings serve students seeking both professional careers and continued higher education. Areas of current faculty interest include critical urban studies, political geography, critical GIS, geography of children, popular culture theory, water resource management, dendrochronology, geomorphology, climatology, wetland science, energy and transportation, and environmental studies. Many courses are cross-listed, as the Geography program works with the Anthropology, History, Geology, International Affairs, Urban and Regional Planning, Computer Science, Biology and Education. Geography majors are encouraged to participate in an active internship program to gain practical

employment skills before graduation and/or as part of a broader research project. We also offer certificates in GIS and Wetland Studies, as well as an interdisciplinary M.A. degree in Critical GIS and Public Anthropology. The Master's program is oriented toward research projects that are, though not exclusively, actively engaged with community organizations.

Geography, along with the affiliated programs of Anthropology, Archaeological & Historical Services occupies Isle Hall at the Cheney campus. The department has a fully equipped Geographic Information Systems Laboratory.

ACADEMIC REQUIREMENTS AND FINANCIAL AID:

Eastern Washington University is a regional state university and offers classes on a four-quarter schedule, fall through summer.

GEOGRAPHY FACULTY:

Matthew Anderson, Ph.D., University of Illinois at Urbana-Champaign, 2012, Assistant Professor — critical urban studies, political geography, natural resource management, critical social and spatial theory

Brian Buchanan, Ph.D., Durham University (UK), 2015, Assistant Professor [Joint Appointment with Anthropology] — GIS, landscape archaeology, archaeology and related humanities

Erin Dorothea Dascher, Ph.D., Texas State University, 2017, Assistant Professor — environmental geography, soil science, wetlands, surface hydrology, geomorphology

Lauren Stachowiak, Ph.D., University of Tennessee, 2016, Assistant Professor — dendrochronology, forest fire behavior, climate science, geomorphology

Stephen Tsikalas, Ph.D., Texas State University, 2012, Assistant Professor — physical geography, remote sensing, climatology, meteorology, natural hazards

Stacy Warren, Ph.D., University of British Columbia, 1994, Professor — cultural and urban, critical GIS, Disney studies, popular culture theory, geography of children

UNIVERSITY OF WASHINGTON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1935

GRADUATE PROGRAM FOUNDED: 1935

DEGREES OFFERED: B.A., M.A., Ph.D.

GRANTED 6/15/17-6/14/18: 98 B.A., 3 M.A., 3 Ph.D.

STUDENTS IN RESIDENCE: 326 Majors, 7 M.A., 18 Ph.D.

NOT IN RESIDENCE: 5 Ph.D.

CHAIR: Sarah Elwood

DEPARTMENT ADMINISTRATOR: Sharon Frucci

FOR FURTHER INFORMATION CONTACT: Nell Gross, Director of Academic Services, 415 B Smith Hall, Department of Geography, Box 353550, University of Washington, Seattle, Washington 98195. Telephone (206) 543-3246. Fax (206) 543-3313. Email ngross@uw.edu. Comprehensive information on the department is available at: <https://geography.washington.edu/>.

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate Studies: The undergraduate instructional program in geography is organized around the faculty's research specialties and teaching expertise in areas ranging from urban and regional studies to global studies (see the Graduate section, below). However, students are encouraged to formulate their own field of specialization. Students are required to obtain a minimum of 60 credits in geography, out of the total university graduation requirements of 180 credits. The requirements include courses in research methods and research design and are structured through thematic concentrations in Cities,

Citizenship & Migration, Environment, Economy & Sustainability, GIS, Mapping and Society and Globalization, Health & Development. An internship outside the University and the writing of a senior essay are encouraged. Students must maintain an overall GPA of 2.0 and a cumulative 2.5 (and a 2.0 in individual courses) for coursework taken to fulfill requirements for their major in geography. The department also offers an Honors Program for students who are invited to join on the basis of their past academic performance and future potential.

Graduate Studies: We offer both an MA and PhD in Geography. Our MA and PhD programs are fashioned at the intersection of several broad research specializations. Following the work of the faculty, graduate students are encouraged to think outside the box of any particular 'adjectival' subfield of human geography. Nevertheless, our programs draw on expertise in the following key areas:

Critical Development and Global Health: Integrated program of study addressing political-economic, social, environmental, and global health dimensions of development in both urban and rural realms. Students may specialize in the Americas, Africa, China, South Asia, or on the challenges facing poor communities in rich countries. Students study theoretical perspectives and case study materials addressing the ways in which political, economic and social processes relate to the geographical dynamics shaping social inequality, development and health, including the intersections of these processes with gender, sexuality, ethnic and race relations, and class structures. They also examine the health effects and environmental consequences of development, and the developmental experiences of inequality, dispossession and exploitation that account for poor health outcomes.

Economic Geography: Particular concentrations include globalization, neoliberalism, regional economic development and underdevelopment, with an emphasis on North America, Latin America, East Asia; cross-border regionalism; location theory; labor markets; labor migration (including migrant worker mistreatment and rights); resource distribution; technological change; the relationship between geoeconomics and geopolitics; and the economic lessons of the global justice movement.

Geographic Information Systems: Concepts, techniques and software/hardware tools involved in computer-assisted cartography and geographic information system design, use and social meaning. Particular emphasis is on participatory and critical GIS, analytical methods and their use in practical circumstances, including recent innovations in Web 2.0 and neo-geo mapping online. Research may include analytical cartography, geographic information representation, map error analysis, social construction of GIS technology, spatial database design, data management approaches and systems configurations, urban applications, geographic knowledge structures, transportation, environmental analysis, natural resources, user cognition and user interface design, sustainability science, spatial model coupling to GIS, and collaborative spatial decision making.

Society and Environment: Examination, analysis and interpretation of the complex inter-relationships between social dynamics and environments. The areas of focus include cultural and political ecology, health and the environment, global environmental modeling and GIS methods and applications. Research themes primarily involve questions of scale in analyzing social and environmental change at the local, regional, and global levels, and on analyzing, understanding and explaining the interactions among ecological processes, environmental transformation, and social processes and transformations in affluent and impoverished societies. Related aspects of medical geography include such topics as the ties between global environmental change and the (re)emergence and spread of contagious disease, as well as how political, social, environmental, and biological factors come together to both create and structure health vulnerability and risk management.

Urban, Social and Political Geography: Emphasis is on both the theory and empirical investigation of the geography of power, the biopolitics and governance of population and movement, both in terms of global relations and local patterns of policing and social activism. Particular emphasis is given to the relation of social, political and economic structure to spatial organization and social justice, and on issues of race, gender, sexuality, ethnicity, inequality, health and disease, policing, power and social justice as they have been theorized in critical social theories. Attention is also paid to how political-economic geographies combine in relations of dominance, governance and resistance at a range of scales, from the urban to the regional to the transnational.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Quarter system. The University of Washington admits undergraduate students on the basis of scholastic standing, admission test scores, and adequacy of preparation for university study while in high school or another collegiate institution. Neither the College of Arts and Sciences nor the Department of Geography have separate admissions requirements, but both have graduation requirements. (Please request further information from the Office of Admissions, Box 351280, University of Washington, Seattle, Washington 98195).

Graduate: Quarter system. The departmental curriculum is flexible, and programs of study are individually arranged to suit the needs of the students. The Geography M.A. is a two-year program culminating in the writing and defense of an M.A. thesis. The Geography Ph.D. is a 4-6 year program in which students develop a high level of expertise of one or more specific areas within this discipline. The Ph.D. culminates in the writing and defense of a doctoral dissertation. Admission to the graduate program is competitive and requires a minimum grade point average of B (3.0 on a 4.0 scale) with average incoming GPAs usually much higher. Applicants must take the GRE. Priority admission submission deadline: December 15. Information on the graduate program may be obtained by accessing our web site: <https://geography.washington.edu/graduate-admissions>.

FACULTY:

- Michael Brown, Ph.D., University of British Columbia, 1994, Professor* — urban, political and health geography, sexuality, urban politics, political theory
- Kam Wing Chan, Ph.D., University of Toronto, 1988, Professor* — China, urbanization, migration, labor, development, the *hukou* system
- Mark Ellis, Ph.D., Indiana University, 1988, Professor* — immigration, internal migration, race and ethnicity, labor markets
- Sarah Elwood, Ph.D. University of Minnesota, 2000, Professor and Chair* — relational poverty, visibility, critical geographies of technology, mixed methods
- Kim England, Ph.D., The Ohio State University, 1988, Professor* — urban, social, political and feminist geographies, work and employment, care work, the home, critical social policy, social and feminist theories
- Carrie Freshour, Ph.D., Cornell University, 2018, Assistant Professor* — labor/social movements, immigration, political economy of food and agriculture, race, class, gender, social reproduction, racial capitalism, feminist geography, black radical tradition, American south, food work/workers
- Steve Herbert, Ph.D., UCLA, 1995, Professor and Director of Law, Societies & Justice* — political geography, law and law enforcement, environmental regulation, qualitative methods
- Victoria A. Lawson, Ph.D., The Ohio State University, 1986, Professor and Director of University Honors Program* — critical development studies, relational poverty studies, the Americas, Marxist, feminist, and post-colonial theory

Jonathan D. Mayer, Ph.D., University of Michigan, 1977, Professor, Dept. of Epidemiology; Adjunct Professor, Dept. of Medicine, Division of Infectious Diseases; Dept. of Family Medicine, Dept. of Health Services; Clinical Faculty, Travel/Tropical Medicine, UW Medical Center; International Health Program, Co-Director, Undergraduate Program in Public Health — global health, medical geography (infectious diseases and society, disease ecology, health care delivery), HIV (especially in sub Saharan Africa), gender and poverty, health policy, “slum health” in Africa, infectious disease epidemiology, genetic and molecular epidemiology, cardiovascular epidemiology, social determinants of health and social epidemiology, tropical medicine and clinical applications of medical geography, public health and global health in the undergraduate curriculum

Timothy L. Nyerges, Ph.D., The Ohio State University, 1980, Professor — geographic information systems, spatial decision support systems and group decision making, transportation and environmental analysis using GIS, GIS and coastal resource management, human-computer interaction and spatial cognition

Suzanne Davies Withers, Ph.D., UCLA, 1992, Associate Professor — population geography and spatial demography, longitudinal and quantitative methods, residential mobility & migration, urban housing, property rights

Megan Ybarra, Ph.D. UC Berkeley, 2010, Associate Professor — nature-society relations, postcolonial theory, political ecology, transnational migrations, Latin America

Bo Zhao, Ph.D. The Ohio State University, 2015, Assistant Professor — geovisualization and webmapping, geospatial big data, volunteered geographic information (VGI), location-based social media, spoofing phenomena in geography, humanistic GIS, neural sensing, map-based storytelling, critical cartography, social implications of geospatial technologies

EMERITI FACULTY:

William B. Beyers, Ph.D., University of Washington, 1967, Professor Emeritus — regional science, economic geography, geography of producer services, regional analysis, geography of the Pacific Northwest

Lucy Jarosz, Ph.D., UC Berkeley, 1990, Professor — political ecology of agriculture, critical food studies, hunger and poverty, post-colonial and feminist theory, qualitative methodology, North America

Richard L. Morrill, Ph.D., University of Washington, 1959, Professor Emeritus — spatial organization, migration, diffusion and population, regional planning and development, inequality

Craig ZumBrunnen, Ph.D., UC Berkeley, 1973, Professor Emeritus, Russian, East European and Central Asia Studies Program, Middle East Studies Program, Jackson School of International Studies, core faculty Urban Ecology

AFFILIATED AND ADJUNCT FACULTY:

Kemi Adeyemi, Adjunct Assistant Professor (also Department of Gender, Women & Sexuality Studies) — queer studies, performance studies, art history, dance, visual arts

Sunil Aggarwal, Affiliate Assistant Professor (also Palliative Medicine Physician and Associate Hospice Medical Director, MultiCare Auburn Medical Center, Auburn, Washington) — pain medicine, hospice and palliative care medicine, rehabilitation medicine, cannabinoid integrative medicine, geography of access, delivery, and development psychoactive biotic therapeutic landscapes, enclosures, seed sovereignty, social medicine, health and human rights

Christian Anderson, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell) — how everyday practices intersect with broader political-economic and cultural processes such as globalization and gentrification in cities, inequality, structural violence, social justice

- Luke Bergmann, Affiliate Professor (also Department of Geography, University of British Columbia)* — big data, critical theory, culture, economics, environment, GIS, geovisualization, mapping, geographical thought
- Christine Biermann, Affiliate Professor (also Geography and Environmental Studies Department, University of Colorado, Colorado Springs)* — critical physical geography, human-environment interactions, tree rings and climate, socioecological forest dynamics, biodiversity conservation, political ecology
- Kathleen Braden, Affiliate Professor (also Department of Geography, Seattle Pacific University)* — Russian studies, resources and technology
- Dan Brown, Adjunct Professor (also Director of the School of Environmental and Forest Sciences)* — ecology, resources management, environment
- Richard Conway, Affiliate Associate Professor* — regional economic modeling
- Shannon Cram, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)* — social and political boundaries of science, culture and environment, racial identity, climate change, gender and sexuality
- Matthew D. Dunbar, Affiliate Assistant Professor (also Assistant Director and GIS Program Manager Center for Studies in Demography and Ecology, University of Washington)* — GIS, mobile data collection (phone devices with GPS), mapping/cartography, geocoding/address-matching, spatial database creation, archiving, and management, spatial data acquisition, spatial statistics
- Gabriel E. Gallardo, Affiliate Associate Professor (also Interim Vice President for Minority Affairs & Vice Provost for Diversity, University of Washington)* — geography of race and ethnicity, ethnic entrepreneurship, Chicano/Latino settlement in the United States, immigration and diasporas, social justice, Latin America, the Pacific Rim, the Pacific Northwest, minority student access to graduate education, undergraduate and graduate student retention strategies, inclusive excellence
- Maria Elena Garcia, Adjunct Associate Professor (also Associate Professor and Director, Comparative History of Ideas)* — Indigenous politics and multicultural activism in Peru, indigeneity and interspecies politics in the Andes, the cultural politics of contemporary Peru in relation to food, Indigeneity and violence
- Ben Gardner, Affiliate Associate Professor (also University of Washington, Bothell)* — cultural politics of the environment, political economy of development, the post-colonial state, Africa
- Kathryn Gillespie, Affiliate Professor* — agriculture, feminism and feminist theory, food
- Michael Goodchild, Affiliate Professor (also Professor Emeritus and Research Professor, University of California Santa Barbara)* — geographic information science, spatial analysis, uncertainty in geographic data
- Joseph Hannah, Affiliate Assistant Professor (also Academic Counselor, Integrated Social Sciences Program, University of Washington)* — political geography, critical geopolitics, critical development studies, global food systems, globalization, critical cartography, global health mapping, GIS, state-society relations, civil society formation in the Global South, social justice, Southeast Asia studies, Vietnam studies
- Jin-Kyu Jung, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)* — qualitative GIS and qualitative geovisualization, urban geography, race, class and gender in power relations in cities, mixed methods research approaches
- Lawrence M. Knopp, Adjunct Professor (also, Interdisciplinary Arts and Sciences, University of Washington, Tacoma)* — sexuality and space, feminism, political and cultural geographies, urban and rural regional studies
- Santiago Lopez, Adjunct Assistant Professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)* — GIS, social theory, nature-society relations, Latin America
- Jose Antonio Lucero, Adjunct Associate Professor (also Associate Professor, Henry M. Jackson School of International Studies and Chair, Latin American and Caribbean Studies)* — Indigenous politics, borderlands, social movements, comparative politics, Latin American politics, politics of race and ethnicity, development, political and social theory
- L. Monika Moskal, Adjunct Associate Professor (also Associate Professor, Remote Sensing and Geospatial Analysis Laboratory (RSGAL), College of the Environment)* — GIS, forestry, remote sensing, environmental conservation
- Amy Piedalue, Affiliate Professor* — feminism and feminist theory, justice, poverty, public scholarship, social movements, postcolonial and anti-racist feminisms, Islamophobia and anti-Muslim bias, gender-based violence, India and South Asian diaspora
- Britta Ricker, Adjunct Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma)* — health geographies, GIScience, mobile technologies for spatial data collection
- Adam Romero, Adjunct Assistant professor (also School of Interdisciplinary Arts and Sciences, University of Washington Bothell)* — food systems, political economy, science and technology
- Vaishnavi Thakar, Instructor* — GIS, geovisualization, mapping, spatial analysis and modeling, geocomputation, disaster mitigation, emergency management
- James Thatcher, Adjunct Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma)* — GIScience, software studies, political ecology, urban studies
- Rebecca Walter, Adjunct Professor (also Department of Real Estate)* — urban geography, assisted housing, wellbeing of families and households

WESTERN WASHINGTON UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL STUDIES – GEOGRAPHY PROGRAM

DATE FOUNDED: 1952

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.A. in Geography, M.A. in
Environmental Studies and Geography

COMBINED MAJORS: B.A. in Geography/Social Sciences,
B.A.E. in Geography/Elementary Education

CERTIFICATES OFFERED: Geographic Information
Science

MINORS OFFERED: Geography, Disaster Risk Reduction,
Environmental Justice, Environmental Studies,
Geographic Information Science, Sustainable Design

CHAIR: Grace Wang

ADMINISTRATIVE MANAGER: Diane Knutson

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** Department of Environmental Studies, Centralized Student
Services, 516 High Street – ES 534, Western Washington University,
MS-9079, Bellingham, Washington 98225-9085. Undergraduate
Advising Telephone (360) 650-2817. Graduate Advising Telephone
(360) 650-3646. Fax (360) 650-2842. Department Telephone (360)
650-3277. Fax (360) 650-7702 Internet: [https://huxley.wvu.edu/
environmental-studies](https://huxley.wvu.edu/environmental-studies)

PROGRAMS:

UNDERGRADUATE: Program offers a well-rounded program covering the fundamentals of human geography, physical geography, and geographic research methods, with an emphasis on environmental geography. Faculty expertise includes economic geography, cultural-historical geography, urban planning, natural hazards planning, biogeography, climatology, soils, agriculture, paleoclimatology, and GIS. Regional specializations include Canada, the American West, and East Asia. Students have access to research facilities including the Spatial Analysis Lab, the Huxley Tree-Ring Lab, the Huxley Soils Lab, the Planning Studio, the Resilience Institute, and the Spatial Institute. The major prepares students to explore a wide variety of career paths including planning, education, environmental agencies and NGOs, business, tourism, GIS, government service, transportation, and many more.

Geography/Social Studies B.A. major meets Washington State requirements for a teaching endorsement and also prepares students to teach in non-traditional settings with or without the additional certification from Woodring College of Education.

Geography – Elementary, BAE program satisfies the academic major requirement for teacher certification with an endorsement in elementary education and must be accompanied by the professional preparation program in elementary education.

GRADUATE: Graduate students have the option of focusing the M.A. Environmental Studies degree upon geographical theories, methods, and topics. Following a series of two common core courses, students in this program collaborate closely with a faculty advisor to shape an appropriate program of study.

CURRENT FACULTY AND STAFF:

Troy Abel, Ph.D., George Mason University, 1998, Professor — environmental policy, civic environmentalism, environmental justice, globalization and the environment

Andrew J. Bach, Ph.D., Arizona State, 1995, Professor — physical and environmental geography, glacial and soils geomorphology, climate change and quaternary history, geoarchaeology

Gigi Berardi, Ph.D., Cornell, 1979, Professor — cultural geography, environmental history, tribal and natural resources management, Alaska

Patrick H. Buckley, Ph.D., Boston, 1988, Professor — quality of life in a global economy, environmental entrepreneurship, cross border regions, quantitative and optimization techniques, Delphi modeling, regional focus: Japan, Canada, Pacific Rim

Kate Darby, Ph.D., Arizona State University, 2010, Associate Professor — environmental justice, urban ecology, global food policy, technology and society

Aquila Flower, Ph.D., University of Oregon, 2013, Associate Professor — climatic variability, human land use patterns, natural disturbances in shaping forest ecosystem dynamics

Stefan Freelan, M.S., Western Washington University, 2003, GIS Specialist

Nini Hayes, Ed.D., University of Massachusetts-Amherst, College of Education, 2015, Assistant Professor — environmental education and justice

Nabil Kamel, Ph.D., University of California, Los Angeles, 2004, Associate Professor — social and environmental justice, post-disaster recovery, political economy of urbanization, sustainable development, critical urban theory, housing and poverty, physical planning, urban design, regional and international development

Tamara Laninga, Ph.D., University of Colorado, 2005, Assistant Professor — urban land use planning and policy, U.S. and state environmental policies and regulations, renewable energy, collaborative decision-making, innovative public involvement strategies, sustainable development, growth management

Michael J. Medler, Ph.D., University of Arizona, 1997, Professor — GIS and remote sensing, landscape ecology, biogeography, natural resources management and policy

Jean O. Melious, J.D., Harvard, 1984 Professor — environmental policy, environmental law

John C. Miles, Ph.D., Union Institute, 1979, Professor Emeritus — environmental education and history, outdoor education

Debnath Mookherjee, Ph.D., Florida, 1961, Professor Emeritus — comparative urbanization, regional development and planning, South Asia

O. Eugene Myers, Ph.D., University of Chicago 1995, Professor — human ecology, human development, environmental education

Mark Neff, Ph.D., Arizona State University 2009 Associate Professor — science/policy interface, environmental science and decision-making, science policy, technology and the environment, qualitative and quantitative research methods, science and environmental conflicts, political ecology, science and technology studies, science and culture, medicine, technology and health

Paci-Green, Rebekah, Ph.D., Cornell University Associate Professor — how risk perception shapes social vulnerability and unsafe built environments, comprehensive school safety to natural hazard risks, vulnerable populations, disaster risk reduction, community-defined resilience, and media coverage of science and the media-science interface

David A. Rossiter, Ph.D., York University, 2005, Professor — cultural, historical, and political geographies, Canada

Nick Stanger, Ph.D., University of Victoria B.C. Canada 2014 Associate Professor — environmental psychology, human-environment connections, climate change behaviour, environmental education, complexity theory, resiliency in human and ecological systems, indigenous world views, mindfulness and ecology, sense of place, and behavioural change within a global citizenship context

Paul Stangl, Ph.D., University of Texas at Austin, 2001, Associate Professor — urban, political, cultural, European geography

Thomas A. Terich, Ph.D., Oregon State, 1973, Professor Emeritus — physical geography, coastal management, natural hazards

Grace Wang, Ph.D., University of Minnesota 1997, Professor — natural resource policy, multicultural perspectives, resource management

Nicholas Zaferatos, Ph.D., Washington, 1996, Professor — environmental planning, tribal planning

WEST VIRGINIA

MARSHALL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1911

GRADUATE PROGRAM FOUNDED: 1948

DEGREES OFFERED: B.A., B.S., M.A., M.S.

GEOGRAPHY CHAIR: James Leonard

DEPT. ADMIN. SECRETARY SENIOR: Paula Kouns

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: James Leonard - Chair, Department of Geography, Marshall University, One John Marshall Drive, Huntington, WV 25755. Telephone: (304) 696-4364. Email: geography@marshall.edu. Internet: www.marshall.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers two degree tracks for both undergraduate and graduate students. At the undergraduate level, students who choose the B.S. track focus on a science-based curriculum involving physical

geography, GIS/RS, and environmental science. Students who enroll in the B.A. track concentrate on a sequence of courses in human geography and regional geography, and GIS. Both BA and BS are available 100% online in addition to the traditional classroom. At the graduate level, the M.A. is non-thesis track and the M.S. is thesis track. The MA is available 100% online in addition to the traditional classroom. The programs are flexible and accommodate a broad spectrum of geographic study while permitting considerable specialization, even at the undergraduate level.

The Department of Geography offers access to modern technology as well as traditional practices in the discipline. The department hosts well-equipped classrooms, a Physical Geography Laboratory, and a GIS/RS Laboratory with state-of-the-art facilities.

Field work and real-world experience form an integral element of Geographic education at Marshall University. Student preparation for further academic study or entry into the job market includes participation in field research, internships, or contract employment. Marshall University's students benefit from Huntington's relative location in the Ohio Valley near major urban and industrial development and amidst a varied physical and culture geography. Graduates of the Department of Geography include GIS analysts, natural resource analysts, environmental specialists, tourism professionals, teachers, urban and regional planners, and economic development advisors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Marshall University operates on the semester system and offers three five-week summer sessions and one twelve-week summer session. Graduate students may qualify for departmental Teaching Assistantships that include stipends and tuition waivers. For undergraduate students, Internships and Independent Study options are available. Graduate and undergraduate students may participate in faculty research projects.

FACULTY:

Hilton Córdoba, Ph.D., Florida Atlantic University, 2014 — transportation geography, spatial analysis/GIS, urban geography
Jonathan Kozar, Ph.D., University of North Carolina-Charlotte 2012 — urban-economic geography
Kevin Law, Ph.D., The Ohio State University, 2006 — atmospheric science
James M Leonard, Ph.D., University of Cincinnati, 2001 — cultural geography, GIS
Anita Walz, Ph.D., University of Maryland, 2002 — environmental studies, GIS

WEST VIRGINIA UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1877

DEGREES OFFERED: B.A., M.A., Ph.D.

GEOGRAPHY CHAIR: Karen Culcasi

DEPT. ADMIN. SECRETARY SENIOR: Lisa Lively

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Karen Culcasi, Associate Chair for Geography, 98 Beechurst Ave, Room 330, West Virginia University, Morgantown, WV 26506. Telephone: (304) 293-0383. Fax: (304) 293-6522. E-Mail: Karen.culcasi@mail.wvu.edu. Web: <http://geography.wvu.edu>.

PROGRAMS AND RESEARCH FACILITIES: The Geography Program within the Department of Geology and Geography offers degrees for undergraduate and graduate students. At the undergraduate level, the program offers a B.A. with concentrations in Globalization and Development, Geographic Information Science (GISci), and

Natural Resources and Environment. Certificates of specialization are available in GIScience. At the graduate level, the program offers two advanced degrees: the Master of Arts in Geography and the Doctor of Philosophy in Geography. The Program has three major research focus areas: Environmental Geography, Human and Human-Environment Geography, and Geographic Information Science. The program is supported by 17 tenured or tenure track faculty, one Teaching Assistant Professor, one Research Assistant Professor, and several Professor Emeriti. Being part of the Department of Geology and Geography, students can also draw upon the expertise of an equally well resourced and attentive Geology faculty with expertise not only in deep geology but also in geomorphology, surficial processes, Karst landscapes, and hydrology.

The Department has excellent facilities in Brooks Hall on WVU's Downtown Campus. Students have access to five teaching computer laboratories with over 125 machines. Support is provided for the most geographic software. In addition, graduate students have access to their major advisor's research lab. Each faculty member in geography has his or her own 650 square foot. research lab to facilitate the university's strong emphasis on research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

West Virginia University has a traditional two-semester system with flexible summer session courses. At the undergraduate level, the program includes on-line courses in addition to in-theatre lectures. The program offers a variety of small, merit-based fellowships for undergraduates and teaching and research assistantships for M.A. and Ph.D. students. More information on admission requirements, courses, and faculty research can be found on the program web page.

FACULTY:

Martina Caretta, Ph.D., Stockholm University — gender, water, landscape, feminist methodologies
Jamison Conley, Ph.D., Pennsylvania State — geographic information science, geocomputation, medical geography
Karen Culcasi, Ph.D., Syracuse — geopolitics, Middle-East, critical cartography
Cynthia Gorman, Ph.D., Rutgers — gender, migration, legal regimes and international human rights campaigns
Jonathan Hall, Ph.D., Ohio State — human impacts on species abundance and persistence
Trevor Harris, Ph.D., Hull, England — GIS, GIS and society, geo-archaeology, environmental impact assessment, historical geography
Amy E. Hessel, Ph.D., Arizona — biogeography, forest ecosystems, dendrochronology
Insu Hong, Ph.D., Arizona State — Geographic Information Science (GISci) and spatial optimization
Randall Jackson, Ph.D., Illinois-Urbana — regional science and economic geography
Steven Kite, Ph.D., Wisconsin — geomorphology, quaternary stratigraphy, glacial and fluvial geomorphology, geoarchaeology
Rich Landenberger, Ph.D., West Virginia University — forest ecology, land use, conservation
Eungul Lee, Ph.D., Colorado — climatology, monsoon climates, biosphere and atmosphere interactions
Aaron Maxwell, Ph.D., West Virginia — geospatial education, spatial modeling, machine learning, image analysis
Brent McCusker, Ph.D., Michigan State — land use and livelihoods, vulnerability, Africa
Brenden McNeil, Ph.D., Syracuse — GIS, remote sensing, ecosystem ecology
Maria Perez, Ph.D., Michigan — speleology, national geographies, identities, Americas
Jamie Shinn, Ph.D., Pennsylvania State — political ecology, vulnerability studies, climate change adaptation, Africa
Timothy A. Warner, Ph.D., Purdue — remote sensing

Bradley Wilson, Ph.D., Rutgers — human geography, resource conflict, social movements

EMERITUS FACULTY:

Gregory Elmes, Ph.D., Pennsylvania State — Geographic Information Science, spatial analysis of crime and policing

Kenneth C. Martis, Ph.D., Michigan — electoral geography, legislative redistricting, voting behavior

Robert Hanham, Ph.D., Ohio State — development, labor studies, political economy and ecology, research methods

WISCONSIN

UNIVERSITY OF WISCONSIN - EAU CLAIRE

**DEPARTMENT OF GEOGRAPHY AND
ANTHROPOLOGY**

DATE FOUNDED: 1947

DEGREES OFFERED: B.A., B.S. in Geography (Liberal Arts), Geography (Environmental Comprehensive), Geography (Transnational Comprehensive), and Geography (Geospatial Analysis and Technology); Minors in Geography (Liberal Arts) and Geography (Teaching)

CERTIFICATES OFFERED: Anthropology; Geospatial; Geospatial (GIS emphasis); Geospatial (Remote Sensing emphasis)

GRANTED 9/1/18-8/31/19: 42 Bachelors (Geography); 20 Geospatial Certificates

STUDENTS IN RESIDENCE: 156 Geography Majors; 18 Geography Minors

CHAIR: Paul Kaldjian

DEPARTMENT ADMINISTRATIVE ASST: Yvonne Plomedahl

GEOSPATIAL TECHNOLOGY FACILITATOR: Martin Goettl

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Paul Kaldjian, Chair, Department of Geography and Anthropology, University of Wisconsin-Eau Claire, Eau Claire, Wisconsin 54702-4004. Telephone (715) 836-3244 Fax (715) 836-6027. E-mail: kaldjian@uwec.edu. Web: www.uwec.edu/geography/.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-Eau Claire is the largest undergraduate campus in the state with 10,900 students and 796 faculty and academic staff. The Department of Geography and Anthropology offers a geography liberal arts major, requiring a minimum of 36 credits in geography, three comprehensive geography majors (environmental, transnational, and geospatial analysis and technology), geospatial and anthropology certificates, and a geography minor. Geography majors are encouraged to earn credits through community internships, participate in field experiences, and to take advantage of opportunities for collaborative research with faculty. The department teaches anthropology courses and actively affiliates with a wide range of units and programs across campus, including Women's Studies, American Indian Studies, Latin American Studies, Hmong Studies, Sustainability, the Watershed Institute, and the Council for Internationalization and Global Engagement. Facilities include cartography, GIS, remote sensing, and spatial analysis labs equipped with 60 high-end desktop computers with double monitors. The

department is fully networked and has a full suite of GIS and remote sensing hardware and software products. UWEC Blugold funding allows our majors and minors to do summer research projects with faculty, present research at regional and national meetings, and enables students to participate in field seminars and international study programs. The department's generous endowment (the Simpson fund) provides additional support for programming, professional development, research, high-impact practices and student engagement.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Office of Admissions for application forms and the Financial Aid Office for information on financial aid. Most geography majors are eligible for financial aid and work in the department's laboratories and with individual faculty members on research and special projects.

FULL AND PART-TIME FACULTY:

Ari Anand, Ph.D., Arizona, 2008, Associate Professor — cultural anthropology, language in culture and society, religion, social theory

Mike Bergervoet, Ph.D., University of Kansas, 2018, Lecturer — human, introduction to cultural anthropology, geospatial field methods

Jeff DeGrave, Ph.D., University of Minnesota, 2015, Senior Lecturer — human, Latin America, Russia and Eastern Europe

Jean Eichhorst, Ph.D., University of Kansas, 2017, Lecturer — human, conservation

Douglas Faulkner, Ph.D., Wisconsin, 1994, Professor — environmental, physical, geomorphology, fluvial

Matt Haffner, Ph.D., Oklahoma State, 2018, Assistant Professor — human GIS, urban, digital geographies and the GeoWeb

Sean Hartnett, Ph.D., Wisconsin, 1989, Professor — cartography, computer graphics, historical

Harry Jol, Ph.D., University of Calgary, 1993, Professor — geomorphology, physical, geoarchaeology, ground penetrating radar, coastal

Paul Kaldjian, Ph.D., Arizona, 2000, Professor — human, food, Middle East and North Africa

Munshi Rahman, Ph.D., Kent State, 2015, Lecturer — geospatial analysis, conservation, GIS

Garry Running, Ph.D., Wisconsin, 1997, Professor — geomorphology, soils, physical, environmental

Peter Strand, M.S., University of Wisconsin-Milwaukee, 2006, Lecturer — GIS

Ryan Weichelt, Ph.D., Nebraska, 2008, Associate Professor — human, quantitative methods, urban, economic, political, conservation

Cyril Wilson, Ph.D., Indiana State, 2011, Associate Professor — human-environment, agent-based modeling, geospatial hydrology, remote sensing, land use and land cover dynamics, GIS, LiDAR

Ezra Zeitler, Ph.D., Nebraska, 2008, Associate Professor — human, North America, Wisconsin, indigenous, race and ethnicity, tourism, geographic education, cartography

UNIVERSITY OF WISCONSIN-LA CROSSE

**DEPARTMENT OF GEOGRAPHY AND EARTH
SCIENCE**

DATE FOUNDED: 1909

DEGREES OFFERED: B.A., B.S. in Geography (Concentrations in GIS and Environmental Science); Minors in Geography, Earth Science, Geoarchaeology, and GIS

GRANTED 8/1/18-5/31/19: 19 Bachelors

MAJORS: 70

CHAIR: Colin Belby

ADMINISTRATIVE ASSISTANT: Debra Gerke

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography and Earth Science, UW-La Crosse, La Crosse, Wisconsin 54601. Telephone (608) 785-8333, Fax (608) 785-8332. Email: geoearth@uwlax.edu Web: www.uwlax.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Earth Science at the University of Wisconsin – La Crosse is dedicated to advancing the academic knowledge of students through teaching and scholarship within established paradigms of cultural and physical geography, and through the acquisition of techniques for studying local, regional and global geographic phenomena. The department is dedicated to the integration of technology into the full scope of the curriculum, to providing hands-on student-oriented learning and to giving each student meaningful research and field experiences. The department provides its students with the intellectual foundation and acquisition of skills for success in both post-graduation employment and graduate study. It has well-equipped physical geography laboratories, a paleoenvironment laboratory, a field methods laboratory and a soils laboratory. Two GIS laboratories provide space, equipment, and a broad range of software programs for instruction in cartography, remote sensing, GIS, and field methods. Our internship program places students with various local, state, and federal government agencies which include the City of La Crosse, the Mississippi River Regional Planning Commission, and the USGS Upper Midwest Environmental Science Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. An application for admission and financial aid information may be obtained online at www.uwlax.edu or by writing to the Admissions Office or Financial Aid Office, University of Wisconsin – La Crosse, 1725 State Street, La Crosse, Wisconsin 54601.

FACULTY:

Colin Belby, Ph.D., University of Wisconsin-Madison, 2009, Associate Professor — water resources, fluvial geomorphology, natural hazards

Cynthia Berlin, Ph.D., Indiana State University, 1998, Professor — remote sensing, conservation, wetland ecology, climate

Joan Bunbury, Ph.D., University of Ottawa, 2009, Associate Professor — paleoclimatology, biogeography, freshwater environments

Gargi Chaudhuri, Ph.D., University of California-Santa Barbara, 2011, Associate Professor — GIS, land use/cover change, transportation

Georges Cravins, Ph.D., Clark University, 1988, Professor — global strategic study, economic development, world cultures, populations

John Kelly, Ph.D., University of Kansas, 2013, Assistant Professor — participatory mapping, Indigenous territoriality, Latin America, cartography, GIS

Jeff Kueny, M.S., University of Wisconsin-Milwaukee, 2001, Instructional Academic Staff — karst geomorphology, conservation

Niti Mishra, Ph.D., University of Texas at Austin, 2014, Assistant Professor — GIS, cartography, geovisualization, remote sensing

Paul Reyerson, Ph.D., University of Wisconsin-Madison, 2012, Assistant Professor — geomorphology, soil science

Daniel Sambu, Ph.D., University of Oklahoma, 2011, Associate Professor — geographic education, global environments, water resources

EMERITUS:

Rafique Ahmed, Ph.D., Ohio State, 1985, Professor (Deceased)

Mehmet Arıtan, Ph.D., Kentucky, 1983, Assistant Professor Emeritus

Gregory Chu, Ph.D., Hawaii, 1986, Professor Emeritus

Virgil Holder, Ph.D., Minnesota, 1976, Professor Emeritus

Paul Stoelting, Ph.D., UW-Milwaukee, 1978, Associate Professor Emeritus

Dean Wilder, Ph.D., Colorado, 1977, Professor Emeritus

Robert Wingate, Ph.D., Minnesota, 1975, Professor Emeritus

UNIVERSITY OF WISCONSIN- MILWAUKEE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1956

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., M.A., M.S.,

Coordinated M.A./M.L.I.S. in Geography/Library and Information Science, Ph.D.

GRANTED 9/1/17-8/31/18: 14 Bachelors, 3 Ph.D.

STUDENTS IN RESIDENCE: 75 Majors, 24 Minors, 10 GIS Minors, 22 GIS Certificates, 2 Masters, 16 Ph.D.

CHAIR: Mark D. Schwartz mds@uwm.edu

DEPARTMENT ADMINISTRATIVE ASSTS: Niko Papakis npapakis@uwm.edu

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Graduate Administrative Committee, Department of Geography, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, Wisconsin 53201. Telephone (414) 229-4866. Fax (414) 229-3981. E-mail: bonds@uwm.edu. Internet: www.geography.uwm.edu.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers bachelors, minors, certificates, masters, and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments", with three major axes, each responsive to areas with strong demand for new professionals:

Urban Environments: This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world's population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.

Physical Geography and Environmental Studies: This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses discuss and analyze the distribution and processes of earth surface landforms (geomorphology), soils (pedology), plants and animals (biogeography), water (hydrology), and long-term atmospheric conditions (climatology). Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change. *Geographic Information Science (GIS):* This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth's surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation

(cartography), and societal implications. Our program emphasizes applications of GIS in urban, regional, and environmental planning, policy making, and public health.

Present teaching and research facilities associated with the Department include its large James John Flannery, Sr. Map Collection, which is now a part of the AGS Library (see below); the Cartography and Geographic Information Science Center; and a Soils and Physical Geography Laboratory. PC computer facilities used by the Geography Department for instruction include Windows workstation labs. Software installed in these labs includes Geographic Information Systems, Remote Sensing, Mapping, Illustration, Photo Editing, Desktop Publishing, Statistical, Database Management, and Word Processing packages. Multiple university servers, other general access PC & MAC computer laboratories, and multimedia facilities are also available for student use. Other research resources at UWM available to the Geography Department staff and students include the School of Freshwater Science, the School of Public Health, the Center for Urban Initiatives and Research, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, the Women's and Gender Studies Program, and University Information Technology Services. The University of Wisconsin-Milwaukee is also the home of the American Geographical Society Library. This multi-million dollar facility is housed in the Golda Meir Library. It contains about 450,000 maps, 200,000 volumes, 200,000 LANDSAT images, 160,000 photographs, 35,000 pamphlets, 7,600 atlases, 70 globes, digital maps and satellite imagery, and the AAG Archives.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID:

Undergraduate Program: Students must meet with the department's undergraduate advisor to declare geography as a major. All majors must complete the 24-25 credit core curriculum and the additional requirements as defined in one of the 5 tracks: 1) geographic information, 2) urban, 3) environmental, 4) physical systems, or 5) globalization and development. Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems Track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.5 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.5 GPA in all major credits attempted, including any transfer work.

Graduate Program: A Bachelor's degree is required for admission to the Master's program; a Master's degree is usually required for admission to the Doctoral program. If previous training was not in geography, students may be required to complete courses to eliminate deficiencies. Applicants must have a minimum grade point average in all academic subjects of 2.75 (on a 4.0 scale) and acceptable scores on the Graduate Record Entrance Exam (G.R.E.). Three current letters of recommendation, preferably from academic referees, must be sent directly to the Geography Department or to the online application system. Specific course requirements for both the Master's and PhD can be obtained from the department. The minimum degree requirements for the Master's degree are 30 graduate credits with an average GPA of 3.0 and satisfactory completion of a master's thesis or non-thesis option. The minimum degree requirements for the PhD are 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence with an average GPA of 3.0, and satisfactory completion of a doctoral dissertation.

Financial Aid for Graduate Students: The Department offers a limited number of Teaching Assistantships (50% appointment), Project Assistantships, and M.J. Read Graduate Fellowships. The TA and PA appointments carry a full tuition waiver. Teaching and Project Assistantships are awarded annually by the Department on a

competitive basis, as are University Distinguished Graduate Student Fellowships, Distinguished Dissertation Fellowships, M.J. Read Fellowships, Non-Resident Tuition Remission Scholarships, and Advanced Opportunity Program (A.O.P.) Fellowships. Faculty members holding research grants also award Research and Project Assistantships. Applications for all awards must be made annually. Forms and deadline information are available from the Geography Department. Master's candidates are usually limited to two years of departmental financial support. Students admitted to the Ph.D. program with Master's degrees are usually limited to four years of departmental support. The Cartography and GIS Center hires students on a part-time basis. Internships are also available in the AGS Library and at various agencies locally.

FACULTY:

- Kirsten Beyer, Ph.D., Iowa, 2009, Adjunct Assistant Professor* — health geography, socio-spatial epidemiology, community engaged research, disease mapping, health inequalities, women's health
- Anne Bonds, Ph.D., Washington, 2008, Associate Professor* — political economy, social theory, critical poverty studies, politics of economic development, urban and regional restructuring
- Woonsup Choi, Ph.D., Illinois-Urbana, 2005, Associate Professor* — hydroclimatology, human impacts on water resources, hydrological modeling
- Alison Donnelly, Ph.D., Trinity College, 1998, Associate Professor* — environmental indicators, climate change, plant and animal phenology, environmental assessment
- Rina Ghose, Ph.D., Wisconsin-Milwaukee, 1998, Professor* — GIS, urban geography, public participation GIS, GIS and society, North America, South Asia
- Jonathan Hanes, Ph.D., Wisconsin-Milwaukee, 2011, Adjunct Assistant Professor* — bioclimatology, plant phenology, vegetation feedbacks to the lower atmosphere, fluxes of energy and mass in forest ecosystems, philosophy of science
- Ryan Holifield, Ph.D., Minnesota, 2007, Associate Professor* — environmental geography, environmental justice, science studies and social theory, North America
- Anna Mansson-McGinty, Ph.D., Lund, 2002, Associate Professor* — gendered geographies, geography of Islam, Scandinavia
- Linda McCarthy, Ph.D., Minnesota, 1997, Associate Professor* — urban and regional economic development/planning, globalization, North America, Europe
- Frederick Nelson, Ph.D., Michigan, 1982, Adjunct Professor* — permafrost, periglacial and climatic geomorphology, topoclimatology, spatial analysis, cryosphere, Arctic
- Mark D. Schwartz, Ph.D., Kansas, 1985, Distinguished Professor* — phenoclimatology, synoptic climatology, remote sensing, plant-climate interactions, climate change
- Kristin Sziarto, Ph.D., Minnesota, 2007, Associate Professor* — social movements and spatiality, political geography, population geography
- Changshan Wu, Ph.D., Ohio State, 2003, Professor* — GIS, remote sensing, spatial analysis methods, urban, transportation
- Zengwang Xu, Ph.D., Texas A&M, 2007, Associate Professor* — GIS, spatial analysis and modeling, complex networks/systems
- Hyejin Yoon, Ph.D., Ohio State, 2008, Associate Professor* — economic geography, urban geography, entrepreneurship, regional innovation systems, urban planning, urbanization

EMERITUS FACULTY:

- Michael Day, D. Phil., Oxford, 1978, Professor Emeritus*
- Glen Fredlund, Ph.D., Kansas, 1992, Associate Professor Emeritus*
- Ludwig Holzner, Dr. rer. nat., Wurzburg, 1964, Professor Emeritus*
- Judith Kenny, Ph.D., Syracuse, 1990, Associate Professor Emerita*
- Norman Stewart, Ph.D., UCLA, 1963, Associate Professor Emeritus*

UNIVERSITY OF WISCONSIN OSHKOSH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1928

DEGREES OFFERED: B.A., B.S.

GRANTED 9/1/17-8/31/18: 8 Bachelors

MAJORS: 33

CHAIR: Angela G. Subulwa

DEPARTMENT ADMINISTRATIVE ASST: Melissa Giddings

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Wisconsin Oshkosh, 800 Algoma Blvd., Oshkosh, Wisconsin 54901-8642. Telephone (920) 424-4105. Fax (920) 424-0292. Internet: <https://geography.uwosh.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin Oshkosh has an enrollment of 11,900 students with 580 Faculty and instructional staff located on the banks of the Fox River near Lake Winnebago in southeastern Wisconsin. The Department of Geography offers a Bachelor of Art and Bachelor of Science degree in geography as well as a minor in geography and a minor in Geography for education majors. The program also offers an undergraduate GIS certificate. The Geography program covers all of the major subfields of geography, with introductory and upper level courses in human and physical geography in addition to training in geographic techniques such as Geographic Information Science courses and cartography. Department facilities include a GIS laboratory with dedicated computers, printers, plotters, scanners, and digitizers. The GIS laboratory is fully networked and has a full suite of ESRI GIS software as well as ERDAS Imagine and other software. Students can earn a GIS certificate with the completion of 12 credits of GIS classes and an additional 3 credits of electives. The department also has well equipped spaces for physical geography lab science courses and additional laboratory facilities for faculty and student/faculty collaborative research that includes: a soils lab, an environmental analysis lab, a paleoecology lab, an integrated conservation research lab, and a human geography lab. Majors are required to take a minimum of 45 credit hours, 21 of which are required courses. The remaining 24 credits can be based on a student's interest within the department course offerings. Geography minors are required to take 22 credit hours.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan:* Semester system. *Admission Requirements:* Director of Admissions, University of Wisconsin-Oshkosh, Oshkosh, Wisconsin 54901. (920) 424-0228. *Financial Aid:* The Financial Aid Office, University of Wisconsin-Oshkosh, Wisconsin 54901. (920) 424-4025.

FACULTY:

Heike C. Alberts, Ph.D., University of Minnesota, 2003, Professor — ethnic geography, population, cultural geography, Europe, Latin America

Elizabeth Barron, Ph.D. Rutgers University, 2010, Associate Professor — nature-society geography, environmental governance and knowledge, science and technology studies, biogeography, North American resource management

Mamadou Y. S. Coulibaly, Ph.D., Southern Illinois University, 2006, Professor — geographic information science, water resources

John A. Cross, Ph.D., University of Illinois, 1979, Professor — natural hazards, agriculture, United States and Canada

Dr. Erin DeMuyne, Ph.D., University of Illinois, 2014, Assistant Professor — cultural geography, urban geography, social & environmental justice, Latin America

Michael Jurmu, Ph.D., Indiana State University, 1999, Professor — geomorphology, fluvial geomorphology, geographic education
Colin J. Long, Ph.D., University of Oregon, 2003, Professor — paleoecology, fire history, climate change

Angela G. Subulwa, Ph.D., University of Kansas, 2009, Associate Professor & Chair — refugees, cultural geography, geopolitics, development, Sub-Saharan Africa

Kazimierz J. Zaniewski, Ph.D., University of Wisconsin-Milwaukee, 1987, Professor Emeritus — cartography, population, ethnicity, Europe

UNIVERSITY OF WISCONSIN- PLATTEVILLE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1959

DEGREES OFFERED: B.A., B.S.

GRANTED 1/1/18-12/31/18: 5 Bachelors

MAJORS: 21

CHAIR: H. Todd Stradford

DEPARTMENT ADMINISTRATIVE ASST: Marsha Weaver

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Geography, 1 University Plaza, Platteville, Wisconsin 53818. Telephone (608) 342-6060. Internet: www.uwplatt.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-Platteville is an institution of 8000 students and 400 faculty located in the Driftless Area in southwestern Wisconsin. The Geography Program offers a liberal arts degree, designed to prepare students for graduate training and careers as professional geographers. In addition, minor programs in geography and environmental science are also offered.

In both cultural and physical instruction, the program has two primary emphases: field study and undergraduate research. Field study programs range spatially from local to international, and include annual trips to the western United States and also to Japan. The geography program maintains a well-equipped GIS/Cartography lab. In addition, we maintain the TREES Lab (Tree Ring, Earth, and Environmental Science Lab), which is fully equipped to support a wide range of research in physical geography, with an emphasis on soil geomorphology, dendrochronology, and biogeography. The TREES Lab is designed to encourage and support research projects by undergraduates, and is funded primarily through external grants. Additional information about the TREES Lab can be found at www.uwplatt.edu/trees. Other physical geography teaching laboratories are well equipped with rock and mineral samples, stream tables and meteorological equipment. The Luther Zellmer Map Library contains a strong collection of a wide assortment of both traditional and digital atlases, maps, and aerial and remote imagery.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Contact the Office of Admissions, University of Wisconsin-Platteville, Platteville, Wisconsin 53818 (608-342-1125) for admission requirements. Financial aid information may be obtained from the Office of Financial Aid, University of Wisconsin-Platteville, Platteville, Wisconsin 53818 (608-342-1836).

FACULTY:

L. Lynnette Dornak, PhD, Kansas, 2012, Assistant Professor — biogeography, GIS, remote sensing

Evan Larson, Ph.D., Minnesota, 2009, Associate Professor — biogeography, dendrochronology, conservation
H. Todd Stradford, Ph.D., Oklahoma, 1994, Associate Professor — rural geography, physical geography, remote sensing, GIS, China, Japan
Christopher Underwood, Ph.D., Tennessee, 2013, Associate Professor — biogeography, charcoal and pollen analysis, environmental geography
James Valiga, MS, 1987, Wisconsin, Instructor — physical geography, remote sensing
Richard A. Waugh, Ph.D., Wisconsin-Madison, 1995, Professor — cultural geography, environmental geography, Latin America, National Parks

ADJUNCT FACULTY:

Isbister, Dong, Ph.D., Ohio State, 2009, Associate Professor — gender geography

UNIVERSITY OF WISCONSIN - WHITEWATER

DEPARTMENT OF GEOGRAPHY, GEOLOGY & ENVIRONMENTAL SCIENCE

DATE FOUNDED: 1963

DEGREES OFFERED: B.A., B.S., B.S.E.

GRANTED 7/1/17 - 6/30/18: 69 Bachelors

MAJORS: 51 Geography, 103 Environmental Science, 33 International Studies

CHAIR: Dr. Margo Kleinfeld

ACADEMIC DEPARTMENT ASSOCIATE: Susie Olson

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Geology, University of Wisconsin-Whitewater, 800 W. Main Street, 120 Upham Hall, Whitewater, Wisconsin 53190. Telephone (262) 472-1071. Fax (262) 472-5633. Email: kleinfem@uww.edu Web: www.uww.edu/csls-geography-geology.

PROGRAM AND RESEARCH FACILITIES: Undergraduate majors and minors are available to students through both the College of Letters and Sciences and the College of Education. Students majoring in geography can emphasize in either Geography or Geology. The department also houses and administers two interdisciplinary majors: Environmental Science and International Studies. The Environmental Science major has three emphases: Natural Science, Geoscience, and Environmental Resource Management. Many courses in this major rely on physical geography, geology, GIS, and resource management courses offered by department faculty. The International Studies major has four emphases taught mostly by affiliated faculty: Business, Foreign Language and Area Studies, International Economics and Public Diplomacy. The department also offers the following minors: Geography, GIS, Geology, Environmental Studies, and International Studies. A GIS Certificate is offered to both majors and nonmajors.

The department offers outstanding computing facilities for student and faculty use. There are two dedicated computer labs for teaching introduction to mapping, introductory and advanced GIS, remote sensing, and applied GIS courses. Forty-six computer workstations are available in these labs, with each containing the full array of ESRI products, Adobe Illustrator, and ERDAS Imagine. The department houses a GIS Center providing services for local and state agencies and non-profit organizations. A technical/research lab is used primarily for climate and remote sensing data analysis. The department maintains the campus weather station and provides access to real time data that is utilized by television stations in Madison and

Milwaukee. Other lab spaces are available for physical geography and geology. Besides introductory physical geography and geology teaching labs, the department has advanced teaching and research labs, including a soils and geomorphology analysis lab with XRD and XRF facilities, and two geology laboratories (hard rock and soft rock). Human geography specialties include urban land-use planning, international development, political geography, and cultural geography including courses on the geographies of gender, race and ethnicity.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system. Applications are available from: Admissions Office, UW-Whitewater, Whitewater, WI 53190. On line application at: <http://www.apply.wisconsin.edu>. Contact Financial Aid Office for routine financial aid opportunities. The department administers the unique Warren and Rose Fischer Scholarship program for Geography majors who have an educational focus. The Fischer Scholarship is renewable each semester for students in good academic standing until the appropriate degree is conferred. The Folkerth Scholarship recognizes an outstanding geography major committed to and effective at promoting geography and working with other students and faculty. The Fok Scholarship is an award for academic excellence in the sciences. Additional awards for outstanding students in all department programs are made annually. Some students are also paid as research, lab, and teaching assistants. Paid and for credit internships with public agencies, private firms, and the GIS Center are also available. The department has a substantial Work Study allocation to provide paid work opportunities for eligible students.

FACULTY:

Prajukti Bhattacharyya, PhD, Minnesota, 2000, Professor — mineralogy, structural geology, environmental geology
Jonathan Burkham, PhD, UW-Milwaukee, 2012, Associate Professor — Latin America, migration, labor market
Rocio Duchesne-Onoro, PhD, Montclair State University, 2015, Assistant Professor — remote sensing, GIS, biogeography
Eric Compas, PhD, UW-Madison, 2008, Professor — political ecology, environmental geography, private land conservation
John Frye, PhD, University of Georgia, 2011, Associate Professor — climatology, meteorology
Rex Hanger, PhD, Berkeley, 1992, Professor — paleontology, stratigraphy, sedimentology, oceanography
Peter Jacobs, PhD, UW-Madison, 1994, Professor — geomorphology, soils
Margo Kleinfeld, PhD, Kentucky, 2005, Associate Professor & Chair — political, human/cultural, feminist and social theory, South Asia
Stephan Levas, PhD, Ohio State, 2012, Assistant Professor — aquatic ecosystems, marine
Jeff Olson, PhD, Ohio State, 2013, Associate Professor — economic, land change, GIS
Andrea Romero, PhD, Kansas, 2013, Assistant Professor — ecology, evolutionary biology, mammal communities
Dale Splinter, PhD, Oklahoma State, 2006, Professor — geomorphology, rivers, stream ecology
Jeffery Zimmerman, PhD, UW-Madison, 2003, Associate Professor — urban geography, cultural geography, planning and social theory

ACADEMIC STAFF:

Jean Kowal, ABD, UW-Milwaukee, Lecturer — physical geography, environmental, global issues

CANADA

ALBERTA

UNIVERSITY OF ALBERTA

DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

DEGREES OFFERED: B.Sc., B.A., M.Sc., M.A., Ph.D.

GRANTED 7/1/2017 - 6/30/2018: 102 B.Sc., 35 B.A., 21 Masters, 15 Ph.D.

STUDENTS IN RESIDENCE: 381 Majors (Science and Arts), 80 Masters, 74 Ph.D.

NOT IN RESIDENCE: 3 Masters, 2 Ph.D.

CHAIR: Stephen T. Johnston

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Alberta, Canada T6G 2E3. Telephone 780-492-3265. Fax 780-492-8190. <http://www.ualberta.ca/eas> E-Mail EAS.Inquiries@ualberta.ca

PROGRAMS AND RESEARCH FACILITIES: Individual graduate programs vary with the interests and training of the candidate. For thesis-based graduate degrees, minimum course requirements are three single-term courses for M.Sc./M.A. candidates who have completed four-year baccalaureate degrees, and six single-term courses beyond the baccalaureate degree for Ph.D. candidates. There are no formal foreign language requirements. The Department also offers course-based professional masters programs in Urban & Regional Planning and Integrated Petroleum Geosciences.

The Department houses laboratories, computing systems and field equipment to support research in various disciplines. Students in Geomorphology, Sedimentology, Geochemistry, Petrology, Climatology, Biogeography, GIS and Remote Sensing use equipment and facilities such as a scanning electron microscope, electron microprobe, powder x-ray diffraction, ion chromatographs, mass spectrometers for stable and radiogenic isotopic analyses, Quadrupole ICP-MS, MC-ICP-MS, an x-ray sedigraph, an extensive thin section preparation facility, a micro-FTIR and continuum infrared microscope, and extensive research collections. Two Class 100 clean laboratories and several cold rooms are available. There is also a full range of field equipment. Students in Human Geography have access to research labs and to expertise in areas such as community development, hazards, healthy environments and sustainability. Students in Planning have access to a dedicated Planning Studio and to expertise in areas such as land use, regional planning, environmental change and urban development.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

There are two regular semesters: September-December and January-April. Special Sessions courses are offered in the period May-August.

The Department offers undergraduate courses leading to the B.Sc. and B.A. degrees, with a choice of General, Specialization and Honors programs. B.Sc. programs are offered in Environmental Earth Sciences, Geology, Paleontology and Urban & Regional Planning. B.A. programs are offered in Human Geography and in Urban & Regional Planning (Major only). For additional information, see our website at <http://www.ualberta.ca/eas> or E-Mail us at EAS.Inquiries@ualberta.ca.

Students can access up to 18 months of work experience in fields related to their academic training through the Science Internship Program and Arts Work Experience.

Graduate Program: A baccalaureate degree with a strong undergraduate academic record, letters of reference and approval of the Department. Application by February 15 is advised if financial assistance from the Department is required. For additional information, see our website at <http://www.ualberta.ca/eas>; E-Mail EAS.Inquiries@ualberta.ca.

FACULTY:

A detailed list of faculty and graduate students and their research interests is available on our Web page at <http://www.ualberta.ca/eas>

UNIVERSITY OF CALGARY

DEPARTMENT OF GEOGRAPHY

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., MGIS, Ph.D.

GRANTED 1/1/17 – 12/31/17: 87 Bachelors, 20 Masters, 6 Ph.D.

CHAIR/PROGRAM COORDINATOR: Dr. David Goldblum

DEPARTMENT/PROGRAM ADMINISTRATIVE

ASSISTANT: Paulina Medori

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Graduate Program, Department of Geography, University of Calgary, ES 356, 2500 University Dr. NW, Calgary, AB, Canada T2N 1N4. Telephone (403) 220-4838. Fax (403) 282-6561. <http://www.geog.ucalgary.ca> E-mail: geograd@ucalgary.ca.

PROGRAMS AND RESEARCH FACILITIES: Programs of undergraduate study include Geography, Urban Studies and Earth Science. Programs of graduate study are offered in most fields of Geography at the masters and doctoral levels (course work and thesis required). A one semester GIS graduate certificate and a course based Masters in GIS (MGIS) is also available. Calgary provides an excellent location and staging area for many forms of geographical research and for issues related to human-environment interactions. The Department is a leader in developing technical expertise to apply to these and many other issues. Faculty members conduct research in the fields of geomorphology, biogeography, climatology, glaciology and cryospheric studies, hydrology, soils, environmental studies, tourism, urban and economic studies, remote sensing, computer cartography, GIS, transportation, medical, health, human, social and historical geography. Research focuses primarily on Western Canada, the Arctic, the Americas and Europe. State-of-the-art research, teaching, computing and analytical facilities and software exist within three 24-seat computing labs. Field equipment and support also is available, and the University Weather Research Station is accessible for faculty and student research. Field stations are used through cooperation with the Kananaskis Centre for Environmental Research, and field education is available for all levels of students for course and research work. Geography participates actively in the Interdisciplinary Graduate Program, Earth Sciences, Environmental Science and Urban Studies programs.

FACULTY:

A detailed list of faculty and graduate students and their research interests is available on our Web page at: www.geog.ucalgary.ca.

UNIVERSITY OF LETHBRIDGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 1991

DEGREES OFFERED: B.A., B.Sc., B.A./B.Sc., B.A./B.Ed., B.Sc./B.Ed., B.A./B.Mgt., B.Sc./B.Mgt., M.A., M.Sc., Ph.D.

STUDENTS IN RESIDENCE: Majors: 69 Geography, 28 Urban and Regional Studies, 27 Archaeology/Geography, 5 Remote Sensing, 136 Environmental Science; 16 Masters; 14 Ph.D.

CHAIR: Craig Coburn

DEPARTMENT ADMINISTRATIVE ASST: Deb Bullock

FOR FURTHER INFORMATION CONTACT: Dr. Craig Coburn, Chair, Department of Geography, The University of Lethbridge, 4401 University Drive W, Lethbridge, Alberta, Canada T1K 3M4. Telephone (403) 332-4561, Fax (403) 329-2016. Email: craig.coburn@uleth.ca. Web: <http://uleth.ca/artsci/geography>.

PROGRAMS AND RESEARCH FACILITIES: Four year undergraduate programs include B.A. and B.Sc. majoring in geography and Archaeology/Geography and a B.A. with a multidisciplinary major in Urban and Regional Studies or Remote Sensing. Geography majors may declare a concentration in "Geographical Information Science," which requires additional courses in geographic information systems, remote sensing, computer cartography and quantitative methods.

The M.A./M.Sc. or Ph.D. Program at the University of Lethbridge encourages graduate students to develop individualized programs of study based on a research thesis supported by course work. Each program is customized to suit the needs and interests of individual students. The application process begins with discussions between a potential applicant and faculty member to investigate the possibility of a supervisory relationship. The applicant and faculty member then collaborate to design a plan of study which specifies the number and nature of courses to be completed and the nature of the thesis research. A PhD program in either a MA or MSc discipline is offered. A bachelor's degree and a master's degree are usually required for acceptance in the PhD program.

The department is well equipped for research, with additional advanced laboratory facilities also available at collaborating Federal, Provincial, and other institutions in the Lethbridge area.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, and FINANCIAL AID: Information for undergraduate admissions and scholarships is handled through the Registrar's Office: <http://www.uleth.ca/ross>. Information for graduate admissions and financial support is available from the School of Graduate Studies: <http://www.uleth.ca/graduatestudies>. A basic level of financial support is provided to each full-time graduate student but most students receive additional support through the research programs of their supervisors.

FACULTY:

René W. Barendregt, Ph.D. Queen's, 1977, Professor — late Cenozoic paleoenvironments, climate proxies, and magnetostratigraphy; extent and timing of continental and montane glaciations
Philip Bonnaventure, Ph.D. Ottawa 2011, Assistant Professor and Coordinator of Environmental Science — permafrost, climate change, mountain meteorology, High Arctic
Shawn Bubel, Ph.D. K.U. Leuven, 2002 Associate Professor of Archaeology — geoarchaeology, postdepositional processes, Plains and Near Eastern archaeology

James M. Byrne, Ph.D. Alberta, 1990, Professor — global environmental change and water resources; GIS applications in climate and hydrology

Laura Chasmer, Ph.D. Queen's, 2008, Assistant Professor — forest and wetland ecosystems, permafrost, Lidar remote sensing

Craig Coburn, Ph.D., Simon Fraser, 2002, Associate Professor and Department Chair — remote sensing, texture analysis, terrain modeling

Maura Hanrahan, Ph.D. London School of Economics and Political Science, 1989, Associate Professor — historical geography of the Arctic, Indigenous and rural water security, drinking water policy, Inuit political geography, Newfoundland Mi'kmaq political geography

Chris Hopkinson, Ph.D., 2002 Professor and Wilfred Laurier University CAIP Research Chair — natural resources assessment and environmental modeling through the integration of GIS and terrestrial, airborne and satellite lidar remote sensing

Hester Jiskoot, Ph.D. Leeds, 1999; Associate Professor — glaciology, ice flow dynamics, glacier-environment interactions, statistical and numerical glacier system analysis,

Daniel Johnson, Ph.D., Vancouver, 1983, Professor — semi-arid ecology, plant-insect-vertebrate interactions, biodiversity

Thomas Johnston, Ph.D. Waterloo, 1989, Associate Professor — human dimensions of environmental change; rural geography and land-use

Stefan Kienzie, Ph.D. Heidelberg, 1993, Professor — spatial analysis, terrain modelling, hydrological modelling, GIS applications in wildlife habitat

Matthew Letts, Ph.D. King's College London, 2003, Professor and Associate Dean — effects of diffuse radiation, photosynthetic uptake and respiratory carbon losses in peatland ecosystems

Kevin McGeough, Ph.D. Pennsylvania, 2005, Professor — historical geography, languages and cultures of near eastern and classical regions, Syro-Palestinian archaeology

Derek R. Peddle, Ph.D. Waterloo, 1997, Professor — remote sensing and GIS, spatial analysis and computational methods

Ivan Townshend, Ph.D. Calgary, 1997, Professor — social change in urban Canada, quantitative methods in human and physical geography

Wei Xu, Ph.D. Guelph, 1998, Professor — China, urban and regional economic development, labour market dynamics, resource assessment, spatial analysis and GIS

Julie Young, Ph.D. York, 2012, Assistant Professor and Canada Research Chair in Critical Border Studies — political geography, critical border studies, refugee and migration policy, practice, and advocacy, North and Central America

BRITISH COLUMBIA

SIMON FRASER UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1965

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/17-8/31/18: 98 Bachelors, 8 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE (9/1/18-04/30/19): 432 Majors, 7 M.A., 19 M.Sc., 30 Ph.D.

CHAIR: Tracy Brennand

DEPARTMENT ADMINISTRATIVE ASSISTANT: Anke Baker

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department Chair, Department of Geography, 8888 University Drive, Burnaby, BC, Canada, V5A 1S6. Telephone (778) 782-3321. Fax (778) 782-5841. E-Mail: geog.info@sfu.ca Web: www.sfu.ca/geography/

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is a founding department of the Faculty of Environment.

Undergraduate Program: The Department of Geography at Simon Fraser University offers three undergraduate degree programs: Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.) and Bachelor of Environment (B.Env.). Courses cover three broad realms: Human Geography, Physical Geography, and Geographic Information Science.

For students with primary interests in Human Geography, the department offers a B.A. with emphasis on social, urban, and economic themes. Additionally, students may enroll in an interdisciplinary Certificate in Urban Studies. In the Physical Geography B.Sc., two concentrations are available: (1) *Biogeophysical Science* exposes students to a broad range of environmental sciences including geomorphology, climatology, hydrology, soil science, and biogeography, allowing interested students to work toward registration as a Professional Agrologist; (2) *Geoscience* is similarly broad-ranging but provides the academic requirements to apply for registration as a Professional Geoscientist. For students interested in a degree that focuses on physical and human geography in equal measure, the department offers a B.Env. in Global Environmental Systems. Two joint majors are also available: a Geography & Business B.A. with the Beedie School of Business, and a B.Sc. in Geographic Information Science with the School of Computing Science.

Geographic Information Science at Simon Fraser encompasses 2D and 3D GIScience, spatial data analysis and modelling, geovisualization, remote sensing and cartography. All degree programs involve GIScience coursework, and all Geography students can supplement their degree with a Certificate in Geographic Information Science.

For more undergraduate program information, please see: <http://www.sfu.ca/geography/undergraduate-programs.html>.

Graduate Program: The Department of Geography at SFU has a tradition of research excellence in a diversity of disciplines, spanning human geography, earth system dynamics, and geographic information science. The majority of graduate research is conducted in western North America, although research further afield is not uncommon. Facilities for advanced work include well-equipped soils, geomorphology, biogeography, climatology, GIS and human geography laboratories.

M.A., M.Sc. and Ph.D. programs: The department has six broad research foci: The City, Geographical Political Economies, Global Environmental Change, Water Science, Spatial Information Theory and Spatial Health. Faculty from across the department contribute to each of these areas of interest, and thesis work in the program generally engages one or more of these research foci. Graduate research is particularly encouraged in the following areas: climate science, geomorphology, hydrology, biogeochemistry and soil science; geographic information science, geovisualization and remote sensing; health geography, political geography, urban geography, economic geography, cultural geography, social theory and political economy.

For information on these specializations, faculty members, and detailed information concerning all aspects of the graduate program, please visit the [departmental website](#), and/or contact the Department.

GRADUATE ADMISSIONS REQUIREMENTS AND FINANCIAL AID:

Admission Requirements: Generally, admission to the Graduate Program is in the Fall semester, and applications should be complete by January 22 of the admission year. Masters candidates should have an undergraduate grade point average of 3.25. Candidates for the Master's degree are expected to complete the degree (30 credit hours) in six terms. Requirements include a thesis (18 credit hours) and 12 credit hours of required and elective courses. M.A. applicants are expected to show or acquire competence in a range of the social theory and methodological approaches informing contemporary human geography. M.Sc. applicants normally hold a B.Sc. degree or equivalent in geography, environmental or earth science or a related discipline.

The Ph.D. program has no required courses; any coursework is determined in consultation with the supervisor. Admission to pursue the doctoral degree is granted only when the department has evidence of the candidate's ability to work at the most advanced level and produce a satisfactory dissertation. Prospective graduate students should contact individual faculty members in advance of applying for admission.

FINANCIAL AID: Graduate students are typically funded through a combination of Research Assistantships, Teaching Assistantships, and/or internal and external scholarships. Limited funds are also available to support student travel.

FACULTY:

Shivanand Balram, Ph.D., McGill, 2005, Senior Lecturer — spatial information science, quantitative geography, spatial decision support

Nicholas Blomley, Ph.D., Bristol, 1986, Professor — law, property, the city

Tracy Brennand, Ph.D., Alberta, 1993, Professor & Chair — glacial geomorphology and sedimentology, paleogeology, paleohydrology, quaternary environmental change

Alex Clapp, Ph.D., UC-Berkeley, 1993, Professor — economic geography, resource conservation, forest policy

Rosemary Collard, Ph.D., UBC, 2014, Assistant Professor — political ecology, feminist political economy, capitalism, wildlife management, biodiversity loss

Valorie Crooks, Ph.D., McMaster, 2005, Professor — medical/social geography, health care, disability and chronic illness

Suzana Dragicevic, Ph.D., Montreal, 1999, Professor — GIS, spatial analysis and modeling, geosimulation, complex systems

Nick Hedley, Ph.D., Washington, 2003, Associate Professor — geovisualization, GIS, cartography, augmented reality, geospatial interface and virtual environments

Meg Holden, Ph.D., New School for Social Research, NY, 2004, Professor — urban environmental and pragmatic philosophy, urban sustainable development, social learning, public policy

Tara Holland, Ph.D., University of Guelph, 2014, Lecturer — science education, climate change adaption

Paul Kingsbury, Ph.D., Kentucky, 2003, Professor; Associate Dean, Undergraduate, Faculty of Environment — cultural geography, psychoanalysis, social theory, paranormal cultures

Paul Kingsbury, Ph.D., Kentucky, 2003, Professor — cultural geography, psychoanalysis, social theory, paranormal cultures

Lance Lesack, Ph.D., UC-Santa Barbara, 1988, Professor — ecosystem biogeochemistry, land and water interactions, limnology

Geoff Mann, Ph.D., UC-Berkeley, 2003, Professor — political economy, capitalism, macroeconomic policy, politics of climate change

Eugene McCann, Ph.D., Kentucky, 1998, Professor — urban politics and policy, cultural politics and local economic development

Andrew Perkins, Ph.D., Simon Fraser University, 2015, Lecturer — hazards, geochronology, paleogeology

Margaret Schmidt, Ph.D., British Columbia, 1992, Associate Professor — soil science, forest soils, digital and predictive soil mapping, spatial patterns of soil properties

Nadine Schuurman, Ph.D., British Columbia, 2000, Professor — GIS, health geography, spatial data, ontologies, metadata, critical GIScience

Jeremy Venditti, Ph.D., British Columbia, 2003, Professor; Director of the Environmental Science Program — fluvial geomorphology and sedimentology, landscape dynamics, morphodynamic modeling of river sediment

Kirsten Zickfeld, Ph.D., Potsdam, 2004, Associate Professor — climate change science, climate projections, climate-carbon cycle feedbacks, carbon budget, earth system modeling

Ivor Winton, Ph.D., Minnesota, 1987, Senior Lecturer — population, history of geographical thinking

ASSOCIATE MEMBERS:

Martin Andresen, Ph.D., UBC, 2006, Professor (School of Criminology) — applied spatial statistics, spatial crime analysis, regional trade patterns

Yildiz Atasoy, Ph.D., University of Toronto, 1998, Professor (Department of Sociology & Anthropology) — global political economy, political sociology, state restructuring, social change and development, political economy of agrifood systems, neo-liberal urbanism

Clint Burnham, Ph.D., York University, Associate Professor (Department of English)

Jeff Derksen, Ph.D., University of Calgary, 2000, Associate Professor (Department of English)

Peter Hall, Ph.D., UC-Berkeley, 2002, Professor (Urban Studies Program) — port cities, logistics, employment, community development, urban economies

Kirsten McAllister, Ph.D., Carleton University, 1999, Associate Professor (School of Communication)

Kendra Strauss, D.Phil., University of Oxford, 2008, Assistant Professor (Department of Sociology & Anthropology) — labour geography, economic geography, feminist political economy, social reproduction, legal geography, pensions

Joseph E. Taylor III, Ph.D., University of Washington, 1996, Professor (Department of History) — environmental history of fisheries, recreation, gentrification, outdoor sports, and public lands

Pascal Haegeli, Ph.D., University of British Columbia, 2004, Assistant Professor (Resource & Environmental Management) — avalanche risk management, avalanche hazard, backcountry recreation, risk communication, climate change

ADJUNCT FACULTY:

Nathan Gillet, D. Phil., Oxford, 2002 — climate change modelling and attribution

Brandon Heung, Ph.D., Simon Fraser University, 2017 — soil science, GIS, spatial analysis and modelling, digital soil mapping, machine learning

Ray Kostaschuk, Ph.D., McMaster, 1984 — fluvial hydrology, geomorphology

Olav Lian, Ph.D., Western Ontario, 1997 — quaternary sedimentology and stratigraphy, glacial geology, geomorphology and geochronology

Christiana Miewald, Ph.D., University of Kentucky, 2000 — food security, urban agriculture, gender and sexuality, gentrification

Lenore Newman, Ph.D., York University, 2004 — food security, sustainable cities, culinary geography, nature/culture interface

Janet Sturgeon, Ph.D., Yale, 2000 — human geography of contemporary Asia

Kevin Ward, Ph.D., University of Manchester, 1998 — economic development, policy mobilities, urban and regional policy economy

EMERITI FACULTY:

Robert C. Brown, Ph.D., Michigan State, 1967 — fisheries geography, resources development

Len Evenden, Ph.D., Edinburgh, 1970 — urban, local government

Alison Gill, Ph.D., Manitoba, 1982, Professor — coastal tourism, resort development, secondary homes, tourism in mountain communities

Roger Hayter, Ph.D., Washington, 1973 — BC's forest economy, environmental economic, geography of the evolutionary firm

Edward Hicken, Ph.D., Sydney, 1971 — fluvial geomorphology and sedimentology

John Pierce, Ph.D., London School of Economics, 1976 — economic and rural geography, research methodology

Thomas Poiker, Ph.D., Heidelberg, 1966 — economic, quantitative, computer cartography, GIS

Michael Roberts, Ph.D., Iowa, 1966 — fluvial geomorphology, field methods

Arthur Roberts, Ph.D., York, 1982 — remote sensing, photogrammetry, cultural, historical, paleoenvironments

Shue Tuck Wong, Ph.D., Chicago, 1968 — resources management, quantitative methods

RETIRED FACULTY:

Robert Horsfall, Ph.D., Johns Hopkins, 1969 — social geography, environmental psychology

Ian Hutchinson, Ph.D., Simon Fraser, 1977 — quaternary environments, coastal systems

P.M. Koroscil, Ph.D., Michigan, 1970 — historical, Canada

Janet Sturgeon, Ph.D., Yale, 2000 — human geography of contemporary Asia

UNIVERSITY OF BRITISH COLUMBIA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1923

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/17-8/31/18: 154 Bachelors, 11 Masters, 15 Ph.D.

STUDENTS: 28 Minors, 630 Majors, 31 Masters, 74 Ph.D.

HEAD: Geraldine Pratt

DEPARTMENT ADMINISTRATIVE ASST: Connie Cheung

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Advisor, Department of Geography, 1984 West Mall, University of British Columbia, Vancouver, British Columbia, Canada V6T 1Z2. Telephone (604) 822-2663. Fax (604) 822-6150. E-mail: connie.cheung@geog.ubc.ca (Administrative Enquiries); gradprog@geog.ubc.ca (Graduate Enquiries). Web: www.geog.ubc.ca.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at UBC is widely acknowledged as one of the leading departments in the world in terms of its research accomplishments. The scholarly interests of faculty members and graduate students encompass a wide range of subject areas, philosophical approaches, methods of analysis, and geographical locations. The Geography Department at UBC has its own building with the following facilities: geomorphological, biogeographical, and climatological laboratories; modern computer network and GIS laboratories; office space for graduate students. One of the main resources located inside the Geography building is the Geographic Information Centre, which offers support services for Geography undergraduate & graduate students, faculty and the general public. Holdings include maps specializing in BC, atlases, books, video recordings, course reserves

on geographical topics, and BC's largest air photo collection. The holdings form a teaching, reference and research centre located in the Department of Geography.

Undergraduate Programs: The UBC Department of Geography offers three undergraduate programs; two BA programs (Human Geography and Environment and Sustainability) and one BSc program (Geographical Biogeosciences). We also offer a Minor and a Honours option under the Human Geography program.

1. The Environment and Sustainability program offers an integrated understanding of physical, ecological, economic, socio-cultural and political systems, as they shape the world and influence life. Finally, Geographical Sciences, also known as Physical Geography, is fundamentally concerned with the interactions between the Earth's biosphere and its atmosphere, hydrosphere, and geosphere. The program emphasizes the environmental consequences of global change and field-based research.

2. Programs in *Geographical Sciences* have a strong natural science emphasis. They focus on physical and ecological systems at or close to the earth's surface, and the interaction of these systems with people. The specialization options include: Biogeography (forest and plant ecology; Arctic environments); Climatology (air pollution; meteorology; mesoscale modeling; urban climatology, climate change, biogeochemistry); GIS and remote sensing; Geomorphology (landscape evolution, watershed geomorphology; hillslope geomorphology and mass movements; fluvial sediment transport, fluvial geomorphology and river ecology); Hydrology (surface water, snow hydrology; water quality, energy and mass balance).

3. The Human Geography program concentrates on four main areas of study: Cultures and Places, Cities and Globalization, Nature and Society, and Research and Methods, across the geographic regions of Canada, East and Southeast Asia, the Middle East, Europe, Africa and Latin America. It explores the connections between human geography and political economy, social theory, cultural studies, and pursue the implications for interpreting changes in past and present landscapes. Major areas of specialization are: Economic Geography (Marxist and post-Marxist theories of the space-economy; analytical modelling; development theory; industrial restructuring and technological change); Feminist Geography (gender, sexuality and geography); Historical Geography (environmental history, colonialism and imperialism, urbanization, with a particular focus on North America (especially Canada), Europe, Latin America, East and Southeast Asia and Australasia); Social and Cultural Geography (international migration; popular culture and the geography of everyday life; ethnicity-race, class, and gender; consumption, place, and landscape). Work in these fields often feeds into a strong general interest in Urban Geography (urban systems, urban growth and restructuring, social and economic change, with a particular focus on North America and Asia) and intersects with work in Environmental Geography (environmental sustainability, environmental policy, water use and management, political ecology, community development). Programs in *Regional Geography* focus upon the following areas: Canada (especially Western Canada); Asia and the Pacific Rim (especially East and Southeast Asia); Russia and Eastern Europe; and Latin America (especially Mexico).

Graduate Programs: The Department of Geography at UBC offers MA, MSc, and PhD programs that introduce students to independent research while broadening and deepening their contact with a selected aspect of Geography.

Programs in physical geography have a strong natural science emphasis. They focus on physical and ecological systems at or close to the earth's surface, and the interaction of these systems with people. The major substantive specializations are biogeography, climatology, GIS and remote sensing, geomorphology, and hydrology.

Programs in human geography are more pluralistic. Many projects explore the connections between human geography and political economy, social theory, and cultural studies and pursue their substantive implications for interpreting changes in past and present landscapes. Other work focuses on the political and policy aspects of these changes. Major areas of specialization are development geography, economic geography, feminist geography, historical geography, and social and cultural geography. Work in these fields often feeds into a strong general interest in urban geography and intersects with work in environmental geography.

The Department participates actively in many interdisciplinary programs: Polar and Alpine, Asian Studies, Canadian Studies, Community and Regional Planning, Comparative Literature, Global Studies, Hydrology, International Relations, Latin American Studies, Liu Centre for the Study of Global Issues, Remote Sensing, Resource Management and Environmental Studies, Sustainable Development, Transportation Studies, Urban Studies, and Women's Studies. Field studies include ongoing projects in the Western Arctic and Cordilleran regions of Canada.

A guide to graduate studies in Geography is available at <http://www.geog.ubc.ca/graduate/>.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan:* Academic year, September 1 - August 31. Terms: September 1 - December 31, January 1 - April 30, and May 1 - August 31.

Admission Requirements: Graduate applicants must meet the requirements as outlined at <http://www.geog.ubc.ca/graduate/prospective-students/how-to-apply/>. Applicants from related fields will be considered.

Financial Aid: The Department ensures all graduate students are provided with financial support of at least \$23,000 per year for the first four years of their PhD studies or the first two years of their Master's degree studies. Sources of funding for graduate students typically consists of Graduate Support Initiative (GSI) awards, teaching assistantships and/or research assistantships, and external scholarships. GSI is available for superior students and all applicants are automatically considered for these awards. Teaching assistantships with competitive stipends are available from September to April. The University of British Columbia also offers Four Year Doctoral Fellowships (4YF). NSERC, SSHRC, and CIHR scholarships are tenable at UBC. Students should consult these organizations' websites for application procedures.

FACULTY:

Karen J. Bakker, Ph.D., Oxford, 1999, Professor and Canada Research Chair — environmental, development, water

Trevor J. Barnes F.R.S. C; Ph.D., Minnesota, 1983, Professor and Distinguished University Scholar — economic, urban, history of geography

Luke R. Bergmann, Ph.D., Minnesota, 2012, Associate Professor and Canada Research Chair — geographical informational science, economic geography, nature-society relations, globalization, China

Loch T. Brown, Ph.D., Sussex, 2007, Senior Instructor — development, collective action, associational dynamics, political ecology, West Africa

Michelle D. Daigle, Ph.D., Washington, 2015, Assistant Professor — indigenous geographies of dispossession, resistance and resurgence, Indigenous feminism, settler colonialism, Indigenous water governance, food sovereignty

Jessica A. Dempsey, Ph.D. British Columbia, 2011, Associate Professor — political ecology, feminist political economy/ecology/science studies, green finance, biodiversity conservation

Simon D. Donner, Ph.D., Wisconsin, 2002, Professor — climatology, biogeochemistry, hydrology, aquatic ecology, climate policy

Brett C. Eaton, Ph.D., British Columbia, 2004, Professor — fluvial geomorphology, sediment transport, aquatic habitat, impacts of hydropower generation

Matthew D. Evenden, Ph.D., York, 2000, Professor and Associate Dean — environmental history, historical, water and Canada

James F. Glassman, Ph.D., Minnesota, 1999, Professor — development, Third World urbanization, economic, political, Southeast Asia

Derek J. Gregory, F.B.A.; F.R.S.C.; Ph.D., Cambridge, 1981, Peter Wall Distinguished Professor — political and cultural geographies of late modern war, especially in the Middle East and Afghanistan-Pakistan; histories/geographies of bombing

Marwan Hassan, Ph.D., Jerusalem, 1989, Professor and Head — fluvial geomorphology, ecogeomorphology, landscape evolution, water resources

Greg H. R. Henry, Ph.D., Toronto, 1987, Professor — plant ecology, tundra ecosystems, biogeography

Sally A. Hermansen, M.A., Queens, 1984, Professor of Teaching — cartography, geographic information science, remote sensing

Nina Hewitt, Ph.D., York, 1999, Instructor — ecosystem fragmentation, alpine ecosystems, forest ecology, biography

Dan J. Hiebert, Ph.D., Toronto, 1987, Professor — urban, immigration, Canada

Sarah Hunt, Simon Fraser, 2014, Assistant Professor — legal geography and critical Indigenous studies of law, justice, violence, resistance in neocolonial relations

Brian Klinkenberg, Ph.D., Western Ontario, 1988, Professor — geographic information science, biodiversity informatics, medical biogeography

Sara H. Knox, Ph.D., Berkeley, 2016, Assistant Professor — micrometeorology, biogeochemistry, ecosystem ecology, hydrology

Michele Koppes, Ph.D., Washington, 2007, Associate Professor — Quaternary geomorphology, glaciology, paleoclimate reconstruction, alpine and polar regions

Merje Kuus, Ph.D., Syracuse, 1999, Professor — political, geopolitics, policy, contemporary Europe

Philippe A. Le Billon, Ph.D., Oxford, 1999, Professor — war, disasters, development, political geography, resource conflicts

Ian G. McKendry, Ph.D., Canterbury, 1985, Professor — air pollution meteorology, aerosol science, synoptic climatology

Siobhán R. McPhee, PhD, Dublin, 2012, Senior Instructor — place making and geoaware digital storytelling, geographical education, internationalization of curriculum, labour geography, migration

R. Dan Moore, Ph.D., Canterbury, 1984, Professor — forest hydrology, hydroclimatology, snow and glacier hydrology, riparian processes, physical water quality

Jamie A. Peck, AcSS, Ph.D., Manchester, 1988, Professor and Canada Research Chair in Urban and Regional Political Economy — economic geography, urban and regional restructuring, labor studies, statecraft, economic regulation and governance

Geraldine J. Pratt, Ph.D., British Columbia, 1984, Professor and Canada Research Chair — feminist geography, migration, performance, dementia care

Naomi B. Schwartz, Ph.D., Minnesota, 2017, Assistant Professor — landscape ecology, disturbance, tropical ecosystems, forest dynamics

Juanita R. Sundberg, Ph.D., Texas, 1999, Associate Professor — feminist geography, politics of conservation, Latin America, United States-Mexico border

Jennifer L. Williams, Ph.D., Montana, 2008, Assistant Professor — biogeography, population ecology, climate change and plant population dynamics, spread of populations through heterogeneous landscapes

Elvin K. Wyly, Ph.D., Minnesota, 1995, Professor — urban, housing, gentrification, quantitative methods, media studies

EMERITI FACULTY:

Michael J. Bovis, Ph.D., Colorado, 1974, Associate Professor Emeritus — geomorphology, landslides

Michael A. Church, O.C.; F.R.S.C.; D.Sc. Dunelm, 2008, Professor Emeritus — geomorphology

Richard Copley, ABD, UC Berkeley, 1966, Senior Instructor Emeritus — cultural landscapes of China and Japan

Ken G. Denike, Ph.D., Pennsylvania, 1973, Assistant Professor Emeritus — urban, quantitative methods, transportation

David W.C. Edgington, Ph.D., Monash, 1986, Professor Emeritus — economic, urban economic, Japan, Asia Pacific

R. Cole Harris, O.C.; F.R.S.C.; Ph.D., Wisconsin, 1964, Professor Emeritus — historical, Canada

David F. Ley, F.R.S.C.; Ph.D., Pennsylvania State, 1972, Professor Emeritus — immigration, gentrification, housing markets, urban social geography

David M. McClung, Ph.D., Washington, 1974, Professor Emeritus — snow and avalanche science and engineering

Terry G. McGee, Ph.D., Wellington (New Zealand), 1969, Professor Emeritus — Third World cities, East and Southeast Asia

Margaret E. A. North, M.A., Kansas, 1961, Senior Instructor Emerita — plant geography

Robert N. North, Ph.D., British Columbia, 1968, Associate Professor Emeritus — economic development, former USSR and its successor nations

Tim R. Oke, O.C.; F.R.S.C.; Ph.D., McMaster, 1967, Professor Emeritus — climatology (urban and micro)

Alfred H. Siemens, Ph.D., Wisconsin, 1964, Professor Emeritus — cultural, Latin America

H. Olav Slaymaker, Ph.D., Cambridge, 1968, Professor Emeritus — geomorphology/hydrology, mountain environments

Graeme C. Wynn, F.R.S.C.; Ph.D., Toronto, 1974, Professor Emeritus — historical, environmental, Canada, New Zealand

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

GEOGRAPHY PROGRAM

DATE FOUNDED: September 1994

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/17 – 8/31/18: 6 Bachelors, 3 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 11 Masters, 6 Ph.D.

CHAIR: Catherine Nolin

DEPARTMENT ADMINISTRATIVE ASST: Michelle Keen

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Geography Program, UNBC, 3333 University Way, Prince George, BC, Canada, V2N 4Z9. Telephone (250) 960-5832. Fax (250) 960-6533. E-mail: catherine.nolin@unbc.ca. Internet: <http://www.unbc.ca/geography/>.

PROGRAMS AND RESEARCH FACILITIES: Geography offers undergraduate degrees (BA, BSc), minors in physical geography, human geography, geomorphology and GIS, and graduate degrees (MA, MSc, MNRES, PhD) in Natural Resources and Environmental Studies (NRES - GEOG). We emphasize an interdisciplinary academic approach with foci on cold environments, the Canadian and circumpolar North, First Nations/indigenous issues, community development in rural and remote places, health geography and international studies. An active co-operative education program enables further practical experience for students, while Geography offers overseas and local field schools. UNBC has complete wet and

dry lab facilities, GIS lab, High Performance Computing lab, and a state-of-the-art Social Sciences lab on campus; off-campus facilities include a River Research Center and two Research Forests. Please visit website for more information on facilities and equipment, as well as on faculty research and graduate opportunities.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: Information on admission requirements and application forms for admission are available from the Registrar. Program information can be obtained from the Chair.

FACULTY:

Gail Fondahl, Ph.D., Berkeley, 1989, Professor — local criteria and indicators of sustainable forest co-management; indigenous land rights and land claims in Russian North; Arctic social indicators; community-based research

Greg Halseth, Ph.D., Queen's, 1993, Professor and Canada Research Chair in Rural and Small Town Studies — community development/community economic development; restructuring in resource dependent towns; rural and regional development

Neil Hanlon, Ph.D., Queen's, 1998, Professor — health service delivery in rural and remote locations; social determinants of health in rural and remote BC; impacts of distributed medical education programs on their host communities; social and geographical determinants of health

Christine Jackson, B.Ed., 1995, Western Ontario, B.Sc., UBC, 1987, Senior Lab Instructor Earth Sciences — enhancing student experiences in environmental education, physical environment

Zoë Meletis, Ph.D., Duke, 2008, Associate Professor — tourism development, amenity migration, and aesthetics; development and change in Down East, North Carolina; ecotourism in Tortuguero, Costa Rica; participant perceptions of community gardening

Brian Menounos, Ph.D., UBC, 2002, Professor — past and present glacier fluctuations; paleo-environmental reconstruction; sediment budgeting and sediment transport in mountain environments

Catherine Nolin, Ph.D., Queen's, 2000, Associate Professor — qualitative methods; social geography of migration in rural and remote British Columbia; social impacts of Canadian mining in Guatemala; impunity, 'development', and political violence in Guatemala

Ellen Petticrew, Ph.D., McGill, 1989, Professor — landscape scale linkages between terrestrial and aquatic systems; bio geomorphology: influence of organisms on physical attributes of aquatic systems; landscape disturbances on sediment transfers (fire, forest harvesting, agriculture); ecological implications of transfers and storage of fine sediment in rivers and lakes; fine sediment morphology and composition (flocculation processes); lake restoration and community stewardship

Joseph Shea Ph.D., UBC, 2010, Assistant Professor — snow, glaciers, climate change, hydrology, mountains; unmanned air vehicles (UAV); remotely piloted aerial systems (RPAS); remote sensing; satellites

Roger Wheate, Ph.D., St. Andrews, 1996, Associate Professor — cartographic design incorporating remote sensing and GIS processing; glacier mapping from remote sensing in northern BC

ASSOCIATED FACULTY AT UNBC:

Ping Bai, M.Sc., Windsor, 1996, Senior Lab Instructor GIS — computer science; GIS; problem solving and modeling in forest, geography, social science; software development in graphic user interface design; web development

Scott Emmons, B.Sc., UNBC, 1998, Senior Lab Instructor, GIS — technologies emerging in geomatics to provide a network of spatially linked data sharing nodes connecting communities in Northern British Columbia

Peter Jackson, Ph.D., UBC, 1993, Professor — analytical and numerical wind-field modeling; meso- and synoptic scale meteorology; air pollution

ADJUNCT FACULTY:

Sam Albers, M.Sc., UNBC, 2011 — function of aquatic ecosystems and their responses to nutrient and contaminant inputs

Matthew Beedle, Ph.D., UNBC, 2013 — glaciology; climatology; remote sensing; science communication

Sarah de Leeuw, Ph.D., Queen's, 2007 — indigenous health; cultural geography; post-colonialism

Sean Markey, Ph.D., SFU, 2003 — sustainable community development; resource communities; social economy; regional development; rural development

Marleen Morris, M.Sc., Oxford, 2009 — public administration; community development; social policy

John Rex, Ph.D., UNBC, 2009 — Pacific salmon ecology; sediment flocculation; nutrient cycling

Grahame Russell — human rights and political violence in Guatemala and Honduras

UNIVERSITY OF THE FRASER VALLEY

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 1992

DEGREES OFFERED: B.A. Geography; B.Sc. Physical Geography

DEGREES GRANTED/EXPECTED 9/1/18 - 8/31/19: B.A.

Granted: 14 Majors, 5 Extended Minors, 11 Minors, 3 Honours; B.Sc. Granted: 5 Majors, 2 Minor, 1 Honours

DEPARTMENT/PROGRAM ADMINISTRATIVE

ASSISTANT: Leah Sperling

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: University of the Fraser Valley, 33844 King Rd., Abbotsford, British Columbia, V2S 7M8, Canada. Telephone (604) 504-7441, Ext. 4723. Fax (604) 504-3619. E-mail: geoginfo@ufv.ca Internet: www.ufv.ca/geography/.

PROGRAMS AND RESEARCH FACILITIES:

Programs: UFV Geography and the Environment (GATE) believes students learn best in applied as well as classroom settings, and integrates field study, laboratory experience, geomatics, and regional study into its programs. The department offers a major, Honours major, extended minor, and minor in Geography (BA) and a major, Honours major, and minor Physical Geography (BSc). Students can also complete a certificate in GIS. The department is also home to a BA degree in Global Development Studies. Co-operative Education, Work Study and Research Assistantships options are available. Faculty and students conduct research and study in Canada and internationally. Faculty run 5-6 day field schools (Adventures in Geography) in Western Canada and the Pacific Northwest, as well as 2-3 week study tours in the western US, India, and Mexico. Internship students also complete course and funded and unfunded placements in India, Tanzania, China, and Canada.

The BA major program encompasses a broad range of subjects that characterize the modern discipline of Geography. The first two years of the program provides an introduction to human, physical, regional, and technical geography. The latter two years allow for greater specialization in one of these sub-fields. BA students usually pursue a concentration in Environmental Science, Global Studies, and/or Urban Studies and Planning, and concentrations can be completed as part of an Honours degree. Field trips, community-based research, and lab science are emphasized. Directed studies and directed readings options are available.

The BSc major program focuses on four key sub-fields of Physical Geography: biogeography/ soils, climatology and hydrology, geomorphology, and water quality, in addition to technical geography courses in GIS, remote sensing, and modeling. Students engage in laboratory and field-based data collection, and many pursue additional research experience in one of the department's research facilities.

Interdisciplinary Programs: Geography faculty are involved in research and degree initiatives in Agriculture and Food Security, Borderlands Studies (with Western Washington University), GIS, Global Development, Environmental Studies, Indigenous Studies, Indo-Canadian Studies, Migration and Citizenship, Peace Studies, Science Communications, and the Global Rivers Observatory with Woods Hole Oceanographic Institution.

Research Facilities: The UFV Department of Geography and the Environment is home to the Luminescence Dating Lab, the Paleocology Lab, and Watershed Research Lab. A GIS and Food Security studies lab is planned. The Department maintains a comprehensive classroom-oriented mineral, map and aerial photo collection, a student computer lab, full capacity GIS software and hardware, current meters, surveying and GPS equipment, water quality testing probes, and weather monitoring and soils analysis instruments.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Three terms: Fall (Sept-Dec); Winter (Jan-Apr), and condensed and full-term courses in Summer (May-Aug) term. Courses offered at multiple campuses: Abbotsford, Chilliwack, and Mission, BC, and in Chandigarh, India. Degree: 120 credits, minimum 2.0 CGPA; Honours: 120 credits, minimum 3.33 CGPA. Requirements for entry into the BA and BSc programs vary. Financial assistance, including loans, bursaries, scholarships, and work-study, is available. Information on financial aid and criteria for program entry are found in the UFV calendar, available at: www.ufv.ca/home.htm.

FACULTY:

Carolyn Atkins, MSc., Saskatchewan, 1994, Lab Instructor — physical geography
John Belec, Ph.D., Queens, 1988, Associate Professor — urban studies, housing studies, Canada, borderlands
Cherie Enns, Ph.D. Candidate, Darmstadt University (Germany), Associate Professor — new urbanism, community and sustainable development, children and the city, history of planning
Claire Hay, M.Sc., Alberta, 1998, Associate Professor — geomorphology, regional geography, geographic techniques
Jonathan Hughes, Ph.D., Simon Fraser, 2002, Associate Professor — biogeography, paleoecology, dendrochronology, paleoseismology
Olav B. Lian, Ph.D., Western Ontario, 1997, Associate Professor — quaternary sedimentology, stratigraphy, paleoenvironments, geochronology, paleoecology of non-glacial intervals, paraglacial sedimentation, Loess-Paleosol sequences, Holocene Aeolian activity
Steve Marsh, M.Sc., Regina, 1988, Associate Professor — climate change, water quality, environmental studies
Kathy Peet, BSc, University of Northern British Columbia, 1997, Lab Instructor — physical geography
Michelle J. Rhodes, Ph.D., Simon Fraser, 2002, Associate Professor — resource/ economic geography, geopolitics, housing studies, tourism, environmental studies
Scott Shupe, Ph.D., Arizona, 2000, Associate Professor — geographic information science (GIS, remote sensing), land use/ land cover mapping and monitoring, natural resources, arid lands
Stefania Pizzirani, PhD. Massey University, 2016. — environmental resource management, indigenous research
Afia Raja, PhD. Texas A&M, 2012. — urban planning, sustainable transportation, GIS

EMERITUS FACULTY:

David Gibson, M.A., University of California-Davis, 1969, University College Professor Emeritus — cultural geography, Mexico

CANADA RESEARCH CHAIR (TIER II):

Lenore Newman, Ph.D., York, 2004, CRC in Food Security and Environment — Canada's food cultures/ systems, agriculture lands conservation, food and the city, sustainable food systems

ADJUNCT FACULTY:

Alex Awiti, Ph.D. Nairobi, 2006 — ecosystems ecology
John Clague, Ph.D., British Columbia, 1973 — natural hazards, quaternary geology
Lionel Pandolfo, Ph.D., Yale, 1992 — synoptic climatology, climate variability, modeling
Bernhard Puecker-Ehrenbrink, Ph.D., Max Planck Institute (Germany), 1994 — Global Rivers Project (WHOI), geochemistry
Tatu Mtwambi Limbumba, Ph.D., KTH, Stockholm, 2010 — built environment, infrastructure & planning
Dan Selbie, Ph.D., Queen's, 2008 — fisheries (salmon) and aquatic ecology, paleolimnology

UNIVERSITY OF VICTORIA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/18-4/1/19: 178 Bachelors, 3 M.Sc., 1 M.A., 8 Ph.D.

STUDENTS IN RESIDENCE: 627 Majors, 22 Masters, 21 Ph.D.

NOT IN RESIDENCE: 13 Masters, 19 Ph.D.

CHAIR: Johannes Feddema

DEPARTMENT ADMINISTRATIVE OFFICER: John Fowler

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Victoria, PO Box 1700, Victoria, British Columbia, Canada V8W 2Y2. Telephone (250) 721-7327, Fax (250) 721-6216. Email: geoginfo@uvic.ca. World Wide Web: <http://www.uvic.ca/socialsciences/geography/>

PROGRAMS AND RESEARCH FACILITIES: UVic Geography faculty members conduct research all over the world, from understanding climate impacts on water resources, and conserving critical species and their habitats, to empowering the "binners" in Victoria, BC and Sao Paulo, Brazil through community-engaged research. All faculty members have vibrant, active research programs with varied socially and scientifically relevant foci, including: climate change impacts and adaptations; coastal zone; community-based research; geomatics; geomorphology and quaternary science; health and society; climate change and hydro-climatology; international development; landscape ecology, biogeography, and spatial ecology; marine aquaculture; protected areas planning and management; and Arctic sea ice variability.

Our research facilities are comprised as follows: Physical Geography labs include Climate Change and Weather, Coastal Dynamics, and the University of Victoria Tree Ring Lab. Applied Conservation Science, Coastal and Ocean Resources Analysis, Landscape and Wildlife Ecology, Marine Protected Areas Research Group, and Whale Research laboratories support the resource conservation branch of the department. The Community-based Research Laboratory and Critical Geographies Research Group support a number of Human Geography

programs. Spatial sciences are supported through several GIS, spatial analysis, and visualization laboratories, and Hyperspectral-LiDAR, sea ice, and ocean remote sensing laboratories. Large funded projects housed in our department include Population Data BC, Population Health, and PPV Bolivia. In addition, the Environment Canada Water and Climate Impacts Research Centre (W-CIRC) is co-located with Geography, and focuses on hydrologic and ecological impacts of atmospheric change and variability. More details on specific research programs and researchers can be found on the web site: (<http://www.uvic.ca/socialsciences/geography/research/index.php>)

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: At the University of Victoria there are two regular semesters: September-December and January-April. 'Summer Session' comprises the period May-August.

The Geography Department offers undergraduate courses leading to BA and BSc degrees, with a choice of General, Major, and Honours programs for both. For the Major and Honours degrees, students may choose concentrations in five core areas: Coastal Studies, Earth Systems, Geomatics, Environment and Sustainability, and Urban & Development Studies. These core areas of study reflect the teaching and research strengths of our Faculty members. Students from the general university community who may wish to augment their primary degree with a more concentrated area of geographical study can take a Minor in Coastal Studies and Geographic Information Technology. The minor is ideal for students majoring in Anthropology, Biology, Earth and Ocean Sciences, Economics, and History. The Department of Geography, in conjunction with the School of Earth and Ocean Sciences, also offers a Combined BSc Major or Honours Degree aimed at students whose interests span the fields of Physical Geography and Earth Sciences. These degrees are intended to prepare students for a professional designation. Also, in conjunction with the Department of Computer Science, the Department of Geography offers a combined BSc Major Degree for students who are interested in the fields of Computer Science, Geography, and Geomatics. The program intends to offer students a broad and comprehensive foundation in a number of key areas including cartography, geographic information sciences, remote sensing, surveying, statistics, and fundamentals of programming, algorithms, database systems, computer graphics, and computer geometry. There are also Geography Co-operative Education and Work Experience programs that enable students to combine work experience in related fields with their academic training.

Further information regarding undergraduate admission requirements may be obtained from the University's website at: <http://www.uvic.ca/>. In addition to scholarships, financial information on loans, grants or bursaries is available through the University's website. The Geography department's main website can be viewed at: <http://geography.uvic.ca/>.

Graduate: The Department of Geography at the University of Victoria offers MA, MSc, and PhD degrees. A BA or BSc degree from a recognized university, or its equivalent, with a 'B+' average (75% or upper 2nd class) for the last 2 years is generally considered a minimum requirement for admission. Graduate degree programs at UVic Geography are research-oriented (i.e., thesis based). Course-based degrees are not offered. Applicants are strongly encouraged to contact potential supervisors via email or phone to discuss research interests and potential opportunities. Faculty research interests are listed on the departmental website. Students whose native language is not English are required to provide English language proficiency test scores (TOEFL > 90 or IELTS > 6.5) to demonstrate language competency proficient to proceed with graduate studies. International students should not make provision to travel to Canada until they have been admitted officially by the Faculty of Graduate Studies and have evidence of financial resources to allow them to pursue their studies.

The required residency for a Master's degree is 2 academic years and 3 years for a PhD degree. Program entry is usually September.

The Department offers guaranteed minimum income to new entrants. Master's students are guaranteed a minimum of \$12,500 per year for 2 years, and this may increase up to \$16,500 per year for higher GPAs. PhD students are guaranteed a minimum of \$13,500 per year for 3 years, and this may increase up to \$17,500 per year for higher GPAs. International students receive slightly higher funding to offset higher tuition costs. Income comes from a combination of sources, including University of Victoria Graduate Awards, Fellowships, Entrance Awards, Research Assistantships, and Teaching Assistantships, as well as external sources. Awards and employment opportunities are offered in accordance with governing regulations. In many cases, students also work closely with supervisors to secure additional external funding. The Department hosts scholars across the tri-council of major Canadian funding agencies (NSERC, SSHRC, CIHR) and scholarships may be awarded on application to high calibre Canadian citizens or permanent residents. More information on admissions, tuition, awards, and other requirements is available online from the Faculty of Graduate Studies (<https://www.uvic.ca/graduatestudies/>).

Further details on the Geography Graduate School program at UVic are available at: <http://www.uvic.ca/socialsciences/geography/graduate/index.php>.

FACULTY:

David Atkinson, PhD, Ottawa, 2000, Associate Professor — storms and coastal zones, weather extremes, icefield meteorology, weather/human interactions, Arctic

Christopher Bone, PhD, Simon Fraser, 2011, Assistant Professor — GIS, spatial analysis, complex systems modeling and artificial intelligence

Rosaline Canessa, PhD, Victoria, 1997, Associate Professor — coastal management, marine protected areas, GIS decision support, geovisualization

Denise Cloutier, PhD, Guelph, 2000, Professor — healthy aging, integrated models of service delivery for older adults, vulnerable populations, long-term care service trajectories

Maycira Costa, PhD, Victoria, 2000, Professor — remote sensing, primary productivity, coastal waters, benthic habitats, wetlands

Christopher Darimont, PhD, Victoria, 2007, Associate Professor — conservation ethics, ecosystem-based harvest management, Indigenous geographies, marine-terrestrial interactions, wildlife ecology

Teresa Dawson, MA, Oxford, 1992, Teaching Professor — human geography, geographic education, feminist geography, experiential learning

Philip Dearden, PhD, Victoria, 1978, Professor — protected areas, conservation, marine, Southeast Asia

David Duffus, PhD, Victoria, 1988, Associate Professor — conservation, wildlife, marine

Shannon Fargey, PhD, Manitoba, 2014, Assistant Teaching Professor — climate, mountain meteorology, hydrology, spatial analysis

Johannes Feddema, PhD, Delaware, 1991, Professor — human systems in Earth System models, water balance climatology, urban climatology

Mark S. Flaherty, PhD, McMaster, 1985, Professor — small-holder aquaculture, food security, poverty alleviation in developing nations

Jutta Gutherlet, PhD, Tübingen, 1990, Professor — development geography, waste studies, global/local waste governance, sustainable livelihoods, ecological and social economy, participatory action research (PAR), global South

Dennis E. Jelinski, PhD, Simon Fraser, 1990, Professor — landscape ecology, biogeography, wildlife ecology, conservation, terrestrial-marine interactions

Eva Kroll, PhD, Bremen, 2013, Assistant Professor — coastal geomorphology, turbulence, flow structures

K. Olaf Niemann, PhD, Alberta, 1988, Professor — remote sensing, geomorphology
Ian J. O'Connell, PhD, Victoria, 2003, Teaching Professor — geomatics
Cameron Owens, PhD, Simon Fraser, 2011, Associate Teaching Professor — social theory and politics in relation to urban and regional development, land use planning, and environmental assessment
CindyAnn Rose-Redwood, PhD, Penn State, 2007, Assistant Teaching Professor — urban social geography, immigrant geographies, geographies of higher education, international student experiences
Reuben Rose-Redwood, PhD, Penn State, 2006, Associate Professor — urban historical geography, cultural landscape studies, politics of mapping, geographies of higher education, history of geographical thought
Randall Scharien, PhD, Calgary, 2010, Assistant Professor — Arctic sea ice variability and climate change, remote sensing with synthetic aperture radar, radar polarimetry
Dan J. Smith, PhD, Alberta, 1985, Professor — geomorphology; dendrochronology

Limited Term:

Sophia Carodenuto, PhD, Albert-Ludwigs University, 2016, Assistant Professor — forest governance, global value chains, climate policy, international development, African studies
Crystal Tremblay, PhD, Victoria, 2013, Assistant Professor — community-based participatory action research, water and waste governance, social economy, Indigenous methodologies, critical feminist theory, knowledge democracy

MANITOBA

UNIVERSITY OF WINNIPEG

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1953

DEGREES OFFERED: B.A., B.A.H., B.Sc., B.Sc.H.

GRANTED 9/1/18-8/15/19: 41 B.A., 7 B.Sc.

MAJORS: 139 B.A., 35 B.Sc.

CHAIR: Christopher Storie

PROGRAM ADMINISTRATIVE ASST: Tania N. Guevara

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography, 515 Portage Ave., Winnipeg, MB R2K 3G7. Telephone (204) 786-9278 Fax (204) 774-4134. E-mail: geography@uwinnipeg.ca Internet: www.uwinnipeg.ca/geography-/index.html

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography at the University of Winnipeg offers undergraduate majors in Geography and the opportunity to join faculty in their research in geospatial analysis, planetary exploration analysis, human and urban geography, environmental management, hazards, geomorphology, water resources, isotope analysis, and climatology. Supplementing coursework and research are the department's Map Library, Geomatics Laboratories, GEO-Lead Lab (Geospatial Laboratory for Environmental Analysis and Decision Making), the HOSER Lab where the Planetary Exploration Group does analysis, Soils and Wet Laboratory, and the Isotope Laboratory.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major program in Geography is the same as that for admission to the University of Winnipeg Science faculty. In addition to the University Core

Curriculum requirements, undergraduate majors are expected to take Physical Geography, Regional Geography, Systematic Human Geography, Remote Sensing, Computer Mapping, Geographic Information Systems, Geography Field Course (different research projects and destinations for data collection offered per term or academic year). Fifteen additional hours of geography, the statistics course, and the research methods course are also required for the major. Undergraduate majors are eligible for earning credit through internal, external or international internship programs.

PROFESSORS:

Danny Blair, PhD (Manitoba) Prairie Climate Centre (Co-Director) — Climate Atlas of Canada (climateatlas.ca), visualization of climate change data, climate change and variability in the Western Interior
Edward A. Cloutis, PhD (Alberta) — composition of main belt asteroids, design of planetary spectrometers and mission concepts, hyperspectral remote sensing data analysis, remote sensing detection of organic geological materials, spectroscopic studies of art work for forgery and underpainting detection, surficial geological properties of Mars
Bill Buhay, PhD (Waterloo) — development and application of stable-isotope methods for evaluating isotopic compositions of organic and inorganic materials from natural archives such as groundwater, lake sediments, and terrestrial organic matter; Pre- and postglacial isotope-climate and hydrology linkages in central and western North America and Western Europe; water, climate and greenhouse gas emission studies using isotope tracers; isotope geochemistry; isotope climatology and paleoclimatology

ASSOCIATE PROFESSORS:

Jacqueline Binyamin, PhD (McMaster) — climate change, modelling clouds and ultra-violet biologically active radiation (UV-B), modelling the energy transfer of high latitude Canadian lakes, surface-atmosphere interactions and boundary layer processes
Nora Casson, PhD (Trent) — interactions between hydrological and biogeochemical processes across ecosystems
Jino Distasio, PhD (Manitoba) — homelessness and mental health, housing markets, urban Aboriginal issues, urban and community planning
Matthew Dyce, MA (Ottawa) — Western Canada, environmental history, photography and representation, archives and knowledge, history of geography, place and public memory
Patricia Fitzpatrick, PhD (Waterloo) — environmental assessment, public participation and learning, environmental governance, including adaptive management and corporate social responsibility, resource management in the mineral and hydroelectric sectors
Ian Mauro, PhD (Manitoba) — Indigenous and local knowledge regarding climate change, food security and local knowledge, indigenous health systems, multi-media methods in geography and environmental science, resource development and communities, risk assessment of emerging technologies
Christopher Storie, PhD (Wilfrid Laurier) — satellite image segmentation using deep learning and convolution neural networks, mapping of informal settlements in the developing world using satellite imaging applications, commercial structure and retail location analysis, geospatial analysis of urban areas
Joni Storie, PhD (Waterloo) — application of GIS & remote sensing for agriculture, wetland and forestry mapping and restoration, geospatial analysis for retail food environments
Gina Sylvestre, PhD (Manitoba) — winter pedestrianism, rural aging, mobility and community sustainability, aging and social exclusion
Marc Vachon, PhD (Ottawa) — architecture and city planning (western Canada), architecture and sense of place, 20th century cultural avant-garde, migration (western Canada), downtown development (western Canada), land use development, situationism

INSTRUCTORS:

Mark T. Krawetz, MA (Windsor)
Brian R. McGregor, MA (Queen's)

SENIOR SCHOLARS:

John C. Lehr, PhD (Manitoba) — Hutterite society, Jewish agricultural settlement on the prairies, the historical geography of Cooks Creek, Manitoba
William F. Rannie, PhD (Toronto) — environmental history of the eastern prairies in the 19th century, the Assiniboine river basin
John Ryan, PhD (McGill) — agricultural economy of Manitoba Hutterite colonies, potential use of submarine cable for long distance electricity transmission in Manitoba, research for Manitoba Hydro, articles on events in Canada, Afghanistan, Ukraine, Syria
H. John Selwood PhD (Western Australia) — heritage issues, rural settlement schemes, sustainable environments, domestic tourism

ONTARIO

BROCK UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND TOURISM STUDIES

DATE FOUNDED: 1964

DEGREES OFFERED: B.A., B.Sc., M.A.

GRANTED 9/1/18-6/30/19: 38 Bachelors

MAJORS: 125 (Geography), 57 (Tourism)

CHAIR: Michael Pisaric

DEPARTMENT ADMINISTRATIVE COORDINATOR:
Virginia Wagg

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography and Tourism Studies, Brock University, St. Catharines, Ontario, Canada L2S 3A1. Telephone (905) 688-5550, ext. 3484. Fax (905) 688-6369. E-mail: geography@brocku.ca. Internet: www.Brocku.ca/geotour.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Tourism Studies offers programs leading to an M.A. degree in Geography, BA Geography, BSc Geography and BA Tourism and Environment degrees at the Honours and pass levels. It also participates in a number of combined major programs. In addition, the Department offers a five-year BA or BSc Honours degree in Geography concurrently with a B.Ed. degree; and a four-year Honours BA or BSc Geography degree concurrently with a co-op work program. The discipline of Geography has a broad scope and combines elements of both the social and natural sciences. Two principal divisions of the subject exist-human geography and physical geography-linked by a common background, a mutual concern for humans and the environment and a body of related theory and methodology. Most courses emphasize structured labs and seminars in early years and progressively more independent work in later years, culminating in a mandatory internship placement and an optional Honours thesis in year 4. Field work features prominently in many courses. Physical laboratories and equipment are available for work in biogeography, climatology, geomorphology and soil science. Computer labs with geomatics software are also available for students interested in geographic information systems, remote sensing, surveying and digital mapping. The University Map, Data & GIS Library contains an extensive collection of maps, atlases and geospatial datasets housed adjacent to the Geography Department and Tourism Studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Academic Plan: Undergraduate: two term system (September-December; January-April) with Spring Evening and Summer Day sessions. Admission requirement in Ontario is Grade 12 graduation or equivalent with 70% average or better. Bursaries and loans are available to qualified students. Information on such assistance may be obtained from the University Awards Office.

FACULTY:

Julia Baird, Ph.D., Saskatchewan 2012, Assistant Professor — water management and governance, resilience, sustainability science
Jeff Boggs, Ph.D., UCLA 2005, Associate Professor — economic geography, cultural industries, regional political economy, interactive digital media, Niagara's changing economy, precarious employment, Niagara's tourism evolution
David T. Brown, Ph.D., McGill, 1989, Associate Professor — digital interpretation of natural and cultural heritage; trail and greenway planning and development; sustainable transportation; historical landscapes and human-dominated ecosystem changes
David Butz, Ph.D., McMaster, 1993, Professor — cultural, social geography, qualitative methods, Pakistan, road construction and social change, mobilities, mobility justice, political ecology
Danuta de Grosbois, Ph.D., Carleton University, 2007, Associate Professor — operations management in tourism industry, revenue management in tourism industry
David A. Fennell, Ph.D., University of Western Ontario, 1994, Professor — ecotourism, tourism ethics, tourism & animal ethics
Christopher Fullerton, Ph.D., Saskatchewan, 2004, Associate Professor — rural land use planning, rural economic development, tourism geography of Niagara Falls and the Niagara Region, Ottawa's planning history, urban public transit
Hugh J. Gayler, Ph.D., British Columbia, 1974, Professor Emeritus — urban planning, rural-urban fringe development issues, urban social geography
Atsuko Hashimoto, Ph.D., Surrey, 1996, Associate Professor — rural community development through tourism in Japan, heritage and dark tourism in Japan, human rights issues in tourism, agriculture and culinary tourism
Marilyne Jolliveau, Ph.D., Waterloo, 2003, Associate Professor — water resources management and governance, wetland ecosystems, agricultural sustainability, geospatial technologies, urban tree canopy, sustainability science
Phillip Gordon Mackintosh, Ph.D., Queen's, 2001, Professor — urban historical geography, reform and planning history, public space and infrastructure, bourgeois culture, historical newspapers, bicycling
John Menzies, Ph.D., PGeo., Edinburgh, 1976, Professor — geomorphology, glaciology, soil science, glacial
Catherine Jean Nash, Ph.D., Queen's, 2004, Professor — social, cultural geography, urban studies and planning, feminist, lgbt, queer, trans issues
Michael Pisaric, Ph.D., Queen's, 2001, Professor — biogeography, climate change, dendrochronology, paleolimnology, ecological disturbance, Arctic and boreal regions
Michael Ripmeester, Ph.D., Queen's, 1995, Professor — historical geography, cultural geography, historical geographies of First Nations, geographies of popular memory
Anthony B. Shaw, Ph.D., Western Ontario, 1981, Professor Emeritus — climatology, meteorology, viticulture
Dragos Simandan, Ph.D., Bristol, 2004, Professor — geographical reasoning, philosophy of the social sciences, social theory, economic geography, the psychology-geography interface
David J. Telfer, PhD, Waterloo, 1996, Associate Professor — tourism and development theory, tourism planning, tourism in developing countries, rural tourism in Japan, heritage and dark tourism in Japan, agriculture and culinary tourism
Kevin Turner, Ph.D., Wilfrid Laurier, 2013, Associate Professor — hydrology, geomatics, paleolimnology, biogeography

Ebru Ustundag, Ph.D., York, 2005, Associate Professor — citizenship studies, urban geography, theories of space and nationalism, Ottoman Empire and Turkey

CARLETON UNIVERSITY

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1949

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/17-8/31/18: 111 Bachelors, 3 M.A., 7 M.Sc., 3 Ph.D.

STUDENTS IN RESIDENCE: 398 Majors, 9 M.A., 22 M.Sc., 24 Ph.D.

CHAIR: Scott Mitchell

DEPARTMENT ADMINISTRATIVE ASST: Natalia Fierro

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography & Environmental Studies, Carleton University, 1125 Colonel By Drive, Ottawa, Ontario, Canada K1S 5B6. Telephone (613) 520-2561. Fax (613) 520-4301. E-mail: Chair_Geography@carleton.ca. Internet: www.carleton.ca/geography.

PROGRAMS AND RESEARCH FACILITIES:

Undergraduate Programs

- BA Geography (3yr General; 4yr Honours); BA Geography with Concentration in Urban Geography (4 yr Honours); BA Geography with Concentration in Physical Geography (4yr Honours); BA Combined (4yr Honours)
- BSc Physical Geography (4yr); BSc Combined (4yr Honours)
- BA Geomatics (4yr Honours); BSc Geomatics (4yr Honours)
- BA Environmental Studies (3yr General; 4yr Honours)
- BA in Global and International Studies (4yr Specialization in Environment and Globalization, or 3yr Stream in Environment and Globalization)
- Minors available in: Environmental Studies, Geography, Physical Geography, Geomatics, and Urban Studies
- Co-operative education options available for BA Honours programs

Graduate Programs

The Department's MA, MSc and PhD programs encourage students to integrate perspectives from the biophysical and social sciences.

- MA and MSc Geography (2yr, thesis): The MSc research themes include *Environmental sustainability*, *Cities and urban transformations*, *Social and political change*, and *Innovative research methodologies* including the integration of geomatics-based approaches. We also offer the MA with a specialization in African Studies. MSc Geography research themes include *Physical Geography* and *Geomatics* with emphasis on geomorphological and biophysical aspects of cold regions, environmental change, and remote sensing and geographic information system methodological development and environmental analysis. We also offer the MSc with a specialization in Data Science.
- MA and MSc Northern Studies (1yr, courses): The interdisciplinary Northern Studies graduate programs emphasize northern environments and societies, and the policies that are developed to govern them.

- Graduate Diplomas Northern Studies: for students either registered in or not registered in other graduate programs at Carleton University.

- PhD Geography (5yr, thesis): The PhD program is defined in terms of the interaction of society and the natural environment in the context of global change. It is structured around two interacting fields: (1) the *geography of societal change* – global political economy, restructuring and the environment, feminist geographies; and, (2) the *geography of environmental change* – environmental processes and anthropogenic impacts, appraisal and societal management of environmental resources.

Research Facilities

The research of the department is supported by specialized facilities including laboratories for Geocryology, Geomatics and Landscape Ecology, and Cybercartography. Carleton University's location in Ottawa provides access to more than 50 specialized libraries, including the National Library, National Archives, and Statistics Canada as well as to resources at the Canada Centre for Remote Sensing, Natural Resources Canada, and other government agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

MA/MSc programs: Admission requires at least B+ (77%) average in an Honours (4-year) undergraduate program in a related discipline. Candidates with other qualifications may be accepted into a qualifying year. Fall term entry is the norm.

PhD program: Admission requires at least A- (80%) average in a Masters program or equivalent. Students commence their program in September.

Financial assistance: Qualified applicants may be considered for awards, scholarships, bursaries, and teaching and research assistantships.

A detailed list of faculty, their research interests and recent publications, and graduate funding, is available on our Web page (www.carleton.ca/geography).

MCMASTER UNIVERSITY

SCHOOL OF GEOGRAPHY AND EARTH SCIENCES

DATE FOUNDED: Geology 1905, Geography 1946

GRADUATE PROGRAM FOUNDED: Geology pre-1915, Geography 1954

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 09/01/2017-11/23/2018: 91 Bachelors, 15 M.Sc., 2 M.A., 1 Ph.D.

STUDENTS IN RESIDENCE: 41 Masters, 49 Ph.D.

DIRECTOR: Dr. Bruce Newbold

DEPARTMENT ADMINISTRATOR: Marge Geroux

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Co-ordinator, School of Geography and Earth Sciences, McMaster University, 1280 Main St. West, General Science Building - 206, Hamilton, Ontario, Canada L8S 4K1. Telephone (905) 525-9140, ext.23535. Fax (905) 546-0463. E-mail: geograd@mcmaster.ca. Internet: www.science.mcmaster.ca/geo/

PROGRAMS AND RESEARCH FACILITIES: The School is in the Faculty of Science and is affiliated with the Faculty of Social Science. Its graduate program is built around diverse research interests in both physical and human geography and in geology. The fields of specialization are:

Hydrological Sciences, including climatology (surface energy; water and trace gas climatology especially in cold regions; surface climate especially in permafrost terrain); impacts of climatic change on energy, water, and trace gas fluxes; physical hydrology (cold regions hydrological research on snow, ice, permafrost, and northern wetlands); surface water and ground water interaction; statistical hydrology

Earth Surface Processes, including sedimentation processes and their impacts on environmental systems; paleoenvironmental reconstruction in glacial, Mediterranean and other terrains; geophysical methods

Geochemistry, including hydrological pathways, biochemical, and contaminant transport; wetland-atmosphere trace gas exchange; peatland development and human impacts on wetland hydrology and nutrient cycling, microbially mediated metal reactions, stable isotope techniques, paleo-environmental reconstruction

Environment and Health; geographic aspects of health promotion; issues in health and health care policy and planning; spatial relationships of health and environmental factors

Social Geography, including Political Economy (geography of the state; dependent populations; social housing; urban and regional development); Urban Historical Geography (the evolution of cities in the nineteenth and twentieth centuries; suburban development and housing in North America)

Spatial Analysis: the visual and numerical analysis of data at various spatial scales, including GIS, remote sensing, descriptive and inferential spatial statistics; Theoretical Urban Economic Geography (residential choice and intraurban migration); Regional Analysis (the relations between technical change and regional development; and inter-regional migration)

The School occupies major parts of two adjacent buildings, and offers graduate student office space; seminar rooms, and laboratories for work in physical geography and spatial analysis. Facilities include extensive laboratory and field equipment, and various field research sites. There is an extensive suite of GIS, statistical and remote sensing software available for student and research use. McMaster is a node on the SHARCnet supercomputer. The University Libraries (including the Map Library), allied departments and Graduate Club are all within a few minutes' walk across a pedestrian campus. Support staff provide technical and administrative assistance.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission Requirements: A standing of Class I (A) or upper Class II (B+) in previous academic work. Financial Aid: 1) National Science and Engineering Council Fellowships. 2) Social Science and Humanities Research Council of Canada, 3) Canadian Institutes for Health Research awards, 4) Ontario Graduate Scholarships, 5) University Scholarships, 6) Assistantships: Candidates for the Ph.D. without external scholarship will receive \$11,605.58 Teaching Assistantship and \$12,190.00 Department Scholarship; candidates for M.A. or M.Sc. without external scholarship will receive: \$11,605.58 Teaching Assistantship and \$10,115.00 Department Scholarship (plus increases for the next academic year). Assistantships entail 10 hours per week of teaching or research during the September-April academic year. Academic Plan: Year is identified into three terms: Sept. - Dec., Jan. - April, May - Aug.

FACULTY:

M. Altaf Arain, Ph.D., Arizona, 1997, Professor — climatology, hydrometeorology
Luc Bernier, Ph.D., McMaster, 2007, Assistant Professor — geomicrobiology, environmental geochemistry

Janok Bhattacharya, Ph.D., McMaster, 1989, Professor — sequence stratigraphy, 3D facies architecture, paralic and fluvial depositional systems

Joe I. Boyce, Ph.D., Toronto, 1997, Associate Professor — applied geophysics, sedimentary geology

Sean Carey, Ph.D., McMaster, 2000, Professor — cold weather

Vera A. Chouinard, Ph.D., McMaster, 1987, Professor — urban political economy

Alan P. Dickin, D.Phil., Oxford, 1981, Professor — geology

Carolyn H. Eyles, Ph.D., Toronto, 1986, Professor — glacial sedimentology

Alemu Gonsamo Gosa, Ph.D., Helsinki, 2010, Assistant Professor — remote sensing, geoscience, global change and terrestrial carbon cycle

Sang Tae Kim, Ph.D., McGill University, 2006, Associate Professor — stable isotopy geochemistry

John MacLachlan, Ph.D., McMaster, 2011, Assistant Professor — advancement in classroom technologies and learning, glacial spatial distribution

Michael Mercier, Ph.D., McMaster, 2003, Assistant Professor — teaching and learning environment and methods, social geography

K. Bruce Newbold, Ph.D., McMaster, 1994, Professor — migration, immigration, medical

Maureen Padden, Ph.D., ETH, Zurich, Switzerland, 2001, Associate Professor — environment health & geochemistry

H. Antonio Paez, Ph.D., Tohoku, Japan, 2000, Professor — spatial data analysis and statistics

Alexander L. Pearce, Ph.D., Durham, UK, 2012, Assistant Professor — structural, tectonic and magmatic evolution of continental margins

Eduard G. Reinhardt, Ph.D., Carleton, 1996, Professor — geology

Darren M. Scott, Ph.D., McMaster, 2000, Professor — sustainable transportation

Gregory F. Slater Ph.D., Toronto 2001, Associate Professor — contaminant geochemistry

James E. Smith, Ph.D., Waterloo, 1995, Professor — hydrogeology

J. Michael Waddington, Ph.D., York, 1995, Professor — biogeochemistry

Allison M. Williams, Ph.D., York 1997, Professor — social geography and health

Robert D. Wilton, Ph.D., Southern California, 1999, Professor — urban, disability, health

Niko Yiannakoulis, Ph.D., University of Alberta 2006, Associate Professor — spatial analysis, environment & health

CROSS-APPOINTED FACULTY:

Paulin Coulibaly, Ph.D., Laval, 2000, Professor — water resources systems analysis and modeling (joint appointment with Civil Engineering)

Karen Kidd, Ph.D., Guelph, 1991, Professor — contaminants in aquatic food webs, forest management and stream health, dams and dam removal (joint appointment with Biology)

Suzanne Mills, Ph.D., Saskatchewan, 2007, Associate Professor — gender, equity and unions, labour and the environment (joint appointment with Labour Studies)

QUEEN'S UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1960 (Geography), 1970 (Planning)

GRADUATE PROGRAM FOUNDED: 1965 (Geography), 1970 (Planning)

DEGREES OFFERED: B.A., B.A. (Hons.), B.Sc., B.Sc. (Hons.), M.A., M.Sc., M.Pl., Ph.D.

GRANTED 9/1/17 - 8/31/18: 57 Bachelors, 31 Masters, 13 Ph.D.

STUDENTS IN RESIDENCE: 275 Majors, 85 Masters, 34 Ph.D.

NOT IN RESIDENCE: 15 Masters, 26 Ph.D.

HEAD: Warren Mabee

DEPARTMENT MANAGER: Kathy Hoover

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: E-mail: graduate.info@queensu.ca, World Wide Web: <http://www.queensu.ca/geographyandplanning>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography and Planning offers programs of study in the following fields:

HUMAN GEOGRAPHY and PLANNING

The broad emphasis in the field of Human Geography is on exploring the evolution of a multitude of human systems. The focus is on the interactions and linkages between systems that operate at different scales, ranging from local (work, place, bodies, gender, health and healthcare, urban areas) and increasing through regional and national scales (citizenship, justice, governance, postcolonialism, indigenous peoples) to global systems (globalization, development, economies, sustainability). Unifying themes include identity and place. The broad emphasis in the area of Urban and Regional Planning is on the planning and development of cities and regions, and the relation between development and public policy concerns. Research in urban and regional planning seeks to integrate the latest knowledge related to environment and society with real-world planning challenges. Areas of focus include health and social planning, environmental services, and land use and real estate planning.

Faculty: *Adeniyi Ogunyankin, Agarwal, Andrew, Cameron, Castleden, Collins, Donald, Godlewska, Gordon, Holmes, Kobayashi, Lovell, Meligrana, Mullings, Prouse, Rosenberg, Viswanathan, Whitelaw*

EARTH SYSTEM SCIENCE

The broad emphasis in the field of Earth System Science is on developing an integrative understanding of the Earth as a physical system of interrelated phenomena. The focus is on the interaction and linkages throughout the environment - the lithosphere, atmosphere, hydrosphere, cryosphere, and biosphere - and on physical, chemical, and biological processes operating at a wide range of spatial and temporal scales. Areas of faculty interest include forest systems, cold regions, energy production, and planning around resource use. Measurement, integration, and modelling of earth system elements to understand these linkages are key foci of research and graduate training activities. Field measurements and sample collection are matched with laboratory and data analysis, and modelling.

Faculty: *Chen, Bevan, Danby, Lafrenière, Lamoureux, Mabee, McCaughey, Scott, Thomson, Treitz, Way*

GEOGRAPHIC INFORMATION SCIENCE

The broad emphasis of research in GIS encompasses the theoretical, technical and applied aspects of cartography, geographic information systems, remote sensing and image processing, and modeling of human and natural systems. Specific areas of research focus relate GIS to aspects of human geography (disease modeling, mapping of human impacts on the environment, resource optimization, contemporary and historical cartography), physical geography (biophysical remote sensing, image processing, geo-visualization, environmental modeling) and urban and regional planning (land use planning, network analysis, cartography, social engagement).

Faculty: *Bevan, Chen, Danby, Scott, Treitz*

FACULTY:

Grace Adeniyi Ogunyankin, Ph.D., York University, 2014, Assistant Professor and Queen's National Scholar — neoliberal urbanism, gender and urban planning, postcolonial urbanism, cultural geography, youth geographies, emotional geographies

Ajay Agarwal, Ph.D., Southern California, 2009, Associate Professor — travel behaviour of Generation Y, determinants of changes in urban spatial structure, promoting public transit in midsize Canadian cities

John Andrew, Ph.D., Toronto, 1999, Continuing Adjunct Assistant Professor — commercial real estate financial feasibility analysis, environmental issues in buildings and land, conflict management and public consultation in real estate planning, real estate decision-making and investment strategy, transportation infrastructure development and public-private collaboration

George Bevan, Ph.D., University of Toronto, 2005, Associate Professor — photogrammetry and computational photography, multi-spectral imaging (reflected UV and IR; UV/IR fluorescence), X-ray fluorescence, historic air photos, unmanned aerial vehicles, geohazards and geotechnics, computed tomography, art conservation science, syriac, ecclesiastical politics and geography in late antiquity

Laura Cameron, Ph.D., Cambridge, 2001, Professor and Canada Research Chair (2003-2013) — cultures of nature, historical geographies of science, sonic methods

Heather Castleden, Ph.D., Alberta, 2007, Associate Professor and Canada Research Chair — treaty rights, negotiations, and implementation, Indigenous-settler reconciliation, social-environmental justice and health equity, decolonizing, Indigenous, and participatory methodologies

DongMei Chen, Ph.D., San Diego State University/University of California-Santa Barbara, 2001, Professor — geographic information systems, remote sensing, spatial analysis, environmental management

Patricia Collins, Ph.D., Simon Fraser University, 2009, Associate Professor — healthy and sustainable community planning and governance, and currently encompasses topics ranging from school closures, play deserts, commuting and health, food insecurity, and integrated community sustainability planning

Ryan Danby, Ph.D., Alberta, 2007, Associate Professor — landscape ecology, biogeography, conservation biology, scale and hierarchy theory, arctic-alpine environments

Betsy J. Donald, Ph.D., Toronto, 1999, Professor — urban and regional political economy, economic geography, urban governance, cultural economies of food and food systems planning

Anne Godlewska, Ph.D., Clark, 1985, Professor — the presence of Indigeneity in the Canadian imagination, the flavours of Canadian identity in Canadian provincial education, geography, colonialism and imperialism, the map and society

David L.A. Gordon, D.Des, Harvard, 1994, Professor and SURP Director — suburbs in Canada, Australia and USA, planning history, especially Ottawa, capital cities, urban redevelopment, especially waterfronts, community design

Audrey L. Kobayashi, Ph.D., UCLA, 1983, Professor — racism, human rights, feminism, immigration, critical disability studies, law and geography, Asia and Cuba

Melissa Lafrenière, Ph.D., Alberta, 2003, Associate Professor — biogeochemistry, hydrology, carbon and nutrient cycling in alpine and arctic catchments

Scott Lamoureux, Ph.D., Alberta, 1998, Professor — permafrost, geomorphology, hydrology and climate, especially in cold regions

Warren E. Mabee, Ph.D., Toronto, 2001, Professor and Head and Canada Research Chair — forests and energy, bioenergy and biofuel technology, regional energy systems

John F. Meligrana, Ph.D., Simon Fraser, 1998, Associate Professor — local government reform, regional governance, urban-rural fringe, urban planning and development in China

Beverly Mullings, Ph.D., McGill, 1997, Associate Professor — international political economy, feminist geography, globalization and development, changing gender regimes, skilled migration and the new middle classes, the Caribbean, and Caribbean diaspora

Carolyn Prouse, Ph.D., University of British Columbia, 2018, Assistant Professor — postcolonial and global urbanism, infrastructure, social reproduction, decolonizing geographies, critical race feminism

Mark W. Rosenberg, Ph.D., London School of Economics, 1980, Professor and Canada Research Chair — population studies, medical, public policy

Neal Scott, Ph.D., Colorado State, 1996, Associate Professor and Canada Research Chair (2005-2015) — terrestrial biogeochemistry, disturbance effects on carbon and nitrogen cycling, land-use change and greenhouse gas emissions

Laura Thomson, Ph.D. University of Ottawa, 2016, Assistant Professor — glacier monitoring, Arctic climate, ice dynamics, glacier mapping (photogrammetry, remote sensing), ice-penetrating radar

Paul M. Treitz, Ph.D., Waterloo, 1997, Professor — biophysical remote sensing of arctic and boreal environments, environmental monitoring of arctic environments using SAR, Lidar remote sensing for forestry

Leela Viswanathan, Ph.D., York, 2007, Associate Professor — planning with Indigenous Peoples, planning pedagogy, race, space, and cross-cultural relations

Robert Way, Ph.D., *University of Ottawa, 2017, Assistant Professor* — physical geography, climatology, northern studies, cryospheric sciences, geophysics, numerical modelling, remote sensing

Graham S. Whitelaw, Ph.D., Waterloo, 2006, Associate Professor — environment and sustainability, focused primarily on three interrelated themes: regional planning, monitoring and environmental assessment. Oak Ridges Moraine Conservation Plan

EMERITI FACULTY:

Peter G. Goheen, Ph.D., Chicago, 1970, Professor Emeritus — historical, urban

John Holmes, Ph.D., Ohio State, 1974, Professor Emeritus — urban and regional political economy, economic geography, labour geography

Hok-Lin Leung, Ph.D., Reading, 1985, Professor Emeritus — land use planning, urban design, policy planning and evaluation, cultural comparison

W. George Lovell, Ph.D., Alberta, 1980, Professor Emeritus — historical, cultural, Latin America

J. Harry McCaughey, Ph.D., McMaster, 1972, Professor Emeritus — climate change, adaptation to climate change, the role of forests in climate change, forest climatology, radiation, energy and water balance climatology, carbon cycling in ecosystems

Eric G. Moore, Ph.D., Queensland, 1966, Professor Emeritus — population, urban, public policy

Brian S. Osborne, Ph.D., Southampton, 1967, Professor Emeritus — historical, cultural

Mohammad Qadeer, Ph.D., Columbia, 1971, Professor Emeritus — multiculturalism, cities and planning for diversity, urban development and planning in the Third World

J. Barry Riddell, Ph.D., Pennsylvania State, 1969, Professor Emeritus — Third World underdevelopment, debt and conflict, globalization and development, the World Bank and neoliberalism in the Caribbean

Andrejs Skaburskis, Ph.D., UC Berkeley, 1977, Professor Emeritus — urban spatial structure, housing markets, urban economy

Rowland R. Tinline, Ph.D., Bristol, 1973, Professor Emeritus — medical, geographic information systems, disease modelling

CROSS-APPOINTED FACULTY:

Bruce Anderson, Ph.D., British Columbia, 1989, Professor in Civil Engineering — urban stormwater management, low impact development/green infrastructure, passive wastewater treatment systems, control of nutrient loading from agricultural areas

Jeffrey R. Masuda, Ph.D., Alberta, 2005, Associate Professor in Kinesiology and Health Studies — environmental health equity, social and environmental justice, urban health, knowledge translation, right to the city

David A. McDonald, Ph.D., Toronto, 1996, Professor in Global Development Studies — urbanization/cities, public services, privatization, environmental justice, international migration, development

Katherine McKittrick, Ph.D., York, 2003, Associate Professor in Gender Studies — black studies, black geographies, cultural geographies, studies of race

David Murakami-Wood, Ph.D., Newcastle, U.K., 2001, Associate Professor of Sociology and Canada Research Chair (Tier II) in Surveillance Studies — surveillance, technology and society, global cities, social theory

Joan Schwartz, Ph.D., Queen's, 1998, Professor and Head in Art History and Art Conservation — history of photography, nineteenth-century photography and the geographical imagination, early landscape/travel photography, the management of photographic archives

RYERSON UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1974

DEGREES OFFERED: B.A. in Geographic Analysis (GA), B.A. in Environment and Urban Sustainability (EUS), Master of Spatial Analysis (MSA)

GRANTED 7/1/17-6/30/18: 39 Bachelors (GA), 57 Bachelors (EUS), 20 Masters (MSA)

STUDENTS IN RESIDENCE: 225 Majors (GA), 300 Majors (EUS), 31 Masters (MSA)

CHAIR: Marco Fiola

DEPARTMENT ADMINISTRATOR: Christina Smith

FOR CATALOG AND FURTHER INFORMATION WRITE TO: See Department Website at www.ryerson.ca/geography

PROGRAMS AND RESEARCH FACILITIES: Ryerson University's undergraduate Geographic Analysis (GA) program emphasizes the application of geographic skills in a research and problem-solving framework. The goal of the program is to provide students with a unique combination of theory and analytical techniques which will enable them to work effectively and independently in a variety of employment settings after graduation. Emphasis is placed on digital geographic applications, including Geographic Information Systems (GIS), remote sensing, and the use of geospatial databases. The Environment and Urban Sustainability (EUS) program is focused on the development of skills required for academic and future success in the workplace. This is achieved as students interpret environments, examine ecological processes, explore urban policy, and critique sustainable initiatives, using the principles underlying physical and natural environments. Both the GA and EUS programs lead to an honours degree, Bachelor of Arts (BA).

Through the G. Raymond Chang School of Continuing Education, the department offers three post-baccalaureate certificates. The Certificate in Applied Digital Geography and GIS, as well as the Advanced Certificate in Applied Digital Geography and GIS, present courses in a wide range of GIS applications and geospatial technologies for those

who want to enter a GIS-related occupation and for GIS professionals wishing to review and expand their GIS knowledge and skills. The Certificate in Demographic Analysis focuses on the principles and applications of demographic analysis and GIS applications in demography with a concentration on applications used for business, commercial or public sector purposes, immigration and settlement studies and/or the economic impacts of demographic change.

Jointly with the Centre for the Study of Commercial Activity at Ryerson University, the department offers the Master of Spatial Analysis (MSA) program. The major research paper option of the MSA program can be completed in one year of full-time studies or two years of part-time studies. The thesis option takes 16-20 months of full-time studies. MSA student research is organized by three fields of study: business/commercial, physical/landscape, and social/community information analysis. For more information, see www.ryerson.ca/graduate/programs/spatial. The department also contributes to the interdisciplinary graduate programs in Environmental Applied Science and Management (MA, PhD), Immigration and Settlement Studies (MA), and Policy Studies (PhD).

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: The BA programs start with a one-year common curriculum with other social sciences and humanities programs, allowing the transferability of course credits. A total of 40 (EUS) or 41 (GA) one-semester courses are required. The programs include a mandatory (GA) or optional (EUS) internship placement, as well as field trips and project-based capstone courses. The MSA graduate program consists of four required core courses, two electives, and a practicum placement, as well as a major research paper or thesis. See: <http://www.ryerson.ca/undergraduate/calendars/> and www.ryerson.ca/graduate/currentstudents/calendarsanddates.html for more information.

To qualify for admission to the undergraduate programs, applicants must have acquired or be eligible to receive the Ontario Secondary School Diploma (OSSD) or equivalent with a minimum of six Grade 12 U or M courses (a minimum grade of 60% is required in each; a minimum overall average of 70% establishes eligibility for admission consideration, but is subject to competition where higher pre-requisite grades and/or higher overall averages may be necessary. It is required that applicants include English/Anglais, and recommended that they have Geography and Mathematics in their program. Further information can be found at: www.ryerson.ca/undergraduate/admission/programs/geog.html.

FACULTY:

- David Atkinson, PhD, Queen's (Canada), 2013* — Arctic biophysical systems, remote sensing, GIS
- Michal Bardecki, PhD, York (Canada), 1981* — wetlands, environmental impact assessment, environmental education, Nepal
- Harald Bauder, PhD, Wilfrid Laurier, 1998* — critical geographies, international migration, labour markets, geographic practice, critical border studies
- Valentina Capurri, PhD, York (Canada), 2010* — urban geography, globalization, immigration, citizenship and identity
- Brian Ceh, PhD, Western Ontario, 1994* — business and commercial geography, GIS, urban-economic, quantitative
- Philip Coppack, PhD, Waterloo, 1985* — economic geography, globalization, quantitative methods
- Sara Edge, PhD, McMaster, 2012* — environment and sustainability governance, complex socio-ecological systems, promotion of healthy sustainable communities
- K. Wayne Forsythe, PhD, Salzburg, 1999* — geospatial analysis of contaminated sediments, urban change detection, remote sensing, GIS
- Sutama Ghosh, PhD, York (Canada), 2006* — immigration and settlement, transnationalism, race and racism
- Jeanne Maurer, MA, Toronto, 1992* — agriculture and rural land use, globalization, world cities, political ecology

- Andrew Millward, PhD, Waterloo, 2004* — urban forestry and disturbance ecology, applications of remote sensing and spatial data handling
- Ann Marie Murnaghan, PhD, York (Canada), 2010* — social and cultural geographies, urban geography, children's geographies, Toronto
- Tor Oiamo, PhD, Western Ontario, 2014* — exposure assessment, environmental modelling, health risk assessment, GIS and spatial statistics, health and medical geography
- Claire Oswald, PhD, Toronto, 2011* — physical geography, watershed hydrology and biogeochemistry, watershed ecosystem science and management
- Greg Oulahan, PhD, Western Ontario, 2014* — human-environment interaction, hazards, risk, vulnerability, climate change adaptation
- Claus Rinner, PhD, Bonn, 1999* — GIS, cartographic visualization, web mapping, spatial decision support systems (SDSS)
- Richard Shaker, PhD, Wisconsin-Milwaukee, 2011* — sustainability indicators, sustainable urbanization, landscape ecology, global change, spatial analysis and statistics, sustainable development planning
- Stephen Swales, MA, Calgary, 1985* — land use development and planning, GIS
- Eric de Noronha Vaz, PhD, NOVA Lisbon, 2011* — GIS, complex systems, regional and urban planning, neogeography
- Lu Wang, PhD, York (Canada), 2004* — medical geography, immigrant health, economic geography, consumption and retailing, spatial and statistical modeling, mixed-method approaches
- Shuguang Wang, PhD, Alberta, 1994* — geography of retailing, ethnic economy, immigrant settlement patterns, China
- Christopher Wellen, PhD, Toronto, 2013* — hydrology, biogeochemistry, agroecosystems, environmental modelling, Bayesian inference and risk assessment

UNIVERSITY OF GUELPH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: BA, BSc, BSc (Env), MA, MSc, PhD

GRANTED 2017-2018: 108 Bachelors, 15 Masters, 3 PhD

STUDENTS IN RESIDENCE: 345 Majors, 33 Masters, 11 PhD

NOT IN RESIDENCE: 3 PhD, 1 Masters

CHAIR: Wanhong Yang

DEPARTMENT ADMINISTRATIVE ASST: Jennifer Beehler

FOR CATALOG AND FURTHER INFORMATION WRITE TO: See web site: www.uoguelph.ca/geography/

PROGRAMS AND RESEARCH FACILITIES: The Department offers Master's and Doctoral degrees. MA and MSc degrees include opportunities to specialize in human-environment geography, environmental geoscience and geomatics. Both thesis and non-thesis options of the above programs are available. Thesis and non-thesis collaborative Master's programs in international development studies also are offered. The PhD program offers opportunities for advanced research in areas focusing on these same areas. PhD theses can be completed in the form of a traditional dissertation, or as manuscripts. The Department has extensive computer facilities for data analysis and GIS, and has fully equipped geomorphology labs which include a wind tunnel, flume, and wave tank. The Department's programs are supported by an excellent University Library collection.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Trimester system. Admission requirements: at least a B average in Honours Geography or equivalent for the MA/MSc; at least an A- average at the Master's level for the PhD. Subject to satisfactory performance, the Department of Geography guarantees that full time Master's students will have minimum funding of **\$19,350** in Semesters 1 to 3 and **\$11,850** in Semesters 4 and 5. Doctoral students who have not waived the normal guaranteed minimum funding arrangement and who meet minimum performance requirements are guaranteed a minimum of \$20,850 per year for three years. Because of the close collaborative relationship that typically exists between students and their faculty advisors, excellent support for field work and equipment is usually also provided.

FACULTY:

Aaron A. Berg, PhD, California Irvine, 2003, Professor — physical geography, hydrology, remote sensing
Ben E. Bradshaw, PhD, Guelph, 1999, Associate Professor — environmental governance
Kirby Calvert, PhD, Queen's, 2013, Assistant Professor — energy transitions, resource management, community energy planning
Jaclyn Cockburn, PhD, Queen's, 2008, Associate Professor — sedimentary processes and climate change, watershed hydrology, geomorphology
Ze'ev Gedalof, PhD, Washington, 2002, Associate Professor — physical geography, paleoecology, biogeography, dendrochronology
Philip A. Loring, PhD, Alaska, 2010, Associate Professor — human ecology, food systems, fisheries, sustainability
Faisal, Moola, PhD, Dalhousie, 2005, Associate Professor — forest conservation and management, ecology and ethnoecology of plants, environmental policy, Indigenous-led conservation, heathlands
Noella J. Gray, PhD, Duke, 2009, Associate Professor — political ecology, marine conservation
Eric Nost, PhD, Wisconsin, 2018, Assistant Professor — political ecology, digital geographies and webmapping
Evan Fraser, PhD, UBC, 2002, Professor, Canada Research Chair, and director of the Arrell Food Institute — challenges to global food security in 21st century
Roberta Hawkins, PhD, Clark, 2011, Associate Professor — environment and development, feminist geography
John B. Lindsay, PhD, Western Ontario, 2005, Associate Professor — GIS and spatial analysis, hydro-geomorphology, digital terrain analysis
Kate Parizeau, PhD, Toronto, 2011, Associate Professor — social context of waste management
Jennifer Silver, PhD, Simon Fraser, 2010, Associate Professor — political ecology and ocean governance
John A. Smithers, PhD, Guelph, 1994, Professor and Chair — sustainable agriculture, resource management, local food systems
Wanhong Yang, PhD, Illinois, 2000, Professor — GIS, resource management, spatial analysis

EMERITUS FACULTY:

Gerald Bloomfield, PhD, Nottingham, UK, 1964, Professor — analysis of motor and aircraft industries of the British Isles
Fred Dahms, PhD, Auckland, 1966, Professor — evolution of large urban centres, small rural towns
Robin G. Davidson-Arnott, PhD, Toronto, 1975, Professor — geomorphology, coastal studies
Alun E. Joseph, PhD, McMaster, 1976, Professor — social geography, restructuring, rural community change
Philip Keddie, PhD, Waterloo, 1976, Professor — agricultural geography, sustainable rural community, social geography
Reid D. Kreutzweiser, PhD, Western Ontario, 1978, Professor — resource management, water resources, policy evaluation
Kiyoko Miyanishi, PhD, York, 1984, Professor — plant geography, plant population, dynamics, fire ecology disturbance ecology

William G. Nickling, PhD, Ottawa, 1976, Professor — physical geography, aeolian processes
Barry E. Smit, PhD, McMaster, 1977, Professor and Canada Research Chair — environment and resource use, global change, vulnerability
KC Tan, PhD, London, UK, 1966, Professor — political geography

UNIVERSITY OF OTTAWA

DEPARTMENT OF GEOGRAPHY, ENVIRONMENT AND GEOMATICS

DATE FOUNDED: 1951

GRADUATE PROGRAM FOUNDED: 1954

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

CHAIR: Marc Saner

DEPARTMENT ADMINISTRATIVE ASST: Nathalie Maras

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Graduate Chair, Department of Geography, University of Ottawa, 60 University, Ottawa, Ontario, Canada K1N 6N5. Telephone (613) 562-5725. Fax (613) 562-5145. E-mail: geog@uottawa.ca Internet: <http://arts.uottawa.ca/geography/>

PROGRAMS AND RESEARCH FACILITIES: A part of North America's only major bilingual university (English and French), the Department offers courses and supervision in both English and French. The bilingual character of the Department provides the benefit of exposure to both the English-North American and French schools of thought.

At the M.A., M.Sc. and Ph.D. levels, there are a variety of teaching and research interests in physical, human and environmental geography; see the department website. In physical geography, strengths are in northern studies and climate change and impacts. In human geography, particular strengths are in cities, immigration and boundaries, aboriginal and northern studies. Finally there is interest in GIS, remote sensing, environmental and spatial data analysis.

Students have access to excellent facilities within the Department, including seven research and two teaching laboratories, as well as to the Geographic, Statistical and Government Information Centre, which includes a large map and air photo library. Furthermore, Ottawa offers numerous specialized federal government libraries and the facilities of embassies and consulates. The campus is located near these facilities in the city center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

In the M.A. and the M.Sc. program, one semester of course work is followed by an examination of the thesis proposal and thesis. The Ph.D. program is composed of a semester of course work, followed by a comprehensive examination, a thesis proposal and the thesis.

ADMISSION REQUIREMENTS: Minimum of B+ standing in previous academic work. Exceptions are considered. Unilingual candidates are admissible to the program in Geography, but are expected to acquire a basic knowledge of the second official language of Canada.

FINANCIAL AID: Up to \$72,000 (for 12 sessions) for Ph.D. students; up to \$30,000\$ (for 6 sessions) for M.A. and M.Sc. students; funds are derived from teaching assignments, research assistantships and Faculty of Graduate and Postdoctoral Studies Scholarships. Additional funds may be obtained from contracts and grants. Applicants seeking departmental funding are required to make applications to external scholarships, e.g., SSHRC, NSERC, OGS, etc.

FACULTY:

Kenza Benali, PhD, Montreal, 2008, Associate Professor — urban and cultural geography, sustainable city, postmodern and modern city

Marc Brosseau, PhD, Paris-Sorbonne, France 1992, Professor — social and cultural geographies of urban space, history of French-Canadian geography textbooks, geography and literature interface, geography and literature

Huhua. Cao, PhD, Laval, 1998, Professor — geomatics, ethnic minorities and urban/regional development, geography, spatial inequality and accessibility to social services, mobility and urbanization, regional minority dynamics in China, francophone urban space in Canada, spatial and statistical analysis

Luke Copland, PhD, Alberta, 2001, Professor — climate change, ice dynamics, glaciology, cryosphere, geomatics, remote sensing, GPS

Eric Crighton, PhD, McMaster, 2005, Professor — environmental health, health geography, children's health, social determinants of health, risk perceptions and protective behaviours, health services research

Jackie Dawson, PhD, Waterloo, 2009, Associate Professor — human dimensions of environmental change, vulnerability and adaptation, resilience, marine governance, Arctic economic development

Konrad Gajewski, PhD, Wisconsin, 1983, Professor — biogeography, climatology, statistical analysis of environmental data, climate change and impacts, Quaternary studies, paleoclimatology and paleoecology, global change, GIS

Anders Knudby, PhD, Waterloo, 2009, Associate Professor — remote sensing, spatial analysis, big geodata

Denis Lacelle, PhD, Ottawa, 2006, Associate Professor — cold region geomorphology, permafrost hydrology and weathering processes, origin, stability and habitability of ancient permafrost and ground ice, quaternary paleoclimate and paleoenvironment studies, planetary ice/permafrost studies

Antoni Lewkowicz, PhD, Ottawa, 1981, Professor — permafrost geomorphology and hydrology, effect of global change on Arctic regions, mountain permafrost

Brenda Macdougall, PhD, Saskatchewan, 2005, Associate Professor — Metis history and culture, landscape and memory, digital research, historical processes of identity formation

Brian K. Ray, PhD, Queen's, 1992, Associate Professor — immigrant integration, immigrant women and social networks, social justice,

Marc Saner, PhD, Basel, Switzerland, 1991, Professor and Chair — environmental ethics, governance and ethics of emerging technologies, risk management and governance, interface between science and policy

Michael C. Sawada, PhD, Ottawa, 2001, Professor — GIS, spatial analysis, continental-scale paleoenvironmental change

Luisa Veronis, PhD, Toronto, 2006, Associate Professor — transnationalism, immigrant and citizenship, the formation of immigrant communities and identities, Latin American migrants in Canada, neoliberal governance and the nonprofit sector

Andre Viau, PhD, Ottawa, 2003, Associate Professor — climatology, climate system history and dynamics, abrupt climate change, high latitude climates, global warming, environmental data analysis and modelling and human climate interactions

Sonia Wesche, PhD, Wilfrid Laurier, 2009, Assistant Professor — human dimensions of environmental change, vulnerability and adaptation, food security, aboriginal health, global health

EMERITUS FACULTY:

Hugh French, PhD, South University, 1967 — permafrost geomorphology, polar regions, Pleistocene, Quaternary studies

Anne Gilbert, PhD, Ottawa, 1985 — social and cultural geography, regional geography, minorities and development

Peter Johnson, PhD, Leeds, England, 1969 — geomorphology, Yukon Territory

Bernard Lauriol, PhD, Montreal, 1981 — underground ice, karst geomorphology

Léon Ploegaerts, PhD, Montreal, 1975 — urban and regional planning, urban morphology, territorial legislation

Denis A. St-Onge, PhD, Louvain, Belgium, 1962 — geomorphology, quaternary geology, Arctic

Barry Wellar, PhD, Northwestern, 1969 — urban and regional planning, public policy analysis, research methods

ADJUNCT PROFESSORS:

David Burgess, PhD, Alberta, 2006 — Arctic glaciology

Laurence Gray, PhD, Calgary, 1971 — remote sensing, ice dynamics

Saeid Houmayouni, PhD, Télécom Paris Tech, France, 2006 — remote sensing, GIS

Stephen Howell, PhD, Calgary 2007 — Arctic sea ice

Robert McLeman, PhD, Guelph, 2005 — human vulnerability and adaptation to environmental change

Elena Ponomarenko, PhD, Moscow State, 1986 — ecosystem archaeology, paleoecology, disturbance dynamics, soil science

Sharon Smith, PhD, Carleton, 1992 — permafrost, climate change, environmental impacts of northern development on permafrost terrain

VanWychen Wesley, PhD, Ottawa, 2015 — glaciology, remote sensing

UNIVERSITY OF TORONTO

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1935

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

Geography; M.Sc., Ph.D. Planning

GRANTED 9/1/17 - 8/31/18: 722 Bachelors, 32 Masters, 13

Ph.D. Geography; 25 M.Sc., 4 Ph.D. Planning

STUDENTS IN RESIDENCE: 111 Masters, 123 Ph.D.

CHAIR AND GRADUATE CHAIR: Virginia Maclaren

ADMINISTRATIVE ASST: Maria Wowk

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate or Undergraduate Program Administrator, Department of Geography and Planning, University of Toronto, 100 St. George, Sidney Smith Hall - Room 5047, Toronto, Ontario, Canada M5S 3G3. Telephone (416) 978-3375 Fax (416) 946-3886 E-mail: geograd@geog.utoronto.ca (for graduate programs) or undergrad@geog.utoronto.ca (for undergraduate programs) Website: www.geography.utoronto.ca

PROGRAMS AND RESEARCH FACILITIES: The University of Toronto has a tri-campus graduate program that includes faculty members from the Mississauga, St. George and Scarborough campuses. Each of the three campuses has a separate undergraduate program. The Geography M.A. and M.Sc. programs comprise two terms of graduate coursework and completion of either a thesis or a research paper. The Ph.D. requires completion of two terms of coursework, a comprehensive exam, and the preparation of a doctoral thesis or three publishable papers. This program requires two years in residence.

The Department is prepared to supervise graduate research in climatology, geomorphology, remote sensing, climate change, bioenergy, chemical and physical hydrology, resource and environmental management, cultural and social geography, historical geography, urban design, urban sustainability, economic geography, regional development, urban geography and planning. The Department conducts research on Canada, the United States, Latin America, Africa, Western Europe, and East and South Asia. In addition, the Department offers specialized training in GIS and remote sensing at the Master's and Doctoral levels.

The Department also offers a Master's degree in Planning, a two-year professional degree that is taught by planners and geographers with planning interests and by practitioners from the wider community. Five specializations are offered: urban, economic, social, environmental and urban design. The Ph.D. in Planning, like the Geography Ph.D., is a research degree requiring the preparation of a doctoral thesis. The Ph.D. program has three specializations: Cities in Global Context: Economic Development and Social Planning, Environmental and Sustainability Planning, and Urban Development, Design and the Built Environment.

The Department offers collaborative graduate degrees in Environmental Studies, Environment and Health, Aboriginal Health, Asia-Pacific Studies, Community Development, Diaspora and Transnational Studies, Ethnic and Pluralism Studies, Global Health, Jewish Studies, Sexual Diversity Studies, South Asian Studies and Women and Gender Studies.

The University library, with more than 13 million holdings has the largest collection of books and documents in Canada and is one of the top collections in North America. The Department supports a graduate computing lab, a GIS and remote sensing lab, a GIS and cartography office, and an urban design lab.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan* Year system, with entrance in September. *Admission Requirements* Minimum requirement is a bachelor's degree from a recognized university with at least upper second class standing (B+) for Masters and first class standing (A-) for Ph.D. Exceptions permitted in unusual circumstances. *Financial Aid* All students offered admission, except those in the Master's degree in planning, are guaranteed funding packages of a minimum of \$16,750 plus tuition for one year in the Geography Master's program and four years for the Ph.D. in Geography or Planning. Funding is derived from a mixture of sources including teaching assistantships, research assistantships, University of Toronto fellowships, and other fellowships. Teaching and research assistantships carrying stipends of approximately \$8,000 and \$1,500, respectively are available and involve not more than ten hours work per week. Departmental awards, entrance scholarships, University of Toronto fellowships and external fellowships (Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, Ontario Graduate Scholarships, etc.) range from \$3,000 to \$35,000. Students in the Master's in Planning program may be offered entrance scholarships, teaching assistantships, departmental awards, and research assistantships. Summer employment in the department may be available for students in any of the four graduate programs.

FACULTY:

Christian Abizaid, Ph.D., McGill, 2007, Associate Professor — peasant livelihoods, human responses to environmental change, human-induced environmental change, land use and land cover change, environment and development, neotropical forests, Latin America

Matthew Adams, Ph.D., McMaster, 2015, Assistant Professor — urban pollution (water, air and soil), exposure science, geographic information science, spatial statistics, web cartography

Ahmed Allahwala, Ph.D., York, 2011, Associate Professor, Teaching Stream — urban social policy, participatory action research (PAR), geography education

George B. Arhonditis, Ph.D., University of the Aegean, Greece, 1998, Professor — aquatic biogeochemical modeling, plankton ecology/foodweb dynamics, watershed-aquatic ecosystem interactions, aquatic ecosystem response to climatic variability, modeling of the disinfection by-products (DBPs) formation in water treatment plants

Laurel Besco, Ph.D., University of Ottawa, 2016, Assistant Professor — environmental/sustainability law and policy, green economy, socio-legal dimensions of climate change

Alana Boland, Ph.D., Washington, 2001, Associate Professor — institutional reforms in urban water supply, green developmentalism, environmental governance, urban political economy and environment in the context of water supply and pollution control, sustainable economies, environmental indicators, China

Donald Boyes, Ph.D., Western Ontario, 1998, Associate Professor, Teaching Stream — GIS, remote sensing, fluvial geomorphology

Glenn Brauen, Ph.D., Carleton University, 2012, Assistant Professor, Teaching Stream — cybercartographic mapping, geospatial knowledge models (ontologies), visualization and geographic information systems (GIS), WebMap design utilities

Laura Brown, Ph.D., Waterloo, 2012, Assistant Professor — cryosphere, climate – lake ice interactions, remote sensing and numerical modelling

Michelle Buckley, Ph.D., Oxford, 2012, Assistant Professor — migration and urbanization, intersectional perspectives on work and employment, Marxist philosophy and postcolonial urban frameworks

Ronald N. Buliung, Ph.D., McMaster, 2004, Professor — transportation and land use planning, activity-travel analysis, GIS, spatial analysis, retail innovation and consumer travel

Susannah Bunce, Ph.D., York, 2008, Associate Professor — urban community and neighbourhood geography, urban political ecology, urban sustainability policy and practice, urban residential geography

Jing Chen, F.R.S.C., CRC; Ph.D., Reading, 1986, Professor — climatology/hydrology, carbon cycling, remote sensing, GIS

Tenley M. Conway, Ph.D., Rutgers, 2003, Professor — landscape ecology, land use/cover change, GIS, urban environment, remote sensing, landscape ecology

Deborah Cowen, Ph.D., Toronto, 2005, Associate Professor — geographies of citizenship, security and war, social space, cities, logistics, sub/urban political geography

Amrita G. Daniere, Ph.D., Harvard, 1990, Professor — urban development and investment patterns, urban environmental planning in developing areas, environmental infrastructure, associational life, poverty

Joseph R. Desloges, Ph.D., British Columbia, 1987, Professor — fluvial and glacial geomorphology, lacustrine, Holocene, glaciomarine, human impact, climate change, floodplain geoarchaeology

Pierre Desrochers, Ph.D., Université de Montreal, 2000, Associate Professor — economic geography, entrepreneurship, technology transfer

Richard J. DiFrancesco, Ph.D., McMaster, 1995, Associate Professor — regional economic growth and change, global production networks, global innovation systems

Timothy P. Duval, Ph.D., McMaster, 2010, Assistant Professor — wetland hydrology and biogeochemistry, watershed hydrology and biogeochemistry, stream nutrient dynamics, nitrogen and phosphorus cycling, redox chemistry, terrestrial-aquatic ecotones, wetland restoration and construction

Michael Ekers, Ph.D., Oxford, 2010, Assistant Professor — mobilizes social and political theory and political economic approaches to understand: (1) the production of different environmental landscapes, and (2) the identities of the people that produce environmental spaces and their social positioning in the production process

Steven Farber, Ph.D., McMaster, 2010, Assistant Professor — transport geography, spatial analysis, accessibility, public transportation

Matthew Farish, Ph.D., British Columbia, 2003, Associate Professor — militarism and geopolitics, the Cold War, environmental history, American Studies, urban culture

Alexandra Flynn, ABD, York, Assistant Professor — urban governance, legal geography, municipal and planning law

- Emily Gilbert, Ph.D., Bristol, 1998, Associate Professor — cultural geography, cultural theory, globalization, nationalism, culture and economy, money, nation-states, citizenship, borders, security
- Kanishka Goonewardena, Ph.D., Cornell, 1998, Associate Professor — urbanism and critical theory, planning theory and neoliberal globalization, modernity and nationalism (postcolonial and diasporic)
- William A. Gough, Ph.D., McGill, 1991, Professor — climate change in Hudson Bay, numerical ocean and climate modeling, air quality in southwestern Ontario, climate of Toronto
- Jason Hackworth, Ph.D., Rutgers, 2000, Professor — urban and economic geography, political economy, uneven development, governance, theorizing and understanding neoliberal governance, forms of neoconservative governance (faith-based social welfare), social housing in Canada and the US
- L. D. Danny Harvey, Ph.D., Toronto, 1986, Professor — climate modeling and physical basis of climate, global warming, energy efficiency and renewable energy, energy policy
- Monika Havelka, Ph.D., Western Ontario, 2002, Associate Professor, *Teaching Stream* — urban ecology and restoration ecology
- Yuhong He, Ph.D., Saskatchewan, 2008, Associate Professor — remote sensing, advanced spatial analysis, climate change, grassland productivity and biodiversity and forest disturbance
- Paul Hess, Ph.D., Washington, 2001, Associate Professor — urban design, pedestrian planning, planning history
- Mark Hunter, Ph.D., Berkeley, 2005, Associate Professor — health and inequality, AIDS, sexuality, political economy, critical development studies, South Africa
- Marney Isaac, Ph.D., Toronto, 2008, Associate Professor — agroforestry, agroecology, soil fertility, plant nutrition, localized management knowledge, ecological services, social-ecological systems, social networks, cognitive mapping
- Ryan Isakson, Ph.D., Massachusetts Amherst 2007, Assistant Professor — political economy of food and hunger, rural livelihoods and agrarian transformations, financialization of agro-food value chains
- Themba Kepe, Ph.D., Western Cape, South Africa, 2002, Professor — people-environment interactions, land rights, politics of development projects, southern Africa
- Nicole Klenk, Ph.D., British Columbia, 2008, Assistant Professor — social studies of science, environmental policy, climate change adaptation, environmental governance
- Vincent Kuire, Ph.D., Western University, 2015, Assistant Professor — migration, transnationalism and integration, population health, environment and health, sub-saharan Africa
- Nicole Laliberté, Ph.D., Pennsylvania State, 2013, Assistant Professor, *Teaching Stream* — anti-oppression pedagogies, feminist geopolitics, critical geographies of development, militarization
- Igor Lehnher, Ph.D., Alberta, 2011, Assistant Professor — biogeochemistry of major and trace elements, contaminants, impacts of climate change on aquatic ecosystems
- Deborah Leslie, Ph.D., British Columbia, 1995, Professor — economic geography, cultural industries, feminist geography, cultural industries and urban-economic development, the politics of the creative city
- Robert D. Lewis, Ph.D., McGill, 1992, Professor — urban historical, North America
- Joseph Leydon, Ph.D., Toronto, 1995, Associate Professor, *Teaching Stream* — regional geography of North America, colonial North America and the Caribbean, population dynamics, retail analysis
- Jane Liu, Ph.D., Toronto, 2010, Assistant Professor — atmospheric environment (pollution transport and emission from fires, air quality and health implications, satellite monitoring, modeling), tropospheric and stratospheric ozone, climate change, atmosphere-biosphere interactions (carbon, water, and energy cycles, land surface schemes, biogenic emissions), remote sensing of atmosphere and land ecological modeling
- Kenneth Ian MacDonald, Ph.D. Waterloo, 1995, Associate Professor — international development, politics of biodiversity conservation, transnationalism, cultural politics, identity, consumption, nature-society relations, South Asia
- Virginia Maclaren, Ph.D., Cornell, 1984, Associate Professor and Chair — sustainability indicators, environment management and planning, urban waste management, community indicators, community participation, Southeast Asia
- John Miron, Ph.D., Toronto, 1974, Professor — household formation, migration, housing demand, housing policy location theory, urban spatial structure and change, migration and regional economic growth
- Carl Mitchell, Ph.D., Toronto, 2006, Associate Professor — hydrology, biogeochemistry, mercury and methylmercury, anaerobic soils, wetlands, sulfur cycling, biogeochemical hot spots, snowmelt, redox chemistry, environmental microbiology
- Sharlene Mollett, Ph.D., Toronto, 2006, Assistant Professor — land and natural resource conflicts, political ecology, international development and racialization, Latin America, race, gender and property rights, indigenous peoples and Afro-descendent communities, feminist and post-colonial geographies
- Barbara Murck, Ph.D., Toronto, 1986, Associate Professor, *Teaching Stream* — environmental issues in developing countries
- Rajyashree Narayanareddy, Ph.D., Minnesota, 2011, Assistant Professor — geographies of waste and labour, urban political ecology, global urbanism, cities of the global South, South Asia
- Andrea Olive, Ph.D., Purdue, 2009, Associate Professor — environmental policy, conservation, private property, Arctic politics, indigenous politics, Canada-US relations
- Trevor Porter, Ph.D., Carleton, 2012, Assistant Professor — paleoenvironments, climate change, stable isotope geochemistry, dendrochronology
- Scott Prudham, Ph.D., Berkeley, 1999, Professor — natural resources, environment and society, political economy, political ecology, biotechnology, history and political economy of scientific and industrial forestry, critical theory and/of nature
- Katharine N. Rankin, Ph.D., Cornell, 1999, Professor — gender and development, culture-economy articulations, market regulation, ethnographic models, planning theory, Southeast Asia
- Susan Ruddick, Ph.D., UCLA, 1992, Professor — social theory, philosophy and geography, space and power, social construction of childhood, child rights and policy, social exclusion, governance and citizenship, conflicts in public space, the public sphere
- Rachel Silvey, Ph.D., Washington, 1997, Professor — migration and immigration, Indonesia, feminist theory, critical development studies, Islam and the politics of transnationalism, gender/religion/difference, South East Asia (Indonesia)
- Matti Siemiatycki, Ph.D., British Columbia, 2006, Associate Professor — transportation policy and planning, infrastructure finance and delivery, community and regional planning
- Neera Singh, Ph.D., Michigan State, 2009, Associate Professor — environmental conservation and development, community forestry, forest tenure and forest governance, environmental behavior and subjectivity
- Tat Smith, Ph.D., University of Maine, 1984, Professor — forest ecology and soils, carbon cycling in forest ecosystems, bioenergy from sustainable forestry
- Andre Sorensen, Ph.D., London, 1998, Professor — urban planning, land use change, Japan, citizen's movements, property rights, institutionalism
- Jason Spicer, Ph.D., Massachusetts Institute of Technology, 2018, Assistant Professor — politics of urban and regional economic inequality; urban, regional and community economic development; cooperatives and the social economy
- Sarah Wakefield, Ph.D., McMaster, 2002, Associate Professor — environmental health, civic participation in environmental management, and urban food security, community-based research

Alan Walks, Ph.D., Toronto, 2004, Associate Professor — urban social and political geography, electoral geography, social polarization, housing policy, politics of planning

Mathew G. Wells, Ph.D., Australian National University, 2001, Associate Professor — environmental fluid dynamics, turbulence modeling, mixing and dispersion of nutrients and larvae

Michael Widener, Ph.D., SUNY – Buffalo, 2012, Assistant Professor — access to healthy food and healthcare facilities; Health and transportation geographies; GIS, agent-based modelling, spatial optimization

Kathi Wilson, Ph.D., Queens, 2000, Professor — health geography and First Nations studies

Jun Zhang, Ph.D., Minnesota, 2007, Associate Professor — urban and regional economic development, geographic theorizing of markets, states, and institutions, geography of innovation and entrepreneurship

EMERITI FACULTY:

Larry S. Bourne, Ph.D., Chicago, 1966, Professor Emeritus — urban systems, urban spatial structure, housing, social and spatial inequalities

John N. H. Britton, Ph.D., London, 1966, Professor Emeritus — industrial development and technological policy

Rorke Bryan, Ph.D., Sheffield, 1967, Professor Emeritus — experimental geomorphology, soil conservation, arid lands development

Michael Bunce, Ph.D., Sheffield, 1970, Associate Professor Emeritus — agricultural change in urban regions, rural settlement, rural planning and policy, cultural/environmental production and construction of countryside, sustainable development in small island states

Ian Burton, Ph.D., Chicago, 1962, Professor Emeritus — environmental hazards, perception and decision-making in resource management

Anthony M. Davis, Ph.D., Wisconsin, 1975, Associate Professor Emeritus — biogeography, palynology/paleoecology

Jock H. Galloway, Ph.D., London, 1965, Professor Emeritus — Latin America, historical geography of Brazil, sugar industry

Gordon Gracie, Ph.D., Illinois, 1963, Professor Emeritus — photogrammetric mapping, analytical photogrammetry, survey analysis

Brian Greenwood, Ph.D., Bristol, 1970, Professor Emeritus — coastal geomorphology, nearshore hydrodynamics and sedimentation, morphodynamics

A.P. Lino Grima, Ph.D., Toronto, 1970, Associate Professor Emeritus — environmental management, public participation

Reiner Jaakson, Ph.D., Waterloo, 1972, Professor Emeritus — recreation, survey methods, ecotourism

Thomas F. McIlwraith, Ph.D., Wisconsin, 1973, Professor Emeritus — Ontario landscape, nineteenth-century technology and transport, heritage conservation

D. Scott Munro, Ph.D., McMaster, 1975, Professor Emeritus — microclimatology, hydroclimatology, surface and basin climatology of glaciers, hydrometeorological modeling, remote sensing, energy exchange processes

Anthony G. Price, Ph.D., McGill, 1975, Associate Professor Emeritus — hydrology, forest soils, the Boreal forest of the Canadian Shield, montane forests in subtropical N.E. Mexico

Edward C. Relph, Ph.D., Toronto, 1973, Professor Emeritus — place and humanistic geographies

Vincent B. Robinson, Ph.D., Kent State, 1978, Associate Professor — geographic information science, ecological modeling, spatial analysis

Shoukry T. Roweis, Ph.D., M.I.T., 1973, Professor Emeritus — urban planning and political processes

James W. Simmons, Ph.D., Chicago, 1964, Professor Emeritus — Canadian urban system, growth and policy

Alan Waterhouse, Ph.D., Berlin, 1968, Professor Emeritus — urban design, urban planning policies

UNIVERSITY OF WATERLOO

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: B.E.S., M.A., M.A.-Water, M.E.S., M.E.S.-Water, M.Sc., M.Sc.-Water, M.C.C., C.R.M.-GDip and Ph.D., Ph.D.-Water

GRANTED 9/1/17-8/31/18: 128 Bachelors, 42 Masters, 8 Ph.D.

STUDENTS IN RESIDENCE: 617 Bachelors, 118 Masters, 72 Ph.D.

NOT IN RESIDENCE: 4 Masters, 2 Ph.D.

CHAIR: Richard Kelly

DEPARTMENT ADMINISTRATIVE MANAGER: Susie Castela

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Associate Chair Undergraduate Studies, Geography Program: Dr. Johanna Wandel. E-mail: jwandel@uwaterloo.ca or Associate Chair Undergraduate Studies, Aviation and Geomatics Programs: Dr. Ian McKenzie. E-mail: mckenzie@uwaterloo.ca or Associate Chair Graduate Studies: Dr. Christopher Fletcher. E-mail: chris.fletcher@uwaterloo.ca or Director, Master of Climate Change Program: Dr. Daniel Scott. E-mail: daniel.scott@uwaterloo.ca Department of Geography and Environmental Management, University of Waterloo, 200 University Avenue West, Waterloo, Ontario, Canada N2L 3G1. Telephone (519) 888-4567, ext. 32433. E-mail: geogchair@uwaterloo.ca Internet: <https://uwaterloo.ca/geograp hy-environmental-management/>

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The Department of Geography and Environmental Management, one of five academic units in the Faculty of Environment, offers programs leading to the Bachelor of Environmental Studies (B.E.S.) degree. In addition to the Geography and Environmental Management plan are two additional degree plans. A B.E.S. degree in Geomatics and a B.E.S. degree in Geography and Aviation. The Geomatics Plan builds on the strength of the University of Waterloo expertise in GIS, Remote Sensing, Computer Science, Geodesy and Surveying. The Geography and Aviation Plan couples the BES degree with flight training and leads to a Commercial Pilot Licence. Similar aviation programs offered in the Faculty of Science (Physics and Earth Sciences) incorporate seven Geography courses as program core. In all cases, students become members of the Department in their first year of study. The Honours Co-op Geography and Environmental Management and Geomatics plans provides for alternate terms of practical work experience and academic study. Students may be admitted to the Co-op Plan in the first or second year. In addition to completing the regular series of undergraduate courses, students must complete four work terms. Co-operative Education and Career Services assist students with placement for work terms during which they receive remuneration from their employers. The Honours Regular Geography and Environmental Management Plan is broad in scope, but students may concentrate their courses in one or more of the major areas of specialization: Climate Change and Environment; Earth System Science; Geomatics; Economy and Society. Students may also develop Joint Honours Plans to suit their particular interests. The three-year General Geography and Environmental Management Plan provides a liberal education in environmental studies, with less specialization in Geography than in the Honours Plans.

Through the Mapping, Analysis and Design unit of the Faculty, the Department offers excellent computing facilities, particularly for geographic information systems and remote sensing. Commercial GIS

and remote sensing software are used in teaching and for project work. The eight computer labs are open 24 hours a day, and a Help Desk is available during regular working hours. There are laboratories for undergraduate studies in geomorphology, hydrology and ecology. Field courses are offered in Canada and overseas.

GRADUATE: In co-operation with the Department of Geography and Environmental Studies at Wilfrid Laurier University, located less than 1 km away, the Department operates the Waterloo-Laurier Graduate Program in Geography. Full details of the program are shown in an adjacent section of this guide and also at: <http://geograd.uwaterloo.ca/>. The numbers of Masters and Ph.D. students shown at the start of this submission are for those students who are registered at the University of Waterloo. The total number of students registered in the joint program is 123 Masters, 100 Ph.D. in residence and 2 Masters, 4 Ph.D. not in residence. The Department of Geography and Environmental Management offers programs (not operated under the Waterloo-Laurier joint program) in Climate Change, the Master of Climate Change (MCC) and a new (effective Fall 2018) online Graduate Diploma (GDip) in Climate Risk Management (CRM). The total number of students registered in the MCC program is 30 in residence and 3 not in residence. Full details of the programs can be found at <https://uwaterloo.ca/geography-environmental-management/graduate/climate-change>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: *Academic Plan:* 3 terms (September-December, January-April, May-August). *Admission Requirements:* Information for applicants from the Ontario secondary school system and other provinces in Canada can be found at <https://uwaterloo.ca/find-out-more/admissions>

The university encourages applications from international students. Further information can be found at <http://www.international.uwaterloo.ca/>.

GRADUATE: Full details are shown in an adjacent section of this guide and also at: <https://uwaterloo.ca/geography-environmental-management/graduate>

FACULTY:

Jean Andrey, Ph.D., Waterloo, 1989, Professor — transportation, climatic hazards
John Beebe, Ph.D., Wilfrid Laurier, 1997, Associate Professor — integrated fluvial geomorphology and urban stormwater management and impacts from resource extraction on surface/groundwater interactions
Sarah Burch, Ph.D., British Columbia, 2009, Associate Professor — governing responses to climate change (both adaptation and mitigation) in urban spaces
Daniel Cockayne, Ph.D., Kentucky, 2016, Assistant Professor — cultural geography, critical human geography, economic geography, entrepreneurialism and startup economies, feminist geography, queer geography and sexuality
Peter Deadman, Ph.D., Arizona, 1997, Associate Professor — GIS, resource and environmental management
Brent Doberstein, Ph.D., British Columbia, 2001, Associate Professor — resource and environmental management, international development, environmental impact assessment, hazards
Christine Dow, Ph.D., Swansea, 2014, Assistant Professor — numerical modeling, glacial hydrology, ice dynamics, glaciology data collection
Claude Duguay, Ph.D., Waterloo, 1989, Professor — climate impacts on the cryosphere, numerical modelling and remote sensing of lake ice, climate-lake interactions
Susan Elliott, Ph.D., McMaster University, 1992, Professor — environment and health, health geography, environmental science, urban social geography and planning, research methods

Christopher Fletcher, Ph.D., London, 2005, Associate Professor — using numerical models to investigate large-scale climate processes and climate change
Peter Johnson, Ph.D., McGill, 2010, Associate Professor — application and evaluation of geospatial technologies, especially agent-based models (ABM), geographic information systems (GIS), and the Geospatial Web 2.0 (Geoweb), for decision support systems
Suzanne Kearns, Ph.D., Capella, 2007, Associate Professor — aviation human factors and pilot training, educational theory related to aviation, including the shift towards competency-based education practices and the impact of e-learning in aviation
Richard Kelly, Ph.D., Bristol, 1995, Professor — remote sensing of global snow water equivalent from passive microwave measurements, global change of the cryosphere
Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor — climatology, remote sensing
Yuri Leonenko, Ph.D., Novosibirsk, 1991, Associate Professor — development of Climate Control technologies with an emphasis on Carbon Capture and Storage; modeling and numerical simulation of multiphase flow in porous media, fractures and faults; interactions between CO₂ and reservoir fluids; novel technologies for in situ and ex situ dissolution of CO₂, risk and economic assessments
Jonathan Li, Ph.D., Cape Town, 2000, Professor — satellite remote sensing and urban mapping, intelligent object extraction algorithms, digital terrain modeling and analysis, wireless sensor networks and spatial sensor web, environmental modeling and visualization, WebGIS for disaster management, mobile mapping systems and ubiquitous mapping
Merrin Macrae, Ph.D., Wilfrid Laurier, 2003, Associate Professor — hydrology and chemistry of agricultural runoff, biogeochemical processes in riparian wetlands, effects of disturbance on wetland hydrology and chemistry
Ian McKenzie, Ph.D., Western, 1988, Adjunct Associate Professor & Associate Chair Undergraduate — aviation and geomatics programs
Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor — rural, local economic development, retail
Sanjay Nepal, Ph.D., Switzerland, 1999, Professor — biodiversity conservation and tourism, tourism impacts on the environment, community participation, and local level development through tourism
Erin O'Connell, Ph.D., Waterloo, 2013, Lecturer — post-disaster vulnerability reduction and building sustainable and resilient capacities in disaster-affected communities; emphasis on community-based disaster recovery and reconstruction in Asia; environmental studies, examining the human interactions with the natural world
Paul K. Parker, Ph.D., London, 1990, Professor — resources, local economic development, energy, Japan and Pacific economy
Richard Petrone, Ph.D., Waterloo, 2002, Professor — wetland hydrology and climatology, wetland restoration, land-use change and agriculture
Jonathan S. Price, Ph.D., McMaster, 1988, Professor — hydrology, wetlands
Derek Robinson, Ph.D., Michigan 2009, Associate Professor — center of land use, land management, and the carbon cycle, agent-based modelling as an approach to integrate GIS, ecological, and human decision-making models to evaluate socio-economic contexts and policy scenarios on changes to land use and land cover, ecological function and the provision of ecosystem services, and human well-being
Daniel Scott, Ph.D., York, 1998, Professor — climate change, tourism and recreation, protected areas, resource and environmental management
Steffanie Scott, Ph.D., British Columbia, 2002, Associate Professor — global and regional development processes, gender and ethnicity

Mike Stone, Ph.D., Waterloo, 1992, Professor — environmental planning, water quality, sediment/water interactions, water resources management

Maria Strack, Ph.D., McMaster, 2006, Associate Professor — interactions between ecology, hydrology, biogeochemistry and soil properties in wetland ecosystems

Su-Yin Tan, Ph.D., Cambridge, 2008, Lecturer — geographic information systems (GIS), remote sensing, spatial statistics, ecosystem modelling and environmental monitoring, public health and medical geography applications, climate change

Tara Vinodrai, Ph.D., Toronto, 2005, Associate Professor — economic geography, urban and regional economic development and policy, creative and cultural economy of cities, labour market dynamics and workforce development, design, innovation and technological change

Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor — vulnerability, community based assessment, adaptation and climate change

Nancy Worth, Ph.D., Leeds, 2010, Assistant Professor — economic geography, social geography, feminist geography, social justice, identities and belonging

FACULTY CROSS-APPOINTED FROM OTHER DEPARTMENTS:

Derek Armitage, Ph.D., Waterloo, 2002, Associate Professor — community-based resource management, conservation and development, political ecology, Canada's North and Indonesia

Martine August, Ph.D., Toronto, 2014, Assistant Professor — planning and social justice, political economy of housing, gentrification, displacement, and neighbourhood change, urban redevelopment and the politics of social mix, inequality, poverty, urban marginality

James Craig, Ph.D., Buffalo, 2005, Associate Professor — development of improved numerical and analytical methods for modeling groundwater, surface water, subsurface contaminant transport and the surface water / groundwater interface

Charmaine Dean, Ph.D., Waterloo, 1988, Professor — development of methodology for disease mapping, longitudinal studies, the design of clinical trials, and spatio-temporal analyses; motivated by direct applications to important practical problems in biostatistics and ecology; current main research applications are in survival after coronary artery bypass surgery, mapping disease and mortality rates, forest ecology, fire management, smoke exposure estimation from satellite imagery, and modeling of temporary and intermittent stream flow for flood analysis and predictions

Rob Feick, Ph.D., Waterloo, 2000, Professor — GIS, multi-criteria methods for land management, spatial decision support systems, public facility systems

Bruce Frayne, Ph.D., Queen's, 2001, Associate Professor — sustainable cities, encompassing the three related areas of human migration, urbanization and food security

Brad Fedy, Ph.D., British Columbia, 2006, Assistant Professor — examines factors that influence fitness of animal populations at multiple scales, from genes to landscapes

Heather Hall, Ph.D. Queen's, 2012, Assistant Professor — Circumpolar Innovation- a network that supports research and teaching on commercially viable scientific and technological innovations that will support Northern families, communities and societies; On the Move Partnership- nickel processing component exploring the impacts of labour mobility on source and host communities as well as the respective responses by companies, unions, local and provincial policymakers, community organizations and other organizations; the On the Move Partnership: Employment-Related Geographical Mobility in the Canadian Context is a project of the SafetyNet Centre for Occupational Health & Safety Research at Memorial University

Keith Hipel, Ph.D., Waterloo, 1975, Professor — development and application of conflict resolution, multiple objective decision making and time series analysis techniques from a systems design engineering perspective. The main application areas of these decision technologies are water resources management, hydrology, environmental engineering and sustainable development.

John McLevey, Ph.D., McMaster, 2013, Assistant Professor — social network analysis, science and public policy, sociology of education, environmental sociology, computational social science, information science, research methods

Teferi Mergo, Ph.D., UC Berkeley, 2013, Assistant Professor — development economics, and draw on methods popularized by labour and demographic economists

Markus Moos, Ph.D., British Columbia, 2012, Associate Professor — economy and social structure of cities, generational change and cities, youthification of cities, urban housing markets, residential location and commute patterns, sustainability policy and social justice in cities

Maren Oelbermann, Ph.D., Guelph, 2002, Associate Professor — soil ecosystem dynamics research group with an international team whose work focuses on climate change and the impact of climate change on plant and soil ecosystems, restoration of marginal/degraded lands, and sustainable agriculture (permaculture, intercropping, agroforestry practices, organic farming)

Stephen Quilley, Ph.D., Manchester, 1996, Associate Professor — historical sociology of Norbert Elias and urban regeneration, to the long term dynamics of human ecology, policy-related projects relating to sustainability, urban regeneration, food systems, resilience and social-ecological innovation

Rebecca Saari, Ph.D., Massachusetts Institute of Technology, 2015, Assistant Professor — consequences of climate change and climate policy on human health and environmental inequality

Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making

Larry Swatuk, Ph.D., Dalhousie, 1993, Associate Professor — environmental and natural resource governance and management with a specific focus on water resources, focus on the unintended negative consequences of climate change adaptation and mitigation interventions

Imre Szeman, Ph.D., Duke, 1998, Professor — energy and environmental studies, social and political philosophy, and critical theory and cultural studies

Jason Thistlethwaite, Ph.D., Waterloo, 2011, Assistant Professor — climate change governance, private governance, corporate social responsibility, insurance, risk management

UNIVERSITY OF WESTERN ONTARIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1938

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: BA, BSc, MA, MSc, PhD

GRANTED 9/1/17-8/31/18: 10 Bachelors, 30 Honors (Total), 15 Masters, 8 PhD

STUDENTS IN RESIDENCE: 69 (4-Yr BA), 4 (3-Yr BA), 75 Honors, 30 Masters, 44 PhD

CHAIR: James Voogt, PhD

DEPARTMENT ADMINISTRATIVE OFFICER: Lelanya Milley

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate Administrator, Department of Geography, Western University, London, Ontario N6A 5C2—Telephone: (519) 661-2111,

ext. 85033—Fax: (519) 661-3750 Email: ljohns24@uwo.ca Web Page: <http://www.geography.uwo.ca>

PROGRAMS AND RESEARCH FACILITIES:

The departmental strategic focus is on a theme of “Urban Environments” encompassing the following fields.

Degree Programs (MA, MSc and PhD): The programs emphasize training in research leading to Masters or PhD theses. Students select from a wide range of graduate courses that provide them with the necessary background knowledge and skills for their proposed research and subsequent employment. All students take a seminar course in geographical theory, and in research design and communication. Both Masters and PhD students complete an approved research proposal prior to registering for the thesis. PhD students must also pass a comprehensive examination. All theses go through an oral defense prior to final acceptance. Students are encouraged to publish their research and to present at conferences. There are four major fields of study.

Physical Geography: Studies of urban surface processes in hydrology, geomorphology, climatology, river ecology and environmental change using instrumented field sites, laboratory models, terrain analysis, remote sensing and GIS. Current projects include studies of the urban heat island, water quality in rivers, and fluvial sediment mobilization. Environmental change studies include: paleo environmental reconstructions using paleolimnology and the response of river and vegetation systems to environmental change, and modified climates in urban areas.

Geographic Information Science (GIS): Theoretical and applied studies of geographic information systems (GIS), remote sensing and cartography. Application of GIS to: urban land use, locational analysis, glacier dynamics, and landscape. Applications of remote sensing to resource management, cartography, and earth surface processes (e.g. urban forest cover, river channel form, and urban surface temperatures).

Urban Studies: Urban Studies research focuses on phenomenon and societal issues in the context of cities. The research topics include urban development, urban land and real estate economics, urban morphology, planning, housing, health, history, culture and geomatics. Current projects include research on: decline in the downtown quaternary functions in North American cities; spatial demographics of educational demand; urban environmental influences on childhood obesity; geographic studies of paediatric trauma; urban forms for seniors' independence and mobility; property acquisition and social mobility; spatial patterning of urban crime; geographies of personal networks; urban demographics and housing choices; uncertainty and household mobility; and regional economic development.

Environment, Development and Health: Within this cluster, “environment” is defined in the broadest sense, including aspects of both physical and social environments. Research on the health geography of Canada includes work on environmental hazards and risk perception, environmental inequity, energy justice, health effects of air pollution, and childhood obesity and urban form. Research in international contexts, with regional specialization in Africa and the Caribbean, is examining peasant agriculture, food security and nutrition, HIV-AIDS, and the connections between gender, migration and development. Faculty members in this cluster are also involved in research on food, energy and water resources, climate change, and other aspects of environmental policy and management.

COLLABORATIVE PROGRAMS:

MA, MSc and PhD programs in Geography (Environment and Sustainability) are offered in conjunction with departments in the Faculty of Science and Faculty of Engineering.

MA and PhD programs in Geography (Migration and Ethnic Relations) are offered in conjunction with Departments in the Faculties of Social Science, and Arts and Humanities.

MSc and PhD programs in Geography (Planetary Science and Exploration) are offered in conjunction with the Centre for Planetary Space and Exploration.

MA, MSc and PhD programs in Geography (Global Health Systems in Africa) are offered in conjunction with the Global Health Systems in Africa Program.

RESEARCH FACILITIES: Depending on their area of interest and research needs, graduate students can access a range of biophysical, urban, health and general computing lab facilities. The Department has excellent infrastructure for the measurement, simulation and analysis of environmental processes and paleo environments. In addition, electronic surveying equipment (motorized and conventional total stations, high resolution differential GPS, electronic level) complement image-based (remote sensing and digital photogrammetry) terrain acquisition and analysis software. Computing areas are available for all students. Study space is provided for each graduate student. See the web page for more information about research labs and support.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Master's applicants must have either an Honors Bachelor's degree or equivalent in Geography or a cognate discipline, generally with at least a B+ average from a recognized university and have completed course work to the satisfaction of the department. PhD applicants who hold a Master's degree or equivalent are accepted at the discretion of the department. Financial aid is available to qualified students through university scholarships, teaching assistantships, conference awards, and scholarships from outside agencies. Email the Graduate Administrator for more information.

FACULTY:

Godwin Arku, Ph.D., McMaster, 2005, Associate Professor — urban development
Peter E. Ashmore, Ph.D., Alberta, 1985, Professor — fluvial geomorphology
Bipasha Baruah, Ph.D., York, 2005, Professor (cross with Women's Studies) — women and global issues; Canada Research Chair
Jamie Baxter, Ph.D., McMaster, 1997, Professor — hazards and health geography
Brian Branfireun, Ph.D., McGill 2000, Professor (cross with Biology) — ecohydrology, biogeochemistry, wetlands; Canada Research Chair
Michael Buzzelli, Ph.D., McMaster, 2001, Associate Professor — GIS, housing, urban, environmental and social determinants of health
Irena Creed, Ph.D., Toronto, 1998, Professor (cross with Biology) — watershed biogeochemistry; Canada Research Chair
Jason Gilliland, Ph.D., McGill University, 2001, Professor — urban development, children's health
Jeffrey S.P. Hopkins, Ph.D., McGill, 1992, Associate Professor — cultural, human
Carol Hunsberger, Ph.D., Carleton, 2012, Assistant Professor — political ecology, biofuels, East Africa, energy justice
Fred Longstaffe, Ph.D., McMaster, 1978, Distinguished Professor (cross with Earth Science) — stable isotope science; Canada Research Chair
Isaac Luginaah, Ph.D., McMaster, 2002, Professor — medical, environment health relationships; Canada Research Chair
Jacek Malczewski, Ph.D., Poland, 1987, Professor — economic
Diana Mok, Ph.D., Toronto, 2002, Associate Professor (cross with DAN Department of Management & Organizational Studies) — urban economies, real estate economics, GIS and quantitative methods

Desmond Moser, Ph.D., Queens 1993, Associate Professor (joint with Earth Sciences) — tectonics, geochronology
Katrina Moser, Ph.D., McMaster, 1997, Associate Professor — geology, paleolimnology, biogeography
Chantelle Richmond, Ph.D., McGill, 2007, Associate Professor, CIHR Early Researcher — Aboriginal health, environmental health
Dan Shrubsole, Ph.D., Waterloo, 1989, Professor — resources management
C. Christopher Smart, Ph.D., McMaster, 1983, Professor — hydrology, geomorphology
L. Graham Smith, Ph.D., Waterloo, 1982, Associate Professor — resources management
James A. Voigt, Ph.D., British Columbia, 1995, Associate Professor — urban climatology
Jinfei Wang, Ph.D., Waterloo, 1988, Professor — spatial analysis, GIS
Anthony Weis, Ph.D., Queen's, 2003, Associate Professor — international development policy and practice
Adam Yates, Ph.D., Western, 2009, Assistant Professor — aquatic ecosystems, ecological assessments

WATERLOO-LAURIER GRADUATE PROGRAM IN GEOGRAPHY

DEPARTMENTS OF GEOGRAPHY
UNIVERSITY OF WATERLOO AND WILFRID
LAURIER UNIVERSITY

DATE FOUNDED: 1992

DEGREES OFFERED: M.A., M.E.S., MSc., Ph.D.

GRANTED 9/1/17-8/31/18: 34 Masters, 14 Ph.D.

STUDENTS IN RESIDENCE: 123 Masters, 100 Ph.D.

NOT IN RESIDENCE: 2 Masters, 4 Ph.D.

DIRECTOR: Dr. Steven Roberts, Wilfrid Laurier University

GRADUATE PROGRAM ADMINISTRATOR: Jennifer
 Drowns, Wilfrid Laurier University

FOR FURTHER INFORMATION WRITE TO: The Director's
 Office, Wilfrid Laurier University, 75 University Avenue West
 Waterloo, ON, N2L 3C5 Telephone (519) 884-0710 ext.2325,
 jdrowns@wlu.ca Internet: <http://geograd.uwaterloo.ca/>

PROGRAMS AND RESEARCH FACILITIES OF THE WATERLOO-LAURIER GRADUATE PROGRAM IN GEOGRAPHY: The departments of geography at the University of Waterloo and Wilfrid Laurier University jointly offer graduate work in Geography. The Waterloo-Laurier Graduate Program in Geography is responsible for admissions, for the program of instruction and for the naming of students supervisory committees. Students register at either the University of Waterloo or Wilfrid Laurier University (depending on where the supervisor is located), but will undertake coursework at both universities. Students in the program are governed by the general regulations of the university in which they are registered and their degree is granted by that university. The fields of research specialization in which the program offers training and research guidance at the Masters and Doctoral levels are: (1) environmental and resource management, (2) environmental science, (3) human geography, (4) geomatics. For graduates from a four-year honours program (or equivalent) in Geography, there are two routes for the MA/MES/MSc - (1) the Thesis MSc/MA/M.S and (2) the Research Paper MA/MES. Requirements for the Thesis MA/MES/MSc are five graduate courses and a thesis. Requirements for the Research Paper MA/MES are eight graduate courses and a research paper. For the PhD (after the MA/MES/MSc degree), course requirements vary with the background and needs of the candidate. A dissertation is mandatory. Under special circumstances, a

MSc/MA/MES candidate may transfer to the Ph.D. program without completing a thesis.

Excellent cartographic, photo interpretation, remote sensing, GIS, and computer facilities are available to students in the Joint Program. Graduate student research can sometimes be assisted in financial and other ways by the following University of Waterloo and Wilfrid Laurier research centres and laboratories: Cold Regions Research Centre, Heritage Resources Centre, Wetlands Research Centre, Canadian Water Network Laboratory, Quaternary Sciences Institute, and the Waterloo Laboratory for Earth Observations.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Academic Plan: 3 terms (September-December, January-April, May-August). Admission Requirements - M.A.: B standing (75%) in four-year honours B.A./BES/BSc program or equivalent. Ph.D.: Must possess M.A. (or equivalent) and first-class standing. Financial Aid: Both departments guarantee a minimum level of funding through Teaching Assistantships (offered from September-April) and university scholarships which range in value from \$1,500 to \$7,000. In addition, exceptional students can expect additional scholarships and/or Research Assistantships through faculty research grants.

FACULTY IN THE GEOGRAPHY GRADUATE PROGRAM:

Jean Andrey, Ph.D., Waterloo, 1989, Professor — transportation, climatic hazards
Judy Bates, Ph.D., York, 1997, Associate Professor — local labour markets, gender, self-employment
John Beebe, Ph.D., Wilfrid Laurier, 1997, Associate Professor — integrated fluvial geomorphology and urban stormwater management and impacts from resource extraction on surface/groundwater interactions
Alison Blay-Palmer, Ph.D., Waterloo, 2003, Associate Professor — sustainable food systems, multi-scaled economic development, Cuban organic agriculture, globalization
Sarah Burch, Ph.D., British Columbia, 2009, Assistant Professor — governing responses to climate change (both adaptation and mitigation) in urban spaces
Mary-Louise Byrne, Ph.D., McMaster, 1991, Professor — coastal geomorphology, physical geography
Daniel Cockayne, Ph.D., Kentucky, 2016, Assistant Professor — cultural geography, critical human geography, economic geography, entrepreneurialism and startup economies, feminist geography, queer geography and sexuality
Jonathan Crush, Ph.D., Queen's, 1984, Professor — environment and resources, Hungry Cities partnership
Simon Dalby, Ph.D., Simon Fraser, 1988, Professor — conflict and security, environment and resources, multilateral institutions
Peter Deadman, Ph.D., Arizona, 1997, Associate Professor — GIS, resource and environmental management
Brent Doberstein, Ph.D., British Columbia, 2001, Associate Professor — resource and environmental management, international development, environmental impact assessment, hazards
Sean Doherty, Ph.D., Toronto, 1998, Professor — urban transportation geography GIS, energy efficiency
Christine Dow, Ph.D., Swansea, 2014, Assistant Professor — numerical modeling, glacial hydrology, ice dynamics, glaciology data collection
Claude Duguay, Ph.D., Waterloo, 1989, Professor — remote sensing, modeling, cryosphere, lakes
Susan Elliott, Ph.D., 1992, McMaster University, 1992, Professor — environment and health, health geography, environmental science, urban social geography and planning, research methods
Michael C. English, Ph.D., McGill, 1985, Professor — sub-Arctic delta hydrology and geomorphology, watershed hydrology and chemistry

- Christopher Fletcher, Ph.D., 2005, University College London, Assistant Professor* — large-scale climate dynamics and teleconnections, seasonal-to-decadal climate prediction, land-ocean-atmosphere interaction
- James Hamilton, Ph.D., McMaster, 1996, Associate Professor* — climate change and paleoclimatology, hydrology and geomorphology of karst terrains in cold regions
- Michael Imort, Ph.D., Queen's, 2000, Associate Professor* — cultural-historical geography, environmental history
- Peter Johnson, Ph.D., McGill, 2010, Assistant Professor* — application and evaluation of geospatial technologies, especially agent-based models (ABM), geographic information systems (GIS), and the Geospatial Web 2.0 (Geoweb) for decision support systems
- Suzanne Kearns, Ph.D., Capella, 2007, Associate Professor* — aviation human factors and pilot training, educational theory related to aviation, including the shift towards competency-based education practices and the impact of e-learning in aviation
- Richard Kelly, Ph.D., Bristol, 1995, Professor* — remote sensing of global snow water equivalent from passive microwave measurements, global change of the cryosphere
- Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor* — climatology, remote sensing
- Christopher Lemieux, Ph.D., Waterloo, 2008, Assistant Professor* — policy alternatives and choices, climate change and Canadian identity
- Yuri Leonenko, Ph.D., Novosibirsk, 1991, Associate Professor* — development of climate control technologies with an emphasis on carbon capture and storage; modeling and numerical simulation of multiphase flow in porous media, fractures and faults; interactions between CO₂ and reservoir fluids; novel technologies for in situ and ex situ dissolution of CO₂, risk and economic assessments
- Jonathan Li, Ph.D., Cape Town, 2000, Professor* — satellite remote sensing and urban mapping, intelligent object extraction algorithms, digital terrain modeling and analysis, wireless sensor networks and spatial sensor web, environmental modeling and visualization, WebGIS for disaster management, mobile mapping systems and ubiquitous mapping
- Merrin Macrae, Ph.D., Wilfrid Laurier, 2003, Associate Professor* — biogeochemical cycling in natural and impacted systems under variable climatic regimes
- Philip Marsh, Ph.D., McMaster, 1983, Professor* — hydrology of Arctic Canada with a focus on the effects of snow, ice, permafrost on the hydrology of key northern ecosystems
- Ian McKenzie, Ph.D., Western, 1988, Adjunct Associate Professor & Associate Chair Undergraduate* — aviation and geomatics programs
- Robert McLeman, PhD, Guelph, 2005, Associate Professor* — human dimensions of environmental change
- Robert Milne, Ph.D., Wilfrid Laurier, 2003, Associate Professor* — landscape ecology, environmental monitoring, ecotourism
- Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor* — rural, local economic development, retail
- Alison Mountz, Ph.D., British Columbia, 2003, Professor* — migration and political geography, struggles over border enforcement, asylum, and detention
- Sanjay K. Nepal, Ph.D. Bern, 1999, Professor* — exploring the links between biodiversity conservation and tourism, particularly in areas of resolving conflicts between wildlife agencies and local communities, tourism impacts on the environment (in parks and protected areas, and remote communities), community participation, and local level development through tourism; current research focus is in Nepal, Thailand and Western Canada
- Erin O'Connell, Ph.D., Waterloo, 2013, Lecturer* — post-disaster vulnerability reduction and building sustainable and resilient capacities in disaster-affected communities; emphasis on community-based disaster recovery and reconstruction in Asia; environmental studies, examining the human interactions with the natural world
- Paul K. Parker, Ph.D., London, 1990, Professor* — resources, local economic development, energy, Japan and Pacific economy
- Richard Petrone, Ph.D., Waterloo, 2002, Professor* — wetland hydrology and climatology, wetland restoration, land-use change and agriculture
- Jonathan S. Price, Ph.D., McMaster, 1988, Professor* — hydrology, wetlands
- Bill Quinton, Ph.D., Saskatchewan, 1997, Associate Professor* — Boreal forest hydrology
- Steven Roberts, Ph.D., Waterloo, 2003, Associate Professor* — spatial optimization and spatial data models
- Colin Robertson, Ph.D., Victoria, 2011, Associate Professor* — geographical analysis of dynamic processes, quantitative geography, development and application of methods of spatial and space-time analysis
- Derek Robinson, Ph.D., Michigan 2009, Assistant Professor* — center of land use, land management, and the carbon cycle, agent-based modelling as an approach to integrate GIS, ecological, and human decision-making models to evaluate socio-economic contexts and policy scenarios on changes to land use and land cover, ecological function and the provision of ecosystem services, and human well-being
- Daniel Scott, Ph.D., York, 1998, Professor* — climate change, tourism and recreation, protected areas, resource and environmental management
- Steffanie Scott, Ph.D., British Columbia, 2002, Associate Professor* — global and regional development processes, gender and ethnicity
- D. Scott Slocombe, Ph.D., Waterloo, 1990, Professor* — resource and environmental management, systems approaches, sustainability, ecosystem and landscape management and assessment
- Mike Stone, Ph.D., Waterloo, 1992, Professor* — environmental planning, water quality, sediment/water interactions, water resources management
- Maria Strack, Ph.D., McMaster, 2006, Associate Professor* — interactions between ecology, hydrology, biogeochemistry and soil properties in wetland ecosystems
- Su-Yin Tan, Ph.D., University of Cambridge, 2008, Lecturer* — GIS, remote sensing, spatial statistics, ecosystem modelling and environmental monitoring, public health and medical geography applications, climate change
- Tara Vinodrai, Ph.D., Toronto, 2005, Associate Professor* — economic geography, urban and regional economic development and policy, creative and cultural economy of cities, labour market dynamics and workforce development, design, innovation and technological change
- Jason Venkiteswaran, Ph.D., Waterloo, 2009, Assistant Professor* — biogeochemical cycling of nutrients and related elements, human- and climate-related disruptions
- Margaret Walton-Roberts, Ph.D., British Columbia, 2001, Professor* — immigration, population
- Johanna Wandel, Ph.D., Guelph, 2006, Associate Professor* — vulnerability, community based assessment, adaptation and climate change
- Brent Wolfe, Ph.D., Waterloo, 1997, Professor* — isotope hydrology and paleohydrology, paleolimnology, climate change
- Nancy Worth, Ph.D., Leeds, 2010, Assistant Professor* — economic geography, social geography, feminist geography, social justice, identities and belonging

FACULTY CROSS-APPOINTED FROM OTHER DEPARTMENTS:

- Derek Armitage, Ph.D., Waterloo, 2002, Associate Professor* — community-based resource management, conservation and development, political ecology, Canada's North and Indonesia

- Martine August, Ph.D., Toronto, 2014, Assistant Professor* — planning and social justice, political economy of housing, gentrification, displacement, and neighbourhood change, urban redevelopment and the politics of social mix, inequality, poverty, urban marginality
- Jennifer Baltzer, Ph.D., Toronto, 2005, Associate Professor* — functional basis of plant species distributions, forest ecosystems including tropical, temperate and boreal forests
- James Craig, Ph.D., Buffalo, 2005, Associate Professor* — development of improved numerical and analytical methods for modeling groundwater, surface water, subsurface contaminant transport and the surface water / groundwater interface
- Charmaine Dean, Ph.D., Waterloo, 1988, Professor* — development of methodology for disease mapping, longitudinal studies, the design of clinical trials, and spatio-temporal analyses; motivated by direct applications to important practical problems in biostatistics and ecology; current main research applications are in survival after coronary artery bypass surgery, mapping disease and mortality rates, forest ecology, fire management, smoke exposure estimation from satellite imagery, and modeling of temporary and intermittent stream flow for flood analysis and predictions
- Rob Feick, Ph.D., Waterloo, 2000, Professor* — GIS, multi-criteria methods for land management, spatial decision support systems, public facility systems
- Bruce Frayne, Ph.D., Queen's, 2001, Associate Professor* — sustainable cities, encompassing the three related areas of human migration, urbanization and food security
- Brad Fedy, Ph.D., British Columbia, 2006, Assistant Professor* — examines factors that influence fitness of animal populations at multiple scales, from genes to landscapes
- Heather Hall, Ph.D. Queen's, 2012, Assistant Professor* — Circumpolar Innovation- a network that supports research and teaching on commercially viable scientific and technological innovations that will support Northern families, communities and societies; On the Move Partnership- nickel processing component exploring the impacts of labour mobility on source and host communities as well as the respective responses by companies, unions, local and provincial policymakers, community organizations and other organizations. The On the Move Partnership: Employment-Related Geographical Mobility in the Canadian Context is a project of the SafetyNet Centre for Occupational Health & Safety Research at Memorial University
- Keith Hipel, Ph.D., Waterloo, 1975, Professor* — development and application of conflict resolution, multiple objective decision making and time series analysis techniques from a systems design engineering perspective. The main application areas of these decision technologies are water resources management, hydrology, environmental engineering and sustainable development
- Alex Lata, Ph.D., York, 2005, Associate Professor* — environmental citizenship, environmental justice, political ecology, Latin American politics, Chile, environment, energy, resources, Indigenous Peoples
- Haiying Lin, Ph.D., George Mason, 2010, Assistant Professor* — cross-sector partnership for complex environmental issues, strategic alliances for sustainability, corporate sustainability strategy, voluntary environmental programs, stakeholder involvement in environmental governance, and corporate sustainability in the emerging economies
- John McLevey, Ph.D., McMaster, 2013, Assistant Professor* — social network analysis, science and public policy, sociology of education, environmental sociology, computational social science, information science, research methods
- Teferi Mergo, Ph.D., UC Berkeley, 2013, Assistant Professor* — development economics, methods popularized by labour and demographic economists
- Markus Moos, Ph.D., British Columbia, 2012, Associate Professor* — economy and social structure of cities, generational change and cities, youthification of cities, urban housing markets, residential location and commute patterns, sustainability policy and social justice in cities
- Brenda Murphy, Ph.D., Guelph, 2001, Associate Professor* — community vulnerability and capacity in the management of both natural and technological risks and disasters
- Maren Oelbermann, Ph.D., Guelph, 2002, Associate Professor* — soil ecosystem dynamics research group with an international team whose work focuses on climate change and the impact of climate change on plant and soil ecosystems, restoration of marginal/degraded lands, and sustainable agriculture (permaculture, intercropping, agroforestry practices, organic farming)
- Stephen Quilley, Ph.D., Manchester, 1996, Associate Professor* — historical sociology of Norbert Elias and urban regeneration, to the long term dynamics of human ecology, policy-related projects relating to sustainability, urban regeneration, food systems, resilience and social-ecological innovation
- Rebecca Saari, Ph.D., Massachusetts Institute of Technology, 2015, Assistant Professor* — consequences of climate change and climate policy on human health and environmental inequality
- Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor* — collective decision making
- Larry Swatuk, Ph.D., Dalhousie, 1993, Associate Professor* — environmental and natural resource governance and management with a specific focus on water resources, focus on the unintended negative consequences of climate change adaptation and mitigation interventions
- Imre Szeman, Ph.D., Duke, 1998, Professor* — energy and environmental studies, social and political philosophy, critical theory and cultural studies
- Jason Thistlethwaite, Ph.D., Waterloo, 2011, Assistant Professor* — climate change governance, private governance, corporate social responsibility, insurance, risk management

WILFRID LAURIER UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1960

GRADUATE PROGRAM FOUNDED: 1965

DEGREES OFFERED: BA, BSc, MA, MES, MSc, PhD

GRANTED 06/1/18-12/1/18: 47 Bachelors, 10 Masters, 6 PhD (WLU only)

STUDENTS IN RESIDENCE: 230 Majors, 34 Masters, 27 PhD (WLU only) (for total Masters and PhD numbers, refer to Waterloo-Laurier Graduate Program in Geography section)

CHAIR: Sean Doherty

DEPARTMENT ADMINISTRATIVE ASST: Susan Lankowski

GRADUATE PROGRAM ADMINISTRATORS: Jennifer Drowns (WLU), Alan Anthony (UW)

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Undergraduate Officers: Dr. J. Hamilton (Geography) or Dr. M.L. Byrne (Environmental Studies); Graduate Coordinator: Dr. M. Walton-Roberts; Director Joint Program: Dr. S. Roberts. Department of Geography and Environmental Studies, Wilfrid Laurier University 75 University Avenue West, Waterloo, Ontario, Canada N2L3C5. Telephone (519) 884-0710, ext. 2160. Fax (519) 725-1342 Internet: <http://www.wlu.ca>

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The Department offers a variety of undergraduate programs including four four-year honours BA and four four-year honours BSc programs. Each program promotes breadth within the discipline while allowing student selected specialization. The areas of specialization within the Department are physical geography, resource and environmental management, human geography, environmental science and geomatics. Honours students may participate in the co-op program, which offers work terms in the private or public sector.

GRADUATE: Refer to Waterloo-Laurier Graduate Program in Geography section.

Excellent cartographic, photo interpretation, remote sensing, GIS, and computer facilities are freely available to both graduate and undergraduate students. In addition, the university operates a multidisciplinary Cold Regions Research Centre. Members are currently involved in research in high latitude or mountainous regions and are concerned with topics involving human habitation and resource extraction as well as environmental science. The Centre is well equipped with field equipment and computer facilities. The Centre actively encourages undergraduate and graduate students to become involved in cold regions research, and sponsors a series of research symposiums.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

GRADUATE: Refer to Waterloo-Laurier Graduate Program in Geography section.

FACULTY:

Alison Blay-Palmer, Ph.D., Waterloo, 2003, Associate Professor — sustainable food systems and communities, green economic development

Mary-Louise Byrne, Ph.D., McMaster, 1991, P.Geo., 2004, Professor — coastal geomorphology, physical geography

Johnathan Crush, Ph.D., Queen's, 1983, Professor — human security, migrant movements, environmental and resource stresses including climate change food insecurity, declining biodiversity, and water shortages

Simon Dalby, Ph.D., Simon Fraser, 1988, Professor — anthropocene geopolitics, climate change, environmental security

Sean T. Doherty, Ph.D., Toronto, 1998, Professor — health, physical activity, diabetes, obesity, local food, parks, tourism, Global Positioning Systems

Michael C. English, Ph.D., McGill, 1985, Professor — temperate and Arctic, watershed hydrology and chemistry, sub-Arctic delta hydrology and geomorphology

Rob Gordon, Ph.D., Guelph, Provost & Vice President: Academic — environmental resource management

James Hamilton, Ph.D., McMaster, 1996, Associate Professor — climate change and paleoclimatology, hydrology and geomorphology of Karst terrains in cold regions

Michael Imort, Ph.D., Queen's, 2000, Associate Professor — cultural, historical, symbolic landscapes, landscape and nationalism, environmental history

Christopher Lemieux, Ph.D., Waterloo, 2008, Associate Professor and Dr. J. McMurtry Research Chair in Environmental Geography — resource and environmental policy and management, climate change, institutional analysis, sustainability, science-policy interface

Philip Marsh, Ph.D., McMaster, 1983, Professor and Canada Research Chair — climate change, hydrology, vegetation, permafrost, remote sensing

Rob Milne, Ph.D., Wilfrid Laurier, 2003, Associate Professor — landscape ecology, environmental monitoring, ecotourism

Robert McLeman, Ph.D., Guelph, 2005, Associate Professor — environmental migration, climate change adaptation

Alison Mountz, Ph.D., British Columbia, 2003, Professor and Canada Research Chair — political, feminist, urban geography, migration

William L. Quinton, PhD, Saskatchewan, 1997, Professor and Canada Research Chair — hydrology, GIS geochemical cycling, climate change, environmental management

Steven Roberts, Ph.D., Waterloo, 2003, Associate Professor — spatial optimization and spatial data models

Colin Robertson, Ph.D., Victoria, 2011, Associate Professor — GIS, spatial analysis, animal/human health interface, landscape scale spatial models

Bob G. Sharpe, Ph.D., York, 1990, Associate Professor — social, economic, development, GIS, geographic education

Miguel Sioui, Ph.D., Carleton, 2018, Assistant Professor — Indigenous knowledges (IKs) in the Americas, environmental management, environmental ethics

D. Scott Slocombe, Ph.D., Waterloo, 1990, Professor — resource and environmental management, systems approaches, sustainability, ecosystem and integrated management, management assessment

Jason Venkiteswaran, PhD, Waterloo, 2009, Assistant Professor — catchment, stream, and lake biogeochemistry, human and climate related disruptions of nutrients and related elements

Margaret Walton-Roberts, Ph.D., British Columbia, 2001, Professor — immigration, ethnicity, South Asian transnational practices

Brent Wolfe, Ph.D., Waterloo, 1997, Professor — past and present hydroecology of northern lake-rich landscapes

CROSS-APPOINTED FACULTY:

Jennifer Baltzer, Ph.D., Toronto, 2005, Associate Professor and Canada Research Chair — forest ecosystems including tropical, temperate and boreal forests, global change

Alex Latta, Ph.D., York, 2005, Associate Professor — environmental citizenship and justice, political ecology, Latin American politics, Chile, environment, energy, resources, Indigenous Peoples

Brenda Murphy, Ph.D., Guelph, 2001, Professor — community vulnerability and capacity in the management of both natural and technological risks and disasters

YORK UNIVERSITY

GRADUATE PROGRAM IN GEOGRAPHY DEPARTMENT OF GEOGRAPHY, FACULTY OF LIBERAL ARTS & PROFESSIONAL STUDIES

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1967

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/18-8/31/19: 7 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 245 Majors (Undergraduate), 32 Masters, 37 Ph.D.

GRADUATE DIRECTOR: P. Vandergeest

DEPARTMENT CHAIR: J. Mensah

DEPARTMENT ADMINISTRATIVE ASST: K. Cheema

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Graduate: Peter Vandergeest, Director, Graduate Program in Geography; Undergraduate: Steven Tufts, Director of the Undergraduate Program, Department of Geography, Faculty of Liberal Arts & Professional Studies, York University, 4700 Keele St., Toronto, Ontario, Canada M3J 1P3. Telephone (416) 736-5106 (graduate); (416) 736-5107 (undergraduate). Fax (416) 736-5988. Internet: www.yorku.ca/laps/geog

PROGRAMS AND RESEARCH FACILITIES: The Geography Department offers undergraduate degrees in both the Faculty of Liberal Arts & Professional Studies and the Faculty of Science, and a

certificate program in GIS and Remote Sensing. Geography majors intending to pursue a teaching career may apply to co-register in the Faculty of Education in their second year. More than 70 courses are offered by the department each year in a full range of topics leading to either a B.A. or B.Sc. degree. The Department also offers a B.Sc. in Environmental Science. Students can take a 90-credit Bachelor Program or, if grade point average permits, choose from among several 120-credit Honors Bachelor Programs, many of them interdisciplinary in nature, including a Specialized Honors B.A. in Geography & Urban Studies.

GRADUATE: Doctoral research is offered in two fields of specialization: Biophysical Processes and Critical Human Geography. The PhD degree requires 2.5 full courses and comprehensive examinations in preparation for dissertation research. Extensive opportunities for professional development in teaching and research skills are available. Support for fieldwork and research costs, as well as conference attendance is available. MA/MSc candidates choose one of two programs: (a) 2 full course equivalents and a thesis, (b) 3 full course equivalents and a major research paper. Research strengths in Critical Human Geography include: Development Studies; Feminist Geographies; Globalization: Economic Restructuring and Cultural Politics; Labour Geography and Labour Market Regulation; Nationalism, Citizenship, Empire and the State; Political Ecology, Landscape and Socio-Nature; Immigrant Communities, Migration and Transnationalism; and Urban Spaces and Social Issues. In Biophysical Processes research strengths include: Biogeography and Biogeochemistry; Fluvial Geomorphology and Hydrology; Geoinformatics; Northern Environments; and Streams, Wetlands and Watersheds. The Graduate Program in Geography also has close ties with interdisciplinary research units at York: the City Institute; York Centre for Asian Research; the Centre for Research on Latin America and the Caribbean; the Centre for Research on Work and Society; the Centre for Refugee Studies; the Centre of Excellence for Research on Immigration and Settlement; and the Institute for Research and Innovation in Sustainability.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: Full year program in the Faculty of Liberal Arts & Professional Studies and Faculty of Science. Information on admission requirements and financial assistance is available from the York University Admissions Office.

GRADUATE: Admission to MA/MSc study requires a recognized Honors degree, or equivalent qualification, with a minimum B (or second class) standing. Doctoral applicants are expected to have completed an MA/MSc by the time they enter the program with a minimum B+ average. Funding packages are offered to all graduate students, based on a combination of teaching assistantships, graduate assistantships and scholarships. Funding is provided to doctoral students for up to 6 years of study, and to Masters students for up to 2 years.

GRADUATE FACULTY:

- Alison Bain, Ph.D., Cambridge, 2002, Associate Professor* — urban social, urban cultural, and feminist geography; creative city theory and cultural planning; geographies of artistic labour, creative practice, and cultural production; redevelopment and social inclusion in neighbourhoods, cities and suburbs; public space contestations and interventions; gender and sexual identity politics
- Ranu Basu, Ph.D., University of Toronto, 2002, Associate Professor* — urban social and political geography/planning; theories of collective action and community organization; inequality and social justice; geographies of public education; geographic information systems (GIS) in the social sciences
- Richard Bello, Ph.D., McMaster, 1983, Associate Professor* — climate of northern environments; response of the hydrological cycle and carbon budget to global warming

- Kean Birch, Ph.D., Oxford Brookes, 2007, Assistant Professor* — economic geography; regional socio-economic development; European regional policy; knowledge economies; the emerging bioeconomy; varieties of neoliberalism and neoliberal restructuring; marketization through public-private partnerships; corporate power and governance
- Jon Caulfield, Ph.D., York, 1991, Associate Professor Emeritus* — downtown Toronto neighbourhoods; residential redevelopment of deindustrialized space in inner Toronto; old church buildings in inner Toronto; use of photographs in urban research
- Qiuning Cheng, Ph.D., Ottawa, 1994, Professor* — GIS system development; spatial statistics and fractal modeling; spatial decision support system; non-linear image processing and pattern recognition; mineral resources assessment; water system modeling; mathematical geology
- Raju Das, Ph.D., Ohio State, 1996, Professor* — political economy of Third World development; state theory and state-society relations; social capital; social movements; agro-globalization; South Asia
- Taly Drezner, Ph.D., Arizona State, 2001, Associate Professor* — biogeography; arid lands; disturbance, invasion and dispersal
- Lisa Drummond, Ph.D., Australian National University, 2000, Associate Professor* — urban geography; gender; Southeast Asia; postcolonial cities; Asian popular culture; Vietnam
- Bryn Greer-Wooten, Ph.D., McGill, 1968, Professor Emeritus* — ontological and epistemological bases of geographic research relationships between social research and public policy processes, especially resource management (energy, global climate change) phenomenology of environment, especially women's narratives
- Christian Haas, Ph.D., University of Bremen, 1996, Professor* — sea ice and snow thickness; ocean-ice atmosphere interaction; Arctic climate change; airborne geophysics, satellite remote sensing
- Lam Hae, Ph.D., Syracuse, 2007, Associate Professor* — urban political economy, neoliberal urbanism, politics of urban subcultures, legal geographies, the right to the city
- Baoxin Hu, Ph.D., Boston, 1998, Associate Professor* — remote sensing of vegetation; photogrammetry; canopy modeling
- Jennifer Hyndman, Ph.D., University of British Columbia, 1996, Professor* — geographies of forced migration/immigration; humanitarian aid in response to conflict/asylum/disasters; refugee (re)settlement; critical and feminist geopolitics
- William Jenkins, Ph.D., Toronto, 2001, Associate Professor* — cultural and historical geography; comparative geographies of Irish diasporas; immigration and North American urban history; Canada and the British imperial world; Irish-Canadian studies
- Roger Keil, Ph.D., Johann Wolfgang Goethe University, 1992, Professor* — urban politics and governance; urban political ecology; global cities and infectious disease
- Philip Kelly, Ph.D., University of British Columbia, 1997, Professor* — economic geography; labour; immigration and Canada-Asia transnationalism; Philippine and Southeast Asian development
- Stefan Kipfer, Ph.D., York University, 2004, Associate Professor* — theories of society, politics and the city; comparative urban-regional politics and planning; urban social movements and restructuring; colonization, racialization and urbanization; suburbanization, territorial relations and regional planning; public housing; gentrification, privatization and redevelopment
- Jennifer Korosi, Ph.D., Queen's, 2012, Assistant Professor* — environment, global/climate change, limnology, biogeography, biogeochemistry
- Ute Lehrer, Ph.D., University of California, Los Angeles, 2002, Associate Professor* — cities and globalization; economic restructuring and urban form; political economy of the built environment; theory and history of planning, urban design and architecture; built environment, ethnicity and immigration to urban areas

Lucia Lo, Ph.D., Toronto, 1988, Professor Emeritus — consumer preferences and shopping behaviour; immigrant settlement and urban landscape change; ethnic entrepreneurship and ethnic economies; Chinese immigrants in Toronto; Geomatics and immigrant settlement services; spatial interaction modeling and transportation demand analysis

Christopher Lortie, Ph.D., British Columbia, 2001, Associate Professor — community; biogeography; invasion biology; climate change; stress interactions

Elizabeth Lunstrum, Ph.D., Minnesota, 2007, Associate Professor — environmental politics in conflict, post-conflict, and transnational spaces; violence and spatial relations; territory and state formation; gender relations; politics of human mobility; southern Africa

Joseph Mensah, Ph.D., Alberta, 1993, Professor — critical development theory and Africa; gender and development; space, race, and employment; geography of Aboriginal land claims

Lewis A. Molot, Ph.D., Alaska, 1981, Professor — limnology, biogeochemistry; organic carbon fluxes

Jean Michel Montsion, Ph.D., McMaster, 2009, Associate Professor — urban social and political geography; ethnicity; indigeneity; gateway cities; Singapore

Glen B. Norcliffe, Ph.D., DSc., Bristol, 1970, Professor Emeritus — industrial restructuring; global economy; cultural production

Linda Peake, Ph.D., Reading, 1983, Professor — feminist geography; gender, race and class relations in urban environments; urban-political geography; methodologies; Guyana

Justin Podur, Ph.D., Toronto, 2006, Associate Professor — environmental modeling; forest fires; landscape fire modeling; climate change

Valerie Preston, Ph.D., McMaster, 1978, Professor — gender and urban labour markets; immigration and Canadian cities; transnational migration and citizenship; social geography

Roberto Quinlan, Ph.D., Queen's, 2000, Associate Professor — aquatic ecology; limnology; paleoecology

John P. Radford, Ph.D., Clark, 1974, Professor Emeritus — social geography of the nineteenth century city; internal structure of cities in the United States South; public policy and intellectual disability

Tarmo Remmel, Ph.D., Toronto, 2005, Associate Professor — multi-dimensional measurement and comparison of spatial patterns; spatial accuracy assessment; forest land cover change; post-disturbance vegetation recovery; open-source GIS/RS algorithm development

André Robert, Ph.D., Cambridge, 1988, Associate Professor — form and process in rivers; experimental fluvial studies

Anders L. Sandberg, Ph.D., McGill University, 1985, Professor — resource management; forest and environmental history

Jamie Scott, Ph.D., Chicago, 1990, Professor — geography and religion; geography and literature; geography and postcolonialism

Steven Tufts, Ph.D., York, 2003, Associate Professor — geographies of organized labour; labour union renewal; young workers and community economic development; workers in spaces of production/consumption

Peter Vandergeest, Ph.D., Cornell, 1989, Professor — environments and identities in Southeast Asia; agro-food systems and industrial aquaculture; cultural politics of development

Patricia K. Wood, Ph.D., Duke, 1995, Professor — citizenship; diversity and politics of identity; urban geography; native/non-native relations; immigration and multiculturalism; western Canada; feminist geography; historical geography; use of non-traditional sources

Douglas Young, Ph.D., York, 2006, Associate Professor — politics of urban planning and development; legacies of modern urbanism; urban infrastructure

Kathy L. Young, Ph.D., McMaster, 1996, Professor — arctic wetland hydrology; slope hydroclimatology; regional snowmelt modeling

Anna Zalik, Ph.D., Cornell, 2006, Associate Professor — global humanitarian/development studies, international aid industry, oil industry, political economy, comparative historical studies, post-coloniality

QUEBEC

CONCORDIA UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING AND ENVIRONMENT

DATE FOUNDED: 1959

DEGREES OFFERED: B.A. Human Environment, B.A.

Urban Studies, B.A. Urban Planning, B.Sc.

Environmental Geography, B.Sc. Environmental Science,

Graduate Diploma (Environmental Assessment), M.Sc.

(Geography, Urban and Environmental Studies), Masters

of Environment (Environmental Assessment), Ph.D.

(Geography, Urban and Environmental Studies)

GRANTED 9/1/17-5/30/18: 140 Bachelors, 4 Diplomas, 32 Masters

STUDENTS IN RESIDENCE: 999 Specializations and Majors, 108 Masters, 10 Diplomas, 22 Ph.D.s

CHAIR: Pascale Biron

DEPARTMENT ADMINISTRATOR: Anne Pollock-McKenna

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Concordia University, Department of Geography, Planning and Environment, 1455 de Maisonneuve Blvd.

West, Montreal, Quebec, Canada H3G 1M8. Telephone (514) 848-2424 extension 2050. E-mail: Geogplanenviro@concordia.ca

Internet: <http://gpe.concordia.ca/>

PROGRAMS AND RESEARCH FACILITIES: The Department is located in the Hall building on the main campus in downtown Montréal. It has laboratories for cartography, GIS, and physical geography, and urban planning. Montréal is one of the oldest cities in North America and a vibrant bi-cultural and cosmopolitan city with a prominent international profile. All this provides a stimulating intellectual environment, considerably strengthened by the resources of four large universities which cooperate in many joint projects. The city is an excellent milieu for policy-oriented studies, since it is the home of several international environmental organizations, including the headquarters of the International Union for the Conservation of Nature (IUCN), the Commission on Environmental Cooperation and most recently the Secretariat of Future Earth.

Undergraduate: The Department's curriculum is built around the themes of human environment relationships, the built environment, and environmental science. It offers a full range of B.A. and B.Sc. degrees in these area from a 42 credit Major to a 60 credit Honors or Specialization. BA students take courses in both human and physical geography as well as a range of techniques (GIS, cartography, statistical, research and field methods). The Department also offers BA programs in Urban Studies and Urban Planning as well as a multi-disciplinary BSc in Environmental Science. Building on the Department's strengths in GIS, remote sensing and the geoweb, new this year are both a Certificate and a Minor in Geospatial Technologies.

Graduate: The Department offers a Doctorate and a Masters of Science in Geography, Urban and Environmental Studies. These

programs are designed to provide students with the theoretical foundation and methodological tools necessary to contribute to the understanding of human interventions in the environment. Through its emphasis on specialization and interdisciplinary perspectives, students are given the opportunity to carry out in-depth research work in any of the Department's areas of specialization covering three broad categories of environment: the natural or bio-physical environment; the human, cultural or behavioural environment; and the urban, built or designed environment. In addition to contributing to the advancement of knowledge, students are well placed to enter a wide range of careers in environmental, urban planning and public policy fields.

The Department also offers an internship based Masters of Environment (Environmental Assessment) and a course based Graduate Diploma in Environmental Assessment. Our Environmental Assessment programs blend theory, current research, assessment techniques and skills so that students enter internships knowledgeable and well trained. Our interns have been very well received in government, business, industry and NGOs alike.

Areas of established strength are environmental issues and problems, sustainable transportation, urban and metropolitan problems, climate change, river restoration, landscape ecology, community-based conservation, and industrial restructuring.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Undergraduate degrees at Concordia for out of province students are four-year programs requiring a minimum of 120 credits. The University encourages both full-time and part-time students to apply. Applicants for the M.Sc. Geography, Urban and Environmental Studies program should have an undergraduate degree (B.A. or B. Sc.) in Geography, Planning, Environmental Science, or an equivalent degree in a related field of study from a recognized university. Applicants for the Masters of Environment (Environmental Assessment) and the Graduate Diploma in Environmental Assessment should have an undergraduate degree in an appropriate field plus knowledge of ecology and geographic information systems with graduation GPAs of 3.3 and 2.7, respectively. Deficiencies may be remedied by appropriate undergraduate courses at Concordia. Applicants for the Ph.D. Geography, Urban and Environmental Studies program should have Master of Arts or a Master of Science in Geography, Urban Planning, Environmental Science, or a related field of study from a recognized university. Applicants are selected on the basis of a sound undergraduate academic record, strong letters of recommendation, and a convincing statement of purpose which clearly describes their academic interest in the program and intended area of research. In addition, admission is contingent on the availability of an appropriate faculty member in the Department to serve as supervisor. Teaching assistantships are available within the department, and there are opportunities for students to become Research Assistants in one of our many research facilities. Bursaries and scholarships are also available. Applicants are also encouraged to apply for external scholarships from SSHRC, NSERC, FRQNT, and FRQSC.

FACULTY:

Aiken, S. Robert, Emeritus Professor — tropical deforestation, cultural geography, developing country environmental issues
Akbulut, Bengi, Assistant Professor — ecological economics, political ecology and economic geography, political economy of development, feminist economics
Anderson, Jacqueline M., Emeritus Associate Professor — cartographic visualization and design, map user abilities, map skills education
Biron, Pascale, Professor and Chair — hydro-geomorphology and river dynamics, river management in agricultural watersheds, geographical information systems, morpho-dynamic numerical modelling, stream restoration for fish habitat

Caquard, Sébastien, Associate Professor and Graduate Program Director (MEnv) — mapping narratives, cinematic cartography, geomedias and the geoweb
De la Lata, Silvano, Assistant Professor — public space, participatory community planning, urban design, social movements and the right to the city, urban sociology, open-source urban systems, planning history, urban acupuncture, urban spatial theory, subaltern urbanisms
Gauthier, Pierre, Associate Professor — urban morphogenesis, history of development and planning practices in Quebec, impact of normative planning theories on urban form, transportation infrastructure and the quality of urban form
Gould, Kevin, Associate Professor — political ecology, critical geography, conservation and development, Cold War Latin America, Guatemala
Jaeger, Jochen, Associate Professor — landscape ecology, including road ecology, quantification and assessment of landscape structure and landscape change, urban sprawl, ecological modelling, impact assessment
Kross, Angela, Assistant Professor — remote sensing, geographic information systems, ecosystem structure and function, vegetation dynamics, land use change and climate change
Matthews, Damon, Associate Professor, CURC Chair, and Graduate Program Director (MSc/PhD) [June 1-December 31] — climate change, global climate modeling
Mulrennan, Monica E., Associate Professor and Vice Provost of Graduate Studies and Research — indigenous resource management, community-based conservation, local adaptation to environmental change, protected areas
Mohabir, Nalini, Assistant Professor — postcolonial migrations, Caribbean diaspora, indentureship
Nash, Alan E., Professor — cultural geography, restaurants in Montreal, gravestones in Iceland and the Caribbean
Patterson, Zachary, Associate Professor and CRC Chair — modeling of transportation, land-use and their linkages
Rantisi, Norma, Professor and Graduate Program Director (MSc/PhD) [January 1-May 31] — industrial restructuring, social economy, workforce development
Roy, André, Professor and Dean of Arts and Science — hydro-geomorphology, fluvial dynamics
Rutland, Ted, Assistant Professor — history of urban planning, housing, and policing, race and racialization, urban political economy
Sklar, Leonard, Associate Professor — Earth surface processes and landscape evolution, sediment production and transport, water resources management, ecological and geomorphic process interactions, global change and sustainability science
Slack, Brian, Distinguished Emeritus Professor — transport geography, maritime transportation, container shipping, port planning, intermodal transportation
St-Jacques, Jeannine, Assistant Professor — integration of paleoclimate reconstructions with instrumental climate records and climate modelling to address questions of resource management
Thornton, Patricia, Distinguished Emeritus Professor — population geography, cultural ecology, mortality as an indicator of social and environmental justice
Townsend, Craig, Associate Professor — transportation policy, projects and politics, particularly in relation to public transit, urban planning in the developing world
Turner, Sarah, Assistant Professor — animal responses to environmental change, primatology

MCGILL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1946

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.

GRANTED 9/1/18-8/31/19: 133 Bachelors, 9 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 15 Honors, 206 Majors, 221 Minors, 47 Masters, 46 Ph.D.

CHAIR: Nigel Roulet

DEPARTMENT GRADUATE COORDINATOR:
Christian Favreau

FOR CATALOGUE AND FURTHER INFORMATION WRITE TO: Graduate Affairs, Department of Geography, McGill University, 805 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2K6. Telephone (514) 398-4111. Fax (514) 398-7437. E-mail: grad.geog@mcgill.ca. website: www.mcgill.ca/geography/

PROGRAMS AND RESEARCH FACILITIES: The department offers integrated programs of study within several fields. Major research locations are urban, temperate and tropical zones, with a history of continuous work in eastern and northern Canada, and Central and South America. Research interests fall into the following clusters: Earth Systems Science including global-scale environmental modeling; Environment and Human Development including peasant economies and rural livelihoods, and studies of resource-reliant peoples in Arctic and humid tropics; Environmental Management including Quaternary paleoecology, palynology, and wetland processes; GIS and Remote Sensing including participatory GIS, broad-scale vegetation monitoring, and agent based, environmental, land use, and ecological modeling; Health Geography including chronic and infectious diseases; Land Surface Processes including hydrology, fluvial geomorphology, permafrost, glacial and periglacial processes, gas, energy and nutrient cycles in peatlands, and greenhouse gas exchange; and Economic/Political/Urban Geography including inequality, identity, and critical social geography.

The department has close links with McGill's School of Environment, Global Environmental and Climate Change Centre, Centre for Developing Area Studies, and School of Urban Planning. The Geography Department maintains research laboratories in GIS, soils, remote sensing and image analysis, geomorphology, hydrology, palynology and tropical research. The Geographic Information Centre and the University Computing Centre are located in the same building. The University maintains field stations at Mont St. Hilaire (close to Montreal), Schefferville (northern Quebec), Bellairs (Barbados), and Axel Heiberg Island (High Arctic). These stations provide accommodation, facilities, and support for research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Graduate studies are administered by the Graduate and Postdoctoral Studies office, and a departmental Graduate Affairs Committee; admission to the Master's program requires a Bachelor's degree (or equivalent) with a strong undergraduate record in geography or a related discipline (a qualifying year is also possible). The Master's degree requires three resident semesters, while the Ph.D. requires six resident semesters in addition to a Master's degree. All degrees require a thesis. Many graduate students receive teaching assistantships worth approximately \$2500 each semester. In addition, numerous research assistantships for the academic year are available. Assistance is also available for fieldwork through research project funds. Please see the department's web site for additional information.

FACULTY:

Sebastien Breau, Ph.D., UCLA, 2006, Associate Professor — economic and industrial geography, international trade, regional political economy
Peter Brown, Ph.D., Columbia, 1969, Professor — environmental governance, stewardship economics
Gail L. Chmura, Ph.D., Louisiana State, 1990, Associate Professor — biogeography, palynology, wetlands, Quaternary
Oliver T. Coomes, Ph.D., Wisconsin-Madison, 1992, Professor — environment and development, peasant economy, cultural ecology, Latin America
Benjamin Forest, Ph.D., UCLA, 1997, Associate Professor — political representation and redistricting, racial, ethnic, and national identity
Margaret Kalácska, Ph.D., Alberta, 2006, Associate Professor — remote sensing of tropical forest ecosystems, forensic applications of remote sensing, modeling of tropical forest ecosystems
Michel F. Lapointe, Ph.D., British Columbia, 1990, Professor — fluvial geomorphology
Yann le Polain de Waroux, Ph.D., UCLouvain 2012, Assistant Professor — land use/cover change, development, globalization
Bernhard Lehner, Ph.D., Kassel, 2005, Associate Professor — large-scale modeling of the terrestrial water cycle
Kevin Manaugh, Ph.D., McGill 2013, Assistant Professor — sustainable transportation, spatial justice, decision making processes, GIS
Graham MacDonald, Ph.D., McGill 2012, Assistant Professor — sustainability science, global land use, agriculture, food systems, sustainable nutrient management, land system science
Grant McKenzie, Ph.D., California, Santa Barbara 2015, Assistant Professor — Geographic Information Science
Thomas Meredith, Ph.D., Cambridge, 1979, Associate Professor — environmental studies
Tim R. Moore, Ph.D., Aberdeen, 1971, Professor — biogeochemistry of soils and wetlands
Sarah Moser, Ph.D., Singapore, 2008, Assistant Professor — cultural and urban geography
Natalie Oswin, Ph.D., British Columbia, 2005, Associate Professor — urban cultural politics, sexuality and space, intimacy and the development of postcolonial Singapore
Wayne H. Pollard, Ph.D., Ottawa, 1983, Professor — ground ice and geomorphology of cold climates
Mylene Riva, Ph.D., University de Montreal, 2008, Assistant Professor — Indigenous health and health geography
Brian Robinson, Ph.D., Wisconsin-Madison, 2011, Assistant Professor — livelihoods, environment and development
Nancy Ross, Ph.D., McMaster, 1997, Professor — social determinants of health, health inequalities in Canada, income inequality as a determinant of the health populations, environment and obesity
Nigel T. Roulet, Ph.D., McMaster, 1985, Professor — hydrology, biogeochemistry of wetlands
Raja R. Sengupta, Ph.D., Southern Illinois, 2000, Associate Professor — GIScience, environmental modeling, spatial decision support systems
Renée Sieber, Ph.D., Rutgers, 1997, Associate Professor — public participation GIS and policy models
Ian Strachan, Ph.D., Queen's, 1999, Associate Professor — micrometeorology and hyperspectral remote sensing of agricultural surfaces
Sarah Turner, Ph.D., Hull (UK), 1999, Professor — development, small-enterprise studies, Southeast Asia
Jon Unruh, Ph.D., Arizona, 1997, Associate Professor — human geography and international development (focus on Africa)
Christian von Sperber, Ph.D., ETH Zurich, 2014, Assistant Professor — biochemistry, nutrient cycling in soils, stable isotopes
George W. Wenzel, Ph.D., McGill, 1980, Professor — northern socioeconomic systems and cultural ecology

EMERITI FACULTY:

Sherry Olson, Ph.D., Johns Hopkins, 1965, Professor — social, urban historical, and environmental history

UNIVERSITÉ DE MONTRÉAL

DÉPARTEMENT DE GÉOGRAPHIE**DATE FOUNDED:** 1947**DEGREES OFFERED:** B.Sc., M.Sc., Ph.D.**GRANTED 6/1/17-5/31/18:** 43 Bachelors, 12 Masters, 5 Ph.D.**STUDENTS IN RESIDENCE:** 192 Bachelors, 59 Masters, 30 Ph.D.**STUDENTS NOT IN RESIDENCE:** 26 Masters, 15 Ph.D.**CHAIR:** Patricia Martin**DEPARTMENT ADMINISTRATIVE ASST:** Sophie Banville**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Annie Demers, Telephone (514) 343-8052 or Anick Hamel, Telephone (514) 343-6111 extension 37425, Département de Géographie, Université de Montréal, C.P. 6128, Succ. Centre-Ville, Montréal, Québec, Canada H3C 3J7. Fax (514) 343-8008. E-mail: information@geog.umontreal.ca. Internet: www.geog.umontreal.ca.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers B.Sc., M.Sc., and Ph.D. programs. At the undergraduate level, students specialize in the study of either the physical or the human environment. Courses on environmental thought and spatial analysis are integrated into each specialization. The undergraduate program also counts with an honors program and an international certificate program. Many undergraduates go on to graduate study, or find jobs in the private, non-profit or public sector.

The master's and PhD programs form the core of our graduate program. Sitting at the intersection of francophone and Anglophone geography, graduate studies at the Université de Montréal are highly internationalized and draw on multiple theoretical and linguistic traditions in geography. The department is well supported by external funding agencies, hosts three Canada Research Chairs (in the political economy of food and well-being, atmospheric biogeosciences, and urban water governance) and has numerous dynamic research groups and laboratories (migration, mobility and borders; urbanization in the Global South; GIS and complex systems; critical development studies; remote sensing; water governance; biodiversity and indigenous peoples; biogeography and environmental change; soil science; transportation geography; fluvial and aeolian geomorphology; and cold regions geomorphology). Two GIS labs, a Geography library and a map library are located on the premises and offer an excellent range of research and training resources and tools for students. The Department of Geography has developed strong ties with several research centers within the university (International Studies; Asian studies; Latin American studies; transportation and networks; Institute for Sustainable Development) as well as with other universities in Asia, Latin America, Europe and Canada.

The department also offers several professional degrees, including short programs in spatial analysis and applied geography. We also offer a professional M.Sc. degree with internships in the workplace.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates according to a semester system. The M.Sc. degree may be obtained through two distinct programs. The research master's program has fewer course requirements, allowing students time to develop a thesis project, conduct fieldwork, and complete analysis and writing. The second, a professional master's program, requires that students complete 18

credits of coursework as well as an internship. Admission requirements include a Bachelor's degree in geography or in a related field with a GPA of 3.0. The Ph.D. program is designed to train students in cutting edge research in two or three subfields in geography while they work to complete their dissertation. Required coursework (9 credits) is completed within the first year, after which students complete their qualifying exams and project proposal. A central goal of the program is to provide students training in academic publishing as well as university instruction. Admission requirements include a Master's degree in geography or related field and a demonstrated potential for research. Financial assistance is available through university and departmental fellowships, faculty research grants and teaching and research assistantships offered by the department.

FACULTY:

Pierre André, Ph.D., U. de Montréal, 1985, Associate Professor (retired) — environmental studies, environmental impact assessment

Nicolas Bélanger, Ph.D., Montréal, 2000, Adjunct Professor — environmental sciences

Olivier Blarquez, Ph.D., École Pratique des Hautes Études, France, 2011, Assistant Professor — biogeoscience, paleoecology, geographies of fire, disturbance ecology

Yacine Bouroubi, Ph.D., Université de Montréal, 2009, Adjunct Professor — remote sensing, precision agriculture

Christopher Bryant, Ph.D., London School of Economics, 1970, Full Professor (retired) and Adjunct Professor — urban systems, regional development, spatial organization, rural land use

François Cavayas, Ph.D., Laval University, 1983, Full Professor — remote sensing, geographic information systems

Claude Comtois, Ph.D., Hong Kong, 1980, Full Professor — transportation, China

Paul Comtois, Ph.D., Laval University, 1982, Full Professor — aerobiology, palynology, aeromycology

François Courchesne, Ph.D., McGill, 1988, Full Professor — soil science, biogeochemistry

Rodolphe De Koninck, Ph.D., Singapore, 1970, Full Professor (retired) Professor Emeritus — Southeast Asia, agriculture and environment

Gabriel Fauveaud, Ph.D., Université Paris 1 Panthéon-Sorbonne, 2013, Assistant Professor — Social geography, urban geography, Southeast Asia

Daniel Fortier Ph.D., Laval University, 2005, Associate Professor — cold regions geomorphology

Jan Franssen, Ph.D., McGill, 2012, Assistant Professor — fluvial geomorphology

Kathryn Furlong, Ph.D., University of British Columbia, 2007, Associate Professor — Canada Research Chair in urban water governance and public service

François Girard, Ph.D., Laval University, 2008, Assistant Professor — GIScience, biogeography, forestry

Nicole Gombay, Ph.D., Queen's University, 2003, Associate Professor — economic geography, indigenous geographies

Thora Herrmann, D. Phil, University of Oxford, 2004, Associate Professor — indigenous geographies, biodiversity

Violaine Jolivet, Ph.D., Université de Paris 1 - Sorbonne, 2010, Assistant Professor — urban geography, mobility, Caribbean

James Stephen King, Ph.D., University of Guelph, 2006, Assistant Professor — aeolian geomorphology, arid regions

Claude Marois, Ph.D., Laval University, 1980, Full Professor (retired) and Adjunct Professor — population, metropolitan areas, spatial analysis

Patricia Martin, Ph.D., University of Colorado, 1997, Associate Professor — development, gender, political violence, Latin America

Sébastien Nobert, Ph.D., University of Edinburgh, 2007, Assistant Professor — political ecology, geographies of risk, critical geography

Liliana Perez, Ph.D., University of Victoria, 2011, Assistant Professor — GIScience, complexity theory, forest dynamics
Pierre Richard, Ph.D., Université de Montpellier Full Professor (retired) Professor Emeritus — phytogeography, paleoecology, quaternary, palynology, peatlands, landscapes
Touzi, Ridha, Ph.D, Université Paul Sabatier de Toulouse, Adjunct Professor — radar polarimetry in remote sensing
Sébastien Rioux, Ph.D., York University, 2012, Assistant Professor — Canada Research Chair in the political economy of food and well-being
André G. Roy, Ph.D., SUNY-Buffalo, 1982, Professor Emeritus — fluvial geomorphology
Brian Slack, Ph.D., McGill, 1972, Adjunct Professor — transportation geography
Oliver Sonnentag, Ph.D., U. of Toronto, 2008, Associate Professor — Canada Research Chair in atmospheric biogeosciences in high latitudes
Julie Talbot, Ph.D., McGill, 2010, Associate Professor — biogeography, environmental change, modeling
Luna Vives, Ph.D., University of British Columbia, Assistant Professor — immigration, borders, political geography

UNIVERSITÉ DE SHERBROOKE

DEPARTMENT OF APPLIED GEOMATICS

DATE FOUNDED: 1963

DEGREES OFFERED: BSc in Environmental Geomatics, MSc in Geographic Science, PhD in Remote Sensing

GRANTED 09/2017 – 08/2018 : 12 Undergraduate, 22 Masters, 5 Doctoral

STUDENTS IN RESIDENCE 09/2017 – 08/2018 : 50 Specializations, 55 Masters, 31 Doctoral

CHAIR: Richard Fournier

DEPARTMENT ADMINISTRATIVE ASSISTANT: Geneviève Crevier

FOR CATALOGUE AND FURTHER INFORMATION, WRITE

TO: Département de géomatique appliquée, Université de Sherbrooke 2500, boul. de l'Université, Sherbrooke, Québec, Canada, J1K 2R1 E-mail: odile.couture@usherbrooke.ca Internet: <https://www.usherbrooke.ca/geomatique/>

PROGRAMS AND RESEARCH FACILITIES: The Université de Sherbrooke is a French-speaking institution spanning six campuses in four cities and two provinces. Each year, it welcomes nearly 40,000 students from more than 88 countries. Recognized as a people-oriented institution, the Université de Sherbrooke stands out for its involvement in sustainable development, its program for free access to mass transit, and its co-operative system, which alternates semesters of academic study with paid work internships. The Department of Applied Geomatics is located on the main Sherbrooke campus in Estrie, renowned for being a dynamic, stimulating, and friendly educational setting.

Undergraduate: The Department offers a specialized undergraduate degree (90 credits), including 33 credits in geomatics (geopositioning, mapping, geomatics, remote sensing, image processing, database management, spatial modeling, aerial-photo analysis) and 24 credits in theme-based activities related to the environment (aquatic and terrestrial ecosystems, spatial demography, watersheds, urban planning, transportation). The program, which uses a project-based approach, enables students to develop their practical skills through actual projects submitted by partner organizations and businesses. Students can opt to study on a full-time, part-time, or co-operative basis. The undergraduate degree is complemented by two 15-credit undergraduate microprograms in applied geomatics and geography.

Graduate: The Department offers a master's degree in geographic science (45 credits) and a doctorate in remote sensing (90 credits). The master's degree has three research streams: geographic environments, geomatics, and remote sensing. Enrollment is regular full-time. A professional stream is also available (sustainable geodevelopment), which can be taken on a regular or co-op basis, either full- or part-time. Four doctoral streams are available: applied geomatics, remote-sensing physics, digital-image processing, and interdisciplinary approach to the environment. Enrollment is full-time. In addition to these programs, the Department offers a graduate microprogram in geomatics (15 credits) and a graduate diploma in applied geomatics (30 credits) that can be taken on a full- or part-time basis.

The Department's physical resources include the Centre d'applications et de recherches en télédétection (CARTEL or center for remote-sensing applications and research), one of Canada's leaders in this field. The center is dedicated to advancing remote-sensing knowledge and its applications to Earth observation. The Department currently benefits from the Canada Research Chair in Terrestrial Observation and Phytoplankton Ecophysiology. In addition, the Department has three laboratories (environmental analysis, spectroradiometry, and image processing and GIS) as well as an environmental-research station (Site Interdisciplinaire de Recherche en Environnement Extérieur or SIRÈNE [interdisciplinary research site on the exterior environment]).

The Department also brings together renowned specialists in a variety of fields of application such as terrestrial (e.g.: forestry and biology) and marine (e.g.: oceanography) ecosystems; the atmosphere (e.g.: physics and mathematics; water and snow (e.g.: climatology); urban environment (e.g.: geography, transportation, and land-use planning); and environmental risks (e.g.: geomatics and topography). Some research projects are paired with internships and/or international activities. The Department of Applied Geomatics is comprehensively designed to allow students to embark on specialization, expand their knowledge, and develop research skills.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Admission to the undergraduate degree requires a diploma of collegial studies (DEC) in natural sciences, computer science and mathematics, or geomatics technology, or a general diploma including differential calculus. The regular program consists of six semesters. The co-op stream alternates academic study with paid work internships.

Admission to the master's program requires an undergraduate degree in geomatics, geographic sciences, or the equivalent. Moreover, candidates must have a cumulative average of 2.7 on a scale of 4.3.

Admission to the doctoral program requires a master's degree in remote sensing, geodesy, or geography, or the equivalent in a related field. Moreover, candidates must have a cumulative average of 3.2 on a scale of 4.3.

Admission to graduate programs (research-based master's and doctorate programs) is based on the candidate's university transcripts, letters of recommendation, and a faculty member's consent to supervise the candidate's research.

Candidates are encouraged to apply to funding agencies (e.g., NSERC or FRQNT) for a scholarship. Positions for correctors, research assistants, and teaching assistants are also available. Moreover, research supervisors can provide funding for their students.

FACULTY

Lynda Bellalite, PhD, University of Montréal, (1992), Full Professor — land-use planning, urban planning, transportation, road safety

Yacine Bouroubi, PhD, University of Montréal, (2009), Assistant Professor — remote sensing, digital image processing and modeling, artificial intelligence, artificial neural network, precision agriculture

Richard Fournier, PhD, Laval University (1997), Full Professor — characterization of forest and wetland environments, spatial analysis

Kalifa Goïta, PhD, Université de Sherbrooke (1995), Full Professor — snow-cover hydrology, change analysis

Yannick Huot, PhD, Dalhousie University (2005), Full Professor — oceanography, surface hydrology, water quality

Alexandre Langlois, PhD, University of Manitoba (2007), Associate Professor — monitoring of extreme Arctic climatic events, enhancement avalanche-risk prediction, snow modeling, caribou-habitat quality

Ramata Magagi, PhD, Toulouse Institute of Fluid Mechanics (1995), Full Professor — passive microwave and radar remote sensing, characterization of semiarid environments, snow water equivalent

Norm O'Neill, PhD, York University (1982), Full Professor — characterization and modeling of atmospheric parameters, atmospheric pollution

Alain Royer, PhD, University of Grenoble (1981), Full Professor — Northern environment, ecosystem monitoring, characterization of atmospheric aerosols, climate change, snow-cover monitoring and development

Jérôme Théau, PhD, Laval University (2004), Full Professor — conservation and biodiversity, plant ecosystems, wildlife habitats, landscape fragmentation, ecological corridors, impacts of management practices on ecosystems, impact infrastructure and human activity, environmental indicators

LATIN AMERICA

ARGENTINA

INSTITUTO DE GEOGRAFÍA “ROMUALDO ARDISSONE” DE LA UNIVERSIDAD DE BUENOS AIRES

TIPO DE INSTITUCIÓN: Pública, académica

ACTIVIDAD PRINCIPAL DE LA ASOCIACIÓN:

Investigación

FECHA DE FUNDACIÓN: 1947

SITIO WEB: <http://geografia.institutos.filo.uba.ar/>

PARA MAS INFORMACIÓN CONTACTAR: Jorge Oscar Blanco, Director, Puán 480 - 4°1406 - Ciudad Autónoma de Buenos Aires Argentina, Teléfono: 54-11-5287-2894, iigeo@filo.uba.ar

MISIÓN DEL INSTITUTO: El Instituto de Geografía es el ámbito de la Universidad de Buenos Aires dedicado a la investigación en esta disciplina. En el Instituto se desarrollan diversas líneas de investigación en Geografía, se promueve la formación de investigadores y la articulación con las actividades docentes, y se desarrollan actividades conjuntas con el sector público y con universidades del país y del exterior.

ESTRUCTURA Y ORGANIZACIÓN: El Instituto se rige acorde con el Reglamento de Institutos de la Universidad de Buenos Aires. El Director es acompañado en la gestión por un Comité Académico y una Secretaria Académica. Son miembros del Comité: el Director, la Secretaria Académica, los representantes de: investigadores, becarios, estudiantes investigadores y no docentes. Los miembros del Comité son elegidos por sus representados por voto directo, secreto y obligatorio.

FINES: Son funciones del Instituto de Geografía de la Universidad de Buenos Aires: a) Elaborar y ejecutar planes de investigación disciplinarios y multidisciplinarios. b) Potenciar la articulación de la Geografía y de nuestros investigadores con los problemas reales y concretos de la sociedad argentina y latinoamericana. c) Contribuir a la formación de recursos humanos a través de la dirección de tesis de grado, maestría y doctorado. d) Promover la cooperación e integración con otros ámbitos académicos y científicos del resto del país y del medio internacional.

PROGRAMAS QUE SE OFRECEN: El Instituto cuenta con Programas, grupos de trabajo y proyectos, que nuclea las actividades de los investigadores. Entre los programas y grupos de trabajo se encuentran:

Programa de Transporte y Territorio (PTT)- Entre los objetivos del PTT se encuentran: consolidar un ámbito orientado al desarrollo de conocimientos teóricos, empíricos y aplicados sobre temas de transporte; promover actividades académicas sobre temas de Geografía del Transporte; generar un espacio de información, discusión y reflexión favorable al desarrollo de tesis de grado, postgrado y doctorado; prestar asesoramiento a organismos públicos, empresas privadas y organizaciones de la sociedad civil sobre temas de competencia del Programa.

Programa de Economías Regionales y Estudios Territoriales- PERT- El PERT es un ámbito de investigación académica, docencia, transferencia y divulgación, orientado al estudio del desarrollo territorial, en particular en problemáticas vinculadas con la cuestión rural y local y las economías regionales. Las formas de producción del territorio y la cuestión institucional en relación a la situación social y económica de la población de menores recursos (en particular la población localizada en zonas rurales y ámbitos locales) constituyen los ejes básicos de nuestra preocupación teórica y empírica actual.

Programa de Investigaciones en Recursos Naturales y Ambiente - PIRNA- El objetivo del Programa es generar conocimientos y capacitar investigadores en el uso y manejo de los recursos naturales y del ambiente, poniendo el acento en los aspectos relativos a las configuraciones territoriales resultantes de los procesos socioeconómicos. En los últimos años el tema central abordado es el de riesgo ambiental y vulnerabilidad social, para los peligros emergentes de inundaciones, accidentes tecnológicos, invasiones biológicas e incendios forestales.

Programa de Desarrollo Territorial y Estudios Metropolitanos (PDTEM) El proyecto actual del PDTEM se propone analizar y producir información sobre las transformaciones y procesos territoriales en la región metropolitana de Buenos Aires en las dos últimas décadas (años noventa y dos mil), resaltando las semejanzas y diferencias entre ellas, y tomando como referencia la experiencia de otras grandes metrópolis latinoamericanas. El supuesto clave es que se habrían registrado en las dos últimas décadas dos procesos de crecimiento económico con estrategias diferentes, uno de sesgo netamente neoliberal y el otro neodesarrollista, separados por una profunda crisis económica y política.

Programa de Investigación en la Didáctica de la Geografía – (INDEGEO) Se constituye a fines de 2004, a partir de la necesidad de crear un espacio de investigación y reflexión acerca de las particularidades de la enseñanza de la geografía en nuestro país, para construir modelos propios de interpretación didáctica que den respuesta teórica y práctica a los distintos problemas que atañen a las prácticas docentes cotidianas. Se fundamenta, a la vez, en el hecho de reconocer la necesidad de fortalecer los vínculos entre universidad y escuela, potenciando la transferencia de saberes e instrumentos para hacer frente a las múltiples demandas de las que es objeto la profesión docente.

Grupo de estudios sobre Cultura, naturaleza y territorio. De reciente formación, consituye, a partir de preocupaciones surgidas respecto de los procesos y las narrativas vinculadas con la globalización, un ámbito colectivo de reflexión, producción y difusión en torno a tres interrogantes centrales: ¿Qué papel han jugado las ideas sobre la naturaleza y la cultura en los procesos de producción territorial?, ¿Qué implicancias han tenido las transformaciones territoriales en la producción de ideas sobre la naturaleza y la cultura? ¿Cómo ha construido y construye la Geografía, en tanto saber disciplinar, sus modos de mirar, comprender e imaginar la cultura y la naturaleza en su relación con los procesos de producción territorial? Los debates pasados y presentes en las áreas de Estudios Culturales, Estudios Visuales, Estudios sobre Urbanización, Historia de las Ideas, Historia Territorial y Ambiental, Filosofía de las Técnicas, Economía Urbana, Geografía Histórica, Cultural y Económica nutren teórica y metodológicamente los puntos de vista de este Grupo de Estudios.

Grupo de Estudios sobre Fronteras y Regiones (GEFRE) Se conformó en el año 2013, con el propósito de articular diferentes líneas de investigación que tengan a las fronteras -en sentido amplio- como objeto de estudio y de constituirse en un espacio interdisciplinario de investigación y formación académica en la temática. Entre sus líneas de investigación se incluyen límites y fronteras internacionales; fronteras agropecuarias y procesos de redefinición regional; formación social de fronteras; geopolítica, relaciones internacionales y

paradiplomacia; las fronteras y la construcción de identidades culturales; fronteras y movilidades; entre otros.

Grupo de estudios Geografías Emergentes: políticas, conflicto y alternativas socio-espaciales (Gem). El Grupo de Estudios pone el foco en el análisis de las formas de organización y las prácticas sociales y espaciales que surgen y se desenvuelven en esos ámbitos/situaciones conflictivas, que pueden ser concebidos como los márgenes del estado y/o del capitalismo, donde entran en disputa prácticas hegemónicas y de resistencia. El estudio de las actuaciones, prácticas y representaciones espaciales de los sectores sociales que viven distintas formas de sujeción/desigualdad, así como sus formas de contestación e interacción con las prácticas estatales y/o del capital, pueden realizar interesantes contribuciones de carácter conceptual y metodológico.

Grupo de estudios de historia y epistemología de la cartografía e imágenes técnicas (GHECIT). Su objetivo es generar un ámbito de trabajo en el que se desarrollen estudios individuales y proyectos colectivos que converjan en su reflexión sobre los aspectos culturales, metodológicos, estéticos, técnicos, teóricos, epistemológicos y filosóficos de las imágenes sobre el espacio como parte de un conjunto variado de prácticas sociales. El grupo comparte el interés y la preocupación por las formas en que se producen, circulan, se interpretan, se reelaboran y se resignifican las imágenes sobre el espacio.

Equipo de investigación sobre Turismo y Territorio, investiga sobre la política turística y patrimonial; lugares y escalas del mapa turístico argentino; turismo comunitario; imágenes e imaginarios en la valorización turística.

Equipo de investigación sobre Lugares y Políticas de la Memoria, investiga sobre políticas, instituciones, saberes expertos y prácticas militantes en la construcción de lugares de la memoria en Argentina.

Grupo de Agua y Energía- El Grupo de Agua y Energía es un espacio pensado para la investigación, la docencia y la transferencia de conocimiento en temas vinculados con el desarrollo y gestión hídrico-energética del territorio, produciendo informes técnicos y de investigación aplicada, ponencias, producción cartográfica, etc.

MIEMBROS: El Instituto cuenta actualmente con 153 integrantes, entre los que se encuentran investigadores con diversos grados de formación, becarios, tesistas y alumnos que realizan sus primeras prácticas de investigación.

PUBLICACIONES: El Instituto cuenta con dos publicaciones periódicas activas. La Serie Monográfica “Cuadernos de Territorio”, creada en 1989, ya posee 18 títulos en su haber, algunos de los cuales están digitalizados. La segunda publicación activa es la revista electrónica “Transporte y Territorio” revistascientificas.filo.uba.ar/index.php/rtt, fundada en 2009, de la cual ya se han editado 19 números a la actualidad. Como parte del acervo de publicaciones se puede acceder también a la revista virtual “Litorales”, de la que se publicaron 7 números entre 2002 y 2005.

Cuadernos de Territorio: <http://geografia.institutos.filo.uba.ar/grupo/cuadernos-de-territorio>

Revista Transporte y Territorio: <http://revistascientificas.filo.uba.ar/index.php/rtt>

UNIVERSIDAD NACIONAL DE GENERAL SARMIENTO

INSTITUTO DEL CONURBANO

FECHA DE FUNDACION: 2010

TECNICATURA SUPERIOR UNIVERSITARIA EN:

Sistemas De Informacion Geografica

TITULOS OFRECIDOS: Técnico Superior Universitario en
Sistemas de Información Geográfica

RESPONSABLE DE LA CARRERA: Lic. Leonardo Di
Franco

**PARA PEDIR UN CATOLOGO Y MÁS INFORMACIONE,
FAVOR DE ESCRIBIR A:** Lic. Leonardo Di Franco,
Coordinadora, Laboratorio de Sistemas de Información Geográfica.
Instituto del Conurbano. Universidad Nacional de General Sarmiento.
Juan María Gutierrez 1150. Los Polvorines, CP: 1613. Malvinas
Argentinas. Provincia de Buenos Aires. REPUBLICA ARGENTINA.
E-Mail: mmiragli@ungs.edu.ar. Internet: http://www.ungs.edu.ar/areas/tec_sup_sistema_informacion_geografica/1/tecnico-superior-en-sistemas-de-informacion-geografica.html

PLAN ACADEMICO: En total, el plan de estudios está conformado por 21 asignaturas (incluidos dos niveles de inglés) por un total de 1751 horas de clase. Las asignaturas contenidas en el plan de estudio responden al perfil que se pretende formar y se organizan en cuatro ejes: formación general, análisis territorial, formación en SIG (incluida la formación en softwares específicos y de uso más general y en cartografía) y práctica pre-profesional. Las materias de formación general tienen por objeto proveer a los estudiantes herramientas y conocimientos generales útiles para su trabajo: conocimientos básicos de inglés (gran parte de los manuales están escritos en ese idioma), Problemas Socio Económicos Contemporáneos (PSEC) y el Laboratorio intermenciones (diagnóstico ambiental) son también instancias ideales para la socialización en la universidad. El laboratorio es también un espacio curricular de síntesis y práctica en el uso de los SIG. Dentro de las asignaturas de formación general se incluyen: PSEC, Inglés I, Inglés II, y Laboratorio Intermenciones (diagnóstico ambiental) (total 14 horas). La bibliografía existente señala de manera reiterada la necesidad de incluir instancias de formación en el análisis territorial. Se prevé que los estudiantes cursen geografía y análisis territorial, ambas asignaturas en dos niveles (total 20 horas). Más de una tercera parte del total de horas del programa de estudios está centrada en la formación específica en SIG y temas conexos. Dentro de este eje específico de formación hay materias más generales como Introducción a la cartografía, sensores remotos y sistemas de información geográfica y aquellas más específicas como Programas de SIG (donde se enseñará ARC GIS, entre otros programas). Dentro de las materias referidas a los sistemas de información geográfica, cartografía y teledetección se incluyen: Introducción a la cartografía, sensores remotos y sistemas de información geográfica, Introducción a la teledetección y al procesamiento de imágenes satelitales, Cartografía temática, Programas de SIG, Informática aplicada a los SIG, I y II, Estadística aplicada a los SIG, Construcción y gestión de bases de datos aplicadas a SIG (total 46 horas). Por último, se considera que un eje fuerte del programa de estudios es que los estudiantes tengan una aproximación desde la práctica misma por lo cual se han incluido tres talleres de aplicación y un taller final de proyecto cartográfico. Dentro de los talleres de práctica se incluyen: Taller de aplicación inicial, Taller de aplicación 1, Taller de aplicación 2, Taller de aplicación 3 y el Taller final de aplicación: Proyecto cartográfico (total 23 horas). Debe tenerse en cuenta que la práctica también está presente en otras materias del programa como el Laboratorio intermenciones (diagnóstico ambiental), Cartografía temática o Geografía, entre otras.

Contenidos mínimos de las materias:

Eje de formación general

Inglés I: Convenciones de los discursos escritos. Texto y contexto. Estrategias de lectura. Funciones retóricas predominantes en los textos académicos. Desarrollo proposicional, estructura de la información. Sistema sintáctico. Exponentes lingüísticos. Nociones lógico semánticas. Cohesión lógica.

Inglés II: Convenciones de los discursos escritos. Estrategias de lectura. Nociones lógico-semánticas. Tiempos verbales. Verboides. Voz pasiva. Cadenas léxicas. Defensa y refutación de una posición teórica. Presentación de evidencia. Contraste y énfasis.

Laboratorio Intermenciones (diagnóstico ambiental):

Identificación y resolución de un problema de conocimiento surgido a partir de un problema real en el marco de la realización de un diagnóstico ambiental municipal. El desarrollo de la asignatura se realiza bajo la modalidad de trabajo en taller a través de la resolución de un problema real.

Problemas socioeconómicos contemporáneos, PSEC: De la “República posible” a la experiencia peronista. De la crisis del populismo al modelo neoconservador. Reconfiguración de la sociedad Argentina. Diferentes enfoques para abordar los problemas socioeconómicos en la Argentina actual, basados en investigaciones recientes. Examen de categorías empleadas en el análisis.

Eje de SIG y temas conexos

Cartografía temática: Cartografía. Semiótica. Teorías de representación. Teorías de interpretación. Cartogramas. Cartodiagramas. Variables visuales. Construcción de cartografía temática.

Construcción y gestión de bases de datos geográficas aplicadas a SIG: Geodatabase. Introducción. Diseño. Construcción. Implementación. Feature classes. Feature dataset. Multiusuarios. Topología. Compresión y compactación de las bases de datos. Atributos.

Estadística aplicada a los SIG: Estadística avanzada (modelos multivariados de correlación, análisis factorial y de correspondencias múltiples). Estadísticas espaciales y aplicación en diversos campos (transporte, localización de unidades sanitarias y comercios, cálculo de probabilidades de riesgos).

Informática aplicada a los SIG, parte I: Uso de paquetes estadísticos (SPSS, STATA, etc.). Modelos

Informática aplicada a los SIG, parte II: Mapas en la Web, Programación básica en C++, Macromedia. Preparación de mapas para publicar en internet. Servidores de mapas. Estandarización cartográfica. Programas para editar mapas en la red. ArcImgs.

Cartografía, sensores remotos y sistemas de información geográfica: La cartografía. Sistemas de proyecciones cartográficas. Elementos planialtimétricos. Elementos de una carta topográfica. Escalas. Mediciones. Elaboración de perfiles. Cartografía temática y digital. Georreferenciación. GPs. Teledetección. Composición de las imágenes. Interpretación de imágenes. Sistemas de Información Geográfica

o Territorial. El SIG como herramienta de gestión e investigación. Aplicaciones a estudios urbanos, ambientales, etc.

Teledetección y procesamiento de imágenes satelitales: Sensores remotos. Teledetección. Espectro electromagnético. Resolución espacial. Resolución espectral. Interpretación visual de imágenes satelitarias. Interpretación digital de imágenes satelitarias.

Programas de SIG: Programas vectoriales: ARC GIS, MapInfo. Programas raster: ERDAS, ENVI. Programas de uso libre. Programas de uso restringido

Eje de análisis territorial

Análisis territorial I: Espacio y territorio. Sociedad y naturaleza. Construcción y estructura del territorio. Escalas. Teorías sobre el territorio. Herramientas para el análisis territorial. Gestión del territorio.

Análisis territorial II: Herramientas y fuentes para el análisis territorial. Herramientas cualitativas básicas: observación, observación participante, lectura de fuentes estadísticas y documentales, grupos focales, entrevistas.

Herramientas cualitativas para el análisis territorial y SIG: Herramientas cuantitativas para el análisis territorial. Fuentes secundarias: censos y encuestas nacionales, información y datos secundarios provinciales y municipales. De las fuentes a los SIG.

Geografía I: Geografía Física General. Geografía Física de la República Argentina. Condiciones geológicas y climatológicas. Condiciones edáficas, biogeográficas. Cuencas hídricas. Regiones.

Geografía II: Los estudios urbanos y regionales en América Latina y en la Argentina. Historia de la urbanización. La geografía física y los estudios urbanos. Algunos elementos para analizar una ciudad o un sistema de ciudades. La estructura interna de la ciudad. Sistemas regionales y nacionales de asentamiento. La actividad económica y los asentamientos humanos. El panorama reciente en geografía urbana. Algunos temas de discusión.

Eje de práctica pre-profesional

Taller de aplicación inicial: Criterios de definición de regiones. Uso de la cartografía. Uso de los sensores remotos. Uso de los sistemas de información geográfica

Taller de aplicación 1: Definición de unidades territoriales a nivel nacional. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala nacional

Taller de aplicación 2: Definición de unidades territoriales a nivel regional. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala regional

Taller de aplicación 3: Definición de unidades territoriales a nivel municipal. Definición de variables de estudio. Técnicas de relevamiento de la información. Técnicas de procesamiento de la información. Aplicación de técnicas apropiadas para el estudio a escala municipal

Taller final de aplicación: Proyecto cartográfico: Aplicación de conceptos y metodologías de investigación en ciencias sociales. Definición de objeto y objetivos de estudio. Integración de escalas espacial y complejidad temática.

UNIVERSIDAD NACIONAL DE MAR DEL PLATA

**FACULTAD DE HUMANIDADES
DEPARTAMENTO DE GEOGRAFÍA
DATE FOUNDED: 1991**

DEGREES OFFERED: Profesorado en Geografía,
Licenciatura en Geografía

POINT OF CONTACT: Director Dra. Patricia Iris Lucero.
Secretario Dr. Fernando Gabriel Sabuda E-mail:
geofhum@mdp.edu.ar.

FOR FURTHER INFORMATION WRITE TO: Facultad de Humanidades, UNMDP. Funes 3350, (7600), Mar del Plata, Provincia de Buenos Aires, República Argentina. Teléfono: +0054 (223) 475-2426 ó +0054 (223) 475-2288 Int. 407 Int. 407. Fax: +0054 (223) 475-2277 Int. 133. Sitio web: <http://www.mdp.edu.ar/humanidades/geografia/index.htm>

I. INTRODUCCIÓN

La geografía y su campo temático. Entendemos que la Geografía constituye un campo dentro de las Ciencias Sociales, cuya especialidad y objeto de estudio están representadas por la dimensión territorial de los procesos sociales. Pero atendiendo no solo al perfil de quienes integran a nuestra carrera, sino también a lo que espera de un profesional egresado de esta Facultad, pensamos que no se debe descuidar la valorización histórica y tradicional del geógrafo como analista y trabajador del marco físico-natural.

Es razón de esto planteamos una división interna de la carrera en las siguientes áreas: 1) Físico-natural; 2) Social; 3) Instrumental operativa; y 4) Territorial.

Cada una de ellas se constituirá en el territorio natural de discusión y construcción de las propuestas específicas para cada ámbito diferenciado. Desde este nuevo instrumento institucional, anualmente se elaboraran las propuestas de la transferencia de conocimiento (sobre la base de contenidos mínimos) investigación y de extensión.

Dentro de estas áreas, el profesor y en especial el futuro licenciado, encontraran la oportunidad de elegir parte de su formación mediante el conjunto de asignaturas optativas.

Esta flexibilidad también incluye propuestas que pueden ser ofrecidas desde otros departamentos de la Facultad o bien de otras Unidades Académicas. Esto permitiría un mayor aprovechamiento de los recursos humanos disponibles dentro de un ámbito mayor.

Entendemos que de esta forma el alumno puede llegar a dominar una parte del instrumental necesario de una determinada orientación.

Con el mismo propósito el alumno contara con la alternativa del desarrollo de tareas de investigación dentro de alguno de los proyectos de la Facultad u otra Unidad Académica, al que el alumno deberá adscribirse.

De esta forma no solamente se producirá una suerte de entrenamiento en tareas de investigación, sino que además permitirá una mayor integración con aquellos que provienen o se forman en el ámbito de otras disciplinas.

Entendemos que este puede ser el comienzo de un camino transdisciplinario que le permita a la geografía asumir su especificidad dentro de un marco que lo involucra.

La división en áreas, no implica una autonomía de ellas, sino el reconocimiento de existencia de campos específicos diferenciados por sus características teóricas y organización académica. Cada una tendrá una coordinación específica y todos concurrirán en una articulación departamental como instancia definitiva.

La estructura curricular tanto de la licenciatura como del profesorado contempla los distintos campos del conocimiento geográfico y en el caso particular del profesorado además se tiene en cuenta los programas en vigencia en la enseñanza media. De allí la obligatoriedad de las asignaturas del área territorial.

Dentro de ella diferenciamos a las referidas a la Argentina y a América Latina por entender que ese debe ser el marco de referencia inmediato sin por ello soslayar otras vinculaciones espaciales también de relevancia.

Finalmente, en el contexto de la reducción del número de asignaturas, se incorpora el tratamiento del caso argentino en los contenidos mínimos de cada una de las asignaturas de las áreas física y social.

II. PERFIL

Las cuestiones de orden epistemológico de la geografía como disciplina plantean no pocas dificultades para acotar una definición que seguramente sería demasiado restringida. Por otro lado limitaría la capacidad de la carrera para responder a los distintos intereses y expectativas de los estudiantes y de los que pretenden serlo.

De hecho, los geógrafos se han desempeñado en campos como investigación, la planificación, la gestión y el asesoramiento, como así también en la docencia universitaria y del medio.

A pesar de la diversidad temática, podríamos señalar como común denominador al estudio de la relación espacio-sociedad como el eje alrededor del cual giran las posiciones más diversas de los distintos trabajos que se involucran en el rótulo de Geografía.

En consecuencia proponemos un perfil profesional -tanto para el licenciado como para el profesor- en términos muy amplios y generales, que permitan dar lugar a los diversos enfoques teórico-metodológicos y a la gran diversidad de intereses y motivaciones.

II.a. PERFIL DEL PROFESOR

El profesor en Geografía está capacitado para ejercer la docencia en Geografía y disciplinas afines en la enseñanza.

En consecuencia deberá ser capaz de:

- conocer los conceptos e ideas básicas de las diferentes disciplinas y corrientes de pensamiento en geografía física y social;
- conocer los principales procesos relacionados con la organización del espacio mundial, con especial referencia a la Argentina y a América Latina;
- programar y evaluar al proceso de enseñanza-aprendizaje; y,
- seleccionar y utilizar creativamente los métodos pedagógicos necesarios para el logro de los objetivos propuestos.

II.b. PERFIL DEL LICENCIADO

Es un profesional capacitado para desarrollar tareas de: investigación, planificación, gestión, asesoramiento, producción de información y docencia universitarias en tareas y problemas vinculados con la relación entre espacio y sociedad, y con la organización de actividades humanas en el territorio.

Por lo tanto deberá ser capaz de:

- conocer los conceptos e ideas básicas de las distintas disciplinas y corrientes de pensamientos acerca de la relación espacio-sociedad;
- conocer los principales procesos que hacen a la organización del espacio con especial referencia a la Argentina y a América Latina;
- plantear, diseñar y desarrollar proyectos de investigación acerca de temas sin problemas referidos a la relación espacio-sociedad, incluyendo la elaboración teórico-metodológica de la investigación, su diseño operativo y su realización;
- construir y /o utilizar críticamente las técnicas de recopilación, procesamiento, elaboración y representación de información que sean necesarias para el desarrollo de las tareas enunciadas precedentemente;

- elaborar informes y otras formas de comunicación de los resultados obtenidos; y, integrarse activa y eficazmente en equipos de investigación, planificación, gestión, asesoramiento y producción de información

III. CONTENIDOS MINIMOS DE LAS ASIGNATURAS

- Introducción a la Geografía: Historia de las corrientes de pensamiento geográfico. El instrumental metodológico. El subsistema físico-natural, el subsistema socio-económico y el espacio organizado
- Historia Económica Argentina*: Conocimientos básicos de la evolución de la economía argentina
- Sociología*: los grandes teóricos. La organización internacional. La estructura social argentina
- Fundamentos de Climatología y Ecología: Conceptos básicos de los factores determinantes del clima. Análisis de sus elementos. Principios de ecología. Clima y biomas de la Argentina
- Geomorfología: conceptos básicos de geología. Análisis de los sistemas y procesos geomórficos a diferentes escalas. Estudio particular de la geomorfología argentina y los espacios litorales
- Hidrología continental y marina: estudio de la estructura y dinámica de la hidrósfera. Área continental y marina. Estudio particular de Argentina
- Cartografía: Desarrollo de las técnicas de representación gráfica necesarias para la cartografía temática
- Aerofotointerpretación y teledetección: Principios de la Teledetección. Interpretación de la información: visual y digital. Aplicación a estudios sistemáticos e integrales dentro y fuera de Argentina.
- Estadística: Conceptos básicos para la recolección, procesamiento e interpretación de la información estadística
- Principios de Matemática e Informática: Conocimientos matemáticos básicos para su aplicación a la estadística e introducción al manejo de los programas elementales en computación
- Geografía Social: la sociedad y su relación con las variables temporo-espaciales. Evolución de la organización económico-social. La relación espacio-sociedad. Estudio particular de Argentina
- Geografía Económica: Estudio de la dimensión espacial de los fenómenos y procesos económicos. Instrumental y estructura económica de la Argentina
- Geografía Política: estudio de las formaciones estatales. La materialización institucional y territorial. Estructura y dinámica de las Relaciones Internacionales. Estudio particular de la Argentina.
- Política y Economía de los Recursos Naturales: estudio del manejo y uso de los Recursos Naturales. La interacción Sociedad- Naturaleza. El pensamiento económico y el discurso ecológico. Medio ambiente y planificación del desarrollo. Estudio particular de Argentina.
- Geografía Urbana: estructura de los sistemas urbanos. Incidencia de los factores culturales, sociales, económicos y naturales con el fenómeno urbano. La producción social del espacio urbano. Estudio de la problemática urbana Argentina.
- Geografía Rural: la organización del espacio rural. Delimitación y caracteres. Producción social del espacio rural. Relaciones urbano-rural. Estudio particular de la Argentina.
- Teoría y método de la Investigación Geográfica: Análisis de los diferentes marcos teórico-metodológicos actuales que involucren diferentes corrientes de pensamiento. La Geografía y la problemática inter, intra y transdisciplinaria.
- Problemática Territorial Argentina: estudio de recorte espacial integrando los diferentes subsistemas (físico y social) utilizando las herramientas del área instrumental- operativa
- Problemática Territorial de América Latina: estudio de recorte espacial integrando los diferentes subsistemas. modelos de organización territorial. Criterios de diferenciación espacial. Vinculaciones con la Argentina.

- Área Socio Territorial I: estudio de recorte espacial integrando los diferentes subsistemas (físico y social) utilizando las herramientas del área instrumental-operativa. Vinculación de los distintos espacios con la Argentina. Modelos de organización territorial. Criterios de diferenciación espacial.
- Área Socio Territorial II: estudio de recorte espacial integrando los diferentes subsistemas (físico y social) utilizando las herramientas del área instrumental-operativa. Vinculación de los distintos espacios con la Argentina. Modelos de organización territorial. Criterios de diferenciación espacial.
- Seminario de Recursos Oceánicos: trabajos especiales de profundización de temas vinculados con el uso del espacio marítimo como integración sociedad-medio ambiente. Aplicaciones en el caso argentino.
- Seminario de Uso de la tierra y ordenamiento espacial: trabajos especiales de profundización de temas vinculados con problemáticas y temas derivados de la organización espacial
- Elementos de Economía*: Conceptos básicos de las teorías económicas
- Geología*: Geología estructural y geología marina
- Edafología: el suelo como complejo geomorfológico-biológico. Su importancia potencial y efectiva como insumo productivo. Los suelos de la Argentina
- Geografía Física Argentina: estudio integrado del medio ambiente natural de Argentina. Su integración al sistema socio-económico. Problemas ambientales en el espacio argentino.
- Demogeografía: fuentes de documentación en estudios de la población. Variables demográficas. Estructura y dinámica de la población. Medidas y representaciones gráficas.
- Introducción a la Antropología*: aportes desde diferentes concepciones teóricas de la Antropología a la concepción del espacio como construcción cultural. La cultura como producción social condicionada temporoespacialmente.
- Seminario de Medio ambiente y ordenamiento ambiental: trabajos especiales de profundización vinculados con la aplicación del instrumental teórico metodológico para la resolución de problemas ambientales.
- Seminario de gestión y administración territorial: trabajos especiales de profundización vinculados con problemáticas referidas a la planificación y ejecución de políticas y estrategias territoriales

Nota: *las asignaturas indicadas son dictados por otros Departamentos académicos

GRUPOS DE INVESTIGACIÓN

- Centro de Estudios Geográficos y Socio Ambientales
Director (interino): García, Mónica.
- Grupo de Estudios Sobre Población y Territorio
Director: Lucero, Patricia.
- Grupo de Estudios Medio Ambiente y Urbanización
Director: Mantobani, José M.
- Grupo de Estudios Regionales
Director: Gejo, Omar.
- Grupo Instituciones de la Ciencia Geográfica
Director: Cicalese, Guillermo.
- Grupo de Estudios de Ordenamiento Territorial
Director: García, Mónica.
- Grupo Ambiente Costero
Director: Morrel, Patricia.
- Grupo Calidad de Vida
Director: Prandín, Griselda.
- Desarrollo Rural, Ambiente y Geotecnologías
Director: Bocero, Silvia

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Los requerimientos de admisión son cumplir con alguna de las siguientes condiciones: 1) haber completado y finalizado la educación secundaria; 2) ser estudiantes que hayan cursado todo el

nivel secundario en nuestro país y adeuden materias de ese nivel podrán inscribirse de manera condicional; 3) ser estudiante que haya finalizado sus estudios secundarios en otro país y cumpla con los requisitos legales; o 4) ser mayor de 25 años que no tenga estudios secundarios completos y cumpla con ciertos requisitos de la ley 24.521

La UNMDP ofrece Becas cuyos los estipendios que, a título de promoción, no implican alguna de relación laboral, se abonan para la formación de recursos humanos en el ámbito de la Universidad a estudiantes, graduados y docentes, que deseen perfeccionar su formación en disciplinas científicas, tecnológicas, humanísticas y sociales.

UNIVERSIDAD NACIONAL DE TRES DE FEBRERO

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: 2006

PROGRAMAS DE ESTUDIO: Licenciatura, Tecnicatura Universitaria, Ciclo de Complementación Curricular

TÍTULOS OFRECIDOS: Licenciatura en Geografía, Profesorado en Geografía, Licenciatura y Tecnicatura Universitaria en Sistemas de Información Geográfica

RESPONSABLE DE LAS CARRERAS: Lic. Adrián Iulita

SITIO WEB: <http://www.untref.edu.ar/carrera/geografia>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Adrián Iulita, Caseros, Buenos Aires, Valentín Gómez 4752, Teléfono: (54-11) 4575-5012/14/15, geografia@untref.edu.ar aiulita@untref.edu.ar

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Las carreras de Geografía en la Universidad Nacional de Tres de Febrero (UNTREF) comenzaron en el año 1999 con el Ciclo de Complementación Curricular para profesores de nivel superior que desearan obtener el grado de licenciatura. En el año 2006 el consejo superior de la UNTREF aprueba la Licenciatura en Geografía, el Profesorado en Geografía, la Licenciatura en Sistemas de Información Geográfica y Tecnicatura Universitaria en Sistemas de Información Geográfica.

En el año 2017 el consejo superior de la UNTREF aprueba la creación del Centro de Investigaciones Geográficas y Geotecnológicas (CIGG).
SITIO WEB: <https://www.untref.edu.ar/instituto/cigg>

Director: Mg. Gabriel Álvarez

Coordinador General: Lic. Adrián Iulita

Presentación

De un tiempo a esta parte se consolidó una agenda pública, política y mediática que dio centralidad a numerosas problemáticas de carácter territorial y ambiental que son parte fundamental del campo de los conocimientos que interesaron históricamente a la Geografía a partir de su conformación como disciplina moderna. La geografía actual, ha sabido conquistar para su dominio y con originalidad una parte muy significativa de este tipo de problemas desde abordajes geográficos del tipo cultural, económico y político. En este sentido, el carácter “estratégico” de los saberes geográficos ganaron reconocimiento y creció la demanda de sus respuestas e intervenciones, tanto desde la estructura de la gestión estatal como desde la multiplicidad de formas en la que se expresa la sociedad civil; por ejemplo, a partir de los requerimientos de las organizaciones sociales y territoriales, los medios de comunicación, la planificación del turismo y la enseñanza de la geografía desde la formación política y ciudadana.

Así, el Centro de Investigaciones Geográficas y Geotecnológicas de la Universidad Nacional de Tres de Febrero (CIGG – UNTreF) fue creado a los fines de producir conocimientos científicos que den respuesta y contribuyan a generar nuevos interrogantes por parte de los “usuarios” de los saberes territoriales y ambientales antes referidos. En este sentido, el CIGG es un espacio académico que se propone desarrollar actividades científicas y culturales a los fines de que los conocimientos geográficos producidos en la órbita de esta Universidad, adquieran visibilidad y posibilidad de dar respuestas a problemas e interrogantes propios del actual contexto socio-histórico y territorial en particular. En ese sentido, el Centro ha sido pensado para que las experiencias de enseñanza y de investigación que se llevan adelante en el marco de las carreras de Geografía y de los Sistemas de Información Geográficos de nuestra casa de estudios puedan canalizar sus logros y expectativas.

Objetivos

El CIGG promueve el impulso a la diversidad temática, conceptual y metodológica respectivamente geográficas para el desarrollo de sus investigaciones. Los investigadores del Centro realizan estudios sobre un amplio espectro de cuestiones entre las que sobresalen sus preocupaciones por los actuales procesos de urbanización, la teoría de la geografía, las problemáticas ambientales, las migraciones internacionales, la geografía física y natural, los sistemas de información geográfica, el planeamiento y el ordenamiento territorial, las cuestiones rurales, la geografía política, la economía y el territorio, así como también, la enseñanza de la geografía, el transporte, el turismo entre otros dominios del saber geográfico. De acuerdo a lo expresado este Centro se ha fijado los siguientes objetivos:

- Articular los conocimientos producidos en el ámbito de los proyectos de investigación de la carrera con este Centro y de este con otras entidades similares.
- Impulsar proyectos de investigación que tengan especial preocupación por problemáticas sociales y territoriales que contribuyan a mayores y mejores condiciones de justicia espacial.
- Asesorar a instituciones públicas y privadas en el marco de un compromiso ético favorables al fortalecimiento de la democracia y la igualdad.
- Formar desde el campo de estudios de la geografía a investigadores egresados de nuestra y otras Universidades.
- Implementar cursos de formación docente continua de la educación secundaria para las jurisdicciones que así lo soliciten.
- Participar y promover la organización de eventos que convoquen a la sociedad civil, la sociedad política y / o el Estado.
- Desarrollar instancias de capacitación presencial y/o virtual en Sistemas de Información Geográfica
- Asesorar y desarrollar actividades de consultoría sobre Relevamientos y sistematización de información.
- Establecer contactos e intercambios académicos con otras organizaciones de tipo similar tanto de nuestro país como del exterior.

Actividades

El Centro de Investigaciones Geográficas y Geotecnológicas (CIGG) fue creado durante el año 2017 con el propósito de articular las diferentes actividades que se desarrollan en las carreras de Geografía y los Sistemas de Información Geográficos con numerosos proyectos de investigación que se vienen desarrollando desde diferentes cátedras desde al menos una década en el marco de nuestra Universidad. La diversidad temática y metodológica de estos antecedentes se encuentra plasmada en numerosas experiencias que merecen su continuación y profundización en el marco de una institución como la presente, especialmente preocupada por la excelencia académica y la diversidad de enfoques analíticos que aquí se desarrollan. En este sentido, las actividades desarrolladas y a profundizar en su desarrollo, se encuentran directamente relacionadas con los objetivos propuestos para el funcionamiento de nuestro Centro. A saber:

- Impulsar el desarrollo de proyectos de investigación de excelencia académica en el ámbito de la Universidad y con prospección a vincularlos con organismos científicos nacionales.
- Celebrar seminarios y reuniones académicas que permitan la difusión de los conocimientos producidos por el área de conocimientos que impulsa este Centro.
- Desarrollar relaciones con universidades y centros de investigación nacionales y del exterior que tiendan a fortalecer la producción de conocimientos científicos y prácticas de docencia propias de la Geografía y los Sistemas de Información Geográficos.
- Llevar a cabo acuerdos con fundaciones, instituciones, entidades u organismos públicos y privados que así lo soliciten y en el marco del conocimiento experto que promueve este Centro.
- Editar documentos, revistas, libros y otros tipos de producciones científicas que resulten de los conocimientos elaborados desde las actividades propias de esta institución.
- Impulsar acciones culturales que profundicen los vínculos entre los saberes pedagógicos producidos desde la universidad y otros niveles educativos (por ejemplo; escuela media e institutos de formación docente) que así lo requieran.

Proyectos de Investigación Vigentes

- Capitales educativos, valorización territorial selectiva y reurbanización especulativa en la actual división social del espacio metropolitano al norte de la ciudad de Buenos Aires. Director: Gabriel Álvarez
- Educación ambiental y gestión de los residuos sólidos urbanos: Experiencias en escuelas públicas del partido de Tres de Febrero. Perspectivas y alcances. Directora: Sandra Alvino
- Configuraciones socioculturales, espaciales e institucionales de la violencia de género. Director: Tomás Calello
- Transformaciones sociales y urbanas en el Área Metropolitana de Buenos Aires: El caso del Partido de Tres de Febrero (1990-2010). Director: Adrián Iulita
- Desigualdades microespaciales urbanas: un estudio de las condiciones sociohabitacionales en distintos tipos de hábitat de la Región Metropolitana de Buenos Aires. Directora: Mariana Marcos
- Migración, territorio y desigualdades intraurbanas: entornos residenciales de los migrantes de Bolivia, Paraguay y Perú en la Aglomeración Gran Buenos Aires. Directora: Gabriela Mera

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: La enseñanza en la Universidad Nacional de Tres de Febrero es libre y gratuita, por lo tanto, las actividades de grado no son aranceladas. El régimen de cursada es cuatrimestral. Los ingresantes deben poseer título de escuela media y realizar un curso de nivelación de un cuatrimestre (quienes poseen un título universitario se encuentran eximidos del mismo).

Las materias se cursan por cuatrimestre. El primer cuatrimestre comienza en marzo hasta finales de junio. El segundo cuatrimestre comienza en agosto hasta principios de diciembre. Existe un programa de intercambio de alumnos extranjeros con otras Universidades.

Licenciatura en Geografía: Los alumnos que cursen la carrera de Licenciatura en Geografía deberán completar, con carácter obligatorio, el desarrollo de las siguientes actividades curriculares: Veintidós (22) asignaturas, Cuatro (4) Seminarios, Tres (3) niveles de Idioma Extranjero, Un (1) Nivel de Informática, Un (1) Trabajo Final. Nómina de asignaturas: Informática I, Introducción a la Geografía, Cuestiones de Sociología, Economía y Política, Problemas de Historia del Siglo XX, Introducción a la Problemática del Mundo Contemporáneo, Tecnologías de Información y Comunicación Geoambientales, Ecogeosistemas Físicos I, Geografía Social y Demografía, Cultura Contemporánea, Sistemas de Información Geográfica I, Cartografía I, Ecogeosistemas Físicos II, Geografía Económica, Métodos Cuantitativos, Cartografía II, Geografía Política

y Geopolítica, Teledetección, Ecogeosistemas Rurales, Ecogeosistemas Urbanos, Procesamiento Digital de Imágenes, Métodos Cualitativos, Metodología de la Investigación, Seminario I, Teoría y Métodos de la Geografía, Seminario II, Seminario de Investigación, Seminario III, Idioma Extranjero I, II y III

Licenciatura en Geografía (Ciclo de Complementación Curricular): Los alumnos que cursen el Ciclo de Complementación Curricular deberán completar, con carácter obligatorio, el desarrollo de las siguientes actividades curriculares: Doce (12) Asignaturas, Tres (3) Seminarios, Dos (2) niveles de Idioma Extranjero, Un (1) Nivel de Informática, Un (1) Trabajo Final. Nómina de asignaturas: Informática I, Cuestiones de Sociología, Economía y Política, Tecnologías de Información y Comunicación Geoambientales, Geografía Social y Demografía, Cultura Contemporánea, Sistemas de Información Geográfica I, Cartografía I, Métodos Cuantitativos, Teledetección, Procesamiento Digital de Imágenes, Métodos Cualitativos, Metodología de la Investigación, Seminario I, Teoría y Métodos de la Geografía, Seminario II, Seminario de Investigación, Idioma Extranjero I y II

Licenciatura en Sistemas de Información Geográfica: Los alumnos que cursen la carrera de Licenciatura en Sistemas de Información Geográfica deberán completar, con carácter obligatorio, el desarrollo de las siguientes actividades curriculares: Veinticuatro (24) Asignaturas, Cuatro (4) Seminarios, Tres (3) Niveles de Idioma Extranjero, Un (1) Trabajo Final. Nómina de asignaturas: Informática I, Introducción a la Geografía, Cuestiones de Sociología, Economía y Política, Problemas de Historia del Siglo XX, Introducción a la Problemática del Mundo Contemporáneo, Tecnologías de Información y Comunicación Geoambientales, Geometría Aplicada a los Sistemas de Información Geográfica, Ecogeosistemas Físicos I, Cultura Contemporánea, Sistemas de Información Geográfica I, Cartografía I, Ecogeosistemas Físicos II, Geografía Social y Demografía, Métodos Cuantitativos, Cartografía II, Geografía Económica, Sistemas de Información Geográfica II, Teledetección, Ecogeosistemas Rurales, Ecogeosistemas Urbanos, Procesamiento Digital de Imágenes, Seminario de Aplicación I, Metodología de la Investigación, Sistemas de Información Geográfica III, Teoría y Métodos de la Geografía, Seminario de Aplicación II, Seminario de Investigación, Seminario de Aplicación II, Idioma Extranjero I, II y III.

Tecnicatura Universitaria en Sistemas de Información Geográfica: Los alumnos que cursen la carrera de Tecnicatura Universitaria en Sistemas de Información Geográfica deberán completar, con carácter obligatorio, el desarrollo de las siguientes actividades curriculares: Dieciséis (16) Asignaturas, Una (1) Pasantía, Dos (2) niveles de Idioma Extranjero, Un (1) nivel de Informática. Nómina de asignaturas: Informática I, Introducción a la Geografía, Cuestiones de Sociología, Economía y Política, Problemas de Historia del Siglo XX, Introducción a la Problemática del Mundo Contemporáneo, Tecnologías de Información y Comunicación Geoambientales, Ecogeosistemas Físicos I, Geografía Social y Demografía, Cultura Contemporánea, Sistemas de Información Geográfica I, Cartografía I, Ecogeosistemas Físicos II, Geografía Social y Demografía, Métodos Cuantitativos, Cartografía II, Pasantía, Sistemas de Información Geográfica II, Teledetección, Idioma Extranjero I y II

Profesorado Universitario en Geografía:

Los alumnos que cursen la carrera de Profesorado en Geografía deberán completar, con carácter obligatorio, el desarrollo de las siguientes actividades curriculares: Veintitres (23) asignaturas, Cuatro (4) Seminarios, Un (1) nivel de Idioma Extranjero, Un (1) Nivel de Informática, Una (1) Instancia de Residencia. Nómina de asignaturas: Cuestiones de Sociología, Economía y Política, Cultura Contemporánea, Problemas de Historia del Siglo XX, Introducción a la Problemática del Mundo Contemporáneo, Metodología de la Investigación, Introducción a las ciencias geográficas, territoriales y ambientales, Ecogeosistemas Físicos I, Ecogeosistemas Físicos II,

Geografía Social y Demografía, Cartografía I, Sistemas de Información Geográfica I, Geografía Política y Geopolítica, Ecogeosistemas Rurales, Ecogeosistemas Urbanos, Cartografía II, Problemas geográficos, territoriales y ambientales de Argentina y mundiales, Métodos Cualitativos, Teoría y métodos de las ciencias geográficas, territoriales y ambientales, Seminario de investigación integrada, Seminario optativo de graduación I, II y III, Psicología de la enseñanza/aprendizaje, Didáctica General e Instituciones Educativas, Espacio de prácticas docentes, Didáctica de la geografía y las ciencias sociales, Prácticas de la Didáctica de la Geografía y las Ciencias Sociales, Sistemas de información y comunicación geográficos, Idioma Extranjero I, Informática I.

PROFESORADO:

Mg. Gabriel Álvarez, Prof. Sandra Alvino, Lic. Ilana Arensburg, Lic. Diego Azcurra, Abg. Cristina Bellini, Mg. Luis Briano, , Lic. Lida Borello Dr. Tomás Calello, Lic. Mariana Campi, Lic. Silvia Castro Godoy, Prof. Lic Laura Diaz, Lic. Mariana Gasparotto, Lic. Carolina Di Gregorio, Lic. Adrián Iulita, Dra. Mariana Marcos, Dra. Gabriela Mera, Mg. María Clara Fernández Melián, Lic. Julio Paixao, Lic. Clara González Reig, Prof. Lic. Esp. Barbara Romano, Mg. Carlos Ruggerio, Ing. Gustavo Silistria, Prof. Gabriel Videla, Lic. Federico Zuberman

UNIVERSIDAD NACIONAL DE TUCUMÁN

**FACULTAD DE FILOSOFIA Y LETRAS
INSTITUTO DE ESTUDIOS GEOGRAFICOS "DR.
GUILLERMO ROHMEDEY"**

DATE FOUNDED: 1940 y refundado en 1981

DIRECTOR: Dra. Ana Isabel Rivas

DEGREES OFFERED: M.S., Ph.D. en Ciencias Sociales
Orientación Historia o Geografía

GRANTED: 9 Masters y 2 Ph.D.s

FOR FURTHER INFORMATION WRITE TO: Dra. Ana Isabel Rivas. Av. Benjamín Aráoz 800, San Miguel de Tucumán, Argentina. Código Postal 4000. Telephone (0054) 381-4107348. Fax (0054) 381-410171. E-Mail: ieg@filo.unt.edu.ar. Internet: <http://www.filo.unt.edu.ar>.

PROGRAMS AND RESEARCH FACILITIES: El Instituto de Estudios Geográficos "Dr. Guillermo Rohmeder" (I.E.G.) desarrolla sus actividades académicas desde 1940, pero luego de un amplio periodo de inactividad fue reabierto en 1981. Desde su creación, el Instituto de Estudios Geográficos planteó como objetivos principales: a) llevar a cabo investigaciones en el ámbito regional y b) divulgar los resultados de dichas investigaciones a través de publicaciones periódicas (series monográficas, libros, etc.) y de las labores docentes en la carrera de grado (Profesorado y Licenciatura en Geografía) y postgrado. Actualmente el I.E.G. está integrado por geógrafos e historiadores que se desempeñan como docentes e investigadores. También participan activamente en las tareas de investigación los becarios de postgrado y los estudiantes de grado y técnicos. Desde la década del '80 el equipo académico se orientó a la generación de conocimiento en el área de las Ciencias Sociales encarando problemáticas del ámbito provincial y regional. En este marco han surgido diversos programas y proyectos de investigación orientados hacia los estudios sociales y naturales de la provincia de Tucumán y del conjunto regional del norte argentino. Estos proyectos se ejecutan con el financiamiento de diversas instituciones nacionales como la Secretaría de Ciencia y Técnica de la Universidad Nacional de Tucumán, el Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET) y la Agencia Nacional de Investigación Científica y Tecnológica. Durante los últimos 15 años se han

formalizado emprendimientos conjuntos con instituciones nacionales - como el Grupo de Estudios Rurales de la Universidad de Buenos Aires coordinado por la Mg. Norma Giarracca, la Asociación de Estudios de Población de la República Argentina (AEPA) - e internacionales como la Philipps- Universität Marburg y la Hochschule Vechta de Alemania y el departamento de Geografía de la Universidad de Málaga, España. Mediante estos contactos se generó un importante proceso de cooperación académica y científica entre los docentes/investigadores del I.E.G. y las instituciones mencionadas. Actualmente las líneas de investigación se orientan hacia las problemáticas urbanas y rurales, procesos y problemáticas agrarias, demografía, la calidad de vida en el noroeste argentino y medición y análisis de la pobreza en el Norte Grande Argentino. El I.E.G. cuenta con una Hemeroteca y Biblioteca cuyo objetivo es apoyar las funciones de los investigadores, docentes, estudiantes y profesionales vinculados con los programas y proyectos de investigación tanto del I.E.G. como de otros centros de investigación de la UNT, de universidades de la región y del país; visitantes extranjeros y nacionales, así como de instituciones gubernamentales y no gubernamentales de nuestro medio. Realiza canje con 58 instituciones nacionales entre las que se destacan, universidades nacionales, institutos y centros de investigaciones históricas y geográficas, academias nacionales, INDEC, etc. Además mantiene un fluido canje con 76 instituciones extranjeras entre las que figuran universidades de Alemania como la de Kiel, Marburg, Hannover, Tübingen; de España como la Autónoma de Madrid, Sevilla, Cádiz, Barcelona, Zaragoza, etc.

Personal Responsable: Prof. Alicia Ferrari y Prof. Mercedes Porcel
E-mail: hemeieg@filo.unt.edu.ar

Laboratorio de cartografía digital

Este laboratorio cuenta con un equipo de especialistas que realizan tareas relacionadas con los sistemas de información geográfica (SIG), los cuales se definen como el conjunto de herramientas para el análisis de la información del territorio, desarrolladas para ser usadas con computadoras personales. Las bases de datos del SIG incluye información cartográfica del área metropolitana de San Miguel de Tucumán, de la Provincia de Tucumán y del Norte Grande Argentino, información estadística del INDEC (Censos y Encuestas) y también registros recopilados a través de las investigaciones y servicios realizados por el I.E.G. Desde este ámbito se brinda servicios relacionados con Sistemas de Información Geográfica y Procesamiento de Imágenes de Satélite: cartografía general en soporte digital, cartografía temática, análisis espacial multivariante, procesamiento de imágenes de satélite, correcciones geométricas, georeferenciación, correcciones espectrales, composición falso color, clasificación multiespectral y procesamientos multitemporales.

Personal a cargo: Ing. Horacio Madariaga, Dra. Claudia M. Hernández y Lic. Federico J. Soria.

Publicaciones

Revista Breves Contribuciones del IEG, editada por el IEG
Población y Sociedad, editada por la Fundación Yocavil

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: En el área de la Geografía, por medio de un trabajo consensuado entre docentes del área de Historia y Geografía se creó en 1995 la *Maestría en Ciencias Sociales (orientación Historia o Geografía)* con sede en el Instituto de Estudios Geográficos. Su origen respondió a las propuestas y necesidades personales de un grupo de docentes e investigadores de estas dos disciplinas y no fue el resultado de una política de postgrado general establecido en el seno de la propia Universidad. Desde el 2003 la Maestría se complementó con el Doctorado con el propósito de articular con el nivel superior y en consecuencia se creó la *Maestría y Doctorado en Ciencias Sociales (orientación Historia o Geografía)* acreditada por la CONEAU (Comisión Nacional para la Evaluación y Acreditación Universitaria). Esta carrera se desarrolla en base a una oferta de cursos

básicos de contenido metodológico y de formación general, los que se complementan con temáticas específicas de cada disciplina, es decir de Geografía e Historia, siendo algunos obligatorios y otros optativos. Se cuenta con un cuerpo estable de 11 profesores que proceden de universidades nacionales e internacionales (Universidad de Buenos Aires, de la Universidad de Quilmas, Universidad del Nordeste y del extranjero se puede mencionar a la participación desde la Universidad de Marburg, Alemania; la Universidad Autónoma de Madrid, entre otros). También cuenta con un cuerpo de profesores invitados, donde a los de Buenos Aires y Tucumán, se agregan docentes de Berkeley, Madrid, Turín, entre otros. Actualmente la carrera cuenta con 25 estudiantes, quienes pueden acceder al sistema de becas que ofrece la Secretaría de Ciencia y Técnica de la UNT o las del CONICET.

Director: Dr. Alfredo S.C. Bolsi E-mail: bolsi@filo.unt.edu.ar
Secretaría: Lic. Noemí López E-mail: nlopez@filo.unt.edu.ar

FACULTY:

Bolsi, Alfredo S. C., 2007 Ph. D. Universidad Nacional de Tucumán — Geografía Histórica, Geografía de la Población y Demografía.
Würschmidt, Enrique J., 1999 - Profesor Universidad Nacional de Tucumán — Geografía Física, Cartografía y Geografía Matemática.

UNIVERSIDAD NACIONAL DEL SUR

DEPARTAMENTO DE GEOGRAFIA y TURISMO

FECHA DE FUNDACION: 1956

TITULOS OFRECIDOS de POSGRADO: Doctorado en Geografía y Magister en Geografía. Especialización en Turismo Rural y Comunitario. Maestría en Desarrollo y Gestión Territorial Maestría en Procesos Locales de Innovación y Desarrollo Rural (PLIDER)

TITULOS OFRECIDOS de GRADO: Licenciatura en Geografía, Profesorado en Geografía, Licenciatura en Turismo, Licenciatura en Oceanografía. Tecnicatura en Cartografía, Sistemas de Información Geográfica y Teledetección, Arquitectura

CANTIDAD DE ALUMNOS DE GRADO ENTRE TODAS LAS CARRERAS DE GRADO: 2275 Alumnos

CANTIDAD DE ALUMNOS DE DOCTORADO y de MAESTRIA: 86 Alumnos

DIRECTORA DEL DEPARTAMENTO: Mg. Stella Maris Visciarelli

SECRETARIA ACADÉMICA DEL DEPARTAMENTO: Mg. Cecilia Alejandra Rodríguez

DIRECTOR DEL PROGRAMA DE POSGRADO PARA DOCTORADO: Dr. Roberto Bustos Cara

DIRECTORA DEL PROGRAMA DE POSGRADO PARA MAESTRÍA:

Maestría En Geografía: Mg. Patricia Rosell

Maestría PLIDER: Dra. Amalia Lorda

Especialización en Turismo Rural y Comunitario: Dra. Patricia Ercolani

SECRETARIA DE POSGRADO: Dra. María Luján Bustos

SECRETARIA DE EXTENSIÓN: Dra. María Paula Michalijos

PARA MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: DRA. MARÍA PAULA MICHALIJOS. DEPARTAMENTO DE GEOGRAFIA Y TURISMO-UNS -Calle: 12 de Octubre y San Juan-

4to piso- Ciudad Bahía Blanca, País: Argentina. Teléfono y fax: 54-291-4595144. Mail: extensiondgyt@uns.edu.ar - Página de la Universidad: www.uns.edu.ar - Página del Departamento de Geografía y Turismo <http://www.geografiayturismo.uns.edu.ar/>

PROGRAMAS E INSTALACIONES DE INVESTIGACION: el Departamento de Geografía y Turismo cuenta con varios centros de investigación y un conjunto de actividades que contribuyen al apoyo académico y profesional de la disciplina: Centro de Documentación y Producción Cartográfica, Laboratorio de Cartografía Digital, Laboratorio de Geotecnologías (LabGeoT), Biblioteca Especializada en Geografía, Consejo Editorial y Comité Editorial de la Revista Universitaria de Geografía, CIUR- Estudios Territoriales: Centro de Investigación Urbano-Regionales, Grupos de Investigación (PGIs y PGI TIR Proyecto, de Interés Regional-), Cursos de Capacitación, de Perfeccionamiento y de Actualización para Docentes, Organización de Jornadas, Encuentros y Congresos.

PROGRAMA DE POSGRADO: El Doctorado y Magister en Geografía es personalizado, los alumnos deben obtener 100 horas entre cursos y seminarios para el Doctorado y los 80 para la Maestría. Cada año en el mes de marzo se publica el calendario con los cursos ofrecidos. Colaboran en el dictado de los mismos profesores de Universidades Nacionales y del exterior. Las temáticas responden a las diferentes temáticas de los tesisistas.

INCUMBENCIAS DE LOS PLANES DE ESTUDIO:

Licenciatura en Geografía

Duración: 4 años y un cuatrimestre

Los graduados en esta carrera podrán delimitar y realizar el diagnóstico de regiones geográficas con fines de ordenamiento y organización territorial. Participar en equipos interdisciplinarios para planificar, trabajar para la utilización racional de los recursos naturales y culturales; evaluar los cambios operados por factores de origen natural o antropogénico e interpretar los fenómenos que el proceso de globalización impone en todas las escalas espaciales y temporales.

Profesorado en Geografía

Duración: 4 años y un cuatrimestre

Los graduados en esta carrera podrán ejercer la profesión docente en los diferentes niveles de Educación Primaria y Educación Secundaria, en establecimientos públicos y privados, también en el nivel Terciario y Universitario. Planificar, orientar y evaluar el proceso de enseñanza y de aprendizaje de la Geografía en los diferentes niveles educativos. Participar y elaborar proyectos individuales e interdisciplinarios vinculados a las cuestiones pertinentes a la tarea docente y a la gestión educativa.

Licenciatura en Turismo

Duración: 5 años

Los graduados en esta carrera podrán desempeñarse profesionalmente en la investigación, en la planificación de los recursos, en la gestión, tanto económica como cultural, acorde a los requerimientos y necesidades de la región y del país. Elaborar políticas de desarrollo, promoción y gestión del turismo. Formular, elaborar, dirigir planes y evaluar planes de desarrollo y proyectos turísticos. Organizar, coordinar y gerenciar empresas turísticas. Desarrollar actividades de gestión operativa y gerencial en empresas y organismos de turismo tanto de competencia de nivel público como privado. Coordinar equipos interdisciplinarios de planeamiento del desarrollo de los sectores turísticos y recreativos.

Licenciatura en Oceanografía

Duración: 5 años

Los graduados en esta carrera podrán ejercer toda actividad relacionada a la investigación y la profesión en carácter independiente o en relación de dependencia a través de trabajos específicos, asesoramientos, arbitrajes, pericias, tasaciones, etc. El ámbito de aplicación de estos alcances corresponde a toda masa de agua y su zona de influencia, los océanos, los mares, grandes lagos, sus fondos y

subsuelos, entre otros. La carrera tiene varias orientaciones: física marina, geología marina, química marina y biología marina.

Tecnatura en Cartografía, Sistemas de Información Geográfica y Teledetección.

Duración: 3 años

Las actividades profesionales del técnico consisten en la realización de tareas de asesoramiento y análisis de los datos espaciales en organismos públicos (Universidades, Municipios, Gobernaciones) o de iniciativa privada (Consultoras). Estas tareas se podrán ejercer a través de: organismos y servicios permanentes de investigación y estudios ambientales, integrantes de entidades científicas, culturales, económicas y administrativas, prestación de servicios dirigidos a la realización de determinados estudios o investigaciones de interés para instituciones públicas o particulares, inclusive pericias y arbitrajes, prestación de servicios de carácter permanente o temporario bajo la forma de consultoría o asesoría a requerimiento de organismos públicos o privados.

Arquitectura

Duración: 5 años

Las incumbencias de los Arquitectos son: Diseñar, proyectar, dirigir y ejecutar la concreción de los espacios destinados al hábitat humano, obras de recuperación, renovación, rehabilitación y refuncionalización de edificios, conjuntos de edificios y de otros espacios. Proyectar, dirigir y ejecutar la construcción de edificios, conjuntos de edificios y los espacios que ellos conforman, con su equipamiento e infraestructura y otras obras destinadas al hábitat humano y todo lo concerniente a la higiene y seguridad en obras de arquitectura. Efectuar la planificación arquitectónica y urbanística de los espacios destinados a asentamientos humanos. Realizar estudios e investigaciones referidos al ordenamiento y planificación de los espacios que conforman el hábitat y a los problemas relativos al diseño, proyecto y ejecución de obras de arquitectura. Participar en planes, programas y proyectos de ordenamiento físico-ambiental del territorio y de Participar en la elaboración de normas legales relativas al ordenamiento y planificación de los espacios que conforman el hábitat humano. Realizar arbitrajes, peritajes, tasaciones y valuaciones relacionadas con el ordenamiento y planificación de los espacios que conforman el hábitat y con los problemas relativos al diseño, proyecto y ejecución de obras de arquitectura.

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA:

La enseñanza en la Universidad Nacional del Sur es libre y gratuita. Los cursos de grado no están arancelados. Las materias se cursan por cuatrimestre. El primer cuatrimestre comienza en marzo hasta finales de junio. El segundo cuatrimestre comienza en agosto hasta principios de diciembre. Hay un programa de intercambio de alumnos extranjeros con otras Universidades, que administra la Secretaría General de Relaciones Institucionales y Planeamiento. El contacto es: sriyp@uns.edu.ar. La inscripción al Programa de Posgrado es gratuita y la admisión queda sujeta al Reglamento de Estudios de Posgrados Académicos. Los cursos para la obtención de los créditos son arancelados. Consultas en posgradodgyt@uns.edu.ar

PROFESORES de la UNIDAD ACADÉMICA DE GRADO

Angeles, Guillermo Raul — GIS y Teledetección

Bagnulo, Cecilia Beatriz — Geografía Rural y Teoría del Planeamiento

Benedetti, Graciela — Biogeografía Cultural y Teoría y Epistemología de la Geografía

Bohn, Vanesa Yael — Geografía Ambiental Argentina

Caramelli, Sabrina Maricel — Organización de los Servicios Turísticos -Transporte y Agencias de Viajes

Carbone, María Elizabeth — Manejo de Áreas Protegidas costeras

Ercolani, Patricia Susana — Geografía del Turismo

Fittipaldi, Rosa Angela — Geografía Histórica y Geografía Económica, Política y Social

Gallucci, Soledad — Gestión de la Calidad en Turismo - Políticas Turísticas

Garriz, Eduardo Julio — Geografía Urbana
Gentili, Jorge Osvaldo — Climatología y GIS
Geraldi, Alejandra — GIS y Teledetección
Gil, Valeria — Congresos y Convenciones
Gil, Verónica — Geografía Física e Hidrografía
Guerrero, Ana Lia Del Valle — Geografía de América y Oceanía y Geografía Turística
Haag, María Isabel — Geografía de los Recursos Turísticos
Jonke, Brenda Laura — Turismo y organización de los Servicios Turísticos
Lorda, María Amalia — Didáctica y Práctica de la Geografía
Martín María Cecilia — Geografía Regional Aplicada
Melo, Walter — Cartografía Náutica
Minervino, Mario Roberto — Patrimonio Histórico y Cultural
Monachesi, Alejandra — Gestión Ambiental y Metodología de la Investigación Rural
Moroni, Andrés — Morfología y Taller de Arquitectura I
Nieto, María Belén — Geografía de Asia
Perez, María Ines — Técnicas y Metodología de la Investigación en Geografía
Piccolo, María Cintia — Hidrografía y Oceanografía
Prieto, María Belén — Geografía de la Población – Demografía Aplicada
Prieto, María Natalia — Didáctica y Práctica de la Geografía
Rodríguez, Cecilia — Planeamiento Turístico – Gestión de Destinos Turísticos
Rosake, Paola Alejandrina — Introducción al Turismo
Rosell, María Patricia — Geografía Ambiental de la Argentina
Rubio, María Laura — Cartografía Automatizada
Sili, Marcelo Enrique — Organización y dinámica del espacio rural y Mercosur
Tonellotto, Sandra — Geografía Regional Argentina
Trellini, Mauro — Análisis Cuantitativo de la Actividad Turística
Visciarelli, Stella Maris — Geografía América y Oceanía y Geografía Turística
Vitale, Alejandro - Mareas
Zingoni Segatori, Jose María — Gestión del Patrimonio Urbano – Historia de la Arquitectura

desarrollados y luego en el nuestro, ha vuelto a dar la importancia al objetivo de la Geografía: el análisis y la planificación del territorio o del espacio geográfico. Ideas tales como planificar el espacio geográfico, utilizar racionalmente nuestros recursos, ordenar el uso de la tierra, u ordenar el territorio, comienzan cada vez más a manejarse en los niveles de decisión gubernamentales de Bolivia y se prevé que la demanda por profesionales relacionados con estos campos, crecerá rápidamente en los próximos años. Esta demanda no solo incluye a los profesionales en otras disciplinas, sino también a los geógrafos como especialistas de la planificación del espacio. En este sentido, la Carrera de Ingeniería Geográfica, de la Facultad de Ciencias Geológicas de la UMSA, tiene el reto de responder adecuadamente a dicha demanda. Esto implica, la adecuación del Plan de Estudios de la Carrera de Ingeniería Geográfica, de acuerdo a los requerimientos de nuestra sociedad y al rápido desarrollo de la tecnología de los últimos años. La Carrera de Ingeniería Geográfica aparece por primera vez durante la década de los años 60 en la Universidad Mayor de San Andrés como Carrera de Geografía y Recursos Naturales, la misma que fue cerrada temporalmente. Desde 1984 se consolida como Carrera de Ingeniería Geográfica como parte de las carreras que ofrece la Universidad Mayor de San Andrés.

A partir de 2009 se aprueba el programa de Técnico Superior en Ordenamiento Territorial en la localidad de Achacachi, Provincia Omasuyos del Departamento de La Paz, Bolivia. El primer postgrado de la Carrera de Geografía se aprueba el año 2004 con el grado de "Maestría en Geopolítica de los Recursos Naturales", 2 años más tarde el año 2005 se aprueba la segunda "Maestría en Teledetección y SIG".

Técnico Superior en Ordenamiento Territorial y Catastro: La Carrera de Técnico Superior en Ordenamiento Territorial es parte del programa de desconcentración universitaria de la Universidad Mayor de San Andrés (UMSA) que se localiza en las áreas rurales del Departamento de La Paz. En este caso el programa se localiza en la población de Achacachi, en la Provincia Omasuyos del Departamento de La Paz, a 4 horas de la ciudad de La Paz, en el Altiplano Boliviano cerca del Lago Titicaca. La Carrera de Técnico Superior en Ordenamiento Territorial es dependiente de la Carrera de Ingeniería Geográfica de la UMSA. La duración del programa es de 3 años.

Ingeniería Geográfica: La Carrera de Ingeniería Geográfica es dependiente de la Universidad Mayor de San Andrés (UMSA) localizada en la ciudad de La Paz. La Carrera de Ingeniería Geográfica otorga el grado de Ingeniero/a. La única Carrera que otorga el grado universitario en el tema de Geografía en Bolivia, en la Universidad Pública, es la Carrera de Ingeniería Geográfica de la UMSA. La duración de la Carrera es de 5 años.

El año 2013 se aprobaron las siguientes menciones: - Cambio climático, vulnerabilidad y riesgos - Geografía humana y gestión territorial - Geomática - Gestión Ambiental y Recursos Naturales - Ordenamiento Territorial y Catastro Así, el estudiante puede optar por las áreas mencionadas Maestría en Geopolítica de los Recursos Naturales: La Maestría tiene como objetivo formar recursos humanos con sólidos conocimientos en métodos, técnicas, y procedimientos de investigación que permitirán la obtención de título de Magister en Geopolítica de los Recursos Naturales. Este programa propone preparar a sus estudiantes para la docencia, la investigación, el trabajo especializado y la consultoría nacional e internacional, en los sectores público y privado. Tiene una duración de 2 años.

Maestría en Teledetección y SIG: El objetivo de la Maestría es formar profesionales de alto nivel técnico - científico, relacionados al uso de las técnicas y herramientas de la Teledetección Espacial y los Sistemas de Información Geográfica, capaces de utilizar en el diseño, puesta en marcha, ejecución, mantenimiento y actualización de proyectos y otras actividades relativas a esta temática, que califiquen teórica y técnicamente en la gestión de los recursos naturales y el medio ambiente. Tiene una duración de 2 años.

BOLIVIA

UNIVERSIDAD MAYOR DE SAN ANDRÉS

FACULTAD DE CIENCIAS GEOLÓGICAS
CARRERA DE INGENIERÍA GEOGRÁFICA
FUNDADA EN: 1984

GRADOS QUE OFRECE: Técnico Superior en Ordenamiento Territorial y Catastro, Ingeniería Geográfica, Maestría en Geopolítica de los Recursos Naturales, Maestría en Teledetección y SIG

ESTUDIANTES ACTUALES: Ingeniería: 422 (2014); Maestría: 64

DIRECTOR: Msc. Erwin Galoppo von Borries

PAGINA WEB: www.geografia.umsa.bo

PARA MAYOR INFORMACION ESCRIBIR A: Erwin Galoppo, ergaloppo52@hotmail.com, Dirección de Carrera, Edif. de Geografía, Piso 3, of. 301, Campus Universitario de Cota Cota, Calle 27. Telef.: 2442881, 2612881, La Paz - Bolivia.

PROGRAMAS: La preocupación ambientalista de los últimos años y el "giro espacial" dentro de las ciencias sociales, primero en los países

PROFESORES/PROFESORAS

Se indica el nombre, áreas de interés o materias que dicta:

Msc. Erwin Galoppo von Borries, *Director de Carrera, Métodos Estadísticos en Geografía*

Arq. Bertha Góvalves Kreuzer, *Docente Emérito, Planificación Territorial, Geografía Urbana y Rural, Geografía Regional*

Msc. Francisco Callejas, *Docente Titular, Sociología y Geografía de la Población*

Ing. Edwin Machaca, *Docente Titular, Geología*

Ing. Edmundo Flores, *Docente Titular, Climatología e Hidrología*

Ing. Raul Ayala, *Docente Titular, Evaluación de Impactos Ambientales, Conservación el Medio Ambiente*

Lic. Roberto Viscaye, *Docente Titular, Métodos de Investigación, Estadística*

Ing. Oscar Vidaurre, *Docente Titular, Ecología, Biogeografía*

PhD. Yuri Sandoval, *Docente Titular, Sistemas de Información Geográfica*

Lic. Raul Salas Piludo, *Docente Titular, Biología*

Ing. José Pedro Rivera, *Docente Titular, Informática*

PhD. Vladimir Orsag, *Docente Titular, Edafología*

Ing. Nelson Aban, *Docente Titular, Geomorfología*

Ing. Juan José Flores, *Docente Titular, Geografía Económica*

Msc. Javier Nuñez Villalba, *Docente Titular, Fotointerpretación, Percepción Remota*

BRASIL

ASSOCIAÇÃO DE GEÓGRAFOS BRASILEIROS

TYPE OF INSTITUTION: Sociedade profissional/

Associação científica

PRIMARY ACTIVITY: Pesquisa

DATE OF FOUNDATION: 1934

PUBLICATIONS: Revista Terra Livre

WEBSITE: www.agb.org.br

FOR INFORMACION CONTACT: Nelson Rego (Porto Alegre), Presidente, Avenida Professor Lineu Prestes, número 338, CEP 05.508-970, bairro Cidade Universitária, São Paulo, Estado de São Paulo, São Paulo, Brasil, nacional@agb.org.br

MISSION: História da AGB A Associação dos Geógrafos Brasileiros (AGB) foi fundada por Pierre Deffontaines, em São Paulo, em 1934, no mesmo ano em que se iniciava os cursos de Geografia e História na Faculdade de Filosofia, Ciências e Letras da Universidade de São Paulo (FFCL/USP). Desde o seu surgimento a AGB congregou intelectuais de renome como: Caio Prado Junior, Luiz Fernando Moraes Rego, Rubens Borba de Moraes e Pierre Monbeig. Em 1944, AGB passou a se constituir em uma entidade de dimensões nacionais, que possuía sócios, profissionais, estudantes e colaboradores em todo o território brasileiro. As primeiras seções regionais foram criadas nos estados do Rio de Janeiro, Minas Gerais, Paraná, Pernambuco e Bahia. Em 1946, a AGB realizou em Lorena, São Paulo, a sua primeira reunião nacional, sucedida até 1955 por inúmeras reuniões anuais. Em 1956, a AGB promoveu o XVIII Congresso Internacional de Geografia da União Geográfica Internacional (UGI). Até o início dos anos 70 a AGB era caracterizada como uma associação de pesquisadores. Mas no final dos anos 70 (1978), na reunião anual realizada em Fortaleza, Ceará, a AGB estimulada pelo crescimento do movimento estudantil brasileiro, passou por uma renovação de sua perspectiva organizacional, que se refletiu no processo de reformulação de seu estatuto que a tornou uma associação mais integrada à luta pelos direitos humanos e ao debate político e

democrático da sociedade. A história institucional da AGB está integrada à história da Geografia e do pensamento geográfico brasileiro, não havendo sentido em falar do pensamento geográfico sem citá-la. Dentre seus objetivos está a promoção do conhecimento científico a partir da troca de idéias de seus associados. Isso acontece nas reuniões regulares da Associação, nos fóruns de discussão e demais grupos de estudo. O diálogo se dá também por meio das publicações que mantemos. Boa parte da produção científica da Geografia brasileira encontra-se publicada em Anais de seus Congressos e Encontros. A AGB também é responsável pelas edições da Revista Terra Livre e do Jornal AGB Em Debate. As Seções Locais são responsáveis pela publicação de várias revistas científicas como: o Boletim Paulista de Geografia, que completou 50 anos em 1999, o mais antigo em circulação; o Boletim Gaúcho de Geografia; o Prudentino de Geografia; o Fluminense de Geografia; e o Amazense de Geografia. A AGB é uma entidade civil, sem fins lucrativos, que reúne geógrafos, professores e estudantes de Geografia preocupados com a promoção do conhecimento científico, filosófico, ético, político e técnico da Geografia para que se possa oferecer à crítica da sociedade uma abordagem geograficamente consistente dos seus/nossos problemas, com o intuito de aperfeiçoar o debate científico da Geografia e que se interessam pelo desenvolvimento de alternativas e iniciativas de promoção do bem-estar social. Nesse sentido, a AGB tem procurado reunir todos aqueles que entendem ser a Geografia uma das dimensões fundamentais da aventura do homem na superfície da Terra. Uma Diretoria Executiva Nacional e as várias Seções Locais (com eleições a cada dois anos), formam a estrutura e o corpo da AGB que, com operação com órgãos similares, irradiam suas atividades por todo o país. Destaca-se entre seus objetivos: Promover o desenvolvimento da Geografia, pesquisando e divulgando assuntos geográficos; Estimular o estudo e o ensino da Geografia, propondo medidas para seu aperfeiçoamento; Manter intercâmbio e colaboração com outras entidades brasileiras e internacionais dedicadas à pesquisa geográfica ou de interesse correlato; Analisar atos dos setores públicos ou privados que interessem e envolvam a ciência geográfica, os geógrafos e as instituições de ensino e pesquisa da Geografia, e manifestar-se a respeito; Congregar os geógrafos, professores e estudantes de Geografia e demais interessados, pela defesa e prestígio da classe e da profissão; Promover encontros, congressos, exposições, conferências, simpósios, cursos e debates, bem como o intercâmbio profissional; Representar o pensamento de seus sócios, junto aos poderes públicos e às entidades de classe, culturais ou técnicas. 2. Ata de Fundação - 17 Setembro 1934 "Em 17 de setembro de 1934, à Av. Angélica, 133, os Srs. Pierre Deffontaines, Luiz Flores de Moraes Rego, Rubens Borba de Moraes e Caio Prado Jr, resolveram os presentes fundar uma sociedade de estudos geográficos denominada Associação dos Geógrafos Brasileiros. Esta Associação terá por fim: 1º. Reuniões periódicas dos membros com exposição de um assunto de Geografia brasileira por um dos membros, seguida de discussão. 2º. Organização de excursões em comum para estudo de uma questão. 3º. Constituição de uma biblioteca especializada em Geografia, por colaboração dos membros e doações (livros, revistas e cartas). O Sr. Caio Prado Junior foi indicado para secretário, cabendo-lhe redigir as atas e ficando a seu cargo os demais serviços da secretaria. Para presidente foi indicado o Prof. Pierre Deffontaines. Para tesoureiro o sr. Rubens Borba de Moraes. A organização da biblioteca e do fichário com indicação de todos os livros, revistas e cartas existentes nas bibliotecas de São Paulo ficou a cargo dos srs Rubens Borba de Moraes e Caio Prado Junior. As reuniões serão realizadas na primeira e terceira segunda feira de cada mês, às 20 horas e meia na residência do Prof Deffontaines - Av Angélica, 133. A primeira reunião ordinária fica fixada para o dia 1º de Outubro. As reuniões se comporão de duas partes: 1º. Exposição e discussão. A exposição durará no máximo meia hora. 2º. Relatório de livros e artigos de Geografia. As comunicações poderão ser feitas em português ou francês. As contribuições dos membros serão recolhidas pelo tesoureiro. Cada membro terá completa liberdade para fixação da sua quota. Caberá ao tesoureiro indagar de cada um, individualmente, o montante de sua contribuição. Foram propostos e aceitos como objetivos a serem tratados, os seguintes assuntos: 1º. Esquema de um programa para o

estudo do sólo em S. Paulo, pelo sr Moraes Rego - 1º. de Outubro. 2º. Etapas do povoamento de S. Paulo no XVI e XVII secs. pelo sr. Rubens de Moraes - 6 de Novembro. 3º. As formas karsticas no vale do Ribeira do Iguape, pelo sr. Moraes Rego. Data a ser fixada. 4º. Ensaio dos tipos de povoamento no Estado de S. Paulo, pelo Prof Deffontaines. 15 de Novembro, digo Outubro. 5º. Ensaio de divisão regional de S. Paulo, pelo Prof Deffontaines. Data a ser fixada. 6º. Contribuição ao estudo da repartição da propriedade fundiária rural no Est. de S. Paulo, pelo sr. Caio Prado Junior. 19 de Novembro. Ficou deliberado que os novos membros da Associação seriam indicados de comum acordo, pelos membros efetivos. E para constar, eu, secretario, redigi esta ata que vai assinada pelos membros fundadores presentes. CAIO PRADO JR LUIZ FLORES DE MORAES REGO PIERRE DEFFONTAINES RUBENS BORBA DE MORAES

Estrutura e Organização: Da Estrutura Administrativa Art. 10 - A AGB será organizada nos níveis nacional e local. Art. 11 - A nível nacional será constituída pela Assembléia Geral Nacional, pelas Reuniões da Gestão Coletiva e administrada pela Comissão Diretora, composta pelos Diretores de Seções Locais ou por quem regularmente o substitui e pela Diretoria Executiva Nacional. Art. 12 - A nível local, denominada Seção Local, será constituída pela Assembléia Geral Local e administrada por uma Diretoria Executiva Local. Art. 13 - Os membros de qualquer cargo de direção da AGB, a nível nacional e local, não receberão qualquer remuneração.

Propósito da Organização: A AGB é uma entidade civil, sem fins lucrativos, que reúne geógrafos, professores e estudantes de Geografia preocupados com a promoção do conhecimento científico, filosófico, ético, político e técnico da Geografia para que se possa oferecer à crítica da sociedade uma abordagem geograficamente consistente dos seus/nossos problemas, com o intuito de aperfeiçoar do debate científico da Geografia e que se interessam pelo desenvolvimento de alternativas e iniciativas de promoção do bem-estar social. Nesse sentido, a AGB tem procurado reunir todos aqueles que entendem ser a Geografia uma das dimensões fundamentais da aventura do homem na superfície da Terra. Uma Diretoria Executiva Nacional e as várias Seções Locais (com eleições a cada dois anos), formam a estrutura e o corpo da AGB que, com operação com órgãos similares, irradiam suas atividades por todo o país. Destaca-se entre seus objetivos: Promover o desenvolvimento da Geografia, pesquisando e divulgando assuntos geográficos; Estimular o estudo e o ensino da Geografia, propondo medidas para seu aperfeiçoamento; Manter intercâmbio e colaboração com outras entidades brasileiras e internacionais dedicadas à pesquisa geográfica ou de interesse correlato; Analisar atos dos setores públicos ou privados que interessem e envolvam a ciência geográfica, os geógrafos e as instituições de ensino e pesquisa da Geografia, e manifestar-se a respeito; Congregar os geógrafos, professores e estudantes de Geografia e demais interessados, pela defesa e prestígio da classe e da profissão; Promover encontros, congressos, exposições, conferências, simpósios, cursos e debates, bem como o intercâmbio profissional; Representar o pensamento de seus sócios, junto aos poderes públicos e às entidades de classe, culturais ou técnicas.

MEMBERS: Seções Locais da AGB A AGB possui várias Seções Locais (com eleições a cada dois anos), que operam e irradiam suas atividades por todo o país, são elas:

Seção Local Aquidauana: aquidauana@agb.org.br
Seção Local Aracaju: aracaju@agb.org.br
Seção Local Baixo Amazonas: baamazonas@agb.org.br
Seção Local Bauru-SP: atendimento@agbbauru.org.br
Seção Local Belém - PA:
Seção Local Belo Horizonte: bh@agb.org.br
Seção Local Cáceres: caceres@agb.org.br
Seção Local Campinas: campinas@agb.org.br
Seção Local Campina Grande: capinagrande@agb.org.br
Seção Local Campo Grande: campogrande@agb.org.br
Seção Local Catalão: catalao@agb.org.br
Seção Local Cuiabá: agb-cuiaba@yahoogrupos.com.br

Seção Local Curitiba-PR: curitiba@agb.org.br
Seção Local Distrito Federal: distritofederal@agb.org.br
Seção Local Dourados: dourados@agb.org.br
Seção Local Fortaleza-CE: fortaleza@agb.org.br
Seção Local Florianópolis: agbflorianopolis@gmail.com
Seção Local Guarabira: guarabira@agb.org.br e alternativo agbguarabira@gmail.com
Seção Local Goiânia: goiania@agb.org.br
Seção Local Jataí-GO: agbjatai@yahoo.com.br
Seção Local João Pessoa: agbjoapessoa@yahoo.com.br
Seção Local Juiz de Fora-MG: agbjuizdefora@gmail.com
Seção Local Manaus: manaus@agb.org.br
Seção Local Marechal Cândido Rondon-PR: mcrondon@agb.org.br
Seção Local Niterói-RJ: niteroi@agb.org.br; agbniteroi@yahoo.com.br
Seção Local Porto Alegre-RS: portoalegre@agb.org.br
Seção Local Presidente Prudente-SP: prudente@agb.org.br
Seção Local Recife-PE: recife@agb.org.br ou agbrecife@gmail.com
Seção Local Rio Branco: riobranco@agb.org.br
Seção Local Rio de Janeiro-RJ: rio@agb.org.br
Seção Local São Paulo: saopaulo@agb.org.br
Seção Local Três Lagoas: treslagoas@agb.org.br
Seção Local Uberaba: uberaba@agb.org.br
Seção Local Viçosa-MG: vicosas@agb.org.br
Seção Local Vitória-ES: agb.vitoria@gmail.com

EVENTO ANUAL:

http://www.agb.org.br/index.php?option=com_content&view=article&id=52&Itemid=45 (2500 a 5000 participantes cada ano)

ASSOCIAÇÃO PROFISSIONAL DE GEÓGRAFOS DE SANTA CATARINA

TYPE OF INSTITUTION: Sociedade profissional/
 Associação científica, Sociedade civil sem fins econômicos

PRIMARY ACTIVITY: Comunicação / networking, Defesa dos interesses dos Geógrafos Profissionais do Estado de Santa Catarina

WEBSITE: www.aprogeosc.blogspot.com

DATE OF FOUNDATION: 28 de novembro de 2008

FOR INFORMACION CONTACT: Marcos Piovezan, Diretor-Presidente, Rua das Cerejeiras, 255 - Carvoeira Florianópolis - SC CEP 88040/510 www.aprogeosc.blogspot.com e-mail: contato@aprogeosc.com.br, Telefones: (48) 9947-3026 (48) 3879-2120, e-mail: contato@aprogeosc.com.br

STRUCTURE AND DESCRIPTION OF ORGANIZATION: DA ESTRUTURA DA ENTIDADE DAS ASSEMBLÉIAS GERAIS ART. 11º - As Assembléias Gerais Ordinárias e Extraordinárias são instâncias máximas da entidade e soberanas em suas resoluções. PARÁGRAFO - 1º - As sessões das Assembléias Gerais Ordinárias serão anunciadas com 30 (trinta) dias de antecedência, através de edital e reunir-se-ão com um mínimo de dois terços dos Associados em primeira convocação, ou com qualquer número, em segunda convocação, 30 minutos após a primeira, deliberando por maioria dos votos, pelo número de presentes. PARÁGRAFO - 2º - Para as deliberações que tratem da destituição dos administradores ou alteração do estatuto é exigido o voto concorde de dois terços dos presentes à assembléia especialmente convocada para esse fim, não podendo ela deliberar, em primeira convocação, sem a maioria absoluta dos associados, ou com menos de um terço nas convocações seguintes. PARÁGRAFO - 3º - As sessões das Assembléias Gerais

Extraordinárias serão anunciadas com 7 (sete) dias de antecedência, através de edital. Realizar-se-ão com um mínimo de dois terços dos Associados em primeira convocação, ou com qualquer número, em segunda convocação, 30 minutos após a primeira deliberando por maioria dos votos, pelo número de presentes. PARÁGRAFO - 4º - As Assembléias Gerais ocorrerão, no mínimo, a cada seis meses. PARÁGRAFO - 5º - As Assembléias Gerais serão convocadas pelo Presidente da Diretoria Executiva ou por maioria dos Associados em dia com suas obrigações, garantindo-se a um quinto dos associados em dia com suas obrigações o direito de provê-la. ART. 12º - Os trabalhos das Assembléias Gerais serão presididos pela Diretoria Executiva. ART. 13º - Compete à Assembléia Geral: a) Eleger e empossar os membros da Diretoria; b) Emendar ou reformar este estatuto nos termos do artigo 25; c) Deliberar sobre assuntos de sua competência previstos neste estatuto e outras matérias que lhe sejam encaminhadas pela Diretoria ou pelos associados; d) Apreciar relatórios, balanços, autorizar a alienação, vendas ou permutas de bens móveis e imóveis.

PURPOSE OF ORGANIZATION: ART. 1º - A ASSOCIAÇÃO PROFISSIONAL DOS GEÓGRAFOS DO ESTADO DE SANTA CATARINA – APROGEO-SC – é uma sociedade civil, sem fins econômicos, regendo-se pelo presente Estatuto e tendo por objetivos: a) Representar perante as autoridades administrativas, legislativas, judiciárias e demais instituições de caráter público ou privado os interesses individuais e coletivos dos associados, em relação à categoria profissional representada pela Associação; b) Promover a defesa e a divulgação da profissão de Geógrafo, bem como o desenvolvimento da Geografia Aplicada; c) Apoiar grupos autônomos na pesquisa científica e na investigação tecnológica no âmbito profissional; d) Promover o desenvolvimento das categorias pertinentes à Lei 6.664/79 no que se refere a: a) reconhecimentos, b) levantamentos, c) estudos, d) pesquisas, e) arbitramentos e f) na organização, planejamento e disseminação da informação geográfica nos campos específicos da Geografia, entendida no sentido amplo em que abrange o conjunto das operações geográficas relativas à topografia, geodésia, cartografia, geomática, fisiografia, biogeografia, recursos hídricos, antropogeografia, geoeconomia, Geografia Legal e divulgação/disseminação da informação que, direta ou indiretamente conduzem à caracterização do evento no espaço geográfico. e) Propugnar pela defesa e ampliação do mercado de trabalho do Geógrafo e pela sua remuneração justa e condigna, atuando junto às entidades públicas e privadas, firmando convênios ou utilizando quaisquer outras formas de ação que possibilitem estes objetivos; f) Colaborar com o Estado como órgão técnico e consultivo, no planejamento, no estudo e solução dos problemas geográficos; g) Zelar pelo cumprimento do Código de Ética Profissional; h) Promover, em princípio, anualmente, uma Reunião-Consulta sobre Geografia, procurando debater temas pertinentes aos interesses de Geógrafos de órgãos oficiais e particulares; i) Participar de congressos, reuniões, conferências e exposições de interesse dos associados; j) Manter intercâmbio informativo-cultural com entidades estaduais, nacionais e internacionais de atividades afins; l) Proporcionar facilidades para constituição e funcionamento de comissões de estudo, particularmente quando designadas nas reuniões de consulta.

PROGRAMS OFFERED: METAS 2011 - Atuar na defesa das atribuições dos Geógrafos, dentro do Sistema CONFEA; - Participação na elaboração da Matriz do Conhecimento Geográfico (Resolução 1.012) - Deliberar funções para cada membro da APROGEO/SC, bem como, estipular prazos e acompanhá-los passo-a-passo; - Maior presença na Câmara da Agrimensura, que cuida dos interesses do Geógrafo dentro do nosso Conselho Regional - CREA/SC; - Divulgar a APROGEO/SC, para os futuros Geógrafos nas instituições de ensino, em jornais, programas de TV, entre outras formas de publicações; - Palestrar nos centros de ensino, como forma de identificação da associação para os Geógrafos e futuros profissionais; - Cadastramento de pessoas interessadas em ajudar nos procedimentos burocráticos da APROGEO/SC; - Contactar diretorias

das demais Associações em prol dos Geógrafos, em todo território nacional; - Estabelecer parcerias com outras entidades, associações, instituições, empresas, etc;- Elaborar material de divulgação (cartazes, panfletos, folders); - Curso de Capacitação para o Geógrafo sobre atuação no mercado de trabalho.

MEMBERS: Sanata Catarina, unidade da Federação do Brasil.

UNIVERSIDADE DE BRASÍLIA

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 01 de fevereiro de 1972

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura Presencial, Licenciatura (à Distância)

URL PROGRAMA ON-LINE:

<http://www.serverweb.unb.br/matriculaweb/graduacao/curriculo.aspx?cod=3859> e http://vsites.unb.br/ih/novo_portal/portal_gea/lsie/revista/revista_index.htm

CONTATO PROGRAMA DE BACHARELADO:

Fernando Luiz Araújo Sobrinho, geografia@unb.br; flasobrinho@unb.br

CONTATO PROGRAMA DE POS GRADUACAO:

Roberto Arnaldo Trancoso Gomes, posgea@unb.br; robertogomes@unb.br

CENTROS DE PESQUISA:

SITE DA INTERNET:

http://vsites.unb.br/ih/novo_portal/portal_gea/index.html e <http://www.posgea.unb.br/site/index>

CONTATO PARA MAIS INFORMAÇÕES: Fernando Luiz Araújo Sobrinho, Chefe de Departamento, Brasília, Telefone: 0xx61.3107.7253, geografia@unb.br; flasobrinho@unb.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade de Brasília é ministrado há 46 anos. Desde a sua criação consolidou-se como grande formador de profissionais no mercado local e nacional. Atualmente, o curso conta com cerca de 500 alunos. Nos últimos anos, as disciplinas oferecidas pelo Departamento têm tido grande procura por parte de alunos de outros cursos, como por exemplo Geologia, Engenharia Florestal, Sociologia, Turismo, Ciências Sociais, Ciências Ambientais, dentre outros.

HABILITAÇÕES O Departamento de Geografia oferece habilitações na área de Licenciatura a Bacharelado. Para ambas habilitações, o total mínimo de créditos para a formatura é de 168. Para a conclusão do curso, o aluno deve permanecer na faculdade no mínimo 6 semestres, e no máximo 14. Ao exceder esse limite o aluno entra em processo de desligamento. O aluno pode optar por fazer as duas opções de habilitação, sendo que, uma determinada disciplina, por exemplo, não necessariamente inclui-se nas duas opções. Há também oferta de curso de licenciatura em Geografia pelo sistema Universidade Aberta do Brasil, na modalidade à distância com duração de 8 semestres.

OBJETIVOS DO CURSO O curso visa a formação de professores da educação em diversos níveis, bacharéis com atuação em diversas áreas da Geografia e pesquisadores. O aluno formado em Licenciatura pode exercer sua profissão sendo professor dos níveis fundamental, médio e superior, tanto em instituições públicas quanto privadas. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho como pesquisador e também atuar em diversas áreas técnicas como o geoprocessamento, planejamento urbano, gestão do uso do solo e território avaliação de impacto ambiental, dentre outras áreas de

trabalho, podendo trabalhar em diversos órgãos, prestando consultoria ou através de empresas privadas.

O ESTUDANTE DE GEOGRAFIA O estudante de Geografia necessariamente deve ter aptidão para pesquisa, seja ela de campo ou teórica e ter grande perceptividade. Saber entender o que acontece no espaço local, regional e mundial é de suma importância.

LABORATÓRIOS O Departamento de Geografia possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram o GEA, são os seguintes: 1) Laboratório de Cartografia 2) Laboratório de Geografia Física Aplicada 3) Laboratório de Geoiconografias e mídias aplicadas 4) Laboratório de Climatologia 5) Laboratório de Ensino de Geografia 6) Laboratório de Análises Territoriais 7) Centro de Cartografia Aplicada e Análises Espaciais 8) Laboratório de Análises Espaciais 9) Laboratório de Geografia da Saúde 9) Laboratório Georedes.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante cumpre 168 créditos entre disciplinas obrigatórias (116 créditos), optativas (28 créditos) e módulo livre (24 créditos). A partir do segundo semestre poderá fazer dupla habilitação cumprindo para isso os créditos obrigatórios e optativos de cada área de formação. No curso de Licenciatura em Geografia (modalidade à distância), a grade é fechada contemplando os requisitos básicos para a formação de professores definidos pelo Ministério da Educação. Ao final do curso obtém o título de bacharel em Geografia e caso tenha feito a opção para dupla habilitação o de licenciado em geografia. No caso do curso EAD recebe o título de licenciado em Geografia. Todos os cursos oferecidos pelo Departamento de Geografia da UnB são gratuitos, pois são oferecidos por instituição pública de ensino federal.

PROFESSORES:

CHEFE DO DEPARTAMENTO: Fernando Luiz Araújo Sobrinho Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional, Geografia Regional, Geografia Urbana, Geografia Agrária.

SUBCHEFE DO DEPARTAMENTO: Osmar Abílio Diniz, Doutor em Geologia Área de Pesquisa: Geoprocessamento, Geotecnologias, Geologia, Análises territoriais, Sensoriamento Remoto e Fotointerpretação.

COORDENADOR: Juscelino Eudâmidas Bezerra Doutor em Geografia Área de Pesquisa: Geografia Econômica, Geografia Agrária, Redes de produção global.

DOCENTE PERMANENTE

Dante Flávio Reis da Costa Júnior Doutor em Geografia Área de Pesquisa: Epistemologia da Geografia, História do Pensamento Geográfico, Metodologia e Métodos da Geografia, Geografia Histórica.

Ercília Torres Steinke Doutora em Geografia Área de Pesquisa: Climatologia, Geografia Física, Análises climatológicas regionais, Meteorologia.

Everaldo Batista Costa Doutor em Geografia Área de Pesquisa: Geografia Cultural, Urbana e do Turismo.

Fernando Luiz Araújo Sobrinho Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional, Geografia Regional, Geografia Urbana, Geografia Agrária.

Gloria Maria Vargas Doutora em Geografia Área de Pesquisa: Geografia Política e Econômica. Desenvolvimento Regional.

Hellen da Costa Gurgel Doutora em Geografia Área de Pesquisa: Geografia da Saúde, Cartografia, Geoprocessamento, Geoinformação, Cartografia aplicada ao planejamento, Políticas públicas e gestão do território.

Marli de Oliveira Sales Doutora em Pedagogia Área de Pesquisa: Metodologia do Ensino e Aprendizagem em Geografia. Elaboração e avaliação de material didático.

Juscelino Eudâmidas Bezerra Doutor em Geografia Área de Pesquisa: Geografia Econômica, Geografia Agrária, Redes de produção global.

Marília Steinberger Doutora em Economia Área de Pesquisa: Planejamento Urbano e Regional.

Mario Diniz de Araújo Neto Doutor em Geografia Área de Pesquisa: Gerenciamento de Recursos Hídricos e Zoneamento Ambiental.

Neio Lúcio Oliveira Campos Doutor em Geografia Área de Pesquisa: Planejamento Urbano.

Nelba Azevedo Penna Doutora em Geografia Área de Pesquisa: Planejamento Urbano, Geografia Humana, Educação.

Osmar Abílio de Carvalho Júnior Doutor em Sensoriamento Remoto e Fotointerpretação Área de Pesquisa: Sensoriamento Remoto e Fotointerpretação.

Rafael Rodrigues da Franca Doutor em Geografia Área de Pesquisa: Climatologia, Geografia Física, Análises climatológicas regionais, Meteorologia.

Rafael Sânzio Araújo dos Anjos Doutor em Cartografia Área de Pesquisa: Cartografia Temática, Sensoriamento Remoto para estudos urbanos, Sistemas de Informação Geográfica (SIG), monitoração e vetores de crescimento urbano, dinâmica espacial urbana no território do Distrito Federal.

Renato Fontes Guimarães Doutor em Sensoriamento Remoto e Fotointerpretação Área de Pesquisa: Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas.

Roberto Arnaldo Trancoso Gomes Doutor em Geografia Área de Pesquisa: Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas.

Rogério Elias Uagoda Doutor em Geografia Área de Pesquisa: Geomorfologia, Geologia, Geoprocessamento, Geografia Física.

Roselir de Oliveira Nascimento Doutora em Geografia Área de Pesquisa: Geomorfologia, Pedologia e Geografia Física.

Ruth Elias de Paula Laranja Doutora em Geografia Área de Pesquisa: Biogeografia, Desenvolvimento Regional e Planejamento Ambiental.

Shadia Hussein de Araújo Doutora em Geografia Área de Pesquisa: Geografia Econômica, Geografia Cultural, Geografia da Religião, Geografia da População, Geografia Política, Oriente Médio.

Valdir Adilson Steinke Doutor em Ecologia Área de Pesquisa: Geografia Física e Meio Ambiente.

Violeta de Faria Pereira Doutoranda em Geografia Área de Pesquisa: Geografia Agrária e Movimentos Sociais no campo.

Waleska Valença Manyari Doutora em Geografia Área de Pesquisa: Desenvolvimento Regional, Descentralização Industrial, Novas Territorializações.

UNIVERSIDADE DE CAXIAS DO SUL

CENTRO DE CIÊNCIAS HUMANAS E DA EDUCAÇÃO
FUNDADO: 10 de fevereiro de 1967

PROGRAMAS: Bacharelado, Licenciatura, Licenciatura (à Distância/Virtuais)

URL PROGRAMA ON-LINE:

<https://ucsvirtual.ucs.br/portais/curso191/>

<https://ucsvirtual.ucs.br/portais/curso139/>

CONTATO PROGRAMA DE BACHARELADO/POS GRADUACAO: Rozalia Brandão Torres,
rbtorres@ucs.br

BACHARELADOS OUTORGADO ANUALMENTE:

curso em implantação, ainda sem ter ocorrido uma turma egressa

POS GRADUACAO OUTORGADO ANUALMENTE: 17

SITE DA INTERNET: <http://www.ucs.br/portais/curso191/>

CONTATO PARA MAIS INFORMAÇÕES: Fernando Ben, Diretor do Centro, Bento Gonçalves, Rio Grande do Sul, Brasil, Telefone: 5193340189, Fax: 5434495200, zaiazinn@gmail.com e rbtorres@ucs.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: Compõem, entre outras, as seguintes disciplinas presentes nos cursos de licenciatura e bacharelado em Geografia da Universidade de Caxias do Sul:

INTRODUÇÃO AO ESTUDO DA GEOGRAFIA: Ementa - Estudo das concepções do objeto e da evolução da Geografia enquanto ciência e das diferentes escolas teórico-metodológicas de interpretação do espaço geográfico, com ênfase nos conceitos básicos. O ensino de Geografia na Educação Básica e a pesquisa em Geografia.

GEOGRAFIA FÍSICA: Ementa - Estudo das diferentes teorias que explicam a origem do Universo e do Sistema Solar. Caracterização da Terra e da Lua, incluindo dimensões, orientação e localização espacial, movimentos e suas relações e consequências na natureza e no cômputo do tempo.

FUNDAMENTOS DE ESTATÍSTICA: Ementa - Estudo dos fundamentos básicos da estatística, de métodos e técnicas de coleta, da organização e análise de dados. Caracterização de população e amostragem. Estudo de medidas de tendência central e de variabilidade. Noções de regressão, correlação e séries cronológicas.

POPULAÇÃO E TERRITÓRIO: Ementa - Estudo das relações entre população, território e ideologia. Identificação e análise dos indicadores da dinâmica e da estrutura da população, com base em levantamento de dados populacionais.

GEOLOGIA GERAL E PEDOLOGIA: Ementa - Estudo da formação da Terra, suas modificações ao longo do tempo e influência dos agentes geológicos endógenos e exógenos. Caracterização e identificação dos minerais, rochas e solos.

CLIMATOLOGIA I: Ementa - Estudo dos conceitos de tempo, de clima e dos fatores meteorológicos controladores da dinâmica da circulação atmosférica. Caracterização da estrutura e composição da atmosfera.

CARTOGRAFIA GERAL: Ementa - Estudo dos conceitos cartográficos básicos e gerais para a Geografia. A evolução da cartografia e das técnicas de representação e interpretação do espaço geográfico. Elementos cartográficos. Alfabetização, leitura e interpretação cartográficas.

GEOGRAFIA URBANA: Ementa - Estudo da paisagem urbana e do lugar. Identificação e análise da dinâmica interna da cidade. Estudo dos processos que diferenciam as cidades nos espaços regional, nacional e global. Caracterização da constituição da rede urbana. Avaliação das diferenças na urbanização de países ricos e pobres. Análise do meio urbano local.

GEOGRAFIA RURAL: Ementa - Estudo dos conceitos básicos da organização do espaço rural no Brasil e no mundo. Caracterização da organização do espaço rural, suas atividades econômicas e relações com o meio urbano. Comércio internacional de produtos primários.

CLIMATOLOGIA II: Ementa - Estudo da circulação atmosférica, da variabilidade espacial do clima e seus fatores determinantes.

Aplicação da climatologia na agricultura, no meio urbano e os problemas ambientais/climáticos decorrentes da poluição atmosférica.

GEOMORFOLOGIA: Ementa - Estudo dos conceitos básicos da geomorfologia nas escalas espacial e temporal. Análise e caracterização das unidades morfoestruturais e morfoescolares do globo e da influência da geodinâmica e do clima, respectivamente.

HIDROLOGIA: Ementa - Estudo dos conceitos básicos da hidrologia e dos ciclos da água na natureza. Caracterização das águas continentais e oceânicas. Análise das políticas públicas em relação aos recursos hídricos e do impacto da ação humana na natureza.

GESTÃO DE RECURSOS HÍDRICOS: Ementa - Gestão de Recursos Hídricos. Modelos de Gestão. Políticas e Sistemas de Recursos Hídricos Nacional e no Estadual: diretrizes e instrumentos.

GEOGRAFIA ECONÔMICA: Ementa - Estudo dos conceitos básicos do capitalismo. Caracterização e análise da Divisão Internacional do Trabalho. Avaliação do Brasil no contexto da DIT. Análise dos processos de industrialização, dos circuitos da economia e da organização do espaço geográfico.

GEOGRAFIA DO BRASIL I - Ementa - Estudo das características físico-naturais do território brasileiro, das diferentes paisagens e os seus fatores determinantes.

SENSORIAMENTO REMOTO E GEOPROCESSAMENTO: Ementa - Estudo dos conceitos básicos e das aplicações do Sensoriamento Remoto na análise do espaço geográfico. Análise dos sistemas sensores existentes e dos produtos gerados. Estudo teórico/prático de técnicas de processamento digital e de interpretação visual de imagens. Uso dos Sistemas de Informação Geográfica (SIG's) na análise espacial e suas aplicações no ensino de Geografia.

GEOGRAFIA DO BRASIL II: Ementa - Estudo da formação sócio-espacial do Brasil através da análise das transformações dos meios geográficos. Análise da organização produtiva e identificação das articulações das regiões e das diferenças regionais no território brasileiro.

CARTOGRAFIA DIGITAL: Ementa - As representações de dados geográficos. Os conceitos básicos da cartografia temática. A cartografia temática por computador: equipamentos e softwares. Técnicas de representação cartográfica de informações geográficas. Símbolos e convenções cartográficas. Os elementos cartográficos e a arte final das representações cartográficas.

BIOGEOGRAFIA: Ementa - Análise dos fatores bióticos e abióticos e a distribuição das espécies nos diversos biomas terrestres. Caracterização das Unidades de Conservação e sua biodiversidade.

ORGANIZAÇÃO DO ESPAÇO MUNDIAL I: Ementa - Estudo do conceito de região segundo diferentes concepções teórico-metodológicas. Conceituação de desenvolvimento desigual e combinado. Análise das transformações culturais e políticas do mundo contemporâneo através do conceito de organização do espaço mundial.

GEOGRAFIA DO RIO GRANDE DO SUL: Ementa - Análise da sucessão dos meios geográficos no espaço rio-grandense. Estudo do espaço físico e dos processos de ocupação e de estruturação do território gaúcho. A passagem do meio natural para o meio técnico-científico informacional. Análise da posição e da função da economia gaúcha no contexto nacional. Exame das diferenças regionais do Rio Grande do Sul e dos processos que as configuraram. A regionalização macro-econômica do Rio Grande do Sul.

GEOPOLÍTICA: Ementa - Estudo dos conceitos básicos em Geografia Política e caracterização da nova geopolítica mundial.

Análise das concepções clássicas e contemporâneas de Estado e de suas relações com a distribuição do espaço. Exame da geopolítica brasileira.

GEOGRAFIA DOS PROBLEMAS AMBIENTAIS: Ementa - Estudo sobre os problemas ambientais, planejamento e impactos da organização social sobre o ambiente. Análise do uso dos recursos naturais e suas relações com a qualidade ambiental.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Plano de Execução Curricular – Licenciatura em Geografia: 655 I Plano Curricular de Duração Média: 4 anos Reconhecido: Decreto n.º 69.347, de 11 de Outubro de 1971 (DOU de 13.10.71, p.8.235) Carga Horária Mínima CNE: 2.800 h/a (Res. CNE/CP n.º 2/2002) Carga Horária UCS: 2.670 h/a (164 créditos) + 200 h/a Ativ. Compl. 2870h/a - Res. CEPE No. 68/04 Curso de Bacharelado em Geografia: 671G (CARVI) Plano Curricular de Duração Média: 4 anos Reconhecido: Decreto n.º 69.347, de 11 de Outubro de 1971 (DOU de 13.10.71, p.8.235) Carga Horária Mínima CNE: 2.400 h/a (Res. CNE/CES n.º 8/2007) Carga Horária UCS: 2.490 h/a (166 créditos) + 100 h/a Ativ. Compl.= 2.590h/a - Res. CEPE No. 68/04

PROFESSORES: São professores das disciplinas específicas do curso: Ivanira Falcade, Doutora em Geografia - viticultura e indicações geográficas; Adriana Trinidad, Mestrado em Geografia - Análise Ambiental e Territorial; Rozalia Brandão Torres, Doutorado em Geografia - Análise Ambiental e Territorial – Representações sociais sobre os areais e mídia; Marcos Vieira Porto, Mestrado em Geologia e Geofísica Marinha - Redimensionamento do Traçado Insular do Limite Exterior da Plataforma Continental Brasileira

UNIVERSIDADE DE SÃO PAULO

DEPARTAMENTO DE GEOGRAFIA – FACULDADE DE FILOSOFIA, LETRAS E CIÊNCIAS HUMANAS - FFLCH

DATA DA FUNDAÇÃO: 1934

CURSOS OFERECIDOS: Bacharelado e Licenciatura em Geografia

CONTATO PROGRAMA DE BACHARELADO:

Emerson Galvani, egalvani@usp.br

CONTATO PROGRAMA DE LICENCIATURA: Eduardo Donizete Giroto, egiroto@usp.br

CONTATO PROGRAMA DE POS GRADUACAO: Ligia Vizeu Barozzo, ljia@usp.br

SITE DA INTERNET:

Graduação: www.geografia.ffeilch.usp.br

Pós-Graduação em Geografia Física:

<http://sites.usp.br/posgf/>

Pós-Graduação em Geografia Humana:

<http://ppgh.ffeilch.usp.br/>

CONTATO PARA MAIS INFORMAÇÕES: flg@usp.br

PROGRAMAS E INSTALAÇÕES DE PESQUISA: Os Laboratórios de Pesquisa em Geografia vêm desenvolvendo um trabalho complementar de apoio à Graduação - estágios supervisionados, grupos de estudo, palestras, pesquisas de iniciação científica dentre outras. O objetivo é consolidar uma rede de linhas de pesquisa que vai da graduação, com o desenvolvimento das disciplinas de Iniciação à Pesquisa, dos Estágios e Trabalhos de Graduação Individuais, à pesquisa no âmbito da pós-graduação, fazendo a ligação entre a graduação e a pós-graduação, por meio dos Laboratórios de Pesquisa.

Em termos de espaço físico o Departamento de Geografia conta com onze laboratórios descritos a seguir:

- Laboratório de Cartografia - LABCART
- Laboratório de Climatologia e Biogeografia - LCB
- Laboratório de Ensino e Material Didático - LEMADI
- Laboratório de Estudos Regionais em Geografia - LERCEO
- Laboratório de Geografia Agrária - Agrária
- Laboratório de Geografia Política - Geopo
- Laboratório de Geografia Política, Planejamento Ambiental e Territorial - LABOPLAN
- Laboratório de Geografia Urbana - LABUR
- Laboratório de Geomorfologia - LGEO
- Laboratório de Pedologia - LABOPED
- Laboratório de Sensoriamento Remoto e Aerofotogeografia - LASERE

PLANO DE ACADÊMICOS, REQUISITOS DE ADMISSÃO, E AJUDA FINANCEIRA:

Informações Básicas do Currículo

Para conclusão do bacharelado em Geografia, o aluno deverá cumprir 206 créditos, que perfazem disciplinas obrigatórias (138 créditos) e optativas (68 créditos), com a exigência de cursar 2/3 dos créditos em optativas eletivas no Departamento de Geografia, os demais créditos podem ser cumpridos em outros cursos da USP ou dentro do próprio Departamento de Geografia. Informações detalhadas sobre a grade horária do curso podem ser obtidos em: <https://uspdigital.usp.br/jupiterweb/listarGradeCurricular?codecg=8&codcur=8021&codhab=104&tipo=N>. Para a conclusão da licenciatura, além dos créditos referentes ao Bacharelado, o discente precisa cumprir 400 horas de estágio supervisionado distribuídos em 4 disciplinas, além de 400 horas de Atividades Práticas como Componente Curricular (PCC, distribuídas em diferentes disciplinas por todo o percurso formativo. Além disso, é necessário o cumprimento de 200 horas de Atividades Teórico-Práticas de Aprofundamento (ATPA), realizadas em diferentes espaços formativos dentro e fora da universidade, tais como visita à museus, cinema, exposições, participação em eventos, etc.

A duração mínima do curso de graduação é de 4 anos, no diurno (período integral nos primeiros semestres) e de 5 anos no noturno. O curso prevê a elaboração de um Trabalho de Graduação Individual - TGI (obrigatório), que consiste na elaboração de uma monografia no último ano. O processo de ingresso no Ensino superior da Universidade de São Paulo é coordenado pela fundação da Vestibular da USP – FUVest e nos últimos anos a instituição passou a utilizar os resultados do Processo Seleção Unificada – SISU, que tem como uma das bases os resultados obtidos na avaliação do Exame Nacional do Ensino Médio – ENEM. A USP é uma instituição pública sem cobrança de mensalidades para os cursos regulares.

O quadro de professores do Departamento de Geografia da USP pode ser obtido acessando: <http://www.geografia.ffeilch.usp.br/> em seguida clicar em “professores”.

UNIVERSIDADE DO ESTADO DO RIO DE JANEIRO

DEPARTAMENTO DE CIÊNCIAS HUMANAS E FILOSOFIA

FUNDADO: 4 de dezembro de 1950

PROGRAMAS: Licenciatura

URL PROGRAMA ON-LINE: <http://www.cap.uerj.br/site/>

CENTROS DE PESQUISA: laboratório de ensino de geografia

SITE DA INTERNET: <http://www.cap.uerj.br/site/>

CONTATO PARA MAIS INFORMAÇÕES: Cesar Alvarez Campos de Oliveira, CHEFE DE DEPARTAMENTO, RIO DE JANEIRO, BRASIL, Telefone: (21) 2333-7872 | (21) 2333-7873 | (21) 2333-7874 | (21) 2333-7875 | (21) 2333-7876, professorfabiotaadeu@gmail.com

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Laboratório de Ensino de Geografia, instalado no CAP/UERJ, abriga o Grupo de Pesquisa em Educação Geográfica, GPEG. As linhas de pesquisa desenvolvidas pelo GPEG (Grupo de Pesquisas em Educação Geográfica) tem como foco comum o desenvolvimento de estratégias metodológicas que possam colaborar com as práticas cotidianas de Educação Geográfica nos estabelecimentos de ensino, com efeitos multiplicadores na sociedade um todo.

Linhas de Pesquisa A Metodologia de Seminários como Estratégia de Autonomização Discente Coordenador: Prof^o. Dr^o. Augusto César Pinheiro da Silva Cartografia Escolar: currículo, metodologias e recursos didáticos Coordenadores: Prof^o. Dr^o. Cesar Alvarez Campos de Oliveira e Prof^o. Ms. Ronaldo Goulart Duarte A Produção Audiovisual no Ensino Básico: a Linguagem Imagética como Recurso para a Educação Geográfica Coordenadores: Prof^o. Dr^o. Rejane Cristina de Araujo Rodrigues e Prof^o. Ms. Fábio Tadeu Santana.

UNIVERSIDADE ESTADUAL DE LONDRINA

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 1961

PROGRAMAS: Associado / técnico, Bacharelado, Mestrado, Licenciatura

CONTATO PROGRAMA DE BACHARELADO: Edna ou Regina, dgeo@geo.uel.br

BACHARELADOS OUTORGADO ANUALMENTE: 40

CONTATO PROGRAMA DE POS GRADUACAO:

Anderson, spgce@uel.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Ciências Exatas – CCE

SITE DA INTERNET: <http://www.geo.uel.br/>

CONTATOS PARA MAIS INFORMAÇÕES: Prof. Dr CARLOS ALBERTO HIRATA Chefe do Departamento de Geociências; Prof. Dr PEDRO RODOLFO S. VENDRAME Coordenador do Mestrado e doutorado em Geografia. Rodovia Celso Garcia Cid, Pr 445 Km 380, Campus Universitário Cx. Postal 6001, CEP 86051-980, Londrina - PR Fone: (43) 3371-4000, Fax: (43)3371-4216, e-mail: dgeo@geo.uel.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Geografia, em Londrina, teve início em março de 1958 na então Faculdade de Filosofia Ciências e Letras, tendo sido incorporado à Universidade Estadual de Londrina em 1972. Atualmente o curso está locado no Departamento de Geociências do Centro de Ciências Exatas da UEL, ocupando dois prédios próprios, dotados de oito salas de aula, sendo que quatro delas funcionam também como laboratórios e uma é de uso exclusivo do curso de Mestrado, doze salas de permanência de professores e os seguintes Laboratórios: Informática e Sensoriamento Remoto; Informática e Geoprocessamento; Aerofoto; Topografia; Cartografia; Pesquisas Urbanas e Regionais; Geografia Física; Estudos Agrários; Pedologia; Mineralogia; Microscopia e preparação de amostras e o de Ensino de Geografia. Conta ainda com uma Biblioteca de Geologia, uma sala onde funciona o grupo PET Programa Especial de Treinamento, uma sala ocupada pela seção Local da AGB Associação dos Geógrafos Brasileiros. Conta com 5 funcionários para o atendimento a 3218 alunos. Oferece Disciplinas a

outros sete cursos da Universidade: História, Ciências Sociais, Química, Agronomia, Ciências Biológicas, Engenharia Civil e Arquitetura. Oferece os seguintes cursos de pós-graduação: Lato sensu - Especialização no Ensino de Geografia e Especialização em Análise Ambiental em Ciências da Terra; Stricto sensu – Mestrado e Doutorado em Geografia. Seu corpo docente é composto por professores de diferentes formações: Geógrafos, Geólogos, Agrônomos e Engenheiros Civis. A qualificação de seu corpo docente tem sido uma das metas do Departamento, fato corroborado pela instalação e funcionamento de cursos de Pós-graduação.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: Geografia Habilitação: Bacharelado e Licenciatura Turno: Matutino e Noturno Duração: 4 anos O curso O curso de Geografia da UEL deve propiciar as condições para que o estudante compreenda pressupostos filosóficos e epistemológicos, bem como desenvolver a capacidade de conexão entre as áreas do conhecimento e suas repercussões no entendimento das interações espaço sociedade, além de proporcionar uma formação profissional de qualidade e adequada às necessidades e demandas atuais. Onde pode atuar Escolas de ensino médio, institutos de pesquisa e de ensino superior. Saiba mais• A matriz curricular do curso é estruturada em disciplinas de tronco comum (licenciatura e bacharelado) nos dois primeiros anos; ao final do segundo ano o estudante opta por uma das habilitações. • Para o contínuo alcance dos objetivos citados o curso disponibiliza laboratórios e acervo bibliográfico, viagens de campo coordenadas por professores no decorrer dos anos letivos, para as mais variadas regiões do Brasil e do Paraná. • Os projetos de pesquisa, ensino e extensão desenvolvidos pelos professores envolvem a participação dos estudantes que aprimoram o uso de técnicas, metodologias e métodos específicos da ciência geográfica e da ciência em geral, ampliando sua formação. • O curso pretende levar o estudante à investigação geográfica; identificar e discutir as diferentes escalas da Geografia; selecionar a linguagem científica adequada para o tratamento e análise da informação geográfica com ênfase na elaboração de mapeamentos; atuar como professor em conformidade com a legislação vigente.

DOCENTES: Linha de Pesquisa e Orientação

Adriana Castreghini de Freitas Pereira — Topografia

Airton Nozawa — Aerofotogrametria

André Celligoi — Gestão de recursos hídricos subterrâneos

Angelo Spoladore — Geologia, Geomorfologia, Análise ambiental, Gestão de recursos hídricos subterrâneos

Carlos Alberto Hirata — Geografia Física, Meio ambiente e Planejamento Urbano

Claudio Roberto Braguto — Geografia industrial, Geografia regional, Geografia agrária

Cleuber Moraes Brito — Análise ambiental, Mineração e meio ambiente

Deise Fabiana Ely — Geografia física, Climatologia geográfica, Epistemologia da geografia

Edilson Luis de Oliveira — Geografia urbana, Epistemologia da geografia

Edison Archela — Geologia e geomorfologia, Ensino de geologia, Recursos hídricos subterrâneos

Eliane Tomiasi Paulino — Geografia agrária, Geografia e ensino, Análise regional, Epistemologia da geografia

Eloiza Cristiane Torres — Geomorfologia, Recursos naturais, Ensino de geografia, Dinâmica da paisagem

Fábio Cesar Alves Cunha — Planejamento urbano e regional, Geografia urbana, Análise e planejamento ambiental, Discurso e representações geográficas, Geografia e ensino

Fernanda Leite Ribeiro — Topografia

Geraldo Terceiro Correa — Biogeografia, Recursos naturais, Hidrogeografia, Geomorfologia, Análise ambiental

Ideni Terezinha Antonello — Geografia agrária, Geografia regional, Epistemologia da geografia, Ensino de geografia

Jeani Delgado Paschoal Moura — Geografia agrária, Geografia e ensino

José Paulo Peccinini Pinese — Geologia, Geomorfologia, Análise ambiental, Geografia e turismo
Luciano Nardini Gomes — Topografia, Georreferenciamento, Conservação de Solos
Márcia Siqueira de Carvalho — Geografia agrária, Geografia e ensino, Geografia da saúde, Epistemologia da geografia
Margarida de Cássia Campos — Ensino de geografia
Maria del Carmen M. H. Calvente — Geografia e ensino, Geografia e turismo
Mirian Vizintim F. Barros — Geoprocessamento, Sensoriamento remoto, Planejamento urbano e regional, Análise ambiental
Nilson Cesar Fraga — Planejamento Urbano e Regional, Análise Ambiental, Território, Rede e Poder, Meio Ambiente e Desenvolvimento
Oswaldo Coelho Pereira Neto — Geoprocessamento
Pedro Rodolfo S. Vendrame — Pedologia e Solos
Rigoberto Lazaro Prieto CAINZOS — Geoprocessamento, Uso/ocupação do Solo, Geoprocessamento aplicado à Análise Ambiental
Rosana Figueiredo Salvi — Epistemologia da Geografia
Rosely Maria de Lima — Geomorfologia, Hidrogeografia, Planejamento urbano e regional, Geografia e ensino, Análise ambiental
Ruth Youko Tsukamoto — Geografia agrária, Geografia e ensino
Tânia Maria Fresca — Geografia urbana, Geografia industrial, Planejamento urbano

UNIVERSIDADE ESTADUAL DO OESTE DO PARANÁ

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 02 de novembro de 1996

PROGRAMAS: Mestrado, Licenciatura

URL PROGRAMA ON-LINE:

<http://portalpos.unioeste.br/index.php/geografia-m-c-rondon>

CONTATO PROGRAMA DE BACHARELADO: Karin Linete Hornes rondon.col.geografia@unioeste.br

CONTATO PROGRAMA DE POS GRADUACAO: Ericson Hideki Hayakawa, rondon.pos.geografia@unioeste.br rondon@gmail.com

CENTROS DE PESQUISA: Centro de Ciências Humanas, Educação e Letras

SITE DA INTERNET:

<http://portalpos.unioeste.br/index.php/geografia-m-c-rondon>

CONTATO PARA MAIS INFORMAÇÕES: Edilson Hobold, Chefe de Departamento, Marechal Cândido Rondon, Telefone: 45 32847852, rondon.cchel@unioeste.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade Estadual do Oeste do Paraná, campus Marechal Cândido Rondon, é ministrado há 21 anos. Desde a sua implantação tomou-se o cuidado para que o curso buscasse desenvolver plenamente as atividades de ensino além de envolver-se com a pesquisa e a extensão. Atualmente, o curso conta com 102 alunos. **HABILITAÇÕES** O Curso de Geografia oferece habilitação na área de Bacharelado. O curso tem duração de 4 anos, podendo ser concluído em no máximo 7 anos. **OBJETIVOS DO CURSO** Tendo como pressuposto que a Geografia estuda a interação sociedade-natureza e espaço-sociedade, a formação profissional nesta área tem como objetivo capacitar para a compreensão dos elementos e processos constituintes do espaço, de forma totalizante e dinâmica.

Quanto à licenciatura capacitar para a formação de professores de Geografia do Ensino Fundamental e Médio priorizando a discussão teórico-metodológica e sua aplicabilidade para a compreensão e construção de conhecimentos e habilidades voltadas à sua formação como professor. O ESTUDANTE DE GEOGRAFIA De acordo com as Diretrizes Curriculares Nacionais para os cursos de Geografia o profissional desta área deve ter como perfil geral: “Compreender os elementos e processos concernentes ao meio natural e ao construído, com base nos fundamentos filosóficos, teóricos e metodológicos da Geografia”. Neste sentido o licenciado deverá possuir as seguintes habilidades e competências:

- Domínio teórico-metodológico do conhecimento na área, que estimule sua capacidade de encontrar respostas às problemáticas com as quais se defronta no seu contexto de atuação e competência para promover a construção neste;
- Capacidade no enfrentamento dos problemas que emergem no grupo com o qual trabalha, contribuir na emergência das potencialidades e projetos deste grupo e na sua transformação em ação de desenvolvimento com base em ações e reflexões conjuntas.

Assim sendo, é fundamental desenvolver, no acadêmico, a capacidade de buscar informações, a curiosidade e o gosto pelo aperfeiçoamento pessoal e profissional. Os atributos do profissional em Geografia devem proporcionar-lhe uma postura crítica e de abertura para o novo em sua profissão, no sentido de que embora exista um campo de atuação previamente definido com base na área do saber, isto não significa limite intransponível, mas diante da dinâmica da vida social e das descobertas e avanços proporcionados pela pesquisa científica, a área de atuação pode ser ampliada e a eficácia do profissional torna-se maior, valorizando-se a criatividade humana. **LABORATÓRIOS** O Curso de Geografia possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram o Curso, são os seguintes: 1) LEG-Laboratório de Ensino em Geografia 2) Laboratório GEOLUTAS 3) Laboratório de Cartografia e Geoprocessamento 4) LEDA-Laboratório de Estudos da Dinâmica Ambiental 5) GEA-Grupo Multidisciplinar de Estudos Ambientais 6) GEFTA-Grupo de Estudos sobre Fronteira, Território e Ambiente

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: o aluno ingressante cumpre 00 disciplinas obrigatórias, e tem 0 disciplinas optativas. Ao final do curso obtém o título de licenciado em Geografia. O curso é gratuito, pois é oferecido por instituição pública de ensino estadual.

PROFESSORES:

CHEFE DO DEPARTAMENTO: Karin Linete Hornes

SUBCHEFE DO DEPARTAMENTO: José Edézio da Cunha. Doutor em Geografia. Área de pesquisa: Geografia Física. Tem experiência na área de Geografia, com ênfase na relação solo - relevo para a compreensão da paisagem. Atua principalmente nos seguintes temas: estrutura e funcionamento da paisagem, erosão hídrica, análise ambiental.

COORDENADOR: Karin Linete Hornes. Doutora em Geografia

DOCENTE PERMANENTE:

Djoni Roos, Doutor em Geografia — Tem experiência na área de Geografia com ênfase em Geografia Agrária e Geografia Econômica. Possui pesquisas nos seguintes temas: Camponato, Renda Capitalista da Terra, Conflitos no Campo, Movimentos Sociais, Luta pela Terra e Assentamentos rurais. É coordenador do laboratório de Geografia das Lutas no Campo e na Cidade (GEOLUTAS).

Edson dos Santos Dias, Doutor em Geografia — área de pesquisa: Geografia Humana, com ênfase em Geografia Regional e Meio Ambiente, atuando principalmente nos seguintes temas: novas configurações territoriais decorrentes da implantação de usinas hidrelétricas; grandes projetos de investimento e suas consequências socioambientais; PCH - pequenas centrais hidrelétricas; Energia e Sociedade.

Ericson Hideki Hayakawa, Doutor em Geografia — Desenvolve projetos na área de geotecnologias (sensoriamento remoto e geoprocessamento) e suas aplicações em geografia e geociências

Fábio de Oliveira Neves, Doutor em Geografia — Tem experiência na área de Geografia Humana, atuando principalmente nos temas de: geografia urbana e gestão de resíduos sólidos.

João Edmilson Fabrini, Doutor em Geografia — Possui artigos científicos e livros publicados sobre movimentos sociais, lutas camponesas, assentamentos de sem-terra, reforma agrária, cooperativas agrícolas.

Karin Linete Hornes, Doutora em Geografia.

Leila Limberger, Doutora em Geografia — Área de pesquisa: Geografia Física. Tem experiência na área de Geociências, atuando principalmente nos seguintes temas: teleconexões, TSM, variabilidade climática, bacia amazônica.

Lia Dorotéia Pfluck, Doutora em Geografia.

Márcia Regina Calegari, Doutora em Geografia — Área de Concentração: Produção do Espaço e Meio Ambiente - Linha: Dinâmica, Utilização e Preservação do Meio Ambiente e no programa de Mestrado em Geografia da Universidade Estadual do Oeste do Paraná - Campus de Marechal Cândido Rondon - Área de Concentração: Espaço de fronteira: território e ambiente - Linha: Dinâmica e gestão ambiental em zona subtropical. Tem experiência em análise de assembleia de fitólitos aplicada em estudos ambientais (reconstituição paleoambiental), também atua na área de Geociências, com ênfase em Pedologia, principalmente nos seguintes temas: gênese de solo, o solo como registro de mudanças ambientais, relação solo-paisagem (análise estrutural da cobertura pedológica) e morfopedologia.

Maristela Ferrari, Doutora em Geografia — Tem experiência na área de pesquisa e Ensino em Geografia. Seus temas de maior interesse estão relacionados a Geografia Humana, com ênfase em Geografia Política e Regional, atuando principalmente nos seguintes temas: Geografia Política e da Fronteira.

Marli Terezinha Szumilo Schlosser, Doutora em Geografia — Tem experiência na área de História e Geografia, atuando principalmente nos temas: discurso, esquete, colonização, rádio, modernização, agroecologia e Educação do campo.

Mateus Marchesan Pires, Doutor em Geografia — Têm experiência na área de Geografia, com ênfase em Ensino de Geografia, Linguagens no Ensino de Geografia, Representações e Imagem.

Oscar Vicente Quinonez Fernandez, Doutor em Geografia.

Tarcísio Vanderlinde, Doutor em História — Tem experiência nas áreas de Geografia e História, com ênfase em agroecologia, migrações, identidades e religiosidades.

Terezinha Corrêa Lindino, Doutora em Educação — Tem experiência na área de Educação, com ênfase em Orientação Educacional, atuando principalmente nos seguintes temas: Educação e Trabalho, Políticas Educacionais, Formação de Professores, Educação Ambiental, Qualificação Docente e Ensino em Ciências.

Vanda Moreira Martins, Doutora em Geografia — Área Do Conhecimento Em Que Atua: Geografia Física-Pedologia-Geomorfologia.

UNIVERSIDADE ESTADUAL PAULISTA "JÚLIO DE MESQUITA FILHO"

**DEPARTAMENTO DE GEOGRAFIA E
DEPARTAMENTO DE PLANEJAMENTO
TERRITORIAL E GEOPROCESSAMENTO
FUNDADO: 1958**

PROGRAMAS: Bacharelado, Mestrado, Doutorado,
Licenciatura

URL PROGRAMA ON-LINE:

<http://www.rc.unesp.br/igce/grad/geografia/informacoes.php>

CONTATO PROGRAMA DE BACHARELADO: Prof. Dr.

Auro Aparecido Mendes, auroam@rc.unesp.br

BACHARELADOS OUTORGADO ANUALMENTE: 30

CONTATO PROGRAMA DE POS GRADUACAO: Prof.

Dr. Antônio Carlos Tavares, atavares@rc.unesp.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: LABORATÓRIO DE APOIO

AO ESTUDO DA GEOGRAFIA - LAEGE;

LABORATÓRIO DE CLIMATOLOGIA;

LABORATÓRIO DE ESTUDOS TERRITORIAIS

(LAET); Planejamento Municipal (LPM); Observatório

Territorial; Laboratório de Análises de Formações

Superficiais - LAFS; Laboratório de Geomorfologia

SITE DA INTERNET:

<http://www.rc.unesp.br/igce/grad/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. Auro Aparecido Mendes, Coordenador do Curso de Geografia, Rio Claro, São Paulo, Brasil, Telefone: +55 (19) 3526-9204, auroam@rc.unesp.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Geografia do IGCE – UNESP/Campus de Rio Claro foi implantado em 1958 e é considerado um dos mais tradicionais e conceituados do Brasil. Compreende duas modalidades: Licenciatura (Períodos Integral e Noturno) e Bacharelado (Período Integral). O curso é gratuito e dispõe de 40 vagas em cada período; os prazos para integralização curricular são de 4 anos (tanto para o Período Integral, quanto para o Noturno). A modalidade Bacharelado apresenta três possibilidades de formação: a) Bacharelado com Ênfase em Análise Ambiental e Geoprocessamento; b) Bacharelado com Ênfase em Análise Sócio-Espacial e Planejamento Territorial; c) Bacharelado Regular (sem ênfase). O programa do curso consiste em um núcleo comum, abrangendo os quatro primeiros semestres, que contém as disciplinas de conteúdo geográfico básico, e de atividades específicas, nos semestres seguintes, conforme a modalidade escolhida. São considerados os conceitos sobre a produção do espaço na perspectiva de um desenvolvimento que respeite os limites sustentáveis do uso dos recursos naturais. O objetivo do curso é o de possibilitar uma formação abrangente nas ciências geográficas, a fim de que os futuros profissionais possam desempenhar de maneira eficiente suas funções, quer como licenciado, na regência de aulas no ensino fundamental e médio, quer como bacharel, no desempenho de suas atribuições técnicas e de pesquisa em empresas e instituições públicas e privadas. A Geografia é um dos caminhos para que possamos compreender o mundo em que vivemos. Os temas enfocados por essa ciência são bastante diversos, capazes de oferecer instrumentos essenciais para a compreensão da realidade social e para a intervenção no ordenamento do meio, na perspectiva do equilíbrio homem/natureza.

PROFESSORES:

- Prof. Dra. Andréia Medinilha Pancher* — Cartografia, Cartografia Temática, Geoprocessamento
- Prof. Dr. Adler Guilherme Viadana* — Biogeografia de Sistemas Aquáticos; Evolução da Paisagem Geográfica
- Prof. Dra. Ana Tereza Caceres Cortez* — Biogeografia, Ecologia, Recursos Naturais
- Prof. Dr. Anderson L. H. Christofletti* — Análise do Desenvolvimento Sustentável em Bacias Hidrográficas; Climatologia Urbana; Geometria Fractal Aplicada em Climatologia; Impactos Ambientais Causados pelas Anomalias Climáticas; Variabilidade Climática
- Prof. Dr. Antonio Carlos Tavares* — Climatologia
- Prof. Dr. Auro Aparecido Mendes* — Geografia econômica, Geografia industrial
- Prof. Dra. Bernadete Castro Oliveira* — Antropologia Social Patrimônio Cultural e Meio Ambiente, Ensino de Antropologia
- Prof. Dra. Cenira Maria Lupinacci da Cunha* — Geomorfologia Cartografia, Geomorfológica Análise Ambiental
- Prof. Dra. Darlene Aparecida de Oliveira Ferreira* — Geografia Rural, Uso do Solo Urbano, Agricultura Familiar, Relação Cidade-Campo
- Prof. Dr. Elson Luciano Silva Pires* — Economia Política do Trabalho Economia Urbana e Regional
- Prof. Dr. Enéas Rente Ferreira* — Geografia dos transportes
- Prof. Dr. Fabiano Tomazini da Conceição* — Geomorfologia Geoquímica Manejo de Bacias Hidrográficas
- Prof. Dr. Fadel David Antonio Filho* — Geografia regional, ensino de geografia
- Prof. Dra. Iara Nocentini André* — Climatologia
- Prof. Dr. João Afonso Zavattini* — Climatologia Geográfica
- Prof. Dr. José Gilberto de Souza* — Geografia Agrária; Mercados e Tributação da Terra Rural; Políticas Públicas; Teoria e Método de Pesquisa em Geografia
- Prof. Dra. Magda Adelaide Lombardo* — Cartografia Análise da Informação Geográfica
- Prof. Dr. Manuel B. Rolando Berríos Godoy* — Meio Ambiente Recursos Naturais, Resíduos Sólidos Urbanos, Industriais e Especiais Cargas Perigosas
- Prof. Dra. Maria Isabel Castreghini de Freitas* — Cartografia Sensoriamento remoto aplicado à análise ambiental Sistema de Informação Geográfica (SIG)
- Prof. Dra. Maria Juraci Zani Dos Santos* — Geografia Física, Climatologia, Agroclimatologia, Bioclimatologia
- Prof. Dra. Nádia Regina do Nascimento* — Pedologia, Pedogênese Geomorfologia: relações morfogênese e pedogênese, Análise Ambiental: poluição dos solos, degradação desolos
- Prof. Dr. Paulo Roberto Teixeira Godoy* — Geografia Regional do Estado de São Paulo: Economia e Recursos Naturais
- Prof. Dr. Roberto Braga* — Planejamento urbano e regional, Planejamento ambiental, Políticas públicas e desenvolvimento local, Geografia urbana e regional
- Prof. Dr. Samuel Frederico*
- Prof. Dra. Sandra Elisa Contri Pitton* — Climatologia Aplicada e Qualidade Ambiental e de Vida
- Prof. Dr. Sérgio dos Anjos* — Cartografia Geoprocessamento
- Prof. Dra. Silvana Maria Pintaudi* — Geografia do Comércio, Serviços e do Consumo, Geografia Urbana
- Prof. Dra. Silvia Ap. Guarniéri Ortigoza* — Geografia Humana do Brasil; Geografia Regional e Geografia Urbana
- Prof. Dra. Solange T. De Lima Guimarães* — Paisagem, percepção da paisagem, estudos ambientais, educação ambiental

UNIVERSIDADE FEDERAL DA GRANDE DOURADOS

FACULDADE DE CIÊNCIAS HUMANAS

FUNDADO: 2006

PROGRAMAS: Bacharelado, Licenciatura

CONTATO PROGRAMA DE BACHARELADO: Sedeval Nardoque, geografia@ufgd.edu.br

BACHARELADOS OUTORGADO ANUALMENTE: 10

CONTATO PROGRAMA DE POS GRADUACAO: Jones Dari, mestradogeografia@ufgd.edu.br

POS GRADUACAO OUTORGADO ANUALMENTE: 10

CENTROS DE PESQUISA: LAPET / LAPLAN / LABGEO / LEUA / LGF / LEG

SITE DA INTERNET: <http://www.ufgd.edu.br/fch/geografia>

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. Sedeval Nardoque, Coordenador do Curso de Geografia, Dourados, MS, Brasil, Telefone: 55 67 3410-2268, geografia@ufgd.edu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: Curso: Geografia Modalidades do Curso: Bacharelado e Licenciatura Título acadêmico conferido: Bacharel e/ou Licenciado em Geografia Modalidade de ensino: Presencial Regime de matrícula: Seriado semestral a partir de 2009 Período de integralização: Mínimo 8 (oito) semestres para Licenciatura ou Bacharelado e 10 (dez) Semestres para Licenciatura e Bacharelado. Máximo 15 (quinze) semestres Carga Horária: - Bacharelado 3.312 horas - Licenciatura 3.630 horas Número de vagas: 70 (setenta) por turma Turno de funcionamento: Noturno e Sábados (manhã e tarde) Secretaria da Coordenação Coordenador: Prof. Dr. Sedeval Nardoque Secretário: Gilson Carlos Visú Horário de Atendimento ao Público: de segunda-feira a sexta-feira, das 13h15min às 17 h e 18 h às 22h. Endereço: Unidade II do Campus de Dourados, Rodovia Dourados – Itahum – Km 12 – Cidade Universitária Fone: (67) 3410-2268 Histórico do Curso: Legalmente, o Curso de Geografia do Campus de Dourados (UFMS) obteve autorização de funcionamento através da Portaria RTR/UFMS nº 102, de 9 de setembro de 1982 e reconhecimento pela Portaria MEC nº 553, de 11 de novembro de 1987, publicada no Diário Oficial da União de 12 de novembro de 1987. Foi criado em 1983 com funcionamento no período matutino, oferecendo 32 vagas para formação em Licenciatura Plena. A partir de 1991 o período de funcionamento foi transferido para o noturno com a ampliação para 45 vagas. A demanda matutina mostrou-se insuficiente por tratar-se de um curso de licenciatura cuja clientela potencial são alunos que exercem atividades profissionais durante o dia. Em 1999, o curso teve seu número de vagas novamente ampliado para 50. Durante todo período de funcionamento, o curso tem primado, por melhorias na qualidade do ensino, extensão e pesquisa, com destaque para esta última. É possível elencar ganhos qualitativos para o curso de Geografia da UFGD no que diz respeito à qualificação do corpo docente e à inserção do curso na comunidade através de atividades de pesquisa e de extensão. Com a criação da UFGD em 2005 e sua implantação em 2006, o curso de Geografia teve seu quadro docente ampliado de dez para dezesseis professores sendo: 14 doutores, 1 mestre e 1 especialista. Tal ampliação representou não só maior número de docentes diretamente envolvidos com o curso como também a diversificação de áreas de pesquisa, com destaque para formação de um núcleo voltado às temáticas ambientais e da Geografia Física. No ano de 2007, foi implantado Programa de Pós-Graduação em Geografia –nível Mestrado. É de reconhecido saber que o funcionamento do Mestrado em muito 4 alavanca a qualidade da formação da graduação e isso deve ser computado como um dos pontos fortes do Curso de Geografia da UFGD.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: OBJETIVOS: Licenciatura Geral: Formar

profissionais para o exercício do magistério no ensino fundamental, médio e superior. Específicos: Formar profissionais com domínio dos conhecimentos da ciência geográfica que assegurem uma base sólida para a construção de uma prática pedagógica autônoma e sintonizada com as atuais necessidades do ensino desta disciplina; Habilitar o profissional a realizar a transposição didática dos conhecimentos geográficos de acordo com o estágio de desenvolvimento cognitivo dos alunos; Habilitar o profissional para o planejamento e execução das atividades didáticas, visando o desenvolvimento do processo de alfabetização geográfica dos alunos no ensino fundamental e médio. Bacharelado Objetivo Geral: Formar profissionais com domínio das habilidades e competências necessárias ao exercício da profissão de Geógrafo, segundo as especificações da Lei no 6664/79 e alterações decorrentes. Objetivos Específicos: Formar profissionais habilitados a:- realizar reconhecimentos, levantamentos, estudos e pesquisas de caráter físico-geográfico, biogeográfico, antropogeográfico e geoeconômico e as realizadas nos campos gerais e especiais da Geografia que se fizerem necessárias;- delimitar e caracterizar regiões e sub-regiões geográfico-naturais e zonas geoeconômicas para fins de planejamento e organização do espaço;- equacionar em escala nacional, regional ou local problemas relacionados ao potencial geocológico do País, objetivando a elaboração de medidas que visem o desenvolvimento e a diminuição dos impactos socioambientais negativos;- analisar e elaborar medidas de gestão do território, respeitando a capacidade de resiliência do ambiente e as características sociais existentes;- elaborar zoneamento socioambiental, de áreas urbanas e rurais, com vistas ao planejamento, incluindo, as escalas nacional, regional e local;- realizar estudos de diagnóstico e análise dos aspectos ecológicos e etológicos da paisagem geográfica e problemas conexos;- trabalhar na elaboração de políticas de povoamento, migração interna, migração e colonização de regiões novas ou de revalorização de regiões de velho povoamento;- trabalhar no estudo físico-cultural dos setores geoeconômicos destinados ao planejamento da produção;- atuar na estruturação ou reestruturação dos sistemas de circulação e de divisão administrativa da União, dos Estados, dos Territórios e dos Municípios quando necessário;- participar de levantamentos e mapeamentos destinados à solução de problemas socioambientais nas escalas nacional, regional e local.

CORPO DOCENTE:

Adauto de Oliveira Souza, Doutor em Geografia
Adelson Soares Filho, Mestre em Geografia
André Geraldo Berezuk, Doutor em Geografia
Cleonice Gardin, Doutora
Charlei Aparecido da Silva, Doutor em Geografia
Edvaldo César Moretti, Pós-Doutor em Geografia
Flaviana Gasparotti Nunes, Doutora em Geografia
Jones Dari Goettert, Doutor em Geografia
Lisandra Pereira Lamoso, Doutora em Geografia
Márcia Yukari Mizusaki, Doutora em Geografia
Maria José Martinelli Silva Calixto, Doutora em Geografia
Mário Cezar Tompes da Silva, Doutor em Geografia
Mário Geraldini, Especialista em Geografia
Pedro Alcântara de Lima, Doutor em Geografia
Sedeval Nardoque, Doutor em Geografia
Silvana de Abreu, Doutora em Geografia

UNIVERSIDADE FEDERAL DE MATO GROSSO DO SUL

CURSO DE GEOGRAFIA

FUNDADO: 1962

PROGRAMAS: Bacharelado

URL PROGRAMA ON-LINE:

<http://geoufmscg.blogspot.com>

CONTATO PROGRAMA DE BACHARELADO: Ana Paula Correia de Araújo, geo.ccet@ufms.br

CONTATO PROGRAMA DE POS GRADUACAO:

Programa de pós-graduação ainda em elaboração
CENTROS DE PESQUISA: Centro de Ciências Exatas e Tecnologias

SITE DA INTERNET: <http://geoufmscg.blogspot.com>

CONTATO PARA MAIS INFORMAÇÕES: Ana Paula Correia de Araújo, Coordenador, Campo Grande, Mato Grosso do Sul, Brasil, Telefone: (67) 3345-7450, geo.ccet@ufms.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O curso de Geografia UFMS/CCET é um curso novo que privilegia a formação científica, técnica e aplicada necessária à atuação do geógrafo, em atendimento à Lei 6.664, de 26/06/1979, que cria a profissão e define suas atribuições profissionais. As instalações estão ainda em fase de construção. Em breve, o curso oferecerá aos seus estudantes e profissionais laboratórios e gabinetes de estudos e pesquisa, além de desfrutar das bases de pesquisa da UFMS, situadas no Pantanal Sul-Mato-Grossense. A proposta é de um curso aberto e atuante, com base em parcerias com órgãos públicos e ONG's, e voltado para a inserção de seus estudantes no mercado de trabalho.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: A Geografia consolida teoricamente sua posição como prática social, pedagógica e científica que busca conhecer, explicar e ensinar a organização do espaço, tanto em relação aos aspectos físicos como humanos. A dinâmica e a complexidade das análises geográficas, bem como suas relações com outras áreas do conhecimento, podem ser percebidas na estrutura curricular proposta para o curso, na modalidade Bacharelado. As particularidades e as generalidades são analisadas nas diferentes escalas geográficas e históricas. O curso de Bacharelado visa formar geógrafos com capacidade de responder as necessidades atuais do país revendo as formas tradicionais de utilização de recursos, analisando as transformações recentes no país e no mundo, participando da reorganização dos espaços mal aproveitados e na organização dos espaços a serem conquistados. Profissional capacitado, por uma linguagem científica moderna, a um trabalho interdisciplinar, (fundamental para o encontro de soluções que atenuem os desequilíbrios setoriais e regionais), bem como em firmas particulares de planejamento, indica a crescente demanda de "profissionais do espaço terrestre" que a Universidade deve preparar. Os conteúdos básicos e complementares da Geografia organizam-se em torno de: Núcleo específico – conteúdos referentes ao conhecimento geográfico; Núcleo complementar – conteúdos considerados necessários à aquisição de conhecimento geográfico e que podem ser oriundos de outras áreas de conhecimento, mas não excluem os de natureza específica da Geografia; Núcleo de opções livres – disciplinas optativas, cujos conteúdos serão escolhidos pelo próprio aluno, com orientação de um professor. O Aluno deverá cumprir seis disciplinas optativas de 68h/a, ao longo do curso, oferecidas na modalidade presencial e/ou distância, totalizando 408 h/a de carga horária. O Curso de Graduação de Bacharelado em Geografia será ministrado em quatro anos (8 semestres). A estrutura curricular envolve disciplinas obrigatórias e optativas visando estreitar as relações no plano didático-pedagógico e qualificar o currículo do profissional formado na Instituição. Em paralelo, o currículo contém o Trabalho de Conclusão de Curso – TCC, obrigatório, desenvolvido durante o último ano do Curso, sob supervisão de um professor orientador previamente estabelecido. O Trabalho de Conclusão de Curso envolve: desenvolvimento de projeto de pesquisa ou; produto (vídeo, cartilha, jogos, software, etc.) ou; projeto de intervenção. Os eixos de conteúdos básicos e específicos e livres se articulam através de atividades complementares, Estágios, trabalhos de campo e aulas práticas. O Estágio Obrigatório será presencial, em empresas públicas e privadas do estado de Mato Grosso do Sul, e supervisionado. Atividades de campo serão previamente agendadas com os alunos e

professores para sua realização a partir das necessidades de cada disciplina e do curso.

PROFESSORES:

Ana Paula Correia de Araújo — Geógrafa, doutora em Geografia - Geografia Rural - Universidade Federal do Rio de Janeiro
Icléia Albuquerque de Vargas — Geógrafa, doutora em Meio Ambiente e Desenvolvimento - Universidade Federal do Paraná
Antônio Conceição Paranhos Filho — Geólogo, doutor em Geologia Ambiental - Universidade Federal do Paraná
Emília Mariko Kashimoto — Geógrafa e Arqueóloga, livre-docente em Arqueologia - Universidade de São Paulo
Sérgio Ricardo Oliveira Martins — Geógrafo, doutor em Geografia Humana - População e Desenvolvimento - Universidade de São Paulo
Júlio César Gonçalves — Geógrafo, doutor em Geografia Física - Climatologia - Universidade de São Paulo
Mara Aline Santos Ribeiro — Geógrafa, doutoranda em Geografia - Universidade de Campinas
Sérgio Wilton Gomes Isquierdo — Geógrafo, doutor em Geografia Física - Universidade de São Paulo

UNIVERSIDADE FEDERAL DE MINAS GERAIS

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 1929

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura, Bacharelado (à Distância/Virtuais)

URL PROGRAMA ON-LINE:

<http://www.igc.ufmg.br/departamentos/geografia.htm>

<http://www.igc.ufmg.br/cursos/geografia.htm>

<http://www.ufmg.br/pos/geografia/>

CONTATO PROGRAMA DE BACHARELADO: Ana

Maria Simões, geoggrad@igc.ufmg.br

BACHARELADOS OUTORGADO ANUALMENTE: 20

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CONTATO PROGRAMA DE POS GRADUACAO:

Antônio Pereira Magalhães Junior, posgeog@igc.ufmg.br

CENTROS DE PESQUISA: Centro de Pesquisa Manoel Teixeira da Costa

SITE DA INTERNET: www.igc.ufmg.br

CONTATO PARA MAIS INFORMAÇÕES: Antônio Pereira Magalhães Junior, Coordenador do Programa de Pós-Graduação em Geografia, Belo Horizonte, Brasil, Telefone: (31) 3409 5404; 3409 5421, Fax: (31) 3409 5410, 270 geografia@igc.ufmg.br; pos-geog@igc.ufmg.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

A 270eografia270 do Departamento de Geografia na UFMG antecede a própria criação do Instituto de Geociências, pois o Departamento fazia parte da antiga Faculdade de Filosofia desta Universidade, atendendo então, prioritariamente, ao curso de graduação em Geografia e História, posteriormente desmembrados. Atualmente o Departamento atende a quatro cursos de graduação no Instituto de Geociências (Geografia Diurno, Geografia Noturno, Turismo e Geologia), além de outros na Escola de Arquitetura e Faculdade de Filosofia e Ciências Humanas da UFMG. Atende ainda aos cursos de pós-graduação strito sensu (mestrado e doutorado) em Geografia, além de apoiar cursos de especialização ligados ao Programa de Pós-Graduação em Geografia e outros. Seu corpo docente é formado por vinte e três doutores, dez 270eograf e um especialista. O Departamento de Geografia da UFMG compreende dois cursos de graduação: Geografia e Turismo, sendo que o curso de Geografia é

oferecido nos turnos diurno (40 vagas anuais) e noturno (80 vagas anuais). O curso de Turismo é ofertado somente no período diurno (40 vagas anuais). O Programa de Pós-Graduação em Geografia 270eogra os cursos de Mestrado e Doutorado em Geografia, em duas áreas de concentração: Análise Ambiental e Organização do Espaço. Atualmente são 22 professores credenciados no Programa e 160 alunos. O curso de Mestrado foi iniciado em 1988 e o de Doutorado foi iniciado em 2003. Atualmente possui conceito 5 no sistema da CAPES. O Departamento de Geografia possui atualmente 34 professores, sendo que 27 já são doutores e os demais estão cursando o doutorado. O curso de Geografia e o Programa de Pós-Graduação em Geografia da UFMG são considerados de excelente qualidade em nível nacional, estando sempre posicionados nas primeiras posições nos rankings elaborados pelos órgãos do governo federal e agências de fomento. Tradicionalmente, o Departamento de 270eografia da UFMG se destaca nas áreas de Geomorfologia, pedologia, Geografia e meio ambiente, recursos hídricos, 270eografia270gi, 270eografia urbana e 270eografia social. O Departamento de Geografia funciona no Instituto de Geociências da UFMG. Conta com 270eogra 270eografia270gi (Laboratório de Geomorfologia; Laboratório de Geoprocessamento, etc.), biblioteca e 270eografia. O curso de Geografia tem a duração de 04 anos (08 períodos letivos) no período diurno e 05 anos (10 períodos letivos) no período noturno. Os alunos cursam disciplinas obrigatórias e disciplinas optativas, a maioria com carga horária de 60 horas-aula. Muitas das disciplinas possuem atividades práticas e trabalhos de campo que permitem aos alunos a complementação dos conteúdos teóricos. O curso de Geografia conta, para os trabalhos de campo, com as instalações do Instituto Casa da Glória situado na cidade de Diamantina, o qual permite a hospedagem e alimentação dos alunos e 270eografia270. O Instituto Casa da Glória apresenta excelentes instalações e permite que os alunos conheçam diferentes dimensões geográficas de uma das mais ricas regiões do Brasil em termos físicos e humanos. O curso de mestrado tem a duração máxima de 02 anos e o de doutorado tem a duração máxima de 04 anos. Também é ofertado o curso de graduação em Geografia, modalidade bacharelado, à 270eografia. São contemplados 4 cidades de Minas Gerais, totalizando 160 alunos. O curso à 270eografia segue o mesmo padrão e estrutura do curso presencial. As ementas das disciplinas ofertadas (e seus objetivos), além de outras informações, podem ser encontradas no site www.igc.ufmg.br (Departamento de Geografia).

REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA:

Para o ingresso no curso de graduação, ocorre um 270eograf seletivo de vestibular anual no qual são abertas 40 vagas para o turno diurno e 80 vagas (2 turmas) para o período noturno. Para o Programa de Pós-graduação também há um 270eograf seletivo marcado pelas seguintes etapas: Análise dos projetos pelos prováveis orientadores indicados pelos candidatos; prova de idiomas; prova de conhecimentos específicos; análise do currículo e histórico escolar; entrevista. Em 2011 foram disponibilizadas 09 vagas para o doutorado e 23 vagas para o mestrado. O curso de graduação recebe apoio 270eografia270 da Pró-Reitoria de Graduação em termos de recursos e bolsas de iniciação científica para alunos. Também recebe apoio de agências de fomento nacionais como a CAPES, o CNPq e a FAPEMIG. Diversos alunos são contemplados com bolsas de iniciação científica e alguns 270eografia270 são bolsistas do CNPq. As disciplinas comuns às modalidades de licenciatura e bacharelado, ou à modalidade de licenciatura dos cursos diurno e noturno, permitem que o aluno matriculado no curso diurno possa cursa-las no curso noturno e vice-versa (no caso da licenciatura). Para isto, basta que o aluno siga as 270eografia270 curriculares e que haja vaga disponível. Após formado, o aluno pode optar por cursar a outra modalidade do curso (licenciatura ou bacharelado), solicitando continuação de estudos. Para isto, 270eogra cursar as disciplinas exigidas. A duração média da complementação é de um ano e meio. Ocorrem duas entradas por ano no curso de 270eografia, sendo uma no início do 1º semestre letivo para os alunos do curso diurno (40 vagas), e outra no início do 2º semestre letivo para os alunos do curso noturno (40 vagas). São oferecidas 40 vagas anuais para o curso diurno (entradas no 1º

semestre) e 40 vagas anuais para o curso noturno (entradas no 2º semestre). Os alunos dos cursos de Geografia possuem diferentes opções de estágios e 271eografia271gí nacionais e internacionais oferecidos dentro dos programas e acordos da UFMG, incluindo países do Mercosul, Europa e EUA.

CORPO DOCENTE:

Adriana Monteiro da Costa (Dra.) — Pedologia Situação funcional: Professor Adjunto
Allaoua Saadi (Dr.) — Geomorfologia; turismo Situação funcional: Professor Titular
Altair Sancho Pivoto dos Santos (mestre) — Turismo Situação funcional: Professor Assistente
Ana Maria Simões Coelho (mestre) — História do pensamento geográfico; Prática de ensino Situação funcional: Professora Assistente
Ana Paula Guimarães Santos (mestre) — Turismo Situação funcional: Professora
André Augusto Rodrigues Salgado (Dr.) — Geomorfologia Situação funcional: Professor Adjunto
André Velloso Batista Ferreira (Dr.) — Metodologia da pesquisa em geografia; Geografia humana Situação funcional: Professor Adjunto
Antônio Pereira Magalhães Júnior (Dr.) — Geografia e recursos hídricos; geomorfologia; geografia e meio ambiente Situação funcional: Professor Adjunto
Bernardo Machado Gontijo (Dr.) — Biogeografia; geografia e meio ambiente Situação funcional: Professor Adjunto
Carlos Henrique Jardim (Dr.) — Climatologia Situação funcional: Professor Adjunto
Cássio Eduardo Vianna Hissa (Dr.) — Metodologia da pesquisa em geografia; geografia humana Situação funcional: Professor Adjunto
Célio Augusto da Cunha Horta (mestre) — Geografia humana; geografia política Situação funcional: Professor Assistente
Claúdia Lamounier Freitas (mestre) — Turismo Situação funcional: Professor Adjunto
Claudinei Lourenço (Dr.) — História do pensamento geográfico; Prática de ensino Situação funcional: Professor Adjunto
Cristiane Valéria de Oliveira (Dra.) — Pedologia; geografia e meio ambiente Situação funcional: Professor Associado
Cristina Helena Ribeiro Rocha Augustin (Dra.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Titular
Doralice Barros Perreira (Dra.) — Geografia humana Situação funcional: Professor Adjunto
Fabiana Andrade Bernardes Almeida (mestre) — Turismo Situação funcional: Professor Assistente
Geraldo Magela Costa (Dr.) — Geografia urbana; planejamento urbano Situação funcional: Professor
Helder Lages Jardim (Dr.) — Geoprocessamento; sensoriamento remoto; cartografia Situação funcional: Professor Adjunto
Heloísa Soares de Moura Costa (Dra.) — Planejamento regional; planejamento urbano; geografia humana Situação funcional: Professor Associado
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Wellington Lopes Assis (Dr.) — Climatologia Situação funcional: Professor Adjunto E-mail: assisw@gmail.com Telefone: 3409-5430 Sala: 305
William Rosa Alves (mestre) — Geografia humana Situação funcional: Professor Assistente E-mail: wralves.bhz@uol.com.br Telefone: 3409-5437 Sala: 323

UNIVERSIDADE FEDERAL DE PERNAMBUCO (UFPE)

DEPARTAMENTO DE CIÊNCIAS GEOGRÁFICAS DATE FOUNDED: 1950

GRADUATE PROGRAM FOUNDED: 1976 (Master); 2004 (Doctor)

DEGREES OFFERED: Bacharelado, Licenciatura, Mestrado e Doutorado em Geografia

GRANTED 5/1/09-7/31/10: Bacharelados e Licenciados, 123; Mestres, 17; Doutores, 8

STUDENTS: Mestrado, 65; Doutorado, 38

CHAIR: Dr. Ranyere Nóbrega

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Departamento de Ciências Geográficas, Cidade Universitária, Edifício dos Institutos Básicos, CFCH, 60 andar, Cep 50640001 - Recife, Estado de Pernambuco, Brasil. Phone Number: 55-81-21268275; Fax Number: 55-81-21268275; E-mail address: Depcienciasgeograficas@yahoo.com.br.

PROGRAMS AND RESEARCH FACILITIES: The Department offers Geography Programs at Undergraduate (Bacharelado e Licenciatura) and Graduate (Master and Doctor) levels and these Programs provide training in Area and Systematic Studies. The Department through its Programs aims to strengthening a comprehensive view of Geography seeing this discipline as broadly interested in the study of the relationship between Society/Culture and Environment. Graduate courses are designed to facilitate student's research on their topics of interest and allow them to adopt applied or basic research attitudes. The Geography Graduate and Undergraduate Programs at the Universidade Federal de Pernambuco (UFPE) are surrounded by many others consolidated and productive Graduate and Undergraduate Programs in the Human Sciences (History and Archaeology, Anthropology, Political Science, Sociology, Urban Development, Economics, Social Work, Psychology, Education, Philosophy), in the Environmental Sciences and Engineering (Cartography, Geology, Environmental Sciences, Oceanography, Computer Sciences etc), in the Health Sciences (Public Health, Tropical Diseases, Medicine, Odontology, Nutrition, Occupational Therapy, etc), in the Law Sciences and in Education. Not few of these programs are on the highest positions of prestige in the country and are highly interactive at international level. It results that students from Brazil or abroad, being they at Graduate or Undergraduate Programs, are expected to benefit from these strong advantages which exist beyond the strict confines of the Department. The UFPE has a high record of professional sustained cooperation with other Universities in Brazil and abroad. Main focal topics of graduate research are: a) Settlement & Change in Developing Regions; b) Urban Planning; c) Economic & Regional Planning; d) Tourism, Development and Spatial & Environmental Changes; e) Geomorphology, Water Resources and Ecology.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 4 to 6 years; Master, 2 years including Thesis; Doctor, 4 years including Dissertation. *Admission graduate requirements:* interests in the field coincident with those of the Department, and clear evidence of competence to pursue graduate work at the Mestrado (Master) or Doutorado (Doctor) level; application requires curriculum vitae and research project (details: www.ufpe.br or cmgeo@ufpe.br), and other additional requirements (writing test, Portuguese language proficiency, letters of recommendation, for example) according to the Graduate Program Coordination. *Financial Aid:* possibilities of support through Brazilian federal programs which are available for nationals and foreigners (www.capes.gov.br).

FACULTY:

Nilson Crocia de Barros, Dr (1987) and Livre Docente (2004), U. de São Paulo — regional development, history of geography
Jan Bitoun, Dr, U. de Paris, 1982 — urban geography & policy
Tânia Bacelar de Araújo, Dr, U. de Paris, 1982 — economic & policy
Marlene Silva, Dr, U. de São Paulo, 1994 — agricultural geography
Ana Cristina Fernandes, Dr, U. of Sussex, 1996 — economic & regional policy
Edvânia T. Gomes, Dr, U. de São Paulo, 1997 — urban geography
Alcindo José de Sá, Dr, U. de São Paulo, 1998 — economics & agriculture
Eugênia Pereira, Dr, U. Federal Rural de Pernambuco, 1998 — botany
Maria Fernanda Torres, Dr, Universidade de São Paulo, 1999 — oceanography
Maria Bezerra de Araújo, Dr, U. Federal de Viçosa, 2000 — environment & soils
Antônio Carlos Correa, Dr, U. Estadual Paulista/R. Claro, 2001 — Geomorphology and Quaternary
Claudio Castilho, Dr, U. de Paris, 2001 — urban geography & tourism
Aldemir D. Barbosa, Dr, U. Federal do Rio de Janeiro, 2003 — environment & tourism

Vanice Selva, Dr, U. Federal do R. de Janeiro, 2003 — environment & tourism
Caio Amorim Maciel, Dr, U. Federal do R. de Janeiro, 2004 — cultural & rural geography
Silvana Neves, Dr, U. Federal da Bahia, 2004 — environment & geomorphology
Hernani Loebler Campos, Dr, U. Federal do R. de Janeiro, 2004 — water resources & management
Josicleda Domiciano Galvinctio, Dr, U. Federal da Paraíba, 2005 — environment & geotechnology
Claudio Ubiratan Gonçalves, Dr, U. Federal Fluminense, 2005 — rural & regional planning
Fernando Mota Filho, Dr, U. Federal de Pernambuco, 2006 — environment & planning
Rui B. Pordéus, Dr, U. Federal do Rio de Janeiro, 2007 — environment & geotechnology
Ranyere Silva Nóbrega, Dr, U. Federal de Campina Grande, 2008 — meteorology
 * *Tais Correa, MSc, U. F. de Pernambuco, 1984*
 * *L. J. de Oliveira, MSc, U. F. de Pernambuco, 1982*

* Activities only at the undergraduate program.

UNIVERSIDADE FEDERAL DE SANTA CATARINA

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 18 de dezembro de 1960

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura

URL PROGRAMA ON-LINE:

<http://www.cfhh.ufsc.br/geografia/>

CONTATO PROGRAMA DE BACHARELADO: Valmir

Volpato, volpato@cfhh.ufsc.br

BACHARELADOS OUTORGADO ANUALMENTE: 20

CONTATO PROGRAMA DE POS GRADUACAO:

Juliana Blau, secpgegeo@cfhh.ufsc.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Filosofia e Ciências Humanas

SITE DA INTERNET: <http://www.cfhh.ufsc.br/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Valmir Volpato, Expediente da Coordenadoria, Florianópolis, Santa Catarina, Brasil, Telefone: +55 (48) 3721-9256, Fax: +55 (48) 3721-9983, volpato@cfhh.ufsc.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso de Graduação em Geografia é parte integrante do Departamento de Geociências, nas suas atividades de Ensino/Pesquisa/Extensão, vinculado ao Centro de Filosofia e Ciências Humanas. É atendido por quatro áreas específicas do Departamento de Geociências (Fonte: <http://www.cfhh.ufsc.br/geografia/>): 1.Geologia; 2.Cartografia; 3.Geografia física; 4.Geografia humana. O Curso de Geografia da UFSC está definido com base no Currículo Mínimo do CFE e na Lei que regulamenta a Profissão de Geógrafo, pelo sistema CONFEA/CREAs. O Curso de Graduação em Geografia da UFSC tem por objetivo formar Geógrafos nas habilitações de Licenciatura e Bacharelado, como profissionais devidamente habilitados a desenvolver trabalhos de ensino, de pesquisa e de aplicação técnica, nos campos gerais e específicos da ciência geográfica, bem como no equacionamento e proposição de soluções para problemas relativos aos usos dos recursos naturais e implicações sócio-espaciais, em âmbito local, regional e nacional. Assim, o profissional da Geografia deverá saber usar em seu trabalho (ensino, pesquisa e atividades de

aplicação técnica), conhecimentos de investigação científica adquiridos na formação acadêmica, a partir de princípios, métodos e técnicas da Ciência Geográfica. Princípios Básicos •Compromisso com a construção do conhecimento geográfico, com a cultura brasileira e com a democracia cidadã. •Compromisso ético com a vida em suas diferentes manifestações naturais e sociais. •Respeito à pluralidade de indivíduos, ambientes, culturas e interação profissional. •Compromisso com a qualificação e competência profissional geográfica. •Atuação propositiva na busca de soluções relativas a questões geográficas. •Envolvimento permanente com os fundamentos teóricos e metodológicos da ciência geográfica. •Desenvolvimento crescente das habilidades gerais e específicas da geografia. Objetivos do Curso Formar profissionais devidamente habilitados a desenvolver atividades de ensino, de pesquisa e de aplicação técnica, a partir de princípios, métodos e técnicas da Ciência Geográfica. Na habilitação LICENCIATURA, formar profissionais para o magistério do ensino fundamental e médio. Na habilitação BACHARELADO, formar profissionais para trabalhar em atividades de reconhecimento, levantamentos, estudos e pesquisas de caráter físico-geográfico e geoeconômico, realizações nos campos gerais e específicos da geografia. Habilidades que articulam tanto a formação de bacharel quanto a de licenciado 1. Articular os elementos conceituais e empíricos, concernentes ao conhecimento científicos dos processos espaciais e sociais. 2. Conhecer, analisar, interpretar e por em prática as diversas manifestações do conhecimento geográfico, tanto ao nível técnico-profissional enquanto bacharel, quanto ao nível do ensino fundamental e médio enquanto licenciado. 3. Articular, interpretar e explorar integradamente, nos diferentes níveis do ensino, da pesquisa, e das atividades voltadas à extensão universitária, os eventos e/ou fenômenos geográficos dirigidos aos elementos naturais e humanos, nas diferentes escalas espaço-temporais. 4. Dominar métodos e técnicas instrumentais de laboratório e de campo, relativas à produção e aplicação do conhecimento geográfico. 5. Planejar, propor, elaborar e executar projetos de pesquisa e de extensão acadêmica no âmbito da Geografia. 6. Interpretar mapas temáticos ou outras representações gráficas e cartográficas. 7. Dominar a língua portuguesa como forma de expressão, para viabilizar a produção e a difusão do conhecimento geográfico. Habilidades mais específicas ao campo do licenciado 1. Atuar no processo ensino-aprendizagem junto às escolas, públicas e privadas, no nível de ensino fundamental e médio. 2. Organizar e dominar os conhecimentos sobre a natureza e sociedade, adequando-os ao processo de ensino-aprendizagem em Geografia nos diferentes níveis de ensino.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Fonte: <http://www.cfh.ufsc.br/geografia>: 1. O aluno fará opção no vestibular exclusivamente para o Curso de Geografia diurno ou para o noturno. A opção do aluno por Licenciatura ou Bacharelado será feita ao longo do curso. O aluno poderá graduar-se nas duas habilitações desde que cumpra os respectivos currículos. 2. Entrarão duas turmas por ano: uma para o período matutino (diurno) no primeiro semestre do ano letivo e outra para o período noturno no segundo semestre do ano letivo. 3. O curso oferecerá 80 vagas anualmente, sendo 40 vagas para o turno matutino e 40 vagas para o noturno. 4. A duração da habilitação Bacharelado será de 8 semestres, sendo o mínimo de 6 semestres e o máximo de 14 semestres para a integralização das disciplinas. A duração da habilitação Licenciatura será de 9 semestres, sendo o mínimo de 7 semestres e o máximo de 16 semestres para a integralização das disciplinas. 5. As disciplinas terão 18 semanas de aulas por semestre letivo. 6. Como disciplinas optativas, o aluno poderá escolher quaisquer disciplinas oferecidas pela UFSC, obedecidos os pré-requisitos na sua origem, não podendo ultrapassar 20% da carga horária mínima do curso. (Conforme estabelecido pelo documento “Orientações Básicas para a Reforma Curricular nos Cursos de Graduação” elaborado pela equipe DCN/DEG/PREG-UFSC [Professora Dra. Araci Hack Catapan, Professor Dr. Marcos Laffin e assessoria especial de prof. Dra. Maria Conceição Manhães]) 7. As disciplinas obrigatórias específicas do currículo do curso de Bacharelado poderão ser optativas para o curso de Licenciatura, da

mesma forma que as disciplinas obrigatórias específicas do currículo do curso de Licenciatura poderão ser optativas para o Curso de Bacharelado. 8. Para subsidiar o aluno na escolha da habilitação que deseje desenvolver no decorrer do curso - Bacharelado ou Licenciatura - foi incluído na quarta e última unidade do Programa da Disciplina História do Pensamento Geográfico oferecida na 1a. fase, conteúdo programático específico denominado “A formação profissional e o mundo do trabalho: Bacharelado e Licenciatura”, destinado a detalhar as diferenças entre as duas habilitações. 9. O aluno deverá desenvolver ao longo do curso atividades acadêmico-científico-culturais correspondentes a 200 horas, detalhado no link Atividades Acadêmicas 10. O Exame Nacional de Desempenho dos Estudantes – ENADE, é componente curricular obrigatório conforme Lei no 10.861, de 14 de abril de 2004, “sendo inscrito no histórico escolar do estudante somente a sua situação regular com relação a essa obrigação, atestada pela efetiva participação ou, quando for o caso, dispensa oficial pelo Ministério da Educação, em forma estabelecida em regulamento”. 11. A carga de horas/aula semanal média em sala de aula será para Bacharelado será de 20 H/A e para Licenciatura será de 20 H/A, considerando-se a realização de optativas. 12. O currículo deverá ser implantado gradativamente (Conforme Resolução nº 017/CUn/97), com implantação da 1ª fase no primeiro semestre do ano de 2007, evitando prejuízos aos alunos vinculados ao currículo atual (implantados em 1992/1 – diurno e 1992/2- noturno). 13. As horas/aula assinaladas com as letras PCC, (veja link Matriz Curricular), correspondem às horas-aula de Prática como Componente Curricular, voltadas à formação do futuro professor, conforme regulamentação específica. (Resolução Nº 2, de 19 de fevereiro de 2002 e Resolução Nº 1, de 18 de fevereiro de 2002) 14. As horas/aula indicadas na observação a serem realizadas fora do horário normal de aula (veja link Matriz Curricular), correspondem a atividades que poderão ocorrer em finais de semana (sábado e/ou domingo) e/ou durante a semana, de acordo com plano de ensino e destinam-se a: 1) realização de trabalho de campo; 2) levantamento de dados em órgãos públicos para trabalhos acadêmicos; 3) leituras obrigatórias das respectivas disciplinas; 4) realização de trabalhos em equipes: teóricos ou práticos; 5) realização de avaliação com consulta bibliográfica: provas, monografias, etc.; 6) assistência de aulas em estabelecimentos de ensino que estão desenvolvendo conteúdos relativos à respectiva disciplina.

PROFESSORES:

Alessandra Larissa D'Oliveira Fonseca — Oceano
Ângela da Veiga Beltrame — Biogeografia
Carla Van Der Haagen Custodio Bonetti — Oceanografia Costeira
Carlos José Espíndola — Econômica
Clécio Azevedo da Silva — Rural / Alimentação
Edison Ramos Tomazzoli — Geologia
Élson Manoel Pereira — Urbana
Érico Porto Filho — Ambiental
Ewerton Vieira Machado — Urbana
Gerusa Maria Duarte — Geologia / Recursos Hídricos
Harrysson Luiz da Silva — Brasil
Jarbas Bonetti Filho — Oceanografia
João Carlos Rocha Gré — Sedimentologia
Joel Robert Georges Marcel Pellerin — Cartografia
José Messias Bastos — Econômica
Juan Antonio Flores — Geologia
Leila Christina Duarte Dias — História da Geografia
Luiz Antônio Paulino — Cartografia
Luiz Fernando Scheibe — Geologia / Ambiental
Magaly Mendonça — Climatologia
Marcelo Accioly Teixeira de Oliveira — Geomorfologia
Marcos Aurélio da Silva — Econômica
Maria Lúcia de Paula Herrmann — Geomorfologia
Nazareno José de Campos — Urbana / Rural
Norberto Olmiro Horn Filho — Geologia
Paulo Roberto Pagliosa Alves — Oceano
Rosemy da Silva Nascimento — Cartografia e Educação Ambiental
Ruth Emília Nogueira Locho — Cartografia

UNIVERSIDADE FEDERAL DE SANTA MARIA

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 13 de Setembro de 1961

PROGRAMAS: Bacharelado, Licenciatura Plena, Licenciatura Plena (à Distância/Virtuais), Mestrado, Doutorado, Pós-doutorado

URL PROGRAMA ON-LINE: www.ufsm.br/geografia e www.ufsm.br/ppggeo

CONTATO PROGRAMA DE BACHARELADO: Sandra Ana Bolfe (sabolfe@hotmail.com)

CONTATO PROGRAMA DE LICENCIATURA PLENA: Sandra Ana Bolfe (sabolfe@hotmail.com)

CONTATO PROGRAMA DE LICENCIATURA PLENA (À DISTÂNCIA/VIRTUAL): Mauro Kumpfer Werlang (wermakwer@gmail.com)

CONTATO PROGRAMA DE PÓS-GRADUAÇÃO:

Romário Trentin (romario.trentin@gmail.com)

CENTROS DE PESQUISA: Centro de Ciências Naturais e Exatas / Universidade Federal de Santa Maria

SITE DA INTERNET: www.ufsm.br/ccne

CONTATO PARA MAIS INFORMAÇÕES: Adriano Severo Figueiró – Chefe de Departamento (adri.geo.ufsm@gmail.com)

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade Federal de Santa Maria é ministrado há 44 anos. Desde a sua criação, consolidou-se como grande formador de profissionais no mercado local, regional e nacional. Atualmente, o curso conta com 270 alunos. Nos últimos anos, as disciplinas oferecidas pelo Departamento de Geociências têm tido grande procura por parte de alunos de outros cursos. **HABILITAÇÕES:** O Departamento de Geociências oferece habilitações na área de Licenciatura a Bacharelado. Para a conclusão do curso, o aluno deve permanecer na faculdade no mínimo 6 semestres, e no máximo 12. Ao exceder esse limite o aluno entra em processo de jubileamento. O aluno deve optar por fazer uma opção de habilitação já na inscrição do processo seletivo. **OBJETIVOS DO CURSO** O curso visa a formação de professores de ensino básico e médio, geógrafos e pesquisadores em Geografia. O aluno formado em Licenciatura Plena pode exercer sua profissão dando aulas de Geografia no ensino básico, tanto em escolas públicas quanto em particulares. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho, também como pesquisador, podendo trabalhar em diversos órgãos, ou apenas prestando consultoria. **O ESTUDANTE DE GEOGRAFIA** O estudante de Geografia necessariamente deve ter aptidão para pesquisa, seja ela de campo ou teórica e ter grande perceptividade. Saber compreender e analisar o que acontece no espaço local, regional e mundial é de suma importância. **LABORATÓRIOS** O Departamento de Geociências possui diversos laboratórios que oferecem atividades de ensino, pesquisa e extensão, possibilitando a produção de conhecimento e a prática de professores e discentes. Os laboratórios que integram a lista são: **GPET** – Grupo de Pesquisa em Educação e Território; **NERA** – Núcleo de Estudos e Pesquisas Regionais e Agrários; **NEA** – Núcleo de Estudos Ambientais - CLIMAGEO/SAGEO; **LEPER** – Laboratório de Estudo e Pesquisa Regional; **LAGED** – Laboratório de Geoecologia e Educação Ambiental; **LaGeoUr** – Laboratório de Geografia Urbana; **LAGEOLAM** – Laboratório de Geologia Ambiental; **LABGEOTEC** – Laboratório de Geotecnologias; **HIDROGEO** – Laboratório de Hidrogeografia; **LABHIDROGEO** – Laboratório de Hidrogeologia; Laboratório de Geomorfologia e Percepção da Paisagem; Laboratório

de Geografia e EAD; Laboratório de Geoprocessamento; Laboratório de Paleobiologia/Estratigrafia; Núcleo de Ensino em Geografia; Laboratório de Sedimentologia; Grupo de Pesquisa em Educação e Território; Núcleo de Estudos Regionais e Agrários; Laboratório de Estudos e Pesquisas Regionais; Laboratório de Geografia Urbana; Laboratório de Estudo Ambiental; Laboratório de Geologia Ambiental; Laboratório de Cartografia.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante no curso de Geografia Licenciatura Plena cumpre um total de 51 disciplinas obrigatórias e 10 optativas. O aluno ingressante no curso de Geografia Bacharelado cumpre um total de 53 disciplinas obrigatórias e 10 optativas. Ao final do curso obtém, respectivamente, o título de licenciado em Geografia e bacharel em Geografia. O curso é gratuito, pois é oferecido por instituição pública de ensino federal.

PROFESSORES:

Adriano Severo Figueiró, (adri.geo.ufsm@gmail.com) — Geoecologia, Biogeografia, Geoconservação, Educação ambiental.

André Weissheimer de Borba (awborba.geo@gmail.com) — Geoconservação.

Andrea Valli Nummer (a.nummer@gmail.com) — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).

Átila Augusto Stock da Rosa (atiladarosa@gmail.com) — Paleontologia.

Bernardo Sayão Penna e Souza (bernardosp@yahoo.com.br) — Geomorfologia, Geografia física (geral), Sensoriamento remoto.

Benhur Pinós da Costa (benpinos@gmail.com) — Geografia econômica, Estudos de gêneros, Geografia social.

Carlos Alberto da F. Pires (calpires@terra.com.br) — Geoestatística.

Carmen Rejane F. Wizniewsky (carmenrejanevw@gmail.com) — Educação geográfica, Geografia rural, Geografia social.

Cássio Arthur Wollmann (cassio_geo@yahoo.com.br) — Climatologia, Conservação, Geografia aplicada, Geografia física (geral).

Cesar de David (cdedavid2009@gmail.com) — Educação geográfica, Geografia rural, Geografia social, Geografia política.

Edgardo Ramos Medeiros (edgardomedeiros@gmail.com) — Solos, Estudos ambientais, Castástrofes / áreas de risco, Geografia física (geral).

Eduardo Schiavone Cardoso (educard@smail.ufsm.br) — Geografia econômica, Geografia social, Desenvolvimento regional.

Eliane Maria Foletto (efoletto@gmail.com) — Conservação, uso da terra, gestão de recursos hídricos, Geografia física (geral).

Gilda Maria Cabral Benaduce (g.benaduce@gmail.com) — Educação geográfica, Geografia urbana, Geografia da População.

José Luiz Silvério da Silva (silverioufsm@gmail.com) — Recursos hídricos, Estudos ambientais, Geografia física (geral).

Lauro Cesar Figueiredo (laurocfigueiredo@hotmail.com) — Pensamento geográfico, Ecologia cultural, Geografia cultural.

Lilian Hahn Mariano da Rocha (lhrocha@yahoo.com) — Geografia urbana, Planejamento (regional, urbano), Geografia social.

Luis Eduardo de Souza Robaina (lesrobaina@yahoo.com.br) — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral).

Mauro Kumpfer Werlang (wermakwer@gmail.com) — Métodos quantitativos, Geomorfologia, Geografia física (geral).

Meri Lourdes Bezzi (meribezzi@yahoo.com.br) — Pensamento geográfico, Geografia cultural, Geografia rural.

Rivaldo Mauro de Faria (rivaldo.faria@ufsm.br) — Geografia médica, Geografia urbana, Planejamento (regional, urbano).

Roberto Cassol (rtocassol@gmail.com) — SIG, SIG (Programa de certificação), Geografia física (geral).

Romário Trentin (romario.trentin@gmail.com) — Geomorfologia, Castástrofes / áreas de risco, Geografia física (geral), SIG.

Sandra Ana Bolfe (sabolfe@hotmail.com) — Educação geográfica, Geografia urbana, Geografia da População.

Waterloo Pereira Filho waterloopf@gmail.com — SIG,
Sensoriamento remoto, Geografia física (geral)

CHEFE DO DEPARTAMENTO: Adriano Severo Figueiró
(adri.geo.ufsm@gmail.com)

SUBCHEFE DO DEPARTAMENTO: Eliane Maria Foletto
(efoletto@gmail.com)

COORDENADOR DE GRADUAÇÃO: Sandra Ana Bolfe
(sabolfe@hotmail.com)

COORDENADOR PROGRAMA DE PÓS-GRADUAÇÃO: Romário Trentin
(romario.trentin@gmail.com)

DOCENTE PERMANENTE:

Adriano Severo Figueiró, André Weissheimer de Borba, Andrea Valli Nummer, Ane Carine Meurer, Bernardo Sayão Penna e Souza, Benhur Pinós da Costa, Carmen Rejane F. Wizniewsky, Cássio Arthur Wollmann, Cesar de David, Eduardo Schiavone Cardoso, Eliane Maria Foletto, Fabio Marcelo Breunig, Luís Eduardo de Souza Robaina, Mauro Kumpfer Werlang, Meri Lourdes Bezzi, Rivaldo Mauro de Faria, Roberto Cassol, Romário Trentin, Waterloo Pereira Filho.

UNIVERSIDADE FEDERAL DE UBERLÂNDIA

FACULDADE DE CIÊNCIAS INTEGRADAS DO PONTAL

FUNDADO: 1969

PROGRAMAS: Bacharelado, Licenciatura

URL PROGRAMA ON-LINE:

<http://www.facip.ufu.br/geografia>

CONTATO PROGRAMA DE BACHARELADO: Gerusa

Gonçalves Moura, cocgeo@pontal.ufu.br

SITE DA INTERNET: <http://www.facip.ufu.br/geografia>

CONTATO PARA MAIS INFORMAÇÕES: Gerusa Gonçalves Moura, Coordenadora do Curso, Ituiutaba, Minas Gerais, Brasil, Telefone: (34) 3271-5248, Fax: (34) 3271-5249, cocgeo@pontal.ufu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O curso de Geografia da Faculdade de Ciências Integradas do Pontal - FACIP/UFU parte do princípio da indissociabilidade entre ensino, pesquisa e extensão, além da necessidade de articulação entre bacharelado e licenciatura. Portanto, apresenta uma estrutura curricular única que visa a preparação simultânea de licenciados e bacharéis, partindo de três núcleos de formação: 1. Núcleo de Formação Específica (constituído por conhecimentos da Ciência Geográfica); 2. Núcleo de Formação Pedagógica (constituído pelos conhecimentos teórico-práticos da área de educação e de ensino); 3. Núcleo de Formação Acadêmico-Científico-Cultural (engloba as atividades acadêmicas complementares e o Trabalho de Conclusão de Curso, que pode ser uma monografia ou um relatório de estágio profissional). Sendo assim, o curso se baseia em linhas de pesquisa que estão relacionadas com os três núcleos de formação da estrutura curricular, citados acima. Essas linhas de pesquisa são: a) Gestão socioambiental em bacias hidrográficas; b) Planejamento e desenvolvimento regional; c) Ensino de Geografia: desenvolvimento de metodologias e práticas educativas. No que se refere às instâncias, o curso conta com infraestrutura de salas de aula, auditórios e laboratórios para o desenvolvimento das atividades teóricas e práticas, além da possibilidade de realização de viagens de campo. Merecem destaque o Laboratório de Geografia Humana e Ensino; o Laboratório

de Geotecnologias; e o Núcleo de Análises Ambientais em Geociências. Essas características do programa e das instalações fornecem subsídios para que os profissionais formados neste curso sejam aptos a: I) analisar as configurações socioespaciais; II) diagnosticar e propor alternativas levando em conta a relação teoria prática; III) elaborar e executar projetos de pesquisas no âmbito da Geografia; IV) tratar o ensino, a pesquisa e a extensão como elementos indissociáveis, de modo que estes possam compor a prática dos profissionais em Geografia; V) desenvolver investigações científicas sobre os aspectos socioeconômicos, políticos e socioambientais, e os processos deles resultantes; VI) habilitar profissionais para o exercício do magistério de Geografia nas séries iniciais/finais do Ensino Fundamental (e/ou) do Ensino Médio em instituições públicas ou privadas de ensino e em todo o território nacional; VII) compreender, de forma ampla e consciente, o processo educativo, considerando as características das diferentes realidades e níveis de especialidade em que se processam.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: O curso de Geografia da Faculdade de Ciências Integradas do Pontal - FACIP/UFU, que integra as modalidades licenciatura e bacharelado, tem duração de 10 semestres, com carga horária mínima de 3320 horas, sendo: 2040 horas dedicadas para o Núcleo de Formação Específica em Geografia; 1080 horas para o Núcleo de Formação Pedagógica; e mais 200 horas referentes ao Núcleo de Formação Acadêmica-científico-cultural. A estrutura curricular do curso apresenta um conjunto de disciplinas que garantem uma formação balanceada entre os aspectos sociais e ambientais por meio de atividades teóricas e práticas. Cabe ressaltar ainda que ao longo do curso o aluno pode cursar disciplinas optativas e participar de atividades de campo. No que se refere aos requisitos para admissão, o candidato deve ser aprovado no processo seletivo da Universidade Federal de Uberlândia, baseado no Sistema de Seleção Unificada - SisU, disponibilizando anualmente 26 vagas para o período matutino e 30 vagas para o período noturno. Em relação ao financiamento, existem vários projetos em desenvolvimento com apoio da própria universidade, além de outros órgãos de fomento como a Fundação de Amparo à Pesquisa de Minas Gerais - FAPEMIG, o Conselho Nacional de Desenvolvimento Científico e Tecnológico - CNPq, a Coordenação de Aperfeiçoamento de Pessoal de Nível Superior - CAPES, Ministério da Educação - MEC, entre outros.

PROFESSORES:

Anderson Pereira Portoguez — Geografia Humana; Turismo; Desenvolvimento

Antônio de Oliveira Júnior — Planejamento Urbano; Planejamento e Gestão do Território; Sistemas de Infraestrutura do Território

Carlos Roberto dos Anjos Candeiro — Geociências; Paleontologia Estratigráfica; Geografia Física; Paleozoologia

Carlos Roberto Loboda — Geografia Urbana, Espaços Públicos, Áreas Verdes Públicas Urbanas, Geografia Econômica; Ensino de Geografia

Gerusa Gonçalves Moura — Ensino de Geografia, Geografia Urbana, Representações Cartográficas, Representações e Imagens

Gilnei Machado — Climatologia Geográfica; Hidrogeografia; Geocologia; Geomorfologia; Ensino-Aprendizagem

Hélio Carlos Miranda de Oliveira — Geografia Urbana, Cidade Média, Relação Cidade-Campo, Rede Urbana, Metodologia científica, Educação a distância

Joelma Cristina dos Santos — Geografia Econômica, Geografia Agrária, Geografia do Trabalho, relação capital x trabalho, mundo do trabalho, relação cidade-campo, agroindústria canavieira

Jussara dos Santos Rosendo — Sensoriamento Remoto, Sistemas de Informação Geográfica, Cartografia, Geoprocessamento, Monitoramento de bacias hidrográficas, Uso da terra, Estoque de Carbono nos solos

Kátia Gisele de Oliveira Pereira — Geociências, Geomorfologia, Climatologia, Gestão de bacias hidrográficas, Meio ambiente e cidadania

Maria Beatriz Junqueira Bernardes — Educação ambiental; Ensino de geografia

Nágela Aparecida de Melo — Geografia urbana; Cidade; Campo; Cidade Média; Pequena Cidade

Patrícia Francisca de Matos — Geografia agrária, Modernização da agricultura, Cerrado, Reforma agrária, Movimentos sociais

Rildo Aparecido Costa — Geociências, Geografia Física, Uso e Apropriação do meio físico, Biogeografia, Geomorfologia, Análise de bacias hidrográficas, Planejamento e Gestão Ambiental

Roberto Barboza Castanho — Geoprocessamento, Cartografia, Sistema de Informações Geográficas, Sensoriamento Remoto, Fotointerpretação

Saul Moreira Silva — Geografia física, Geomorfologia, Levantamento e classificação dos solos, Pedologia, Ensino solos

Sérgio Gonçalves — Geografia Humana, Movimento dos Trabalhadores Sem Terra, Desenvolvimento rural, Assentamentos rurais, Geografia agrária e Planejamento regional

Vitor Koiti Miyazaki — Geografia Urbana, Cidade Média, Rede Urbana, Aglomeração urbana, Morfologia urbana

UNIVERSIDAD FEDERAL DO CEARÁ

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 19 de novembro de 1954

PROGRAMAS: Bacharelado, Mestrado, Doutorado, Licenciatura

URL PROGRAMA ON-LINE:

<http://www.posgeografia.ufc.br/>

CONTATO PROGRAMA DE BACHARELADO:

geograf@ufc.br

BACHARELADOS OUTORGADO ANUALMENTE: 50

CONTATO PROGRAMA DE POS GRADUACAO:

posgeog@ufc.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Ciências

SITE DA INTERNET: <http://www.geografia.ufc.br/portal/>

CONTATO PARA MAIS INFORMAÇÕES: Dr. Alexandra Bezerra da Rocha, Fortaleza, Ceará/CE, Brasil, Telefone: (85) 33660000, alexandrarocha@hotmail.com

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O Curso tem como objetivo formar um profissional de Geografia, seja o licenciado, seja o bacharel apto para exercer com eficácia e competência suas funções:- Propiciar meios e instrumentos para o bacharel realizar reconhecimentos, levantamentos, estudos e pesquisas de caráter físico-geográfico, antropogeográfico e geoeconômico no campo específico da Geografia;- Considerando a Geografia como uma Ciência Social que estuda a sociedade através do espaço, o educando deverá ser capaz de analisar, interpretar e pensar criticamente a realidade próxima, tendo em vista sua transformação e contradições espaciais como reflexos das relações sociais.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O Curso de Geografia ocupa e funciona em edifício de qualidade, no bloco 911, do Campus do Pici da UFC, na área do Centro de Ciências. Este dado é importante, pois provoca constantes encontros, bem como, facilita o contato com profissionais e pesquisadores de outras áreas do conhecimento de vários setores da Universidade. Em várias ocasiões, participamos de reuniões com esses

profissionais. No Departamento de Geografia, desenvolvemos as atividades em vários laboratórios e gabinetes que facilitam as condições de trabalho. O Curso de Geografia foi criado em 1963, e tem prestado significativa contribuição ao desenvolvimento cearense, com a formação de pessoal especializado em diversas áreas. Mantém cursos regulares de Licenciatura e Bacharelado. Em 1995, iniciou o curso de Mestrado em "Desenvolvimento e Meio Ambiente" em conjunto com os Departamentos de Biologia, Economia Agrícola e Geologia. Em 2005, iniciou mais um curso de pós-graduação, o Curso de Mestrado em Geografia. Em 2009, iniciou o Curso de Doutorado em Geografia. Possui instalações apropriadas ao desenvolvimento de várias atividades de Ensino, Pesquisa e Extensão: salas especiais de projeção, auditório acústico e climatizado e salas de aula climatizadas. É equipado com 9 (nove) Laboratórios especializados. O Departamento de Geografia tem mantido CONVÊNIOS com organizações nacionais e internacionais, que têm contribuído para o desenvolvimento de pesquisas em seus laboratórios. Dentre esses destacam-se: PROJETO STATUS Fundação Nacional do Meio Ambiente - Diagnóstico Sócio-Ambiental e da qualidade de vida dos Tremembé de Amofala - Itarema - CE. Concluído ALFA - América Latina - Formação Acadêmica (Comunidade Européia e várias universidades). Concluído Projeto WAVES - UFC / Governo alemão. Concluído CAPES/COFECUB - Departamento de Geografia - Instituto Francês de Urbanismo (Université de Paris 8) - 1995 - 1999. SUDENE - Delimitação e Regionalização do Nordeste Semi-Árido. PETROBRÁS/FIEC - Abastecimento de gás natural para as indústrias de Fortaleza. METROFOR - Trem Metropolitano de Fortaleza. IPLANCE - ÁRIDAS. Prefeitura Municipal de Icapuí - Diagnóstico Sócio-Ambiental. FBFF/FASE/Arquidiocese de Fortaleza: Problemas e Soluções. Arquidiocese de Fortaleza: Delimitação e Mapeamento das Áreas de Índios Tapebas da Região Metropolitana de Fortaleza. CNBB - 2a. Semana Social Brasileira e Ante-Projeto de Lei de Saneamento Básico. URCA - Curso de Especialização.

UNIVERSIDADE FEDERAL DO MARANHÃO

DEPARTAMENTO DE GEOCIÊNCIAS

FUNDADO: 28/07/56

PROGRAMAS: Bacharelado, Licenciatura

SITE DA INTERNET:

http://www.ufma.br/paginas/pagina_cursos.php?cod=4

CONTATO PARA MAIS INFORMAÇÕES: Juarez Soares Diniz, Chefe de Departamento, São Luís, Maranhão, Brasil, Telefone: 98 3301-8330, Fax: 98 3301-8329, juarezsd@yahoo.com.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O profissional da Geografia deve conhecer a natureza através do estudo dos aspectos que interferem na vida e na organização espacial das sociedades e em suas inter-relações. Deve, ainda, estudar os aspectos estruturais da sociedade e as formas como essa sociedade se apropria da natureza. O Bacharel em Geografia poderá exercer, com registro no CREA, atividades de pesquisa, planejamento regional e ambiental, contribuindo para solucionar problemas de organização do espaço nos seus diferentes enfoques. O Licenciado em Geografia está habilitado ao exercício do magistério, fundamental e médio, podendo também atuar no ensino de disciplinas não-instrumentais em cursos superiores de Geografia e afins. Poderá exercer cargos administrativos e/ou integrar equipes de projetos. Seus campos de atuação estão nas diversas instituições de estudo, pesquisa e ensino das áreas das Geociências e Ciências Humanas, especificamente Órgãos públicos e privados de estudos, planos e projetos ambientais (EIAs/RIMAs), Centros de pesquisas espaciais e afins, Órgãos de planejamento regional e similares, Empresas de produção cartográfica convencional, Políticas urbanas/agrárias, Ensino público ou privado, Políticas educacionais, Geoestatísticas.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: Para ingressar no curso de Geografia (Bac-Lic) o candidato deve ter concluído o ensino médio e prestar o Exame Nacional do Ensino Médio - ENEM, e estar classificado entre os 48 primeiros lugares. Para integralização do curso na modalidade bacharelado o estudante deve cumprir 112 créditos das disciplinas do Núcleo de Fundamentação Humanística, 16 créditos do Núcleo de Fundamentação Teórico-Complementar, 6 do Núcleo de Estágio Curricular e 14 créditos do Núcleo de Atividades complementares. Na modalidade licenciatura deve cumprir ainda 22 créditos do Núcleo de Formação Pedagógica e 29 do Núcleo das Práticas Pedagógicas e Estágio Curricular

UNIVERSIDADE FEDERAL DO PIAUÍ

FUNDAÇÃO: 1968
SITE: www.ufpi.edu.br

FOR MORE INFORMATION CONTACT: Luiz de Sousa Santos Júnior, Reitor, Campus Universitário Ministro Petrônio Portella - Bairro Ininga - Teresina - PI CEP: 64049-550, Telefone: (86)3215-5525, Fax: (86)3215-5526, comunicação@ufpi.edu.br

ESTRUTURA E ORGANIZAÇÃO: A UFPI é uma instituição de educação superior, mantida pela Fundação Universidade Federal do Piauí – FUFPI (criada pela Lei nº 5.528, de 12.11.68), que goza de autonomia didático-científica, administrativa e de gestão financeira e patrimonial, sediada em Teresina, Estado do Piauí, e que mantém outras Unidades Acadêmicas no interior do Estado. Seus objetivos são: cultivar o saber em todos os campos do conhecimento puro e aplicado, de forma a: a) estimular a criação cultural e o desenvolvimento do espírito científico e do pensamento reflexivo; b) formar diplomados nas diferentes áreas do conhecimento, aptos para inserção em setores profissionais e para a participação no desenvolvimento da sociedade brasileira, e colaborar na sua formação contínua; c) incentivar o trabalho de pesquisa e investigação científica, visando o desenvolvimento da ciência e da tecnologia e da criação e difusão da cultura, e, desse modo, desenvolver o entendimento e do meio em que vive; d) promover a divulgação de conhecimentos culturais, científicos e técnicos que constituem patrimônio da humanidade e comunicar o saber através do ensino, de publicação ou de outras formas de comunicação; e) suscitar o desejo permanente de aperfeiçoamento cultural e profissional e possibilitar a correspondente concretização, integrando os conhecimentos que vão sendo adquiridos numa estrutura intelectual sistematizadora do conhecimento de cada geração; f) estimular o conhecimento dos problemas do mundo presente, em particular os nacionais e regionais, prestar serviços especializados à comunidade e estabelecer com esta uma relação de reciprocidade; g) promover extensão, aberta à participação da população, visando à difusão das conquistas e benefícios resultantes da criação cultural e da pesquisa científica e tecnológica geradas na instituição. A administração da UFPI é realizada nos planos de deliberação e execução, em nível superior e em nível setorial. A deliberação é realizada pelos Conselhos Superiores, que são: 1) Conselho de Administração (CAD), 2) Conselho de Ensino, Pesquisa e Extensão (CEPEX); e, 3) Conselho Universitário (CONSUN).

PROPOSITO DE ORGANIZAÇÃO: Estabelecimento de políticas de ensino, pesquisa e extensão que assegurem níveis crescentes solidez e legitimidade; Defesa de um sistema de educação superior sólido, diversificado, com padrões crescentes de qualidade, atendidos os requisitos de infra-estrutura e recursos humanos, para possibilitar a sua permanente afirmação como instituição geradora e promotora do conhecimento; Gratuidade de ensino, entendida como a não cobrança de anuidades, taxas ou mensalidades nos cursos/programas de Graduação, de Mestrado e de Doutorado; Defesa permanente da

autonomia universitária; Interação continuada com a sociedade; Integração e interação com os demais níveis e graus de ensino; Consolidação crescente dos programas voltados para a inserção nacional e internacional; Apoio ao desenvolvimento de políticas públicas voltadas para a busca de sociedades não discriminatórias, mais igualitárias e mais justas; Gestão racional, transparente e democrática do orçamento e do cotidiano da Universidade; Aperfeiçoamento de um modelo de gestão descentralizada, priorizando a estrutura colegiada e em permanente diálogo com todas as instâncias que compõem a comunidade universitária; Respeito à diversidade das forças que constituem a Universidade, fonte de sua maior riqueza, incluindo-se aí todo o seu corpo social (segmento segmentos docente, discente e de funcionários técnicos e administrativos), assegurando-se a pluralidade de idéias no contexto dos diferentes perfis de atuação.

UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

DEPARTAMENTO DE GEOGRAFIA

FUNDADO: 1935

PROGRAMAS: Bacharelado, Licenciatura, Mestrado e Doutorado

BACHARELADOS OUTORGADOS ANUALMENTE: 35

LICENCIATURAS OUTORGADAS ANUALMENTE: 40

POS-GRADUAÇÕES OUTORGADAS ANUALMENTE: 40

SITE DA INTERNET: www.geografia.ufri.br

CONTATO PARA MAIS INFORMAÇÕES:

Chefe de Departamento: Prof.^a Msc. Letícia parente Ribeiro
E-mail: depegeografiaufri@gmail.com Telefone: +55 21 2590-1880
Av. Athos da Silveira Ramos, 274.Cidade Universitária. Rio de Janeiro, RJ, Brasil. Prédio do CCMN, Bloco G, Sala 25. CEP 21941-916.

Coordenador da Pós-Graduação: Prof. Dr. Manoel do Couto Fernandes. Email: ppgg.geografia@ppgg.igeo.ufri.br, Telefone: +55 21 2270-7773, +55 21 3938-9535. Av. Athos da Silveira Ramos, 274. Cidade Universitária. Rio de Janeiro, RJ, Brasil. Prédio do CCMN, Bloco I, Sala 20. CEP 21941-916

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

O Departamento de Geografia é um centro de excelência em ensino e pesquisa geográfica no Brasil. O Departamento oferece cursos de graduação (licenciatura e bacharelado) e o Programa de Pós-graduação (mestrado e doutorado), além de cursos de extensão de curta duração. Possui 16 laboratórios, núcleos e grupos de pesquisa onde seus professores desenvolvem trabalhos juntamente com os alunos, nas seguintes linhas de pesquisa: Cultura, Informação e Cidadania; Ambiente e Território; Espaço e Dinâmicas Urbano-Regionais; Geopolítica e Territorialidade; Dinâmica Hidro Climática; Geoprocessamento; Interações Geoecológicas e Biodiversidade; Processos Geomorfológicos, Evolução da Paisagem e Ensino de Geografia. Integra o Instituto de Geociências (IGEO), que por sua vez faz parte do Centro de Ciências da Matemática e da Natureza (CCMN).

PROFESSORES:

Ana Luiza Coelho Netto
Ana Maria de Souza Mello Bicalho
Ana Maria Lima Daou
André de Souza Avelar
Antônio José Teixeira Guerra
Antônio Paulo de Faria

Carla Bernadete Madureira Cruz
 Claudio Egler
 Dieter Muehe
 Eduardo José Pereira Maia
 Elizabeth Maria Feitosa da Rocha de Souza
 Eve-Anne Buhler
 Flavia Moraes Lins de Barros
 Frédéric Monié
 Gisela Aquino Pires do Rio
 Gislene Aparecida dos Santos
 Iná Elias de Castro
 Jorge Xavier da Silva
 Josilda Rodrigues da S. Moura
 Julia Adão Bernardes
 Letícia Parente Ribeiro
 Lia Osorio Machado
 Manoel do Couto Fernandes
 Marcelo Lopes de Souza
 Maria Náise de Oliveira Peixoto
 Maria Célia Nunes Coelho
 Mônica dos Santos Marçal
 Nelson Ferreira Fernandes
 Olga Becker
 Paulo César da Costa Gomes
 Paulo Márcio Leal de Menezes
 Paulo Pereira Gusmão
 Rafael Silva de Barros
 Rafael Winter Ribeiro
 Rebeca Steiman
 Ricardo Gonçalves Cesar
 Roberto Lobato Corrêa
 Scott William Hoefle
 Telma Mendes da Silva
 William Ribeiro da Silva

UNIVERSIDADE LUTERANA DO BRASIL

CURSO DE GEOGRAFIA

FUNDADO: 16/08/1972

PROGRAMAS: Licenciatura

URL PROGRAMA ON-LINE: Matriz Curricular

Licenciatura - <http://www.ulbra.br/geografia/files/matriz-curricular-geografia-licenciatura.pdf>

Ementas Licenciatura -

<http://www.ulbra.br/geografia/files/ementa-geografia-licenciatura.pdf>

Pós-Graduação -

http://200.196.73.100/modulos/principal/curso_site.php?id=95

CONTATO PROGRAMA DE POS GRADUACAO: Rafael

Lacerda Martins, dirgeografia@ulbra.br

POS GRADUACAO OUTORGADO ANUALMENTE: 10

SITE DA INTERNET: <http://www.ulbra.br/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Dakir Larara Machado da Silva, Coordenado de Atividades, Canoas, Rio Grande do Sul, Brasil, Telefone: +55 51 3477.9101, Fax: +55 51 3477.1313, dirgeografia@ulbra.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: O projeto pedagógico do curso consiste em proporcionar uma formação profissional a todos que buscam formas para conquistar os novos desafios sociais. Nesta perspectiva, o curso atua como centro de um estudo que promove atividades de ensino articuladas com pesquisa e

extensão, a formação de profissionais voltados ao diálogo entre as culturas e a inserção efetiva em seu espaço. Este projeto está inserido no atual contexto do meio técnico-científico-informacional, caracterizado pela pós-modernidade, pela globalização da economia e da comunicação, pelo pluralismo político e pela emergência do poder local que está ancorado na autonomia pedagógica e na sua singularidade regional/global. Seu planejamento está em contínuo processo de construção, de forma a adequar as diferentes realidades e planos de estudo. O projeto pedagógico tem uma função articuladora, identificadora, retroalimentadora e ética. E, finalmente, uma função política, enquanto coloca o exercício da educação como algo comprometido com a qualidade de vida da sociedade, seja pela prática profissional, seja pelo exercício consciente da cidadania. O curso de Geografia, fundamentado na missão institucional procura compreender o espaço geográfico de forma dinâmica e totalizante nas suas contradições e desigualdades socioespaciais, visando o conhecimento dialético permanente entre a teoria e a prática. O curso oferece laboratórios que buscam realizar atividades práticas importantes no ensino e aprendizagem, evidenciado por diferentes disciplinas. Nos laboratórios são desenvolvidas atividades de pesquisa, junto aos professores-pesquisadores, contribuindo em metodologias do curso e áreas afins, além de atividades de desenvolvimento teórico-metodológico na área de cartografia e geoprocessamento e de ensino em Geografia. As atividades listadas a seguir dimensionam o trabalho prático e o referencial teórico incorporado no âmbito da estrutura do curso. Pode-se citar como exemplos a elaboração de mapas temáticos com contextos nas áreas ambiental e territorial; elaboração e construção de métodos de representação cartográfica, junto a pesquisadores e alunos do curso de Geografia; auxílio na elaboração de maquetes; preparação de materiais para saída de campo, como cartas imagem e topográficas e empréstimo de aparelhos de GPS; elaboração e edição de pôster (painel) referentes aos diferentes projetos de pesquisa e atividades de disciplinas desenvolvidos no curso de Geografia para divulgação em eventos científicos; procedimentos de elaboração de dados espaciais, como a digitalização de informações cartográficas e edição de informações geográficas para uso na análise, recursos didáticos e no trabalho das disciplinas do curso. Cabe salientar que os laboratórios de informática e geoprocessamento contam com o uso computacional, através de diferentes softwares específicos para a cartografia digital, sendo um excelente meio e uma inovadora ferramenta de trabalho para a representação cartográfica e análise geográfica.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO,

AJUDA FINANCEIRA: O curso de licenciatura em Geografia tem a duração mínima de sete semestres, devendo ser integralizado com uma carga horária total de 2.852 horas/aula. A matrícula no curso é efetivada por disciplina, observadas as compatibilidades de horários e limites mínimos e máximos de créditos estabelecidos, conforme calendário escolar dos demais cursos da Universidade. A conclusão do currículo pleno, tal como reconhecido pelo MEC (Ministério da Educação e Cultura), habilita o acadêmico à obtenção do diploma de licenciado em Geografia.

PROFESSORES:

Dakir Larara Machado Da Silva, Bacharel em Geografia pela UFRGS, Doutor em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/9920745735869437>

Heloisa Gaudie Ley Lindau, Licenciada e bacharel em Geografia pela UFRGS, Doutora em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/5285221106348139>

Jussara Alves Pinheiro Sommer, Licenciada em Geografia pela ULBRA, Mestre em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/4342692596958448>

Rafael Lacerda Martins, Bacharel em Geografia pela UFRGS, Mestre em Geografia/UFRGS, Currículo Lattes: <http://lattes.cnpq.br/7154902396000406>

Walter Otmar Steyer Geógrafo formado pela USP, Mestre em História pela Unisinos, Currículo Lattes: <http://lattes.cnpq.br/9310592827019046>

Paulo Cesar Pereira das Neves, Possui graduação em Geologia pela Universidade do Vale do Rio dos Sinos (1986), mestrado em Geociências pela Universidade Federal do Rio Grande do Sul (1992), e doutorado em Geociências pela Universidade Federal do Rio Grande do Sul (1998)

UNIVERSIDADE REGIONAL DO CARIRI (URCA)

DEPARTAMENTO DE GEOCIÊNCIAS

DATA FOUNDED: March 3rd, 1964

DEGREE OFFERED: Licenciatura (geography education)

GRANTED: average of 30 “licenciados” per semester

STUDENTS IN RESIDENCE: about 600 (80 new students per semester)

CHAIR: João Ludgero Sobreira Neto (Chefe do Departamento)

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Tarcisia Pajeu

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Departamento de Geociências, Universidade Regional do Cariri (URCA), Rua Coronel Antonio Luis 1161, 63105-000 Crato, CE, Brazil. Tel. 0055-88-3102.1212 extension 2786, e-mail: geocrato@yahoo.com.br; university website: <http://www.urca.br>; main publication: Cadernos de Cultura e Ciencia (<http://cadernos.urca.br>).

PROGRAMS AND RESEARCH FACILITIES: The Cariri region is a hotspot for research in popular culture, art and religion and can be considered one of the most important paleontological sites in the world due to the extraordinary quality of the fossils found in the Mesozoic limestone layers. For this reason, the faculty maintains close contacts with neighboring departments such as biology, history and social sciences, and is looking forward to establishing international research projects. Program objectives within the department include (1) the study of erosion processes and soil preservation, (2) regional studies, (3) geographic education. Areas of special strength are a)geomorphology, b)environmental zoning, c) geology, d)hydrology, e)geographic education, f)urban violence g)cartography, h) cultural geography, i)cinema and visual culture, j)human-environment interaction, k)landless movement and agrarian reform.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system (spring and fall only). Admission Requirements: Secondary School Certificate; written admission exam (vestibular) about general and specific knowledge twice a year.

FACULTY:

Alexsandra de Oliveira Magalhaes, MSc in Geography, Fortaleza (UFC), 2006, Assistant Professor — environmental zoning, geocology, biodynamics

Ana Roberta Duarte Pianco, MSc in Geography, Recife (UFPE), 1998, Assistant Professor — agricultural geography, agrarian reform, landless movement (MST), geography teaching

Antônia Carlos da Silva, MSc in Geography, Fortaleza (UECE), 2000, Assistant Professor — geographic education

Emerson Ribeiro, PhD in Geography, São Paulo (USP), 2013, Assistant Professor — geographic education, artistic installations, teacher training

Firminiana Santos Fonseca Siebra, MSc in Regional Development, Crato (URCA), 2002, Assistant Professor — urban geography, regional geography, economic geography

Francisco das Chagas Sousa da Costa, MSc in Geochemistry, Salvador (UFBA), 1999, Associate Professor — geomorphology and environment, ecological zoning

Francisco Marcelo Bezerra de Almeida, Specialist in Geography, Crato (URCA) — Geographic thought, population geography

Glauco Vieira Fernandes, MSc in Geography, Fortaleza (UECE), 2001, Associate Professor — geography teaching; geography and cinema, visual methods

Ivan da Silva Queiroz, PhD in Urban Planning, Recife (UFPE), 2013, Associate Professor — urban geography, urban violence

João Cesar Abreu de Oliveira, PhD in Education, Fortaleza (UFC), 2008, Associate Professor — agricultural geography, social movements, urban environments

João Ludgero Sobreira Neto, Specialist in geopolitics and environmental law; Assistant Professor — agricultural geography, population geography, environmental geography

Jörn Seemann, PhD in Geography, Louisiana State University, 2010, Associate Professor — cultural geography, maps and society, culture history, history of cartographic and geographic thought, cartographic education

Josier Ferreira da Silva, PhD in Brazilian Education, Fortaleza (UFC), 2009, Associate Professor — territorial formation, geographical and historical processes, history of education, human-environment interaction

Juliana Maria Oliveira Silva, PhD in Geography, Fortaleza (UFC), 2013 — climatology; hidrology; watershed management.

Lireida Maria Albuquerque Bezerra, MSc in Geography, Fortaleza (UFC), 2013, Assistant Professor — urban geography, environmental geography

Maria de Lourdes Carvalho Neto, Msc in Geography, Fortaleza (UFC), 2007, Assistant Professor — environmental geography, geomorphology, GIS

Maria Soares da Cunha, MSc in Geography, Recife (UFPE), 1998, Associate Professor — agricultural geography, geography teaching, regional geography

Ricardo Mota Bacurau, Specialist, Fortaleza (UFC), Associate Professor — industrial geography, regional development

Rogério Wayne Noronha, Specialist, Fortaleza (UFC), Associate Professor — climatology

Simone Cardoso Ribeiro, PhD in Geography, Rio de Janeiro (UFRJ), 2012, Associate Professor — ethnogeomorphology, environmental analysis, erosion processes and conservation, applied geomorphology and soil science

EMERITUS FACULTY:

Alvimir Alves de Oliveira, PhD in Geology, Recife (UFPE), 2006, Associate Professor — geology

Edith Oliveira de Menezes, MSc in Geography, São Paulo (USP), 1998 — urban geography

UNIVERSIDADE REGIONAL DO NOROESTE DO ESTADO DO RIO GRANDE DO SUL

DEPARTAMENTO DE HUMANIDADES E EDUCAÇÃO
FUNDADO: 16/03/1956

PROGRAMAS: Licenciatura, Licenciatura (à Distância/Virtuais)

URL PROGRAM ON-LINE:

<http://www1.unijui.edu.br/cursos/graduacao/ead-ensino-a-distancia/geografia-ead-licenciatura>

SITE DA INTERNET: www.unijui.edu.br

CONTATO PARA MAIS INFORMAÇÕES: MARIO AMARILDO ATTUATI, COORDENADOR DO CURSO DE

GEOGRAFIA, ESTADO DO RIO GRANDE DO SUL, BRASIL,
Telefone: 55 3332 0200, Fax: 55 3332 0256, attuati@unijui.edu.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA: A UNIJUI matém programas e projetos de pesquisa e extensão por meio dos quais desenvolve intensa interação com a comunidade regional. A Geografia está alocada no Departamento de Humanidades e Educação, que conjuntamente com outras áreas do conhecimento desenvolve ações nas áreas de planejamento urbano, meio ambiente e formação continuada de professores para a Educação Básica. Estas atividades são organizadas e executadas com o apoio da estrutura da Universidade e mais especificamente dos laboratórios de Geoprocessamento e Análise Territorial, Recursos Hídricos e Ensino de Ciências Sociais. O curso de Geografia - licenciatura plena atualmente é oferecido na modalidade de educação à distância (EaD). Os alunos tem acesso a material impresso e recebem atendimento via ambiente virtual "CONECTA - UNIJUI". Demais informações podem ser obtidas através do site www.unijui.edu.br.

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: OBJETIVO: o curso de Geografia - licenciatura, pretende formar profissionais para atuar na educação básica, no componente curricular específico - Geografia, com formação intelectual adequada à contribuição que a geografia pode dar para o conhecimento e interpretação do mundo, no sentido de formar cidadãos que tenham uma visão da realidade capaz de os situar na dinâmica atual e perceber os caminhos possíveis para tornar o mundo mais justo e humano. **ORGANIZAÇÃO CURRICULAR:** para concretizar a proposta político-pedagógica organizou-se uma estrutura curricular e uma sequência semestral das atividades acadêmicas, bem como parâmetros para o processo ensino-aprendizagem, tendo em vista o perfil do profissional da Geografia formado pela UNIJUI. Estabeleceu-se a participação das diversas áreas na formação do profissional da Geografia, os eixos de interseção das mesmas com a ciência geográfica, ao longo do curso, bem como a sequência pedagógica recomendada. O currículo foi estruturado em nove conjuntos de componentes curriculares que traduzem a proposta político-pedagógica do curso de Geografia. Constitui-se de componentes curriculares que tratam da formação humanística e da formação acadêmico-profissionalizante, visando atender as orientações gerais presentes na proposta de Diretrizes Curriculares Nacionais previstas para a graduação em Geografia, bem como às Diretrizes Institucionais do Ensino na UNIJUI e de sua operacionalização nos termos das Resoluções CONSU n.º 21/2005 e 29/2005. Os componentes curriculares da formação humanística desenvolvem a reflexão sobre a condição humana e a cidadania, construindo a identidade deste programa de ensino e do acadêmico de Geografia com a Universidade. Os componentes curriculares da formação acadêmico-profissionalizante desenvolvem as "dimensões teórico-prática, técnico-científica e humanística" necessárias à formação inicial do profissional da Geografia. Estão distribuídos nos conjuntos, a saber: Fundamentos de Geociências; Fundamentos de Ciências Sociais; Instrumentalização em Geografia; Interação Profissional; Teoria, Método e Análise Geográfica; Práticas Geográficas; Formação Pedagógica e Opções Livres. Cada conjunto contempla uma parte de conteúdos essenciais para a aquisição do conhecimento geográfico, o conhecimento geográfico em si e, ainda, a educação geográfica ou o reconhecimento do mundo do trabalho. A proposta curricular prevê o atendimento de especificidades voltadas à formação de professores através de um conjunto de componentes curriculares que trata da investigação voltada para a educação geográfica. O conjunto que trata da interação profissional deve adequar-se as práticas pedagógicas necessárias ao processo de formação inicial do profissional da Geografia. OBS: sobre requisitos de admissão e ajuda financeira consultar www.unijui.edu.br

PROFESSORES:

Bernadete Maria de Azambuja — mestre em Geografia, UFSC
Geografia, Urbana

Célia Clarice Atkinson — mestre em Geografia, UFSC, Geografia Urbana

Dóris Ketzner Montardo — mestre em Geologia, UFRGS, Geociências
Helena Copetti Callai — doutora em Geografia, USP, Ensino de Geografia

Leonardo Dirceu de Azambuja — doutor em Geografia, UFSC, Ensino de Geografia

Mário Amárico Attuati — mestre em Geografia, UFSC, Geocologia /Cartografia O corpo docente do curso conta também com a contribuição de professores das áreas de Economia, Pedagogia, História, Matemática, Sociologia e Psicologia

CHILE

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

INSTITUTO DE GEOGRAFÍA

DEGREES OFFERED: Bachiller - Licenciatura en

Geografía, Título profesional de Geógrafo, Diplomado, Magíster y Doctorado

POINT OF CONTACT: Dr. Federico Arenas, Profesor –
Director, (56) 2-6864716

WEB SITE: www.geografia.uc.cl

FOR CATALOG AND FURTHER INFORMATION WRITE TO /DIRECCION INSTITUTO DE GEOGRAFIA: Av. Vicuña Mackenna 4860, Casilla 306-Correo 22, Código Postal 6904411, Comuna de Macul, Santiago, Chile. Teléfono (56) 2-354 4716 - Fax: (56) 2-552 6028.

PROGRAMS AND RESEARCH FACILITIES: Los académicos del Instituto desarrollan una serie de proyectos de investigación, dentro de las líneas de: Ordenación territorial; evaluación y estudios de impacto ambiental; catastro y evaluación de recursos naturales con aplicaciones específicas en el litoral; estudios de riesgos naturales y su modelación (tsunami); estudios de caracterización socioeconómica de la población; estudios del medio ambiente urbano; estudios urbanos relativos a vivienda social y gobernanza metropolitana; aprovechamiento de neblinas como recurso hidrológico; ecosistemas de niebla y educación ambiental como línea de investigación aplicada a la docencia. Además, como línea complementaria a todos los proyectos de investigación en nuestro Instituto, se destaca el uso y manejo de tecnologías geomáticas, representadas por Sistemas de Información Geográfica (SIG), Sistemas de Posicionamiento Global (GPS) y Percepción Remota. Estos proyectos son financiados por DIPUC, FONDECYT, Centre de Recherches pour le Développement International (IDRC), y Supply and Services, de Canadá.

ACADEMIC PROGRAMS, ADMISSION REQUIREMENTS AND FINANCIAL AID:

Pregrado: Bachiller - Licenciatura en Geografía y título profesional de Geógrafo. El Geógrafo de la UC es un profesional especializado en el conocimiento de las interrelaciones del hombre con su medio ambiente natural, capacitado para desempeñarse en actividades de investigación, planificación, desarrollo y administración del espacio geográfico, en beneficio de la sociedad. Entre las asignaturas están: Geografía Física General, Climatología, Geomorfología Estructural, Geografía Regional del Mundo. Algunos Cursos que permiten la obtención del Título de Geógrafo son: Desarrollo Urbano, Planificación Territorial, Medio Ambiente y Desarrollo Sustentable. A partir del tercer semestre se desarrollan, además, prácticas en terreno.

Diplomado: a) Sistemas de Información Geográfica, b) Geomática y c) Reducción del Riesgo de Desastres: prevención y gestión. Programas de especialización orientados a profesionales que desean mantenerse al día en los conocimientos, habilidades y destrezas que caracterizan a su actividad o bien quieren extender su conocimiento hacia áreas complementarias, o acceder al manejo de nuevos procedimientos o tecnologías.

Magíster: Magíster en Geografía y Geomática. Los contenidos de este Magíster se sitúan en el cruce de los métodos y técnicas de las líneas de investigación del Instituto de Geografía de la UC, el uso de la geomática y problemas geográficos específicos derivados de la acción humana en la superficie terrestre. El objetivo general es conocer y aplicar métodos, técnicas y tecnologías basados en la geomática y que se utilizan en la investigación geográfica para la solución de problemas que tienen que ver con el uso del territorio, desde una visión que compatibilice las potencialidades y restricciones físico-naturales con las diversas actividades humanas.

Doctorado: tiene como objetivo formar investigadores y docentes, para desempeñarse en instituciones universitarias y equivalentes; así como profesionales de alto nivel académico y con capacidad crítica, que logren ser un aporte a la sociedad actual, tanto en el sector público como privado, a través de la investigación, comprensión y solución de problemas claves, que tengan relación con la ocupación humana sobre la superficie terrestre. Sus áreas de investigación son: Metropolización y geografía urbana, Periurbanización y geografía rural, Biogeografía, cambio climático y estudios del cuaternario, Riesgos naturales, Geomorfología y espacio litoral y Geografía histórica, espacio y territorio.

PUBLICACIONES: Revista de Geografía Norte Grande, Serie GEOlibros.

FACULTY:

ARENAS VÁSQUEZ, FEDERICO — Doctor en Ciencias Económicas y Sociales, de la Universidad de Ginebra y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Planificación urbana y regional y Ordenamiento territorial. Profesor Titular

ASTABURUAGA, JUAN PABLO — Magíster en Geografía y Geomática y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: ordenamiento territorial y Sistemas de Información Geográfica. Profesor Asistente Adjunto.

CARVACHO BART, LUIS — Doctor Universidad de Alcalá de Henares, España. Geógrafo, Licenciado en Geografía, P.U.C.Ch. Área de investigación: SIG, Geomática. Profesor Asociado.

DEL RÍO LÓPEZ, CAMILO — Magíster en Geografía y Geomática y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Percepción Remota, Geomática. Profesor Asistente Adjunto

GARCÍA, JUAN LUIS — Doctor en Ciencias de la Tierra, University of Maine, Estados Unidos, y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Cambios climáticos del Cuaternario, geomorfología y geología glacial. Profesor Asistente.

GONZÁLEZ LEIVA, JOSÉ IGNACIO — Doctor en Geografía de la Universidad de Barcelona, España. Área de investigación: Cartografía, Geografía matemática y Geografía electoral. Profesor Titular.

HENRÍQUEZ RUÍZ, CRISTIÁN — Doctor en Ciencias Ambientales (EULA) y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Impacto ambiental, planificación territorial, geomática y ecología urbana. Profesor Asociado.

HIDALGO DATTWYLER, RODRIGO — Doctor en Geografía humana con mención en Pensamiento Geográfico y Organización del Territorio de la Universidad de Barcelona, España. Área de investigación: Geografía humana, estudios sociales, urbanos y planificación territorial. Profesor Titular.

LAGOS LÓPEZ, MARCELO — Doctor en Ciencias Ambientales de la Universidad de Concepción y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía física, medio ambiente, riesgos naturales y geomática. Profesor Asociado

LAMBERT, FABRICE — Doctor en física climática de la University of Bern, Suiza. Magíster en Física experimental, University of Bern, Suiza. Área de investigación: Paleoclimatología, Aerosoles, Contaminación Urbana. Profesor Asistente.

LOZANO PARRA, JAVIER — Doctor en Geografía Física por la Universidad de Extremadura (España). Máster en Sistemas de Información Geográfica y Teledetección por la Universidad de Gerona (España). Área de investigación: Ecohidrología; Hidrología; Modelización ecohidrológica; Sistemas de Información Geográfica; Geografía física. Profesor Asistente.

MARTINEZ REYES, CAROLINA — Doctora por la Universidad de Barcelona (España), Magíster en Geografía por la Universidad de Chile y Geógrafo por la Universidad de Playa Ancha. Área de investigación: Evolución costera, Geomorfología y morfodinámica de ambientes costeros, Riesgos Naturales en la costa, Manejo costero. Profesor Asistente.

NARANJO RAMÍREZ, GLORIA — Magíster en Asentamientos Humanos y Medio Ambiente y Geógrafo de la Pontificia Universidad Católica de Chile. Cursando Programa de Doctorado en Arquitectura y Estudios Urbanos de la Facultad de Arquitectura, Diseño y Estudios Urbanos de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía humana, rural, agraria, medio ambiente y ordenamiento territorial. Profesora Asistente.

NUÑEZ, ANDRES — Doctor en Historia de la Pontificia Universidad Católica de Chile y posdoctorado en Geografía en la misma casa de estudios. Área de investigación: Geografía Social, Geografía Cultural y Geografía Histórica. Profesor Asistente.

OSSES McINTYRE, PABLO — Magíster en Economía Agraria y Geógrafo de la Pontificia Universidad Católica de Chile. Áreas de investigación: Geografía Física, Medio Ambiente, Economía y Territorio. Profesor Asociado.

PAULSEN BILBAO, ABRAHAM — Geógrafo, Pontificia Universidad Católica de Chile. Candidato a Doctor en Territorio, Sociedad y Medioambiente de la Universidad Autónoma de Madrid (UAM). Suficiencia investigativa en Psicología Educacional de la Universidad Autónoma de Madrid (UAM). Profesor Asistente

PLISCOFF, PATRICIO — Doctor en Ciencias de la Vida, Université de Lausanne, Suiza, Magíster en Ciencias Biológicas, Universidad de Chile y Geógrafo de la Pontificia Universidad Católica de Chile. Área de Investigación: Biogeografía, Ecología, Bioclimatología, Biología de la Conservación. Profesor Asistente, Interdisciplinario (Instituto de Geografía, Facultad de Historia, Geografía y Ciencia Política, y Departamento de Ecología, Facultad de Ciencias Biológicas).

QÜENSE ABARZUA, JORGE — Geógrafo de la Pontificia Universidad Católica de Chile. Doctor en Medioambiente de la Universidad Joseph Fourier de Grenoble, Francia. Área de investigación: geomática, ordenamiento territorial, Geografía de la montaña. Profesor Asistente.

REHNER, JOHANNES — Geógrafo, doctorado (Dr. oec. publ.) de la Ludwig-Maximilians-Universität München (LMU), Alemania. Áreas de investigación: geografía económica y urbana, estudios asiáticos y geografía cultural. Profesor Asociado.

SALAZAR BURROWS, ALEJANDRO — Doctor en Ciencias Sociales del Institut National Agronomique Paris-Grignon (INA P-G), Francia y Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía humana, rural, espacios periurbanos y ordenamiento territorial. Profesor Asociado.

SAGREDO, ESTEBAN — Doctor en Geología, University of Cincinnati, Estados Unidos. Magíster en Ciencias (Ecología y Biología Evolutiva), Universidad de Chile. Geógrafo, Pontificia Universidad Católica de Chile. Área de Investigación: (1) Fluctuaciones glaciales en Sudamérica desde el Último Máximo Glacial; (2) Sensibilidad glacial a cambios climáticos; (3) Paleoclimatología. Profesor Asistente.

SÁNCHEZ MARTÍNEZ, MARCELA — Doctora en Filosofía y Letras, sección Geografía, Programa de Cartografía, Sistemas de Información Geográfica y Teledetección, Universidad de Alcalá de Henares, España. Geógrafo de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía física y geomática. Profesor Asociado.

SÁNCHEZ ACUÑA, RAFAEL — Doctor en Geografía, Universidad de Innsbruck (Austria). Geógrafo y Licenciado en Historia de la Pontificia Universidad Católica de Chile. Área de investigación: Geografía Humana, Geografía urbana y Geografía del Turismo. Profesor Asistente.

UNIVERSIDAD ACADEMIA DE HUMANISMO CRISTIANO

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: 1975

PROGRAMAS DE ESTUDIO: Grado asociado/técnico,
Licenciatura, Maestría

CONTACTO PARA PROGRAMA DE PREGRADO: Dra.

Macarena Barahona Jonas mbarahona@academia.cl

LICENCIATURAS OTORGADAS ANUALMENTE: 10

CENTROS DE INVESTIGACION: Programa de
Investigaciones e Intervenciones Territoriales (PIIT)

SITIO WEB: www.geoacademia.cl

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Macarena Barahona Jonas, Jefa de Carrera y Directora de la Escuela de Geografía. Santiago, Chile, Teléfono: 56-2-27878316, Fax: 56-2-7878213, mbarahona@academia.cl

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Geografía al servicio de la Transformación Social. Este proyecto aporta a la sociedad con especialistas en la comprensión e interpretación de los fenómenos espaciales, cuyo sello es el compromiso con la resolución de problemáticas sociales. Responde así, al vertiginoso desarrollo de la disciplina geográfica en distintos lugares del mundo, al ascenso del discurso espacial como una dimensión estructurante de los procesos sociales, al desarrollo desigual del territorio que ha generado el capitalismo y al estancamiento teórico-metodológico del quehacer geográfico chileno. La carrera de Geografía se estructura sobre principios humanistas y se orienta tanto al desarrollo de profesionales de alto nivel, investigadores e interventores de los procesos de producción de espacio geográfico, como a especialistas en la reconstitución de las relaciones ser humano-medio y/o sociedad-naturaleza. Se propone un itinerario formativo que permite la rearticulación y recomposición del mundo de la vida, desde la comprensión profunda de los procesos físico-naturales y humano-sociales, con énfasis en procedimientos de investigación e intervención social. El currículum formativo dialoga con las miradas clásicas y se abre a nuevas apuestas teóricas como las críticas, postcríticas, deconstruccionistas, humanísticas, de estudios subalternos y de estudios postcoloniales, casi ausentes en la formación de geógrafos en Chile. Al mismo tiempo, la apuesta formativa se estructura sobre la base de un ingreso progresivo de nuestros estudiantes a los centros de prácticas desde el primer año, teniendo como modelo, la inclusión profesional temprana, potenciando la reflexión crítica en acción y la posibilidad de tensionar el desarrollo

del conocimiento profesional del Geógrafo. En este contexto se han desarrollado tres líneas de investigación que responden a tres campos problemáticos del espacio que se intenta estudiar, comprender y transformar: 1-Existe una necesidad creciente de profundizar en los procesos físico-naturales que estructuran y dinamizan los espacios geográficos. Estos procesos van configurando y en cierta medida, moldeando las formas de organización social y cultural que los grupos humanos tienen. En este sentido, los ambientes que pueden ser considerados como “de primera naturaleza” han sido sometidos a fuertes e incesantes acciones antrópicas poniendo en jaque los precarios equilibrios físicos, químicos y biológicos y conformando situaciones de extrema fragilidad, vulnerabilidad y peligrosidad. La re-constitución de los sitios de riesgo, que deviene de un uso “poco adecuado” del territorio por parte de los grupos humanos, requiere del estudio acabado de los sistemas morfológicos, hidrográficos, biogeográficos, oceanográficos, pedológicos y climatológicos. Con ello, se ha considerado prioritario el establecimiento de una línea de investigación que pueda aglutinar los esfuerzos de académicos que intentan por variadas vías metodológicas, estudiar los distintos ambientes físicos de nuestro país y su relación con la conformación de situaciones de riesgo. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI y con colaboración de equipos nacionales e internacionales. 2-El ascenso de la diferencia, la rotura del pensamiento parametral y la incorporación de la subalternidad en los estudios sobre la ciudad y sobre el campo, han permitido dotar a la Geografía, de nuevas perspectivas de análisis en el estudio de los circuitos de vida urbano-rural. En este sentido el papel del sujeto que se proyecta en el espacio y que corporiza los procesos de acumulación y movilidad de capital, es trascendental para comprender las problemáticas sociales y las tensiones propias de la alta modernidad. En este escenario surge la posibilidad de instalar una plataforma investigacional que se ha centrado en los conflictos urbanos y rurales propios del encuentro multicultural en contexto de capitalismo tardío. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI, como de financiamiento nacional FONDECYT, con colaboración de equipos nacionales e internacionales. 3-Esta línea condensa el trabajo realizado en temáticas relacionadas con la enseñanza y el aprendizaje de la Geografía en contextos educativos diferenciados. Pone énfasis en la necesidad de indagación de los espacios educativos sobre los cuales se ejecuta la acción pedagógica y valoriza de modo especial la forma en la que el contenido espacial contribuye al encuentro de actores educativos. En este sentido, se trabaja con perspectivas teóricas que permiten, tanto densificar el debate sobre la educación geográfica, como colocar al centro la idea de una enseñanza que transforma las condiciones materiales de existencia de los sujetos que participan del acto educativo. Se intenta develar estructuras de dominación, exclusión y subordinación, y se explora en los mecanismos de cambio e innovación que son posibles de ser pensados-y concretados, en el mundo escolar. En esta línea actualmente se desarrollan proyectos de investigación regulares de financiamiento interno NTI, como de financiamiento nacional FONDECYT, con colaboración de equipos nacionales e internacionales. Todas estas producciones se colocan al servicio de las actividades académicas regulares que tienen impacto en la vinculación de la unidad académica con el medio. Especial importancia tiene: el Seminario de Resistencias Territoriales (con nueve versiones al año 2014), el Ciclo sobre Geografía y Debate Teórico Contemporáneo (nueve versiones al año 2014) y el Ciclo de Conferencias sobre la Naturaleza del Espacio (diez versiones al año 2014). Del mismo modo el proyecto IPES Intervención+Posibilidad+Espacio (con tres versiones al año 2014) fortalece el vínculo específico con las instituciones que participan del ingreso temprano al campo profesional de nuestros estudiantes (ONG's, Consultoras, Departamentos Ministeriales, Departamentos Municipales, Fundaciones, etc.)

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El Plan Formativo está compuesto de tres subcomponentes curriculares: Plan General Universitario (orientado al

desarrollo de desempeños en la "actuación profesional CRÍTICA"), Plan Común de Área (orientado al desarrollo de desempeños comunes al campo de las ciencias sociales) y Plan de Especialidad (orientado al desarrollo de desempeños en las líneas de formación disciplinar: eje humano-social; eje físico-natural, eje de integración teórico-práctica). La duración del plan es de 5 años. Al cuarto año y luego de haber completado tanto la totalidad de los créditos como la defensa del Seminario de Grado, el estudiante recibe el grado de Licenciado en Geografía. Al quinto año, si completa los créditos complementarios de cursos profesionalizantes y aprueba la defensa de los resultados de su práctica, el estudiante recibe el título profesional de Geógrafo. En detalle, el perfil de egreso se estructura en torno a desempeños que se detallan a continuación: Desempeños de orden actitudinal esperados al final del proceso formativo * Propiciar la explicitación de la subjetividad espacial como mecanismo de entrada a la comprensión de los fenómenos territoriales, paisajísticos, geosistémicos, ambientales, regionales y lugarizados. * Promover la educación geográfica como pilar fundamental de la conciencia espacial de los sujetos a través de estrategias formales de enseñanza que promuevan aprendizajes situados y contextualizados de los contenidos curriculares. * Asignar relevancia a las instancias de encuentro pluridisciplinar como mecanismo de acción colectiva sobre los espacios. Desempeños de orden conceptual esperados al final del proceso formativo * Manejar contenidos conceptuales referidos al campo de la estructuración física y humana del espacio geográfico con la finalidad de ponerlos al servicio de las investigaciones e intervenciones sobre lo social. * Reflexionar sobre la producción de discurso geográfico como primera fuente de acción espacial, movilizando creencias epistemológicas que permitan la comprensión y/o explicación diagnóstica de los espacios geográficos (en sus dimensiones territoriales, paisajísticas, geosistémicas, ambientales, regionales y lugarizadas). * Construir un espacio interrelacional entre los procesos de estructuración física y los procesos de estructuración humana en perspectivas multiescalares y con la finalidad de resolver tensiones entre el mundo objetivo y el subjetivo. * Comprender cómo los procesos de integración, polarización y diferenciación de las relaciones ser humano-medio actúan como dispositivos para dotar a los espacios de una cierta localización y distribución. Desempeño de orden procedimental esperados al final del proceso formativo. * Diseñar e implementar acciones de intervención e investigación espacial que permitan movilizar contenidos, teorías y metodologías tanto del campo de las Ciencias Sociales como aquellas propiamente geográficas en situaciones de problemáticas y tensiones socio-espaciales. * Diseñar e implementar acciones tendientes a la innovación de los campos de intervención e investigación, estableciendo sinergias entre diagnósticos y estrategias ya instaladas en torno a problemáticas y tensiones socio-espaciales. * Promover la instalación del trabajo de campo como instancia de sinergia entre técnicas al servicio de la investigación y la intervención espacial.

PROFESORADO:

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Alejandra Mora Soto, Geógrafa, Universidad de Chile. Diplomada en Geomática Aplicada, Universidad de Chile. Master en Ciencias en Monitoreo, Modelamiento y Manejo Ambiental, Universidad King's College London, Reino Unido.

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Francisca Pérez, Antropóloga y Licenciada en Antropología, Universidad Academia de Humanismo Cristiano. Doctora en Arquitectura y Estudios urbanos, Pontificia Universidad Católica de Chile.

Mauricio Calderón Sánchez, Ingeniero Agrónomo Universidad de Chile, Magister en Ciencias Agropecuarias Mención en Producción de Cultivos

UNIVERSIDAD CATÓLICA SILVA HENRÍQUEZ

ESCUELA DE EDUCACIÓN EN HISTORIA Y GEOGRAFÍA

FECHA DE FUNDACION: 12 de mayo de 1983

PROGRAMAS DE ESTUDIO: Pedagogía en Historia y Geografía

SITIO WEB: <http://fe.ucsh.cl/escuelas/escuela-de-educacion-en-historia-y-geografia/>, <https://www.facebook.com/historiaygeografiaucsh/>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Patricia Campos pcampos@ucsh.cl

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Los profesores de Historia y Geografía de esta universidad se caracterizan por una mirada transdisciplinaria de los problemas histórico-sociales y por una comprensión del medio geográfico como asiento de la cultura que necesariamente debe protegerse para las futuras generaciones. Se trata de profesionales comprometidos, responsables, con vocación social y que cuentan con las competencias profesionales que se exigen en cada área de formación respectiva.

En la UCSH existe un ambiente de acompañamiento y calidad humana propia de una institución que se hace cargo del legado del Cardenal Raúl Silva Henríquez porque somos una institución acreditada con una reconocida tradición en formación de profesionales sin fines de lucro. Existe un compromiso con la excelencia académica, que se evidencia en su infraestructura en constante proceso de adaptación a las necesidades de los estudiantes, en la presencia de destacados académicos e investigadores que trabajan para la construcción del conocimiento que se transmite.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Los jóvenes interesados en postular a la Universidad Católica Silva Henríquez, deberán rendir la Prueba PSU (Lenguaje, Matemáticas, Ciencias y/o Historia y Ciencias Sociales), y realizar su postulación, en conjunto con las universidades del CRUCH y las privadas adscritas al Sistema Único de Admisión (SUA), en el sitio del DEMRE.

Para continuar con el proceso de postulación a las carreras de pedagogías en la UCSH, deberán cumplir con algunas de las exigencias de la Ley 20.903 para continuar con su proceso de selección universitaria: Haber rendido la PSU y obtener un rendimiento que lo ubique en el percentil 50 o superior en el promedio de las pruebas obligatorias. (Este puntaje fluctúa entre 496, 5 y 500 puntos aproximadamente) O, bien: Tener un promedio de notas de la educación media dentro del 30% superior de su establecimiento.

En el caso de no cumplir con las condiciones mencionadas anteriormente, podrían postular por la vía especial siempre y cuando cumplan con el siguiente requisito: Haber realizado y aprobado un programa de preparación y acceso de estudiantes de enseñanza media para continuar estudios de pedagogía reconocido por el Ministerio de Educación y rendir la Prueba de Selección universitaria PSU.

PROFESORADO:

Natalia Contreras Quiroz, Profesora de Historia y Geografía, Licenciada en Educación, Magíster en Asentamientos Humanos y Medio Ambiente, Máster en Docencia Universitaria

Nelson Infante Fabres, Geógrafo, Doctor en Geografía Paisaje y Medio Ambiente, Magister en Educación con Mención en Gestión Educacional, Máster En Estudios Avanzados, Diplomado en Gestión Económica, Recursos Naturales y Medio Ambiente

Antonia Zambra Álvarez, Geógrafa, Master en Antropología, Medio Ambiente y Desarrollo, Diplomado en Estudios de Género

Camilo Contreras Carvajal, Geógrafo, Magister Planificación y Gestión de Riesgo de Desastres, Diplomado en Docencia Universitaria

UNIVERSIDAD DE CHILE

FACULTAD DE ARQUITECTURA Y URBANISMO

ESCUELA DE GEOGRAFÍA

SANTIAGO DE CHILE

DATE MASTER'S DEGREE CREATED: 1984

DEGREES OFFERED: Licenciatura en Geografía.

Geógrafo, Profesional

DIRECTOR ESCUELA: Dr. Fernando Pino Silva

DIRECTOR DEPARTAMENTO: MSc. María Victoria Soto

PROGRAMS AND RESEARCH FACILITIES: Entre 1889 y 1890, el geógrafo alemán Hans Steffen organizó la enseñanza de la Geografía en la Universidad de Chile, formando las primeras generaciones de profesores y realizando las primeras investigaciones. En esta etapa inicial, la Escuela de Steffen, formado bajo la guía del Dr. Ferdinand von Richthofen de la Universidad de Berlín, marcó el sello de la tradición alemana y de la geografía científica en Chile.

Con centro en el Instituto de Geografía y en el Departamento de Geografía del Instituto Pedagógico de la Universidad de Chile, se desarrolló un vigoroso movimiento de formación, investigación y difusión geográfica que condujo a la creación de centros de docencia e investigación en provincias, a la presencia renovadora del enfoque geográfico en los organismos públicos y de organización territorial, y a la renovación de los contenidos geográficos en la enseñanza básica y media.

Desde inicios de los 80's, la enseñanza impartida por la Escuela y por otra, la investigación en el Departamento, son armonizados con modernos métodos, incorporándose laboratorios, técnicas de teledetección y sistemas computacionales en forma progresiva.

La carrera de Geografía se consolida como tal en la Escuela de Geografía a mediados de la década de 1960, continuando en forma ininterrumpida hasta la fecha.

Grado Académico ofrecido: Licenciatura en Geografía, Magister en Geografía

Título Profesional ofrecido: Geógrafo. El programa de Magíster en Geografía, fue creado en 1984, y acreditado en 2004.

La docencia de postgrado se fundamenta ineludiblemente en la investigación científica y esta última es una actividad dinámica que se complica y enriquece permanentemente con el acceso al conocimiento universal, al ejercicio interdisciplinario y al diseño de nuevos sistemas de generación y análisis de datos e informaciones.

Pocas áreas han experimentado una ampliación tan grande como el conocimiento geográfico durante las últimas décadas, debido en

especial al vertiginoso desarrollo de los sistemas de observación remota del comportamiento de la Tierra, así como a la disponibilidad de cada vez más sofisticados instrumentos para el modelamiento y predicción de escenarios futuros.

Grado Académico ofrecido: Magíster en Geografía, Mención Recursos Territoriales, Mención Organización Urbano Regional

UNIVERSIDAD DE LA SERENA

AREA DE CIENCIAS GEOGRAFICAS

DATE FOUNDED: 1980

GRADUATE PROGRAM FOUNDED: 1995 (Masters)

DEGREES OFFERED: Pedagogy in Geography, Masters in Geography

GRANTED: Bachelors, 260; Masters, 2

STUDENTS: Masters, 12

CHAIR: Dr. Fabián Araya Palacios

MASTER ACADEMIC PROGRAM COORDINATOR:
Dr. Guido Veliz

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Guido Veliz (Graduate Program Coordinator), Area de Ciencias Geográficas, Departamento de Ciencias Sociales, Campus Andres Bello, Colina El Pino s/n. Universidad de La Serena, La Serena, Chile. Phone Number: 56-55-204337, Fax Number: 56-55-204314; e-mail address: gveliz@userena.cl.

PROGRAMS AND RESEARCH FACILITIES: The Area of Geographical Sciences (AGS) offers Geography Programs at Undergraduate (Pedagogy) and Graduate (Master) levels and these Programs provide training in Regional and Systematic Studies. In addition, since Geography shares almost half of its coursework with History students, interdisciplinary work is practiced with field work, adding other social sciences as well. The Department of Social Sciences, where the AGS is housed, aims to strengthening a comprehensive view of Geography, since this discipline has a strong development in regional studies, geographic information systems, environmental and territorial management, sustainable development and geography education. The AGS offers access to a computer laboratory for undergraduate students and a geographical analysis laboratory for graduate students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The AGS receives international students who take courses on a semester basis. Undergraduate students from all over Europe, Asia, Canada and the United States come to the University of La Serena and take courses such as Geography of Latin America and Globalization and World Economics. Also, graduate students visit the AGS and take independent studies and field work for their thesis in the region. Normally, both undergraduate and graduate students attend academic activities in the AGS at ULS as part of their programs in their native universities. For this purpose, any foreign student or group of students and instructors could visit and arrange a special program in the AGS, once they have contacted the International Office at ULS. Admission requirements are based on regular programs conducted in their native countries. Financial assistance is offered to reduce cost of housing and meals.

FACULTY:

Fabian Araya, Doctoral Degree, Universidad de Cuyo, Mendoza, Argentina, 2006, Associate Professor — Geography Education, Curriculum and Assessment, Theory and Method in Geography, Pedagogy and K-12 development

Enrique Novoa, Mg. Universidad de Santiago, Chile, 1996, Associate Professor — Physical Geography, Geomorphology and Hydrology, Land Development, Environmental and Hazards, Geographic Information System

Carmen Varela, Mg. Universidad de Santiago, Chile, 1986, Lecturer — Urban Geography, Territorial Planning, Rural Development.

Guido Veliz, Ph.D. Laval University, Montreal, Canada, 1994, Professor — Urban Geography, History and Philosophy of Geography, Regional Geography and Land Use. Geography of Chile

UNIVERSIDAD DE SANTIAGO DE CHILE

DEPARTAMENTO DE INGENIERÍA GEOGRÁFICA

FECHA DE FUNDACIÓN: Enero 17 de 1958

PROGRAMAS DE ESTUDIO: Licenciatura en Ciencias de la Ingeniería, Título profesional Ingeniero Civil en Geografía

SITIO WEB: <http://www.digeo.cl>

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DEBE ESCRIBIR A: Marcos Medina Tapia, Santiago de Chile, Teléfonos: (56 2) 27182206, (56 2) 27182230, Email: ingenieriacivil.geografica@usach.cl, marcos.medina@usach.cl.

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Con fecha 31 de Diciembre de 1982 se crea la carrera de Ingeniería Civil en la especialidad de Geografía conducente al grado académico de Licenciado en Ciencias de la Ingeniería y título profesional de Ingeniero Civil Geógrafo, mediante decreto N° 1167/1982. La Unidad Académica ofrece tres programas de postgrado. El Magíster en Ambiente en cualquiera de sus dos líneas de investigación: Gestión y Planificación Ambiental del Territorio y Gestión de Recursos Hídricos. El Magíster en Medio Ambiente con mención en Gestión y Ordenamiento Ambiental. Y, por último, el Magíster en Geomática. La infraestructura de laboratorios cuenta con instalaciones y equipos que se utilizan para impartir la enseñanza práctica en las asignaturas que lo requieran y son de uso exclusivo de la Unidad. A continuación, se presenta una descripción de los laboratorios de la Unidad. La Unidad de Instrumentos Topográficos incluye instrumental topográfico y geodésico. La Estación Meteorológica permite la medición, almacenamiento, seguimiento y visualización de variables meteorológicas. El Laboratorio de Procesamiento de Datos Topográficos y Geodésicos permite el procesamiento de datos topográficos y geodésicos. Laboratorio de Geomorfología y Fotointerpretación posibilita la realización de identificaciones e interpretaciones de elementos territoriales geomorfológicos de transformación dinámica. Laboratorio de Fotogrametría cuenta con equipamiento de Fotogrametría análoga y digital que incorpora a este laboratorio en los procesos productivos de la Geomática. El Laboratorio de Cartografía Digital permite la generación de bases cartográficas digitales confiables métricamente. Laboratorio de Sistemas de Información Geográfica está dotado de programas que permiten el trabajo de geoprocésamiento de la información territorial. Laboratorio de Teledetección permite el procesamiento y explotación de la información contenida en imágenes satelitales. El Laboratorio de Modelamiento Ambiental y Territorial está orientado a la modelación y simulación matemática de sistemas territoriales y procesos ambientales. Laboratorio de Procesos Ambientales está capacitado para la realización de tareas de caracterización y diseño de procesos de tratamiento de residuos. Laboratorio de Bioprocesos Ambientales apoya a la docencia de bioprocesos ambientales. Laboratorio de Química Ambiental con insumos para el trabajo de laboratorio docente e investigación relacionada con la Química aplicada a problemas ambientales. Laboratorio de Ordenamiento Territorial está

diseñado para promover el desarrollo de planes de ordenamiento territorial.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El principal objetivo de la Carrera de Ingeniería Civil en Geografía es formar profesionales en el área de la Ingeniería Civil, que respondan a las necesidades actuales y futuras que imponen las actividades humanas y productivas sobre el territorio, las que se materializan en proyectos de ingeniería y/o planificación y ordenamiento territorial, dando solución a los impactos ambientales, económicos y sociales que éstas generan, apuntando con ello a un desarrollo sustentable. Por lo anterior, el rol del Ingeniero Civil en Geografía es analizar, evaluar y proponer soluciones a los impactos generados por la localización de actividades humanas (asentamientos y proyectos de actividades productivas) en los aspectos ambientales, económicos y sociales del territorio, siendo capaz de participar en el desarrollo de políticas públicas en el ámbito del territorio. Por sus conocimientos formativos y su visión integral de la realidad, el Ingeniero Civil en Geografía está llamado a trabajar en equipos de profesionales de carácter interdisciplinario en la solución de problemas territoriales. Tiene su campo ocupacional en las instituciones públicas y privadas, relacionadas con planificación, medio ambiente, proyectos de ingeniería, aprovechamiento de recursos naturales, mediciones geodésicas y fotogramétricas, estudios demográficos, asentamientos humanos, entre otros. El Plan Académico de 2012 se formuló a partir del Perfil de Egreso vigente desde el año 2009, el cual es consistente con el Modelo Educativo Institucional y contempla un total de 66 asignaturas de ciencias básicas, ciencias de la ingeniería, ciencias de la especialidad, y en ciencias humanas y sociales. El proceso de admisión es a través del sistema nacional de selección universitaria, siendo necesario rendir la Prueba de Selección Universitaria (P.S.U.). El puntaje ponderado de ingreso está compuesto de Ranking (40%), Notas Enseñanza Media (10%), Prueba de Lenguaje (10%), Prueba de Matemáticas (30%) y Prueba de Ciencias (10%). Respecto a ayuda financiera, la Universidad cuenta con becas y créditos propios del sistema universitario nacional.

PROFESORADO:

Araya Bermúdez Mario, Doctor en Geografía
Borcosque Díaz José Luis, Doctor en Geografía
Caverlotti Marcelo, Doctor en Ciencias de la Ingeniería
Corvalán Fernando, Doctor en Ingeniería de Procesos
Díaz Bambach Miguel, Master en Ciencias Aplicadas
Espinoza Ramírez Juan Carlos, Magíster en Asentamientos Humanos y Medio Ambiente
Herrera González Víctor, Magíster en Asentamientos Humanos y Medio Ambiente
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Mauro Álvaro, Magíster en Geografía
Medina Tapia Marcos, Magíster en Ingeniería
Pantoja Mazzini Víctor, Magíster en Hidrología Aplicada
Pizarro Konczak Jaime, Doctor en Ciencias con mención en Química
Portal Valenzuela Belfor, Doctor en Geografía
Quintanilla Pérez Víctor, Doctor en Ciencias Naturales
Yañez Romo Verónica, Magíster en Ciencia Regional

COLOMBIA

ASOCIACIÓN COLOMBIANA DE GEÓGRAFOS, ACOGE

TIPO DE INSTITUCION: Sociedad profesional/asociación Científica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Promoción profesional de la geografía

FECHA DE FUNDACION: 21 de Junio de 1967

REVISTA: e-Boletín Acoge

SITIO WEB: <http://www.acoge.org>

PARA MAS INFORMACION CONTACTAR: LUIS CARLOS JIMENEZ REYES, Presidente Del Consejo Directivo, Carrera 57-B Bis 128-60, Bogotá, Colombia, Telefono: 57-3144534052, lcjimenezre@unal.edu.co

MISION DE LA ASOCIACION: ACOGE propende por el desarrollo de la geografía como una disciplina científica y como profesión de origen universitario, en general, y en particular por el avance académico de sus afiliados en Colombia.

ESTRUCTURA Y ORGANIZACIÓN: De acuerdo con sus Estatutos, ACOGE es una entidad de derecho público privado de Colombia, sin ánimo de lucro, regida por la Asamblea General de afiliados activos, el Consejo Directivo y la Dirección Ejecutiva. Administrativamente, el manejo de la organización corresponde al Director Ejecutivo, quien es elegido por la Asamblea General para ejercicios de tres (3) años. Tanto la Dirección Ejecutiva, como el Consejo Directivo, son apoyados por comités especializados en diversas gestiones.

FINES: (1) Propender por el desarrollo académico, científico y profesional de la disciplina geográfica; (2) Contribuir a la difusión y discusión de los problemas de los que se ocupa la comunidad geográfica global; (3) Procurar el desarrollo y progreso profesional y científico de sus afiliados; (4) Apoyar las instituciones colombianas en las que se enseña la geografía como carrera profesional en los niveles superior y posgraduado; y, en fin (5) Procurar que la geografía como carrera profesional y como comunidad científica contribuya al desarrollo general de Colombia.

PROGRAMA CIENTÍFICO-TÉCNICO Se desarrolla en cooperación con las universidades que tienen Facultades o Departamentos de Geografía por medio de Grupos de Investigación especializados. **PROGRAMA DE FOMENTO DE LA GEOGRAFÍA** Se cumple por medio del patrocinio cada dos años del Congreso Colombiano de Geografía, que se ha reunido ya durante 19 ocasiones; así como de la Convención Nacional de Educación Geográfica.

MEMBRECIA: Pueden ingresar como afiliados los profesionales residentes en Colombia interesados en los fines para los cuales fue creada la Asociación. Hay cuatro tipos de miembros: (1) Regulares; (2) Asociados; (3) Estudiantes de geografía; (4) Institucionales. La categoría de miembros regulares está reservada a geógrafos profesionales, ingenieros geógrafos y licenciados en ciencias sociales.

EVENTOS ANUALES: Alternadamente se desarrollan cada dos años, el Congreso Colombiano de Geografía; y la Convención Nacional de Educación Geográfica.

GRUPO DE INVESTIGACIÓN INTERINSTITUCIONAL GEOPAIDEIA

TIPO DE INSTITUCION: Sociedad profesional/asociación Científica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Educación

FECHA DE FUNDACION: 1995

SITIO WEB: www.geopaideia.com

PARA MAS INFORMACION CONTACTAR: Alexander Cely Rodríguez, Representante legal de la asociación, Calle 61 No. 5 - 61 Apt 401 Bogotá – Colombia, Telefono: 2 480648, Fax: 2 841981, alexcelly@gmail.com, numola1969@hotmail.com

MISION DEL GRUPO: GEOPAIDEIA nace como un grupo de investigación integrado por profesores y egresados de la Maestría en Educación con énfasis en Docencia de la Geografía de la Universidad Pedagógica Nacional (UPN). En la actualidad es un grupo de carácter interinstitucional entre la UPN y la Universidad Distrital “Francisco José de Caldas” (UDFJC), clasificado en Colciencias en categoría B, reuniendo profesores de diversas áreas de las Ciencias Sociales, interesados en la reflexión del espacio desde una perspectiva multidisciplinar con miras a aportar en la comprensión contemporánea de la geografía y su relación con el mundo cotidiano, al igual que generar propuestas pedagógicas que cualifiquen su enseñanza dentro de los procesos educativos.

ESTRUCTURA Y ORGANIZACIÓN: El grupo Geopaideia ha ido construyendo una amplia experiencia, producto del trabajo investigativo y docente sobre líneas tales como: Educación geográfica, Didáctica de la geografía, Espacio, territorio y ciudad, Geografía y literatura, Geografía y filosofía, Geografía y cultura, que posibilitan el reconocimiento de diversos procesos de conceptualización, organización y significación espacial. El grupo tiene como objeto social la gestión y promoción de la investigación y el desarrollo científico, la formulación y ejecución de proyectos de investigación; el desarrollo de procesos de formación en ciencia, tecnología e investigación; bien sea a nivel de eventos, prácticas, pasantías, trabajos de grado (monografías y tesis). La oferta de proyectos de capacitación a nivel local, regional, nacional e internacional. La producción de textos y software de divulgación científica; el desarrollo y fomento a la investigación en el ámbito educativo formal y no formal, tanto público como privado, con proyección social y de apoyo a la educación del país.

FINES: Los fines específicos del Grupo Geopaideia son: a. Consolidar un equipo de trabajo interdisciplinario, que genere procesos e impactos en los sujetos de las comunidades sobre las que orienta su quehacer b. Gestionar de común acuerdo con Entidades Nacionales o Extranjeras recursos o programas destinados a la ejecución de proyectos del Grupo Geopaideia c. Realizar la gestión de proyectos de investigación que busquen determinar posibles soluciones a los problemas educativos en las comunidades de aprendizaje. d. Realizar la promoción de proyectos y resultados de investigación mediante diversos tipos de actividades e. Generar procesos de formación a nivel de investigación en diversos ámbitos y empleando distintas metodologías, técnicas y estrategias f. Contribuir con una cultura de la investigación en los ámbitos de formación y educación, tanto a nivel técnico, tecnológico y profesional a escala local, regional, nacional e internacional. g. Realizar la gestión y promoción de proyectos y eventos de investigación h. Generar espacios de formación en ciencia, tecnología e investigación, mediante conferencias, seminarios, talleres, cursos libres, simposios, congresos, foros, conversatorios, salidas de campo y demás eventos relacionados i. Gestionar, generar, implementar y adoptar planes, programas,

proyectos y modelos de formación y cualificación j. Realizar ofertas de formación y capacitación a través de consultorías, asesorías, cursos de extensión (presenciales y/o virtuales) k. La producción, edición y divulgación de textos académicos y científicos por medio de artículos, libros, revistas, ponencias l. La producción de software de carácter científico y académico m. Asesorar proyectos comunitarios en zonas urbanas y/o rurales n. Aplicar conocimientos científicos y académicos con diversas comunidades para mejorar su calidad de vida

PROGRAMAS QUE SE OFRECEN: Dado el carácter que tiene la Asociación esta está en capacidad de: a. Desarrollar proyectos de investigación que aporten en la educación geográfica y en procesos territoriales que construyen los ciudadanos. b. Realizar actividades de formación y cualificación presenciales y/o virtuales, que comprenden cursos básicos, conferencias, talleres, seminarios, entre otras. c. Preparar, organizar y realizar talleres, foros de divulgación, conferencias, seminarios, conversatorios, cursos, muestras, encuentros. d. Crear redes de información y propiciar la relación con otras entidades similares ya sean nacionales o internacionales. e. Procurar el intercambio de publicaciones especializadas y productos elaborados por la Asociación. f. Apoyar e impulsar la edición de material necesario y propender por su difusión a través de folletos, manuales o cualquier otro medio que proporcione el conocimiento de los ejes temáticos relacionados con su objeto social a las personas, entidades o países interesados.

MIEMBROS: La Asociación es una Entidad de derecho civil sin ánimo de lucro, creada en Bogotá Distrito Capital por sus constituyentes, todos ellos domiciliados en Bogotá D.C., quienes reunidos decidieron organizar dicha ASOCIACIÓN de acuerdo a los dispuesto en la Constitución Nacional. La Asociación en la actualidad la Asociación cuenta 8 miembros.

PUBLICACIONES RECIENTES:

Moreno, N. Rodríguez, L. Sánchez J. (2011) *La salida de campo...se hace escuela al andar. Grupo de investigación Geopaideia. Editorial Geopaideia. Libro Virtual disponible en www.geopaideia.com enlace publicaciones.*

Cely A. & Moreno N. (2011) *Ciudades leídas, ciudades contadas. La ciudad latinoamericana como escenario didáctico para la enseñanza de la geografía. Bogotá D.C: Universidad Distrital Francisco José de Caldas.*

Moreno, N. (2011) *Re pensar la enseñanza de la ciudad. Alternativa para la formación ciudadana. En Producao do conhecimento e pesquisa no ensino da geografia. Goiania: Universidade Católica de Goiás y por la Universidade Federal de Goiás.*

Moreno, N. Cely A. Hurtado M. Rodríguez L. Sánchez J. (2011) *¿Qué función debe cumplir la enseñanza de las ciencias sociales en la escuela? Bogotá: Geopaideia Ediciones – Vicens Vives.*

Moreno, N. & Hurtado M. (2010) *Itinerarios Geográficos en la escuela. Lecturas desde la virtualidad. Grupo de investigación Geopaideia. Editorial Geopaideia. Libro Virtual disponible en www.geopaideia.com enlace publicaciones.*

RAZÓN CARTOGRÁFICA, RED DE HISTORIA DE LAS GEOGRAFÍAS Y CARTOGRAFÍAS DE COLOMBIA

TIPO DE INSTITUCION: Sociedad profesional/asociación científica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION: Comunicación/networking

FECHA DE FUNDACION: Agosto de 2007

SITIO WEB: <http://razoncartografica.com/>

PARA MAS INFORMACION CONTACTAR: SEBASTIAN DIAZ ANGEL, COORDINADOR, Carrera 18 No 33- 46 (apto 303), Barrio Teusaquillo, Bogotá, Colombia, Telefono: (+571)3404244, razoncartografica@gmail.com

MISSION: Razón Cartográfica busca articular, promover y difundir las investigaciones relacionadas con la historia de la geografía y la cartografía en Colombia e Ibero/Latinoamérica. También le apuesta a la interlocución entre historia, geografía, cartografía y el pensamiento crítico. Nuestro objetivo principal es articular esfuerzos de todas las personas e instituciones potencialmente interesadas en la protección, la difusión y la investigación del patrimonio cartográfico, y de las colecciones y archivos documentales -privados o públicos- relacionados con geografía y cartografía en Colombia. También buscamos contribuir al desarrollo de una mirada crítica e histórica sobre conocimientos geográficos, concepciones espaciales, cartografías y representaciones del territorio; así como sobre instituciones, disciplinas, racionalidades, prácticas y personas involucradas en la producción, la codificación, el ordenamiento del espacio y la circulación y consumo de conocimientos e imaginarios geográficos y cartográficos.

ESTRUCTURA Y ORGANIZACIÓN: Esta constituido por: un Comité Coordinador, un Coordinador, un Administrador y editor del sitio web, un Directorio de Investigadores y Subscriptores del sitio web. El Comité Coordinador es quien guía las estrategias del proyecto. El Coordinador es el responsable del cumplimiento de las estrategias del proyecto. El Administrador y editor del sitio web es el encargado de mantener actualizado el sitio web (en la actualidad es el coordinador del proyecto). El Directorio de Investigadores son las personas que voluntariamente apoyan el proyecto como investigadores asociados. Los suscriptores del sitio web administran su relación con el proyecto.

FINES: Razón Cartográfica (RC) es una red informal, privada, autónoma y sin ánimo de lucro, integrada voluntariamente por personas naturales que comparten sus principios y objetivos. Su propósito es la articulación, la vinculación, la interlocución y el trabajo colaborativo en red para promover: 1. “la investigación, la publicación y la difusión de la historia de la cartografía, de la cartografía crítica, de la geografía histórica, de la historia de la geografía y del pensamiento espacial en ciencias sociales en Colombia, iberoamérica y el mundo”, 2. “la protección y la difusión del patrimonio cartográfico y de las colecciones y archivos de geografía y cartografía en Colombia, iberoamérica y el mundo”, 3. “el fortalecimiento del estudio, la discusión y la democratización del conocimiento sobre historia, geografía, cartografía y áreas afines en Colombia”, 4. “el desarrollo de una mirada crítica e histórica sobre conocimientos geográficos, concepciones espaciales, cartografías y representaciones del territorio; así como sobre instituciones, disciplinas, racionalidades, prácticas y personas involucradas en la codificación, el ordenamiento del espacio y la circulación y consumo de conocimientos e imaginarios geográficos”, 5. “el diálogo y el debate entre todos aquellos interesados por el desarrollo de los conocimientos geográficos, y el uso de las herramientas de análisis y representación del espacio en las ciencias sociales, las artes y las humanidades” 6. “la cooperación, la alianza y el intercambio de conocimiento e información con entidades y proyectos afines a nivel local, nacional, e internacional.” Para desarrollar sus objetivos Razón Cartográfica (RC) ha establecido las siguientes estrategias: Interesar, articular y vincular permanente estudiantes, profesionales, proyectos y entidades afines. Colaborar con estudiantes, profesionales, proyectos y entidades vinculadas, aliados y afines. Explotar los TICs para aprovechar las oportunidades de interacción instantánea, horizontal y multimedial de la cultura digital para la visibilización y el desarrollo de los objetivos de RC. Archivar, comunicar y difundir permanente información y contenidos actualizados de interés para investigadores, estudiantes, profesionales, proyectos, entidades y público en general, sobre temas afines a RC. Gestionar y apoyar la construcción y desarrollo de escenarios y procesos locales de investigación, discusión, difusión y

publicación de temas afines a RC. Organizar, co-organizar y participar en eventos académicos o de difusión nacionales e internacionales, y en toda actividad acorde a los fines de RC.

PROGRAMAS QUE SE OFRECEN: Eventos y actividades académicos. En asocio con instituciones locales, Razón Cartográfica apoya eventos y actividades de promoción de la mirada social y cultural de la historia de la cartografía, de difusión de la memoria cartográfica de Colombia y de apropiación social y crítica de los conocimientos geográficos. Mapoteca Digital: Razón Cartográfica apoya la conformación de una mapoteca digital colombiana, en la que se cataloguen y digitalicen las colecciones cartográficas de archivos, bibliotecas y universidades del país (ya sean de carácter públicas o privadas), como plataforma para la investigación, la difusión y la apropiación social de la memoria cartográfica.

UNIVERSITY DE CORDOBA, COLOMBIA

DEPARTAMENTO DE GEOGRAFÍA Y MEDIO AMBIENTE

FECHA DE FUNDACION: Departamento de Geografía:
Julio 10 de 1998 - Universidad de Córdoba: 1964

PROGRAMAS: Licenciatura, Maestría

JEFA DEL DEPARTAMENTO: Doris Villalba-León

CONTACTO PARA PROGRAMA DE PREGRADO:

Doris Villalba-León, dvillalba@correo.unicordoba.edu.co

LICENCIATURAS OTORGADAS ANUALMENTE: 18

CONTACTO PARA PROGRAMA DE POSGRADO: Jairo

Durango-Vertel, jairodurangovertel@gmail.com

POSGRADOS OTORGADOS ANUALMENTE: 2

CENTROS DE INVESTIGACION: Instituto de
Investigaciones Geográficas y Ambientales del Caribe
(GeoCaribe)

SITIO WEB: <http://www.geo-unicordoba.info>

URL DE PROGRAMA EN LINEA: <http://www.geo-unicordoba.info> y <http://www.geocaribe.org>

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Doris Villalba-León, Jefa del Departamento, Montería, Departamento de Córdoba, Colombia, Teléfono: 57-4-7818039, deptogeografia@unicordoba.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La geografía es una disciplina antiquísima y a la vez muy moderna. Las más remotas manifestaciones del pensamiento registradas por escrito dan prioridad a la innata curiosidad del hombre sobre su entorno. Por otra parte, el geógrafo de hoy utiliza modernas tecnologías de observación y análisis para estudiar los fenómenos que ocurren en la superficie terrestre, en términos de su localización, interacción y otros atributos espaciales, al tiempo que participa de las corrientes filosóficas y metodológicas que orientan el progreso científico general. El Departamento de Geografía y Medio Ambiente de la Universidad de Córdoba ofrece dos niveles de estudio sistemático, el universitario superior (pregrado) y la maestría, a través de los cuales forma profesionales capacitados para manejar técnica y científicamente las tareas disciplinares propias de un geógrafo. Se ha creado también el Instituto de Investigaciones Geográficas y Ambientales del Caribe (GeoCaribe), cuyas funciones se orientan a satisfacer las necesidades de investigación y extensión geográficas en la región caribeña.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El ingreso a la carrera de geografía requiere la acreditación del título de bachiller y haber alcanzado en las pruebas

del Ministerio de Educación los niveles que la Universidad establece para la admisión general. En el Programa de Pregrado se brinda al estudiante una formación equilibrada entre los componentes Teórico-Metodológico, Técnico-Instrumental, áreas Geografía Física y Humana, con cursos de apoyo que complementan la formación integral, distribuidos en 10 semestres académicos de estudio. El Programa de Maestría requiere acreditar un título de geógrafo, licenciado en ciencias sociales u otro de áreas afines a la geografía. Se requieren cuatro semestres de estudio y la investigación y sustentación de una tesis. La ayuda financiera que requieran los estudiantes la pueden gestionar a través del Icetex, una agencia gubernamental especializada en becas y préstamos educativos.

PROFESORADO:

Jairo Manuel Durango Vertel: Licenciado en ciencias sociales, Especialista en SIG y sensores remotos, M.Sc. en geografía, estudiante de doctorado en geografía

Doris Alicia Villalba León: Antropóloga, Especialista en gestión y desarrollo comunitario, Maestría en gobierno municipal, M.Sc. en geografía

Doris Mejía Ávila: Ingeniera forestal, Especialista en SIG, estudiante de doctorado en geografía

Rubén Darío Godoy Gutiérrez: Licenciado en ciencias sociales, M.Sc. en geografía

Doris Helena Serrano Amaya: Agróloga, Especialista en SIG, Maestría en geomática

Edgar Rafael Manotas Olascoaga: Ingeniero agrónomo, M.Sc. en geografía

El Departamento también cuenta ocasionalmente con la colaboración de profesores visitantes, entre quienes se cuenta especialmente a: Héctor F. Rucínque, Ph.D. y M.Sc. (MSU y Wisconsin-Madison) y Ovidio R. Toro, M.A. (Iowa). Actualmente están vinculados como profesores ocasionales los siguientes exalumnos de la maestría: Rosana Garnica Berrocal, Wilson Bayardo Castro, Arnulfo Manuel Gómez Ramos, Teonila Ided Aguilar Jiménez, Oscar Antonio Puerta Avilés. Otros catedráticos: Alexis Carbone Mendoza, Hugo Cadena Cepeda, Kelly Rosa Oviedo Mercado y Maria Isabel Toro.

Título de Magister (M.Sc.) y tesis 2010-2011:

Manotas-Olascoaga, Edgar Rafael: "Las inundaciones en el municipio de Montería. Un riesgo percibido por sus habitantes en la ocupación del espacio ribereño del Río Sinú". (Dr. Héctor F. Rucínque, asesor académico, 2010)

Zapata-Salcedo, Jorge Luis: "Espacios de consumo en la ciudad de Montería, Colombia: Una aproximación desde la geografía cultural". (Dr. Héctor F. Rucínque, asesor académico, 2011)

UNIVERSIDAD DE LOS ANDES, BOGOTÁ

DEPARTAMENTO DE HISTORIA

FECHA DE FUNDACION: 1948

PROGRAMAS DE ESTUDIO: Maestría

CONTACTO PARA PROGRAMA DE POSGRADO:

Aideth Velandia, mageo@uniandes.edu.co

SITIO WEB: <http://historia.uniandes.edu.co/>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Coordinadora Académica: Aideth Velandia, Numero de teléfono: 3394949 ext. 4816, mageo@uniandes.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La Maestría en Geografía preparará a profesionales de variadas disciplinas para realizar investigaciones en geografía y para que

incorporen los aportes de este campo de conocimiento a su formación y su ejercicio profesional. La Maestría en Geografía está organizada alrededor de dos ejes que definen a esta polifacética área del conocimiento: 1) La relación entre las sociedades y el medio ambiente, y 2) El espacio como categoría fundamental para entender los fenómenos sociales. El primer eje ha definido el quehacer geográfico desde sus inicios y el segundo se ha constituido en las últimas décadas en un aporte imprescindible de la geografía a las ciencias sociales. Sobre estas bases, la Maestría se caracteriza por sus estrechos vínculos con las ciencias sociales, especialmente con la historia, sin perder de vista su relación con la geografía física. Así, dotará a los estudiantes de las herramientas teóricas y metodológicas que caracterizan hoy a la disciplina y le permiten un diálogo permanente con otras áreas del conocimiento. La Maestría en Geografía busca contribuir al actual crecimiento de esta disciplina en Colombia, que a pesar de contar con una larga tradición, sólo hace poco más de una década ha tenido un avance académico significativo con la creación de diversos programas de formación de pregrado y posgrado. También pretende nutrirse del gran dinamismo actual de la geografía humana y cultural a nivel internacional para contribuir al conocimiento de la realidad, principalmente de nuestro país, pero también de otros lugares. De este modo formará investigadores que hagan evidente la importancia del espacio y el entorno natural en el análisis social. De igual forma incentivará la investigación y divulgación de los nuevos conocimientos obtenidos, con el fin de contribuir a mejorar la situación social del país.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Los admitidos deberán seguir un plan de estudios de tres semestres, cada uno con tres asignaturas de cuatro créditos, para un total 36 créditos. Las materias se dividen en tres grandes áreas: Área de Formación Básica, Área de Seminarios y Área de Práctica de Investigación. La primera está conformada por cuatro materias (sociedad y naturaleza, espacio y sociedad, geografía física y taller de cartografía) que proporcionarán a los estudiantes los conocimientos temáticos y teóricos básicos para su desempeño en geografía. La segunda está conformada por tres seminarios electivos, que le permitirán al estudiante profundizar en su área de interés, y la tercera por el desarrollo del trabajo de grado.

PROFESORADO:

Guhl, Andrés, Ph.D. en Geografía de University of Florida — transformaciones del paisaje, desarrollo, ecología del paisaje, ecología política y geografía ambiental

Herrera, Marta, Ph.D. en Geografía de Syracuse University — ordenamiento social y espacial

Leal, Claudia, Ph.D. en Geografía de University of California, Berkeley — historia ambiental, ecología política

Sánchez, Luis, Ph.D. en Geografía de Florida State University — geografía política y cultural, las geografías de la construcción de la identidad, migración, desarrollo, globalización

Van Ausdal, Shawn, Ph.D. en Geografía de University of California, Berkeley — naturaleza y sociedad, historia del desarrollo, y economía política de la comida

UNIVERSIDAD DEL VALLE

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: Diciembre 3 de 1992

PROGRAMAS DE ESTUDIO: Grado asociado/técnico, Licenciatura

SITIO WEB: <http://geografia.univalle.edu.co/>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Andrés Enrique Bautista, Santiago de Cali, Colombia, Telefono: (57-2) 3212189, Fax: (57-2) 3303343 – 3334909, dgeograf@univalle.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: El Departamento fue creado según la Resolución No 135 de diciembre 3 de 1992, del Consejo Superior de la Universidad. Su estructura se basa en la organización y funcionamiento de cuatro cátedras, las cuales responden a áreas específicas del conocimiento geográfico, lo mismo que a problemas concretos de investigación que han venido siendo estudiados por los profesores de la Unidad. Las Cátedras son: Geografía Física - Medio Ambiente; Geografía Económica - Social; Geografía Política - Planeamiento Territorial y Cartografía. Los profesores que forman parte de la Unidad Académica han presentado sus proyectos de investigación en áreas específicas de trabajo, algunos han sido aprobados y otros están en pleno proceso de evaluación; sus líneas se enmarcan dentro de lo estipulado para cada cátedra y las investigaciones en general comprenden aspectos relacionados con: Geografía Rural y Económica, Ordenamiento Territorial, Geografía Aplicada - área urbana y Geografía Física. Nuestras actividades nos han permitido contar con una revista de divulgación: La Revista GEO, y tenemos en preparación la edición de un segundo número. De otro lado, contribuye a la presentación de la propuesta de realizar la Especialización en Geografía, el hecho de que el Departamento es la única Unidad Académica de Geografía que hay en el Valle del Cauca. Su creación específica obedeció al interés de abrir el campo de esta disciplina en el contexto universitario en igualdad de condiciones con los otros campos del saber. La Unidad ha venido cubriendo los distintos planes desde antes de su creación, cuando entonces funcionaba como una sección de Geografía en el Departamento de Historia. En la Universidad existen en el momento otras Unidades Académicas y de investigación que tienen de alguna manera afinidades con el que hacer geográfico, y que cuentan con una infraestructura técnica y tradición investigativa, las cuales servirán de apoyo a la Especialización. Estas son: El Instituto de Abastecimiento y Remoción de Aguas, - CINARA; El Centro de Estudios Regionales, - REGION; El Observatorio Sismológico del Sur-occidente, -OSSO; El Instituto de Estudios del Pacífico y La Facultad de Ingenierías. Además en Cali hay instituciones muy ligadas a los estudios geográficos que serán de gran importancia, no sólo para lograr obtener una mayor información, sino para poder realizar algunas actividades de campo, como son entre otras: La CVC, El DAGMA, El IGAC e INGEOMINAS.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Requisitos de Admisión y Selección: Puntaje del ICFES del año 2006 en adelante: Historia 45, Lenguaje 45, Geografía 45, Biología 35; Matemáticas 40; y Filosofía 35. En relación con transferencias y traslados, los estudiantes deben cumplir con los siguientes requisitos: Provenir de un programa académico afín (Geología, Licenciatura en Ciencias Sociales, Licenciatura en Geografía, Licenciatura en Historia, Historia, Ingeniería Geográfica, Ingeniería Topográfica, Economía, Antropología, Sociología, entre otros) y permitir mediante la homologación de asignaturas la ubicación por lo menos, en segundo semestre. Fecha de Iniciación de Actividades: Enero 2003 Creado mediante Resolución 004 de Febrero 28 de 2002, del Consejo Superior de la Universidad del Valle. Aprobado por: Resolución del Consejo Académico No. 014 del 24 de Enero de 2002 y Resolución del Consejo Superior No. 004 del 28 de febrero de 2002. Registro SNIES: 16018 del Ministerio de Educación Nacional (Renovación por 7 años a partir de la Resolución 6316 del 23 de octubre de 2007) Título que se expide: Geógrafo Duración: 5 Años Periodicidad de la Admisión: Anual Modalidad: Diurna (lunes a viernes de 7:00-10:00 asignaturas propias y de 10:00-13: 00 Electivas profesionales o complementarias)

PROFESORADO:

Elkin de Jesús Salcedo, Dr. en Geociencias
Jaime Vásquez Sánchez, Dr. Geografía, Económica-Social
Rodolfo Espinosa López, Magíster en Geografía
Javier E. Thomas Bohórquez, Magíster en Geografía
Cecilia Orozco Cañas, Esp. en Administración pública, Esp. en Políticas Públicas

Pedro Martín Martínez Toro, Magíster en Política Territorial y Urbanística
Luis Marino Santana Rodríguez, Doctor en Cartografía, Sistemas de Información Geográfica y Teledetección
Oscar Buitrago Bermúdez, Magíster en Geografía con énfasis en Ordenamiento Territorial
Zaida Liz Patiño Gomez, Doctora en Ciencias Sociales Área de profundización Sociedad y Educación.
Ramón Serna, Magíster en Geografía con énfasis en Ordenamiento Territorial Contratistas
Julio Cesar Rubio Candidato a Magister en Educación Popular y Desarrollo Comunitario
Hernando Uribe Castro, Magíster en Sociología, Universidad del Valle
Carlos González Rodríguez Ingeniero Forestal, Cartografía general
Ramiro Bonilla Sandoval, Msc. en Planificación Urbana

UNIVERSIDAD EXTERNADO DE COLOMBIA

PROGRAMA DE GEOGRAFIA

FECHA DE FUNDACION: 2005

ESPECIALIZACIÓN EN GEOGRAFÍA POLÍTICA Y GEOPOLÍTICA DEL MUNDO

ACTUAL FUNDADA EN: 2010

TÍTULOS OFRECIDOS: Pregrado, Especialización

GRADOS CONCEDIDOS: Ninguno

ESTUDIANTES EN RESIDENCIA: 12 Pregrado, 5

Especialización

NO EN RESIDENCIA: 1 Pregrado

JEFE DE PROGRAMA: Philippe Chenut (e.)

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Sr. Philippe Chenut, Director (e.) Programa de Geografía, Facultad de Ciencias Humanas, Universidad Externado de Colombia, Calle 12 No. 1-17 Este Bogotá Colombia Teléfono (57 1) 341-990. Fax (57 1) (57 1) 341- 8158. E-Mail: geografia@uexternado.edu.co. Internet: http://portal.uexternado.edu.co/irj/portal/anonymous?guest_user=sociales&NavigationTarget=navurl://e19058adde7c1bca8ac0da720344db6a

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Los objetivos del programa incluyen el estudio de (1) la relaciones entre los actores sociales y su entorno biofísico y social (2) el papel que juegan las relaciones de poder en los procesos de gestión y ordenamiento del territorio (3) el análisis espacial. Los estudiantes del programa desarrollan sus estudios dentro de un enfoque interdisciplinario, con un fuerte énfasis en la investigación. Se pretende que sean capaces de trabajar en equipos formados por diversos profesionales de las ciencias sociales y naturales. Es así como desarrollan sus trabajos de grado en áreas de investigación interdisciplinarias en las que interactúan estudiantes y profesores de diversas disciplinas. Las fortalezas del programa son las siguientes: a) Geografía política e histórica; b) Geografía urbana; c) Epistemología de la geografía; d) Análisis espacial; e) Efectos territoriales de la globalización y las migraciones, f) Geografía agraria

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

El plan de estudios se desarrolla en 10 semestres. Requisitos de admisión: Diploma de educación secundaria de Colombia o equivalente, examen del ICFES, entrevista Apoyo financiero: becas, monitorías académicas y de investigación; Programa de becas para miembros de minorías étnicas

PROFESORADO:

Camilo Domínguez, Sociólogo — Doctorado en geografía, Sao Paulo, 2004, Docente-Investigador Geografía política e histórica — Estudios amazónicos y del Caribe

Gustavo Montañez, Ingeniero geógrafo, PhD Geografía Universidad de la Florida, 1995, Docente-Investigador — Geografía política y cultural – efectos territoriales de la globalización

Luis Berneth Peña, Geógrafo Doctorando en Geografía Université Rennes2 Docente, Investigador — Geografía urbana – Epistemología de la geografía, análisis espacial

Philippe Chenut, Geógrafo Mgr Medio ambiente y Desarrollo Universidad Nacional de Colombia (Cand.), Docente-Investigador, Ordenamiento ambiental del territorio — análisis espacial

Laura Rincón, Geógrafa Mgr. Economía social Universidad Nacional de General Sarmiento Buenos Aires (Cand.) Docente-Investigadora, Efectos territoriales de las migraciones — Planificación urbano-regional

Bladimir Rodríguez, Geógrafo, Topógrafo, Economía social Universidad Nacional de General Sarmiento Buenos Aires (Cand.) Geografía agraria — Desarrollo local

PROFESORADO ASOCIADO:

Elkin Velásquez, Ingeniero Geólogo – Doctorado en Geografía. U. de Grenoble, Gubernanza territorial — Riesgos naturales y antrópicos

Claudia Romero, Ingeniera topógrafa - Mgr. SIG y Teledetección U. de Alcalá — Cartografía, Teledetección, SIG, análisis especial

UNIVERSIDAD NACIONAL DE COLOMBIA

DEPARTMENT OF GEOGRAPHY

DEPARTMENT DATE FOUNDED: 1967

DIRECTOR: José Daniel Pabón Caicedo

UNDERGRADUATE PROGRAM FOUNDED: 1991

COORDINATOR UNDERGRADUATE PROGRAM: Luis Jorge Gracia Dueñas

COORDINATOR GRADUATE PROGRAM: Luis Carlos Jiménez Reyes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Director del Departamento de Geografía, Carrera 30 45-03, Universidad Nacional de Colombia; Sede Bogotá, Colombia. Teléfonos (57-1) 3165025 o 3165000 ext. 16321, 16320, Fax (57-1) 3165025. E-mail address: depgeografi_bog@unal.edu.co; postgeo_fchbog@unal.edu.co

The Department of Geography (Human Sciences Faculty, National University of Colombia) has undergraduate and graduate programs (Postgraduate diploma in Spatial Analysis, Master in Geography and Doctorate in Geography) and carries out research programs in geography and related sciences and disciplines.

UNDERGRADUATE PROGRAM

DEGREE OFFERED: Professional Geographer

The graduate program leads to a bachelor degree in Geography and it is oriented towards developing abilities in research as well as skills in methodology and techniques of geographic analysis. The program includes the basic formation in geography and specialized courses in four areas: (1) Human Geography (2) Physical Geography (3) Environmental Geography and (4) Geographical information technologies. The fieldwork plays an important role in both the physical and human courses.

GRADUATE PROGRAM

GRADUATE PROGRAMS FOUNDED: 2008

STUDENTS IN RESIDENCE: 150

The graduate programs develop their activities in the frame of the following research lines: 1) Spatial dynamics and urban and regional studies; 2) Natural and human-induced hazards and risks; 3) Biogeophysical and socioeconomic dimension of global change; 4) Space and territory; 5) Culture and environment.

POSTGRADUATE DIPLOMA IN SPATIAL ANALYSIS

DEGREE OFFERED: Specialist in Spatial Analysis

This postgraduate diploma provides to professionals from different areas the abilities and knowledge to be competent to work on zoning and environmental synthesis and in analysis of urban and regional problems.

MAGISTER PROGRAM

DEGREE OFFERED: M.Sc. in Geography

Magister Program in Geography forms young researchers in geography with the abilities to participate or lead interdisciplinary studies on both man-nature interaction, and spatial analysis issues, especially on the research lines of Department of Geography.

DOCTORAL PROGRAM

DEGREE OFFERED: Doctor in Geography

This graduate program prepares leaders for the research activity in the geographical area of knowledge. This leader is a researcher with the capacity to propose, develop and lead research programs which contribute to improve both the knowledge and the understanding of spatial dynamics involved in the society-nature interaction.

FACULTY:

Alice Amandine Beuf, Doctor in Human, economic and regional Geography, Université Paris Ouest, Nanterre La Défense, 2011. Assistant Professor — Social Geography, Urban Geography, Economic Geography

Susana Barrera L., Ph.D. (c) in Geography (Wilfrid Laurier University - University of Waterloo, Canada, 2004), Associate Professor — Urban Watershed management, Urban Geography, Environmental Geography, and GIS

Jeffery Chaparro M., Doctor in Human Geography (Universidad de Barcelona, 2009), Assistant Professor — Cybergeography, Human Geography, Urban Geography, Geography and Education

Isabel Duque F., Doctor in Human Geography 2008 (Universidad de Barcelona), Associate Professor — Urban Geography, Urban Planning and Management

Juan Manuel Diaz M., Dr. rer. nat. (Justus Liebig Universität - Germany, 1985), Associate Professor — Biogeography, Marine Biology

Luis Jorge Gracia D., M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 1992, Assistant Professor — Population Geography, Rural Geography

Luis Carlos Jiménez R., Doctor in Geography of Development (Université de Bordeaux 3, 1999), Associate Professor — Urban Geography, Regional Geography, Theory of the Geography, Urban and Regional Planning

Nohra León R., Doctor in Economics Sciences, Universidad Nacional de Colombia, 2003, Associate Professor — Economic Geography, Environmental Studies, Introduction to Geography

John Williams Montoya G., Ph.D. in Geographic Sciences (Université Laval, QC, Canada, 2012), Associate Professor — Urban Geography, Theory of the Geography

José Daniel Pabón C., Ph.D. in Meteorology, Odessa GMI, former USSR, 1987, Associated Professor — Meteorology and Climatology, Climate Variability and Climate Change, Natural Hazards, Environmental Studies

Luis Gabriel Salas S., M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 2010, Assistant Professor — Political Geography, Human Geography

Willington Siabato V., Doctor (c) in Geographical Engineering (Universidad Politécnica de Madrid, 2009), Assistant Professor — Analysis and Spatial Modeling, Geographic Information Technologies

Gabriel Triana Z., Doctor (c) in Geography (Universidad Nacional de Colombia, 2009), Associate Professor — Analysis and Spatial Modeling, Geographic Information Technologies

Astrid Ulloa C., Ph. D. in Anthropology (University of California-Irvine, 2003), Titular Professor — Cultural Geography, Political Ecology, Gender Geography

Germán Vargas C., Doctor in Earth Sciences (Université Pierre et Marie Curie, Paris VI, Paris, France, 1997), Associate Professor — Geology, Remote Sensing, Natural Hazards

UNIVERSIDAD PEDAGOGICA Y TECNOLOGICA DE COLOMBIA UPTC

DEPARTAMENTO DE CIENCIAS SOCIALES

FECHA DE FUNDACION: 1957

PROGRAMAS DE ESTUDIO: Licenciatura en Ciencias Sociales

SITIO WEB: www.uptc.edu.co

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Jorge Ruiz, Profesor Asociado, Tunja, Colombia, Teléfono: 5787422174, Fax: 5787436206, ciencias.sociales@uptc.edu.co

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:

Competencias Básicas: 1.Capacidad para establecer criterios y procedimientos que le permitan trabajar conjuntamente con la comunidad, en la búsqueda de valores, en la recuperación creativa de la cultura y en la preservación y uso racional del medio ambiente. 2.Orientar una actitud abierta al cambio en lo social, político, pedagógico y cultural, a partir de los sustentos científicos, epistemológicos y filosóficos alcanzados durante la carrera. 3.Análisis crítico de la realidad social y sus conflictos, para plantear alternativas de solución desde un enfoque socio-crítico. 4.Utilización de distintas estrategias y modelos pedagógicos que contribuyen con la enseñanza – aprendizaje de las ciencias sociales. Competencias Generales: 1.Promover la participación democrática de la comunidad en el estudio, tratamiento y solución de sus problemas de tal forma que llegue a ser reconocido por ella como un líder y gestor comunitario. 2.Coordinar las acciones de educación para la vida democrática, la convivencia y la participación y el fortalecimiento de la sociedad civil. 3.Adoptar un consecuente compromiso ético y moral como profesional de la educación. Competencias Profesionales: 1.Diseñar y ejecutar propuestas para la enseñanza y aprendizaje de las Ciencias Sociales de manera integral y acorde con las necesidades y aspiraciones de la comunidad donde labora. 2. Desempeñar la docencia en Educación Básica y en Educación Media en áreas de Historia, Geografía, Filosofía, Democracia, Medio Ambiente y Derechos Humanos.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Asignaturas créditos área primer semestre competencias comunicativas 4 general geociencias 3 disciplinar y profundización historia antigua y medieval 4 disciplinar y

profundización teoría sociológica i 4 disciplinar y profundización universidad y entorno 3 general segundo semestre antropología cultural 4 disciplinar y profundización epistemología de las ciencias sociales 4 disciplinar y profundización historia moderna 4 disciplinar y profundización introducción a la geomática 3 disciplinar y profundización proyecto pedagógico i 4 interdisciplinar tercero semestre economía general 4 disciplinar y profundización geografía humana 3 disciplinar y profundización historia contemporánea 4 disciplinar y profundización proyecto pedagógico ii 4 interdisciplinar socio-humanística i 3 general cuarto semestre electiva interdisciplinar i 4 interdisciplinar proyecto pedagógico iii 4 interdisciplinar teoría sociológica ii 4 disciplinar y profundización teoría y método de la geografía 4 disciplinar y profundización teoría y método de la historia 4 disciplinar y profundización quinto semestre electiva interdisciplinar ii 4 interdisciplinar etnología de américa y colombia 3 disciplinar y profundización geografía política i 4 disciplinar y profundización historia de américa i 4 disciplinar y profundización proyecto pedagógico iv 4 interdisciplinar sexto semestre electiva interdisciplinar iii 4 interdisciplinar geografía política ii 4 disciplinar y profundización historia de américa ii 4 disciplinar y profundización metodología de la investigación 3 disciplinar y profundización tics y ambientes de aprendizaje 3 interdisciplinar séptimo semestre arqueología y patrimonio cultural 3 disciplinar y profundización electiva interdisciplinar iv 4 interdisciplinar geografía física de colombia 3 disciplinar y profundización historia de colombia i 3 disciplinar y profundización seminario de investigación i 4 interdisciplinar socio-humanística ii 3 general octavo semestre didáctica de las ciencias sociales i 3 disciplinar y profundización economía colombiana 3 disciplinar y profundización electiva de profundización i 3 disciplinar y profundización geografía humana de colombia 3 disciplinar y profundización historia de colombia ii 3 disciplinar y profundización seminario de investigación ii 4 interdisciplinar noveno semestre didáctica de las ciencias sociales ii 3 disciplinar y profundización electiva de profundización ii 3 disciplinar y profundización ética y política 4 general seminario de investigación iii 3 disciplinar y profundización sociología colombiana 3 disciplinar y profundización décimo semestre práctica pedagógica integral 5 disciplinar

PROFESORADO: 33 profesores

COSTA RICA

UNIVERSIDAD DE COSTA RICA

ESCUELA DE GEOGRAFÍA

FUNDADA EN: 1974

PRIMER PLAN DE ESTUDIOS EN GEOGRAFÍA: 1956

GRADOS QUE OFRECE: Bachillerato, Licenciatura,

Maestría Académica en Geografía y Maestría profesional en Sistemas de Información y Teledetección (UCR-UNA)

ESTUDIANTES ACTUALES: Bach., 250; Lic., 50; M.Sc., 50

TOTAL DE ESTUDIANTES ATENDIDOS EN 2014: 2224
DIRECTORA: Dra. Isabel Avendaño Flores, catedrática

PARA MÁS INFORMACIÓN ESCRIBIR A: *Isabel Avendaño Flores*, Escuela de Geografía, Facultad de Ciencias Sociales, San Pedro de Montes de Oca, San José, Costa Rica. Apdo. 2060. Teléfono (506) 2511 6402, Fax (506) 2234 7246, E-mail: isabel.avendano@ucr.ac.cr, geografia@ucr.ac.cr Internet: <http://www.geografia.fcs.ucr.ac.cr/>

La enseñanza de la Geografía en Costa Rica inició en la Universidad de Costa Rica. Comenzó como la Sección de Geografía e Historia adscrita a la Facultad de Filosofía y Letras en donde se ofrecía la Licenciatura en Geografía e Historia para formar profesores en la enseñanza de la Geografía e Historia en las escuelas y colegios. En ese momento se ofrecían cursos de geografías regionales.

Hacia 1946, la Sección de Geografía e Historia se elevó al rango de Departamento y pasó a formar parte de la nueva Facultad de Ciencias y Letras. Esta nueva Facultad ofrecía la licenciatura en Ciencias y Letras y se indicaba en el Diploma la especialidad según el Departamento: Geografía e Historia, Filosofía, Filología, Lingüística, Literatura, Biología, Química, Física y Matemáticas. Para 1956, el Consejo Universitario aprobó el primer plan de estudios de la carrera de Geografía e Historia. Hacia 1973, el Consejo Universitario aprobó el plan de estudios de Bachillerato y Licenciatura en Geografía, con lo cual los y las estudiantes tenían por primera vez la oportunidad de recibir títulos exclusivos en Geografía, separados de los de Historia. Además, se podía elegir entre dos énfasis: Humano o Físico.

Para el año de 1974, la Sección de Geografía se convierte en Departamento bajo la dirección del profesor Rafael Obregón Loría y, junto con el Departamento de Historia forman la Escuela de Geografía e Historia. A la vez en este año, dicha escuela pasa a formar parte de la nueva Facultad de Ciencias Sociales. Dos años más tarde, 1976 y para 1977, se graduaron los primeros estudiantes con el grado de bachillerato y licenciatura en Geografía. Hacia el año de 1990 se abre la Maestría Centroamericana en Geografía y unos años más tarde, el departamento de Geografía logra independizarse de Historia para convertirse en la Escuela de Geografía (1997).

Desde que existe la carrera de Geografía se ha establecido una intensa relación con comunidades, instituciones públicas y privadas por medio de trabajos comunales, investigaciones y estudios de impacto ambiental, ordenamiento territorial y cartografías temáticas.

PROGRAMA:

Para ingresar a la Universidad de Costa Rica, los estudiantes nacionales deben hacer una prueba de aptitud académica. Para aplicación desde el extranjero, existen convenios con algunas universidades, los instructivos para ingresar desde otros países pueden verse en la página: http://www.oaice.ucr.ac.cr/prog_intercambio_acad.htm.

El Programa de Geografía se enmarca en las características de una universidad humanística, el cual busca llevar a un mejor entendimiento del espacio geográfico, situarse ante las problemáticas actuales y desembocar en la acción y ejecución de medidas de ordenamiento y gestión territorial aplicando modernas herramientas geoespaciales. Existe un bloque de materias dedicadas al análisis e interpretación regional, de tal forma que se imparten geografías regionales para Costa Rica, América Central y el Caribe, Norte y Suramérica, y el Mundo. Materias como geografía de América Latina se ofrecen como materias extracurriculares. También, se incursiona en temáticas de carácter ambiental y a la vez, con mirada holística en cursos como Ecología Tropical, Gestión Ambiental, Ordenamiento del Territorio y Geografía del Paisaje para bachillerato y en el plan de licenciatura con Manejo de Áreas Silvestres, Percepción del Ambiente y ordenamientos de o en: cuencas hidrográficas y ambientes costeros, espacios turísticos, urbano y del espacio agrícola. En ocasiones se ofrecen cursos opcionales como Geografía de la Salud y Geomorfología Litoral. Para obtener el título de licenciatura en Geografía y ejercer como profesional se requiere de un total de 159 créditos distribuidos 10 ciclos lectivos o semestres. Asimismo, la Universidad de Costa Rica posee el requisito de 300 horas de trabajo comunal universitario.

Se cuenta con dos maestrías (académica y profesional), la académica constituye la oportunidad para estudiantes de geografía y de ciencias afines de especializarse en materia de estudios territoriales, tanto

aplicados al Ordenamiento como orientados hacia la producción académica de conocimiento. Se creó en 1985 por acuerdo del Consejo Nacional de Rectores (CONARE), con el fin de impulsar el desarrollo de las ciencias geográficas en Costa Rica y el resto de América Central. En 1992 se regionalizó el programa a través de la Confederación Universitaria de Centroamérica (CSUCA).

La Maestría profesional en Sistemas de Información Geográfico y Teledetección es un programa especializado multidisciplinario, ofrecido en forma compartida por la Universidad de Costa Rica (UCR) y la Universidad Nacional de Costa Rica (UNA). Desarrolla temáticas especializadas en teledetección, fotogrametría, geodesia, cartografía, modelado de procesos biofísicos, diseño e implementación de bases de datos espaciales, programación de aplicaciones en SIG, y da una visión administrativa en gerencia y gestión de proyectos de SIG. El director de ambos programas es el Dr. Rafael Arce Mesén.

PLANTA DOCENTE (2014-2015)

Álvarez Vargas, Lisbeth -MSc — Costa Rica. Gestión del Riesgo en Desastres y Atención de Emergencias.
Arce Mesén, Rafael -Dr. Canadá — Cartografía Digital, Sistemas de Información Geográfica
Artavia Rodríguez, Guillermo -MSc. Costa Rica — Biogeografía. Estudios doctorales en Ciencias-UCR
Avendaño Flores, Isabel -Dra. M.Sc. en Población, Dra. Costa Rica — Sociedad y Cultura
Bergoing Guida, Jean Pierre -Dr. Francia — Geomorfología
Birkel, Christian -Dr. Alemania y Escocia — Hidrología
Brenes Quesada, Guillermo -D.E.A. Francia — Geomorfología
Castillo Vásquez, Roberto -Dr. USA — Geografía Cultural y Rural
Cortés Granados, Víctor -M.Sc. Bélgica — Geología y Geomorfología del Cuaternario y Dr. Costa Rica. Sistemas de Producción Agrícola Tropical Sostenible
Cortés Ramos, Alberto -Dr. Inglaterra — Ciencias Políticas y Geografía
Durán Segura, Luis Armando -MSc. Costa Rica y Colombia — Antropología y Estudios Latinoamericanos
Girot Pignot, Pascal -MSc. Francia — Geografía
Granados Chaverri, Carlos L., Dr. USA — Geografía Política y Cultural
Guiérrez Rojas, Rafael -MSc. Costa Rica — Geografía y Turismo
León Alfaro, Yazmín -Lic. Costa Rica
Lizano Araya, Melvin -MSc. Costa Rica, *Sistemas de Información Geográfica y Teledetección*
Martínez Barbáchano, Rubén -Lic. España
Meléndez Dobles, Silvia -Bach. En Historia, Bach. Geografía, MSc. Costa Rica — Geografía. Estudios doctorales en Historia (UCR)
Moría Pérez, Marlon -Lic. Costa Rica
Ramírez Moreira, Olman -MSc. Costa Rica — Estadística
Rodríguez Echavarría, Tania -Dra. Francia-Ciencias Políticas y Geografía
Solano Mata, Francisco -MSc. Costa Rica — Geografía
Zúñiga Venegas, William -Dr. España — Geografía del Paisaje

PROFESORA EMÉRITA

Hall Carolyn, Dra. Inglaterra — Geografía Histórica

DOCENTES REALIZANDO DE ESTUDIOS DE POSGRADO (2015)

Acosta Schnell, Sabine —Maestría en Brasil y Doctorado en Francia (2012-2018), especialidad: Ordenamiento Territorial
Artavia Rodríguez, Guillermo -MSc. Doctorado en UCR (2014-2018), especialidad: Biogeografía
Hernández Meza, Andrey -MSc. Doctorado en Francia (2012-2016), especialidad: Geografía Urbana
Vargas Picado, Huberth —Maestría y doctorado en Francia (2013-2018), especialidad: Geografía Económica y Estudios Regionales

Cascante Campos, Alejandro -Lic. Maestría y doctorado en Estados Unidos (2014-2020), especialidad: Educación Geográfica.

PLANTA PROFESIONAL

Fernández Arce, Mario. -Dr. México — Geología

Hernández Díaz, Ana Lucía -Licda. Costa Rica — en Ciencias Políticas, Egresada Administración Universitaria

Masís Campos, Ramón -MSc. Costa Rica — Sistemas de Información y Teledetección

Reyes Chaves, Jonnathan -MSc. Costa Rica — Sistemas de Información y Teledetección

Solano Mata, Francisco -MSc. Costa Rica — Geografía

UNIVERSIDAD NACIONAL DE COSTA RICA

ESCUELA DE CIENCIAS GEOGRÁFICAS

DATE FOUNDED: 1973

GRADUATE PROGRAM FOUNDED: 2003 (Master)

GRADUATE PROGRAM FOUNDED: 2007 (Master)

DEGREES OFFERED: Diplomado, Bachillerato y

Licenciatura, 2 Maestrías

GRANTED 2013-2016: Diplomado 29, Bachillerato 64 y Licenciatura 34

STUDENTS: Mistril, 21

CHAIR: Master Lilliam Quirós Arias

DEPARTMENT ACADEMIC PROGRAM

COORDINATOR: Doctor Gustavo Barrantes Castillo

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Master Lilliam Quirós Arias lquiros@una.cr (Chair) or Doctor Gustavo Barrantes Castillo gbarrantes@gmail.com Graduate Program Coordinator), Escuela de Ciencias Geográficas Universidad Nacional de Costa Rica. Heredia, Costa Rica. Apartado Postal 86-3000, Phone Number: (506) 2277- 3283; Fax Number: (506) 22-61 0028; <http://www.geo.una.ac.cr> E-mail address: geograf@una.cr.

PROGRAM E INSTALACIONES DE INVESTIGACIÓN:

Incluye áreas de trabajo y proyectos asociados (1) Programa en Sistemas de Información Geográfica y Teledetección (PROSIGTE), Fortalecimiento del Programa de Maestría Interuniversitaria en Sistemas de Información Geográfica (SIG) Y Teledetección (DT) (2) Programa Gestión de Actividades y Proyectos del Área de Ordenamiento Territorial y Planes Reguladores, Planes reguladores cantonales (Poás, Siquirres, Upala, Los Chiles, Guatuso y Esparza). (3) Área de paisaje y territorio: Sinergias entre Paisaje y Turismo en Centroamérica: el caso de Tamarindo, Costa Rica; San Juan del Sur, Nicaragua y Roatán, Honduras. Corredor Verde Fluvial para el Área Metropolitana de Heredia. II Etapa. (4) Área de riesgos naturales: Utilización de Modelaje Computacional y Sistemas de Información Geográfica como Herramientas para la Gestión del Riesgo por Caída de Ceniza Proveniente del Volcán Irazú y el Ordenamiento Territorial en el Valle Central. Aproximación de vulnerabilidades y amenazas en cantones selectos para la observación y diagnóstico de potencial a desastres (5) Manejo de cuencas y recursos asociados: Balance hídrico de la región central de costa rica. El caso de la micro cuenca del río Bermúdez. Programa Integrado de Protección y Manejo Sostenible del Recurso Suelo (6) Servicios de información y divulgación: Servicio de mapoteca virtual para la incorporación de las TIC en las actividades académicas. Revista Geográfica de América Central (7) Programa de Acreditación: Seguimiento a la calidad en la carrera de Ciencias Geográficas con énfasis en Ordenamiento del Territorio.

PLAN ACADEMICO, REQUISITOS DE ADMISION, AYUDA FINANCIERA:

Una carrera de pregrado: Diplomado en Cartografía y Diseño Digital.

Una carrera de grado: Bachiller y Licenciado en Ciencias Geográficas con énfasis en ordenamiento del territorio.

Dos carreras de posgrado; Maestría en Gestión de Turismo de Naturaleza y Maestría en Sistemas de Información Geográfica y Teledetección.

II Ciclos anuales de 17 semanas. Haber aprobado examen de admisión. El plan de Estudio en la CCG es de modalidad presencial, combina horas contacto (que a su vez en la CCG se divide en hora laboratorio, horas de campo, trabajo práctico) y las horas de estudio independiente. Es una carrera de tiempo completo. La Universidad ofrece diferentes modalidades de becas o ayudas económicas. la carrera está acreditada (1 de julio de 2010) por el sistema nacional de acreditación de la educación superior (SINAES), agencia acreditada a nivel mundial por la Red Internacional de Agencias de Aseguramiento de la Calidad de la Educación Superior, conocida por sus siglas en inglés INQAAHE. Mayor información planes de estudio y duración <http://www.geo.una.ac.cr/>.

FACULTY:

Alfaro Chavarría Consuelo, Máster — Cartografía y Enseñanza de la Geografía

Alfaro Sánchez Marvin, Licenciado — Cartografía, Sistemas de Información Geográfica

Alvarado Sánchez Meylin, Máster — Desarrollo Rural Comunitario y Licda. Educación Ambiental y Turismo

Araya Ramírez Iliana, Máster — Geografía Humana y Enseñanza de la Geografía

Arrieta Chavarría Omar, Doctor — Geografía Humana, Ordenamiento Territorial y Epistemología de la Geografía

Arroyo González Luis Nelson, Máster — Recursos Naturales, Fotointerpretación y Desastres Naturales

Barrantes Castillo Gustavo, Doctor — Geografía Física, Gestión del riesgo y geoinformática

Cedeño Montoya, Betsy, Máster — Sistemas de información geográfica y Teledetección

Hernando Echeverría Ligia, Máster — Geografía Física, Hidrología y manejo de cuencas

Miranda Álvarez Pablo, Máster — Ordenamiento Territorial, Turismo, Estadística

Moraga Peralta Julio Cesar, Licenciado — Sistemas de Información Geográfica y Teledetección

Morera Beita Carlos, Doctor — Ecología del paisaje, Planificación ambiental y turismo

Orias Arguedas Lidia, Master — Geografía Humana, Geografía de los Transportes

Orozco Vilches María Elena, Máster — Geografía Humana, Evaluación y Formulación de Proyectos

Greyty Quesada Thompson, Licenciada — Planificación territorial

Quirós Arias Lilliam, Máster — Geografía Humana, Desarrollo Rural

Rivera Jiménez Sergio, Licenciado — Legislación ambiental

Rodríguez Soto Francisco, Máster — Planificación urbano regional y Sistemas de Información Geográfica

Romero Vargas Marilyn, Doctora — Planificación territorial ambiental, paisaje y conservación

Ruiz Hernández Amalia, Licenciada — Cartografía, Sistemas de Información Geográfica

Sandoval Murillo Luis, Máster — Geógrafo, Paisaje y Conservación, Sistemas de Información Geográfica

Solano Mayorga Manuel A., Máster — Sistemas de Información Geográfica y Teledetección

Vega Ramírez Mauricio, Licenciado — Geografía Humana, Ordenamiento territorial, Gestión Municipal

Daniel Avendaño Leadem, Maestría — Sustentabilidad y desarrollo, Geografía ambiental

CUBA

UNIVERSIDAD DE LA HABANA

FACULTAD DE GEOGRAFÍA

FUNDADA EN: 1979

TÍTULO OTORGADO: Licenciado en Geografía

DECANA: Dra. Nancy Pérez Rodríguez

SITIO WEB: <http://geo.uh.cu/site/>

PROFESIONALES QUE HA PRODUCIDO LA
CARRERA: 1200 Egresados

OBJETIVOS DE LA CARRERA:

Constituir un elemento indisolublemente ligado a la formación del futuro profesional. Propiciar el desarrollo y calificación del personal docente para las investigaciones. Garantizar el uso del potencial científico que labora y estudia en la facultad para la solución de tareas específicas del desarrollo económico y social del país. Por ello se ha puesto el énfasis en las investigaciones de carácter aplicado, vinculadas a la solución de problemas sociales, investigaciones que relacionan los trabajos técnicos fundamentales con la práctica, lo que ha sido una vía efectiva y operativa para introducir los resultados de la investigación en la economía, la producción y la organización social. Pueden diferenciarse varias etapas en la consolidación del trabajo científico investigativo.

También se imparten especialidades como Cursos, Diplomados, Maestrías y Doctorados.

Maestrías:

Maestría en “Geografía, Medio Ambiente y Ordenamiento Territorial”, la que comenzó a ofrecerse a partir del curso académico 1995-1996, la que tuvo desde sus inicios por objetivo, la formación de egresados en universitarios con una alta competencia profesional al más alto nivel científico-técnico y con gran rigor académico.

Maestría en “Geografía Militar”, en el curso académico 1997-1998, y que tuvo una duración de dos años. Con un desarrollo exitoso, ejerció una amplia repercusión en la formación de cuadros y oficiales de las FAR, lo que permitió que se ampliara y fortalecieran los vínculos con esta institución.

Diplomados:

Diplomados en “Geoeología de los Paisajes”, así como el diplomado en Medio Ambiente y Ordenamiento Territorial” que comenzó a ejecutarse a partir de Septiembre del 2000. Se han impartido cuatro diplomados en distintas instituciones, relacionadas con el tema de los SIG.

Esta facultad a creado 42 nuevos doctores, que han contribuido con el desarrollo del país.

Profesores de la carrera:

Actualmente la Facultad consta con un claustro integrado por 28 profesores y 2 adiestrados, dedicados a la docencia y a la investigación, de ellos 17 poseen el Título de Doctores en Ciencias Geográficas y 10 el de Master en Geografía Medio Ambiente y Ordenamiento Territorial.

ECUADOR

CENTRO PANAMERICANO DE ESTUDIOS E INVESTIGACIONES GEOGRÁFICAS, CEPEIGE

POINT OF CONTACT: Ing. Nelson Ortega Valencia, Director. E-mail: cepeige@cepeige.org. Website: www.cepeige.org. Teléfono (593) 02 2237 725, 02 2237 733, 02 2541 200. Fax: (593) 02 2509 122

FOR FURTHER INFORMATION WRITE TO: CEPEIGE: Seniergues E4-676 y Gral. Paz y Miño, 3er. Piso del Edificio del Instituto Geográfico Militar. Quito – Ecuador; cepeige@cepeige.org

OBJETIVO: El CEPEIGE tiene por objetivo difundir y estimular el conocimiento de las ciencias geográficas en el Continente, mediante la organización de cursos para post-graduados, realización de investigaciones, organización de eventos científicos especializados, edición de textos y documentos geográficos, y la cooperación con organismos nacionales e internacionales relacionados con su finalidad.

El CEPEIGE, en el marco de sus atribuciones, procura la permanente actualización de los conocimientos geográficos mediante la implementación de eventos de capacitación a nivel presencial y virtual, para lo cual mantiene sus instalaciones y laboratorios adecuados con los recursos tecnológicos y modernos que demanda la Nueva Geografía.

ACTIVIDADES PRINCIPALES:

CURSOS INTERNACIONALES DE GEOGRAFÍA APLICADA

Se realizan con el auspicio del Instituto Panamericano de Geografía e Historia, IPGH, y el Aval Académico de una Universidad del Ecuador, y ocasionalmente con el aval de una Universidad extranjera de prestigio; este evento tiene la categoría de eventos de especialización a nivel de posgrado.

Están dirigidos a profesionales que representan a los países panamericanos, miembros del IPGH, vinculados con las ciencias geográficas, y tratan cada año un diferente tema de actualidad de la Geografía Aplicada, en la modalidad presencial y actualmente con énfasis en la modalidad online. La dirección del evento está a cargo de un Profesor Principal Invitado, experto internacional especializado en el tema, que contará con la colaboración de profesionales ecuatorianos y extranjeros.

Su principal objetivo es especializar a los participantes en aspectos relevantes de la Geografía Aplicada para optimizar su papel de multiplicadores en los campos de la planificación, investigación y docencia geográficas.

El período de duración es de siete semanas a tiempo completo, en la modalidad presencial y de tres meses en la modalidad Online, y se desarrollan entre los meses de agosto y diciembre de cada año. El Curso se divide en dos fases, en la primera se imparte instrucción teórico-conceptual sobre el tema central del evento y sus disciplinas de apoyo, adicionalmente respaldadas por conferencias especializadas y prácticas de campo. La segunda fase comprende la realización de trabajos dedicados al diseño de un proyecto de investigación geográfica aplicado al desarrollo territorial o a la difusión y enseñanza de la Geografía haciendo uso de datos, herramientas virtuales, lectura de publicaciones y trabajo de campo. Cada actividad será acompañada por los facilitadores- tutores en la construcción del informe final de investigación por medio del análisis y procesamiento de la

información obtenida y de acuerdo a los parámetros académicos del curso como requisito para optar por el Certificado de Aprobación.

CURSOS CORTOS PERMANENTES:

En el transcurso del año se dictan cursos de especialización, para la comunidad panamericana tales como:

- Fundamentos Catastrales
- Modelo de Gestión Estratégica de Información Geográfica Territorial
- Conceptos y Aplicación de Geoestadística con el Software Libre R
- Análisis Multivariante Básico para Minería de Datos con el Software Libre R
- Herramientas de Visualización y Análisis de Datos Geográficos y Aplicación con el Software Libre R
- SIG Aplicado al Medio Ambiente
- SIG, Niveles Básico e Intermedio
- Curso Básico de Sistemas de Información Geográfica con Software Libre
- Posicionamiento GPS Diferencial
- Curso/Taller: Mapeo Participativo Comunitario para la Gestión del Territorio con Enfoque en la Reducción de Multi-amenazas
- Modelo de Terreno y Riesgos con Saga GIS y R
- Curso Básico de Herramientas para Investigación Científica
- Curso Básico del Entorno y Lenguaje de Programación R
- Curso: Básico de Diseño de Experimentos Aplicado con R
- Curso: Prospección de Anomalías Geoquímicas y Minerales Usando R
- Curso Básico de Base de Datos Geográfica con PostGis
- Curso Básico de Infraestructura de Datos Espaciales con Software Libre
- Curso: Generación de Cartografía de Pronta Respuesta con Dron
- Curso: SIG Aplicado a Riesgos y Desastres

... y muchos otros temas más de manejo geoespacial, a implementarse por requerimiento institucional.

PONTIFICIA UNIVERSIDAD CATÓLICA DEL ECUADOR

**FACULTAD DE CIENCIAS HUMANAS
ESCUELA DE CIENCIAS GEOGRÁFICAS
FUNDADA EN: 1989**

GRADOS QUE OFRECE: Licenciatura en Geografía y
Territorio (POR APROBARSE)

ESTUDIANTES ACTUALES: 160

DIRECTORA: MSc. Olga H. Mayorga

PARA MAYOR INFORMACION ESCRIBIR A: Olga Mayorga.,
Escuela de Ciencias Geográficas, Facultad de Ciencias Humanas, Av.
12 de Octubre 1076 y Roca, Quito-Ecuador. Apartado Postal 17-01-
2184. Teléfono: 593-2-2991585 Directo. E-mail: ohmayorga@puce.edu.ec.

PROGRAMAS: La Escuela de Ciencias Geográficas de la PUCE forma geógrafos con competencias para ejecutar actividades profesionales relacionadas con la interacción de los seres humanos y la naturaleza física, con énfasis en la visión territorial y ambiental. Para ello, desarrolla en los estudiantes habilidades intelectuales de análisis, síntesis y reflexión sobre los espacios geográficos. Parte importante del pensum está orientada a lograr un dominio del manejo de las técnicas de análisis espacial para su aplicación en la planificación, el ordenamiento territorial y la gestión ambiental.

Los programas que se ofrecían y que al momento se encuentran en **plan de contingencia** (Ingeniería en Ciencias Geográficas y Planificación Territorial y Ciencias Geográficas y Medio Ambiente), debido a la implementación de Nomenclatura y Homologación de Títulos que se ha implementado en el sistema universitario ecuatoriano y que no permite ofrecer títulos de Ingeniería desde la Facultad de Ciencias Humanas, por lo que se ha presentado a la entidad pertinente el Diseño de la Licenciatura en Geografía y Territorio que esperamos ofertar en el año 2019 luego de la aprobación respectiva.

Ingeniería Geográfica y Planificación territorial: Esta carrera forma profesionales preparados para diferenciar y analizar los tipos de ocupación del espacio, apoyándose en fotografías aéreas, imágenes de satélite, trabajo de campo y cartografía. Su mayor fortaleza consiste en estudiar las relaciones sociedad – naturaleza.

Este profesional está en capacidad de:

- Administrar y ordenar adecuadamente los espacios naturales y geográficos.
- Conocer las dinámicas de los paisajes naturales
- Establecer modelos matemáticos para estudiar tendencias y escenarios de ocurrencia de tales fenómenos
- Manejar técnicas de análisis espacial y conocer las bases legales y reglamentarias relacionadas con su especialidad.
- Coadyuvar a detectar, analizar y sugerir las medidas preventivas y de mitigación de algún evento natural que ponga en riesgo a la sociedad.
- Intervenir en la planificación y en el manejo de áreas protegidas, recursos naturales, agro ecosistemas y desarrollo sustentable, principalmente a través de procesos de planificación, diseño de sistemas de monitoreo y control del espacio y del medio ambiente.

Ingeniería Geográfica y gestión ambiental: Esta carrera forma profesionales preparados para diferenciar y analizar las condiciones ambientales del desarrollo humano y la ocupación del territorio. Su trabajo se realiza con el apoyo de fotografías aéreas, imágenes de satélite, trabajo de campo y cartografía asistida por computadora que apuntalan su sólida formación en Ciencias de la Tierra, Ciencias Ambientales y Ciencias Sociales, las que constituyen, propiamente, el campo de su actividad profesional.

Su mayor fortaleza consiste en estudiar las relaciones sociedad – naturaleza, los impactos ambientales y la gestión del territorio y del ambiente, todo esto concebido como un todo holístico que posibilita la vida del Planeta y el desarrollo de la humanidad.

Este profesional está en capacidad de:

- Realizar la gestión adecuada del ambiente, principalmente de sus componentes naturales.
- Realizar la gestión adecuada del territorio, en sus diferentes niveles y jurisdicciones, principalmente en sus componentes jurídico-organizacionales y sociales, relacionándolos con los ambientales (naturales).
- Entender las dinámicas de los paisajes geográficos y realizar las adecuaciones y gestión que sean necesarias.
- Establecer modelos matemáticos para estudiar tendencias y escenarios de ocurrencia de tales fenómenos.
- Manejar técnicas de análisis espacial para la gestión ambiental y territorial.
- Conocer y aplicar las bases legales, reglamentarias y de otro tipo, relacionadas con la gestión del ambiente y del territorio.
- Participar en la identificación, análisis prevención y mitigación de riesgos provenientes de eventos naturales, así como de los riesgos que deriven de las actividades humanas.

- Intervenir en gestión de recursos naturales de todo tipo, de las áreas protegidas, de los agro ecosistemas, sistemas urbanos y del desarrollo sustentable, en general, principalmente a través de procesos de planificación, diseño de sistemas de monitoreo, evaluación y auditorías ambientales y control del medio ambiente y del territorio.
- Intervenir proactivamente en la administración pública del medio ambiente y del territorio nacional mediante su visión holística, integrada e integradora de los componentes naturales, sociales, económicos y normativos de la nación.

Al momento no se está ofertando ningún programa de Maestría.

Profesores/as:

Se indica el nombre, áreas de interés o materias que dicta:

Sheika Aragundi, Ph.D. — Áreas Protegidas, Ecología, Biogeografía
Dinora Hidalgo — Formulación y Gerencia de Proyectos, Contextos e Interculturalidad, Plan de Disertación.

Jorge Campaña, Mag. — Desarrollo Sustentable, Impactos Ambientales, Educación Ambiental

Felipe Valdez Master — Geografía Urbana, Análisis Espacial.

Galo Manrique, Mag. — Geología, Geomorfología, Riesgos Naturales, Cuencas Hidrográficas

Olga Mayorga, MSc. — Planificación Local y Regional, Sistemas de Información Geográfica y Análisis Espacial

Monserath Mejía, Mag. — Sistemas de Información Geográfica, Cartografía Estadística, Bases de Datos

Carlos Nieto, Ph.D. — Agroecología, Recursos Naturales; Proyectos.

Soledad Vásquez, Mags. — Espacio y Sociedad, Cartografía Temática, Catastro.

Jenny Zamora MSc. — Geología, geomorfología, Hidrología.

JAMAICA

UNIVERSITY OF THE WEST INDIES, MONA

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

CHAIR: David Barker

FOUNDED: 1961 (Geology), 1965 (Geography)

DEGREES OFFERED: BA, BSc, BEd, MPhil, MSc, PhD

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Geography and Geology, Kingston 7, Jamaica.
 Telephone: (876) 927-2728/2129. Fax: (876) 977-6029. Email: geoggeol@uwimona.edu.jm; Web: www.mona.uwi.edu/geoggeol/.
 Head of Department: Professor David Barker (Email: david.barker@uwimona.edu.jm).

PROGRAMS:

The University of the West Indies has campuses in Jamaica (Mona), Trinidad (St. Augustine), and Barbados (Cave Hill). Geography and Geology are only offered as degree-level subjects at both the undergraduate and graduate levels (BA, BSc, BEd, MPhil, MSc, and PhD) at Mona in Jamaica (the St. Augustine campus provides a recently introduced BSc in Geography). Undergraduate students are attracted from across the English-speaking Caribbean, although the largest number of students typically comes from Jamaica. Further information in relation to the courses offered by the department is also listed on the departmental website noted above.

ACADEMIC FACULTY:

Geography

Dr. David Barker, Professor and Head of Department — Agricultural Geography

Dr. David Dodman, Lecturer — Urban Geography

Dr. Savitha Ganapathy — Biogeography, Forest Ecology

Dr. Susan Mains, Lecturer — Cultural and Urban Geography

Dr. David Miller, Lecturer — Geomorphology, Quaternary Science

Dr. Balfour Spence, Lecturer — Environmental and Disaster Management

Geology

Mr. Rafi Ahmad, Lecturer — Structural and Environmental Geology, Hazards Mapping

Dr. Trevor Jackson, Professor — Igneous Petrology

Dr. Arpita Mandal — Hydrology, Applied Geology

Dr. Simon Mitchell, Professor — Sedimentary Geology, Rudist Palaeontology

Dr. Edward Robinson, Emeritus Professor — Marine Geology, Physical Geology, Foraminiferal Palaeontology

Dr. Thomas Stemann, Lecturer — Palaeontology

RESEARCH UNITS:

Disaster Studies Unit

Mr. Rafi Ahmad, Lecturer

Earthquake Unit

Dr. Margaret Wiggins-Grandison, Research Fellow

Environmental Management Unit

Dr. Elizabeth Thomas-Hope, Professor

Marine Geology Unit

Dr. Edward Robinson, Emeritus Professor

Ms. Shakira Khan, Research Associate

JOURNALS:

Caribbean Geography

Caribbean Journal of Earth Science

ORGANIZATIONS:

Jamaican Geographical Society

Geological Society of Jamaica

MEXICO

CENTRO DE ESTUDIOS DE GEOGRAFÍA HUMANA CEGH

FECHA DE FUNDACIÓN: 2002

PROGRAMAS DE ESTUDIO: Maestría

CONTACTO PARA PROGRAMA DE POSGRADO: José

Luis Alcauter Guzmán, alcauterg@colmich.edu.mx

POSGRADOS OTORGADOS ANUALMENTE: 1

SITIO WEB: www.colmich.edu.mx

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Para pedir un catálogo y más informaciones, favor de escribir a: José Luis Alcauter Guzmán, Coordinador del CEGH, La Piedad, Michoacán, México, Teléfono: (+52) 3525256107 ext. 2400, cegh@colmich.edu.mx

PROGRAMS AND CAMPUS/ PROGRAMA E

INSTALACIONES: Since September 2004, the Research Center for Human Geography offers a M.A. Program in Human Geography. The

program leads students into contemporary issues related to socio-territorial development and related problems in Mexico and Latin America. Particular emphasis is placed on four research areas: a) Landscape processes; b) Territorial configurations for urban and economic processes and management; c) Territory, political practices and social organization; and, d) Environmental studies: natural risks, social vulnerability and landscape ethnecology.

PROGRAMS AND RESEARCH FACILITIES/ PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Our facilities in La Piedad, Michoacán, Mexico, include: a specialized library, fully-equipped classrooms, a computer laboratory, and work space for all students.

ACADEMIC PROGRAM, ADMISSION REQUIREMENTS AND FINANCIER AID/ PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Beginning in September 2006, the Study Programs at El Colegio de Michoacán will operate on a trimester basis (a total of 8 trimesters expanding over 2 years). During the first 4 trimesters courses on the different fields of human geography (theory, methods, and technical training) are offered. The remaining 4 trimesters are directed at preparing and performing field research. Leading thesis and dissertations with empirical data is mandatory. CONACyT (Mexico's National Council for Sciences and Technology) and El Colegio de Michoacán have a limited number of fully funded scholarships available to qualified applicants. A bachelor's degree in Geography or related fields in the social sciences and a minimum of 3.0/5.0 or equivalent GPA are mandatory requirements to become a fully funded CONACYT scholarship recipient. Other scholarships and research grants may be obtained through the Mexican Ministry of Foreign Affairs' Program for Foreign Students (<http://embamex.sre.gob.mx/nigeria/index.php/en/component/content/article/115>) and the Organization of American States' Scholarship Program (<http://www.oas.org/en/scholarships/>)

FACULTY/PROFESORADO:

Martha Chávez Torres, Ph.D., Université de Corse Pascal Pauli, France — Space, culture and mobility

Octavio González Santana, Ph.D. Universidad de Guadalajara, Guadalajara, México — Space, culture and mobility

Leticia Mejía Guadarrama, Ph.D. Universidad Nacional Autónoma de México — Socio-economic development and territorial transformation

Carlos Téllez Valencia, Ph.D. Universidad Nacional Autónoma de México — Socio-economic development and territorial transformation

Octavio Montes Vega, Ph. D. El Colegio de Michoacán A. C. Zamora, Michoacán, México — Territory, politics practices and social organization

Néstor Corona Morales, Ph. D. Centro de Investigaciones en Geografía Ambiental-Universidad Nacional Autónoma de México, Morelia, Michoacán, México — Spatial analysis for the detection of natural risks and human vulnerability assessment

Nemer Eduardo Narchi Narchi, Ph. D. (2011). The University of Georgia, Department of Anthropology — Socio-environmental studies, ethnobiology, political ecology and biocultural conservation

José de Jesús Hernández López, Ph. D. El Colegio de Michoacán

Ángeles Alberto Villavicencio, Ph. D. Universidad de Granada, España — Process in Landscapes

Nubia Cortés Márquez, Ph. D. El Colegio de Michoacán

José Luis Alcauter Guzmán, Ph. D. El Colegio de Michoacán

A. C. Zamora, Michoacán, México — Political and institutional history and construction and representation of the territory

CENTRO DE INVESTIGACIONES EN GEOGRAFIA AMBIENTAL, UNAM

TIPO DE INSTITUCION: Pública, académica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Investigación, SIG/cartografía

FECHA DE FUNDACION: 17 de Agosto de 2007

SITIO WEB: www.ciga.unam.mx

PARA MAS INFORMACION CONTACTAR: Dr. Gerardo Bocco Verdinelli, Director, UNAM-Campus Morelia Antigua Carretera a Pátzcuaro, 8701, Colonia Ex Hacienda de San José de la Huerta, C.P. 58190. Morelia, Michoacán, México. Telefono: 52 443223865, Fax: 52 4433223880, gbocco@ciga.unam.mx

MISION DEL CENTRO: La misión del CIGA es contribuir a la planificación territorial para el manejo sustentable (aprovechamiento, conservación y restauración) de los recursos naturales en territorios específicos, mediante un programa integrado de investigación, docencia, vinculación y divulgación del conocimiento, con énfasis en la dimensión histórica y geográfica de la cuestión ambiental, en particular en la región centro-occidente del país (México)

ESTRUCTURA Y ORGANIZACIÓN: La toma de decisiones en el CIGA opera con una Dirección y el Consejo Interno (CI, se reúne mensualmente) constituido por 7 miembros: los secretarios académico, técnico y el coordinador de docencia, designados por el director, tres representantes del personal académico (dos por los investigadores y uno por los técnicos académicos, que a su vez conforman la mesa directiva del Colegio del Personal Académico, misma que se reúne bimestralmente) y el director, quien preside el CI. Las comisiones dictaminadora y evaluadora operan como órganos de consulta (se reúnen cuatrimestralmente). Participamos puntualmente en el Consejo Técnico de la Investigación Científica y el Consejo Académico de Área de las Ciencias Sociales de la UNAM (www.unam.mx)

OBJETIVOS: Los objetivos del CIGA, definidos en 2006 y mantenidos a la fecha, son: Realizar investigación científica de excelencia en el campo de la geografía ambiental, fortaleciendo los marcos conceptuales necesarios, en el contexto de la comprensión de la relación histórica entre sociedad-cultura-naturaleza, a partir de la perspectiva del análisis integrado del paisaje abordando temas de investigación emergentes y transversales. Desarrollar, en colaboración con otras dependencias académicas locales, nacionales e internacionales, programas de excelencia para la formación de recursos humanos Vincular las actividades de investigación y docencia con las necesidades concretas de resolución de problemas ambientales, planteadas por los sectores social, productivo y gubernamental, utilizando técnicas de investigación participativa y auspiciando sinergias entre grupos académicos y otros actores sociales, en particular, en la región centro-occidente del país.

PROGRAMAS QUE SE OFRECEN: El CIGA desarrolla su actividad en el marco de cuatro áreas de investigación (bajo la supervisión de la dirección y la secretaría académica) a las cuales se ligan líneas de investigación en torno a las relaciones sociedad-cultura-naturaleza desde un enfoque territorial. Estas áreas son: (a) Ciudad, Región y Ambiente (Ambientes Urbanos y Peri-urbanos, originalmente denominada Sustentabilidad Urbana y Regional) (b) Historia Ambiental, Poder y Territorio, (c) Ambientes Rurales, (d) Ciencia-Sociedad-Innovación. La entidad dispone de dos laboratorios adecuadamente equipados, uno para análisis de suelos y agua, y otro para análisis espaciales (percepción remota y sistemas de información geográfica); una unidad de cómputo; una unidad de vinculación; y un centro de documentación que forma parte de la red UNAM de

bibliotecas. En docencia, el CIGA es entidad responsable del posgrado en Geografía de la UNAM (www.posgrado.unam.mx) y ofrece un programa de maestría en Manejo Integrado del Paisaje y un doctorado tutorial en Geografía (www.ciga.unam.mx)

INSTITUTO PANAMERICANO DE GEOGRAFÍA E HISTORIA (IPGH)

FECHA DE FUNDACIÓN: Febrero de 1928

SECRETARIO GENERAL: César Fernando Rodríguez
Tomeo

ESTRUCTURA Y ORGANIZACIÓN. Su estructura organizativa es la siguiente: Asamblea General, Consejo Directivo, Reunión de Autoridades, Secretaría General, Comisiones de Cartografía, Geografía, Historia y Geofísica, y Secciones Nacionales.

(i) La Asamblea General es su Órgano Supremo y tiene por misión fijar la política científica, administrativa y financiera del Instituto. (ii) El Consejo Directivo es el Órgano Panamericano del IPGH, tiene a su cargo ejercer las funciones de la Asamblea General, durante los intervalos entre las reuniones de ésta. (iii) La Reunión de Autoridades es el Órgano Rector y Coordinador de las actividades del Instituto entre las Reuniones del Consejo Directivo. (iv) La Secretaría General es el Órgano Central y Permanente del IPGH, responsable de la administración, la coordinación de las actividades de sus diversas instancias de gobierno, brinda la asistencia necesaria para el funcionamiento de los mismos, la ejecución de tareas que se le encomienden y vela por el cumplimiento de los acuerdos adoptados para la buena marcha del IPGH. El Secretario General es el representante del IPGH. (v) Las Comisiones son los Órganos encargados de promover el desarrollo científico y técnico de sus respectivos campos de acción en los Estados Miembros, así como de coordinar, estimular y supervisar los proyectos y otros acuerdos de investigación, aprobados por la Asamblea General o el Consejo Directivo. Existen cuatro Comisiones: Cartografía, Geografía, Historia y Geofísica; se subdividen en Comités y Grupos de Trabajo. (vi) Las Secciones Nacionales constituyen los organismos establecidos por cada Estado Miembro, para el cumplimiento de los fines del IPGH en el ámbito de sus respectivos países.

FINES: (i) Fomentar, coordinar y difundir estudios Cartográficos, Geográficos, Históricos y Geofísicos, así como los de sus ciencias afines y de interés para América. (ii) Promover y coordinar el avance científico y técnico, las investigaciones, las relaciones entre instituciones y especialistas, los trabajos y la capacitación en Cartografía, Geografía, Historia y Geofísica. (iii) Impulsar y estimular la cooperación entre las instituciones especializadas de América y las Organizaciones Internacionales, en sus cuatro áreas.

ESTADOS MIEMBROS: Solamente los Estados Americanos son miembros natos del IPGH. Los países de otros continentes pueden ser Observadores Permanentes. Los 21 países que actualmente integran el IPGH en calidad de Estados Miembros son: Argentina, Belice, Bolivia, Brasil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Estados Unidos de América, Guatemala, Haití, Honduras, México, Nicaragua, Panamá, Paraguay, Perú, República Dominicana, Uruguay y Venezuela. Los países Observadores Permanentes son: España, Francia, Israel y Jamaica.

CAPACITACIÓN Y BECAS: A través de sus Comisiones el IPGH ofrece una amplia gama de cursos, talleres y conferencias dirigidas a especialistas y profesionales de las áreas de interés del Instituto, y en general a otros profesionales interesados en la materia.

PROGRAMA CIENTÍFICO-TÉCNICO: El Programa de Asistencia Técnica del IPGH tiene como propósito la ejecución de

proyectos especializados que contribuyan a la integración regional y al desarrollo sostenible en temas específicos: cambio climático, ordenamiento del territorio y desastres naturales.

PARA MAYOR INFORMACIÓN DIRÍJASE A: Secretaría General del IPGH, Ex Arzobispado 29, Colonia Observatorio, 11860 Ciudad de México, México, teléfonos (52-55) 5277-5791 / 5277-58888 / 5515-1910; Fax (52-55) 5271-6172, correo electrónico: proyectos@ipgh.org / <http://www.ipgh.org>

**También lo encuentra como Pan American Institute of Geography and History (PAIGH)*

INSTITUTO POLITÉCNICO NACIONAL

**CENTRO DE INVESTIGACIÓN EN COMPUTACIÓN
LABORATORIO DE PROCESAMIENTO
INTELIGENTE DE INFORMACIÓN
GEOESPACIAL**

FECHA DE FUNDACION: 1996

PROGRAMAS DE ESTUDIO: Maestría, Doctorado

CONTACTO PARA PROGRAMA DE POSGRADO: Dr.

Miguel Jesús Torres Ruiz, mtorres@cic.ipn.mx; Dr.

Oscar Camacho Nieto, oscarc@cic.ipn.mx

SITIO WEB: <http://geo.cic.ipn.mx>

PARA PEDIR UN CATÁLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: MARCO ANTONIO MORENO IBARRA, JEFE DEL LABORATORIO, Mexico, D.F., Telefono: 52-55-57296000 ext 56528, Fax: 52-55-57296000 ext 556607, marcomoreno@cic.ipn.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: Se imparten programas de maestría y doctorado en Ciencias de la Computación, los miembros del laboratorio trabajan en GIS y de forma específica en el área de procesamiento semántico de datos geográficos, en problemas relacionados con la recuperación de información, integración de fuentes de datos, entre otros. Los programas de maestría y doctorado fueron envaluados por el Consejo Nacional de Ciencia y Tecnología (CONACYT), y pertenecen al Programa Nacional de Posgrados de Calidad, en donde ostentan la categoría de Programa de Competencia Internacional y Programa Consolidado. Se busca que los estudiantes desarrollen trabajos que tengan aplicación directa en la resolución de un problema real, además participan en proyectos de investigación aplicada, lo cual les da experiencia para su desarrollo profesional. Los egresados pueden desempeñarse tanto en el sector industrial como educativo, o bien, son aptos para continuar sus estudios. Por el perfil del posgrado en computación, los egresados pueden adaptarse con facilidad a diferentes áreas. Los estudiantes trabajan ya sea en el laboratorio o bien en cubículos, en donde cuentan con el equipo necesario para realizar su investigación. El edificio es cómodo y cuenta con las facilidades necesarias. Adicionalmente, el laboratorio recibe estudiantes de ingeniería para realizar servicio social o tesis de grado.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA

FINANCIERA: Para ingresar a los programas de posgrado los estudiantes participan en procesos de admisión, que consisten en examen de conocimientos, examen de inglés y entrevista. Por la naturaleza de los programas requieren que los estudiantes estén graduados ya sea de ingeniería o maestría según corresponda. Los planes de estudios son enfocados a computación, sin embargo los estudiantes tienen accesos a los cursos que imparte el laboratorio: fundamentos de la ciencia de la información geoespacial, diseño e implementación de bases de datos geoespaciales, herramientas para el

diseño e implementación de gis, métodos de geopronóstico, análisis espacial aplicando técnicas de inteligencia artificial y percepción remota. En el caso de la maestría los estudiantes cursan 4 materias de tronco común (teoría de la computación, matemáticas discretas, programación avanzada y sistemas operativos). Además cuatro cursos optativos, que dependen del tema de tesis que desarrolle el estudiante. Los estudiantes admitidos al posgrado tienen derecho a solicitar un apoyo por parte del CONACYT, adicionalmente el IPN otorga becas, por lo que cada estudiante tiene derecho a un apoyo económico, además existe en el Instituto un programa de formación de investigadores en el que los alumnos pueden acceder a un apoyo económico complementario.

PROFESORADO:

José Giovanni Guzmán Lugo, Dr — Procesamiento digital de imágenes, Web mapping

Marco Antonio Moreno Ibarra, Dr — Generalización, Similitud Semántica, Diseño de GIS

Miguel Jesús Torres Ruiz, Dr — Diseño de ontologías, Bases de datos espaciales

Rolando Quintero Téllez, Dr — Procesamiento semántico de datos raster, ambientes virtuales

UNIVERSIDAD AUTÓNOMA DE CIUDAD JUÁREZ

URBAN STUDIES Ph.D. PROGRAM PLANNING AND URBAN DEVELOPMENT M.A. PROGRAM

GEOINFORMATICS B.S. PROGRAM DEPARTMENT OF ARCHITECTURE INSTITUTE OF ARCHITECTURE DESIGN AND ARTS DATE FOUNDED: 1989

DEGREES OFFERED: Ph.D. in Urban Studies, M.A. in Planning and Urban Development, and B.S. in Geoinformatics.

MAJOR AREAS: Geoinformatics, Urban Planning, Urban and Architectural Space, City and Urban Integration Processes, Urban Territorial Analysis

HEAD: Erick Sánchez Flores, Ph.D.

DEPARTMENT ADMINISTRATOR: Elvira Maycotte Maycotte, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Architecture, Institute of Architecture Design and Arts, Av. del Charro # 410 N. Ciudad Juárez, Chih. 32310, México Telephone: +52 656 688 4820. Fax: +52 656 688 4620. Email: iada@uacj.mx. Web: <http://www.uacj.mx/IADA/DARQ/Paginas/default.aspx>

PROGRAMS AND RESEARCH FACILITIES: The Department of Architecture offers a vertical set of Geography related programs, starting at the B.S. level with the Geoinformatics program open in August, 2009. This B.S. sets the basis for strong spatial curricula from a geotechnology perspective to feed our graduate programs. At the M. A. level it offers the Planning and Urban Development program with a major area in Urban Spatial Analysis and recognized by CONACYT. This was the first graduate program at UACJ, operating since 1989 and source of the Geographic Information Center created in 1993. At the Ph.D. level, the Department offers the Urban Studies program open in January 2010, and also recognized by CONACYT, offering the same Geography related major area in Urban Spatial Analysis available at the M.A. To support the academic and research activities of these programs, the Department has the Urban Territorial Analysis Laboratory (LAUT) equipped with specialized hardware, GIS,

statistics, and Remote Sensing software for all the projects with a spatial component. The advantages of this geotechnological platform are also used in the learning process of grad and undergrad students, professors and research specialists visiting the UACJ. This infrastructure also serves as the basis for a Continuous Education Training program in geotechnology applications for urban and environmental studies. Some of the main applications developed with the support of this research facilities include projects on remote sensing groundwater exploration and geomorphology mapping; watersheds characterization with high resolution Lidar DEMs; GIS landscape units characterization, high resolution remote sensing urban growth monitoring; GIS urban planning applications; land ordinance programs based on geospatial technologies; Lidar terrain analysis and modeling; remote sensing derived riparian ETP, and land use/cover change in urban and rural environments.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The Urban Studies Ph.D. is a 6-semester program offering three major areas: 1. Urban and architectural space, 2. City and urban integration processes, and 3. Urban territorial analysis. Within each of these specialization areas, students can choose from an ample variety of research themes, representing the research interests of faculty. The study plan is organized in two levels. The first two semesters consists of research, interdisciplinary, and specialized seminars. The remaining semesters are devoted to research seminars to complete the thesis work on individual schedules.

The Planning and Urban Development M.A. is a 4-semester program, which offers a complete set of courses in three major areas: 1. Urban design and housing, 2. Urban structure and mobility, and 3. Geospatial analysis for land ordinance. Applications are accepted on a yearly basis. Admission requirements include, among others, passing a preliminary set of short courses in preparation for the beginning of the program, a statement of intention specifying the proposed subject for the thesis, and an interview with the Academic Committee.

The B.S. program in Geoinformatics offers a strong curriculum in spatial analysis, based on four horizontal thematic axes: 1. Geographic Information Systems, 2. Remote Sensing, 3. Programming, and 4. Geostatistics. This B.S. is an 8-semester program accepting applications from students in architecture, geography, engineering, and other related disciplines. The UACJ has a comprehensive set of scholarships for students with excellent GPA at the bachelor level.

FACULTY:

Alatorre Cejudo, Luis Carlos, Ph.D., Universidad de Zaragoza, Spain

— Remote Sensing, Global Change, Hydrology Geomorphology*

Bravo Peña, Luis Carlos, Ph.D., Centro de Investigación en Alimentación y Desarrollo A.C., Mexico — Landscape dynamics, land suitability, land ordinance, Land use land cover change*

Chávez, Javier, Ph.D., University of Arizona, U.S. — Urban development, GIS analysis, Demography

Granados Olivas, Alfredo, Ph.D., New Mexico State University, U.S. — RS-GIS for hydrology and geology, Groundwater research, Soil mapping, Precision agriculture

Gutierrez Casas, Luis Enrique, Ph.D. Universidad Complutense de Madrid, Spain — Urban and regional economy, Urban planning

Hernández Hernández Vladimir, Ph.D. El Colegio de la Frontera Norte, México — Urban geography, Urban mobility.

Llera Pacheco, Francisco Javier, Ph.D., University of Arizona, U.S. — Economic geography, Urban administration, Economic development, Mexico-US border communities

Maycotte Pansza, Elvira, Ph.D. Universidad Autónoma de Colima, Mexico — Architecture, Housing, Urban development, Public urban space

Meza Carpio, Estela, Ph.D., Universidad Carlos III de Madrid, Spain — Aesthetics and urban culture

Rivero Peña, Héctor, Ph.D., Universidad Politécnica de Catalunya, Spain — Urban processes, Urban design, Housing

Rodríguez Sosa, Marisol Ph.D., Universidade Federal do Rio de Janeiro, Brasil — Urbanism and planning theory, Urban public space, Urban cultural landscape

Salazar Gutiérrez, Salvador, Ph.D., Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico — Urban sociology, Urban culture

Sánchez Flores, Erick, Ph.D., University of Arizona, U.S. — GIS-RS of natural human environments, Land use land cover change monitoring, Environmental Geography

Torres Olave Maria Elena, Ph.D. — Land use land cover change monitoring, Environmental Geography

Complementary Staff: faculty from other areas within the UACJ and from peer institutions in the U.S. southwest region and Mexico participate in our academic programs.

*Faculty located in the Cuauhtémoc campus

UNIVERSIDAD AUTÓNOMA DE SAN LUIS POTOSÍ

FACULTAD DE CIENCIAS SOCIALES Y HUMANIDADES

FECHA DE FUNDACION: Agosto de 2002

PROGRAMAS DE ESTUDIO: Licenciatura en Geografía

CONTACTO PARA PROGRAMA DE PREGRADO: Dr.

Humberto Reyes Hernández, hreyes@uaslp.mx

SITIO WEB: <http://sociales.uaslp.mx/licenciaturas/geograf-%C3%ADa>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Dr. Humberto Reyes Hernández, Coordinador de la licenciatura en Geografía, San Luis Potosí, México, Teléfono: 52-444-8321000; ext. 9298, hreyes@uaslp.mx

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: En la licenciatura en Geografía que se imparte en la Universidad Autónoma de San Luis Potosí podrás aprender a estudiar cómo poder organizar nuestro territorio de la manera más armónica, eficiente y ambientalmente sostenible, a ejecutar estudios de localización de puntos (centros comerciales), líneas (carreteras) o áreas (zonas con riesgo de inundación, incendios, terremotos) en un determinado territorio, así como a expresar tus hallazgos en mapas elaborados mediante el uso de software especializado que son los Sistemas de Información Geográfica. Para ingresar debes tener curiosidad geográfica, es decir, interés en la observación de lugares, capacidad para sintetizar e interpretar datos de procesos naturales y sociales, aptitud física e interés por viajar y explorar lugares en México y otras regiones del mundo, habilidades para el trabajo cartográfico, familiaridad en el uso de equipos de cómputo; curiosidad intelectual por conocer los patrones de organización territorial de procesos naturales y sociales; hábito de lectura e interés por el trabajo científico multidisciplinario, así como respeto a la sociedad, la diversidad cultural, social y étnica. Al concluir tus estudios profesionales habrás adquirido conocimientos suficientes para describir y analizar las diferentes formas de organización territorial de la sociedad en un mundo globalizado y proponer soluciones metodológicas a problemas territoriales; conocerás las teorías y metodologías geográficas para entender y explicar el comportamiento territorial de las sociedades. Tendrás las habilidades para describir e interpretar los distintos procesos de organización espacial de la sociedad que conforman paisajes y regiones geográficas definidas, así como para operar software especializado de cómputo y de Sistemas de Información Geográfica, que facilitan la elaboración de mapas y el procesamiento de datos bajo criterios espaciales. Además contarás con capacidades para generar, resguardar e interpretar datos básicos de los sistemas

naturales sociales y económicos para formular visiones sintéticas de los paisajes o regiones geográficas; para representar cartográficamente diferentes tipos de datos; la capacidad para proponer soluciones ecológicamente sostenibles de orden territorial a problemas derivados de una desequilibrada relación entre la sociedad, la naturaleza y la economía, como el cambio climático, el uso y la degradación de los recursos naturales como resultado de la actividad humana, la pérdida de la biodiversidad y los desastres naturales; también podrás realizar evaluación crítica para formular y mejorar programas de asignaturas, textos y otros materiales utilizados para la enseñanza de la geografía. Como geógrafo puedes trabajar en instituciones públicas y privadas de investigación, planeación, gestión territorial y consultorías de proyectos; instituciones de gobierno, asociaciones civiles no gubernamentales que requieran asesoría y servicios profesionales en proyectos cartográficos y sistemas de información geográfica; agencias de viajes, bancos y empresas privadas; instituciones educativas públicas o privadas en los niveles básico, medio, medio superior, superior y posgrado.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA:

Los requisitos que debes cumplir para ingresar a la licenciatura en geografía son: certificado que acredite haber terminado íntegramente los estudios de nivel medio superior en cualquiera de las siguientes modalidades: Bachillerato en Ciencias Socio-administrativas, Físico –matemáticas o químico biológicas, Bachillerato General o único, Bachillerato tecnológico en el área correspondiente y aprobar el examen de admisión, que consta de evaluaciones en materia de salud, psicométrica, de conocimientos y CENEVAL. La licenciatura en geografía tiene una duración de 9 semestres, en los que cursarás 42 materias obligatorias y 5 optativas que están organizadas en cuatro áreas; teórica, metodológica, específica y de contextualización, que combinan la teoría con la práctica de campo, lo que te permitirá conocer y entender mejor las relaciones del medio ambiente con la sociedad de San Luis Potosí, de México y el mundo; además dentro del plan de estudios ya están contemplados tu servicio social y la elaboración del trabajo de titulación; algunas materias optativas te permiten convivir con gente de otras licenciaturas ya que las puedes cursar en cualquier facultad o escuela de la Universidad Autónoma de San Luis Potosí. Todos los profesores cuentan con doctorado y están en constante actualización, tanto en modelos educativos, como en sus áreas de especialización respectivas.

PROFESORADO:

Álvaro Gerardo Palacio Aponte Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Humberto Reyes Hernández Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Javier Fortanelli Martínez Profesor Investigador de Tiempo Completo Doctor en Ciencias Agropecuarias, Facultad de Agronomía, Universidad Autónoma de San Luis Potosí

Miguel Aguilar Robledo Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad de Texas, Austin (USA)

Oscar Reyes Pérez Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

Valente Vázquez Solís Profesor Investigador de Tiempo Completo Doctor en Geografía, Universidad Nacional Autónoma de México

UNIVERSIDAD AUTÓNOMA DEL ESTADO DE MÉXICO

FACULTAD DE GEOGRAFÍA

FECHA DE FUNDACION: 1970

PROGRAMAS DE ESTUDIO: Licenciatura, Maestría, Certificado

CENTROS DE INVESTIGACION: Nodo de Innovación
Geotecnológica Espacial
Laboratorio de Ciencia y Tecnología de la Información Geográfica

POSGRADOS OTORGADOS ANUALMENTE: 2

SITIO WEB: <http://facgeografia.uaemex.mx/FacGeo/>

URL DE PROGRAMA EN LÍNEA: Especialidad en Cartografía Automatizada, Teledetección y SIG
http://facgeografia.uaemex.mx/FacGeo/maestria_cartografia.php
Maestría en Análisis Espacial y Geoinformática
http://facgeografia.uaemex.mx/FacGeo/maeg/index_maeg.php

PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: Marcela Virginia Santana Juárez, Coordinación de Estudios Avanzados, Toluca, Estado de México, Teléfono: 722-215-0255, Fax: 722-214-3182. Correo: geo.inv7@gmail.com

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN:
La Facultad de Geografía oferta dos programas de Postgrado: uno en el nivel Especialización y uno en el de Maestría.

La Especialidad en Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica (ECATSIG) tiene como objetivo “Formar especialistas en Tecnologías de la Información Geográfica, capaces de proponer, desarrollar y liderar proyectos que contengan aplicaciones especializadas de Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica para la solución de problemas concretos de carácter ambiental, tecnológico y socio-económico”. Es un programa intensivo de entrenamiento de carácter profesionalizante y modalidad presencial de un año de duración, abierto a especialistas de diferentes disciplinas que deseen adquirir el dominio de las tecnologías de la información Espacial. Cuenta con dos líneas de trabajo denominadas “Cartografía automatizada y teledetección, y Sistemas de Información Geográfica”. La titulación es inmediata al término de los estudios, mediante la presentación de un reporte técnico de aplicación de las Tecnologías. La coordinadora del programa es la Dra. Norma Dávila Hernández. Contacto: ecatsig@uaemex.mx

La Maestría en Análisis Espacial y Geoinformática (MAEG) tiene como objetivo “Formar maestros altamente capacitados en geoinformática y análisis espacial para la interpretación, modelación y gestión de las estructuras y procesos que se manifiestan en el espacio geográfico”. Es un programa de Maestría escolarizado y presencial de dos años de duración, abierto a egresados de licenciaturas en geografía y especialidades afines, que deseen adquirir experiencia en el análisis del espacio geográfico y el uso de las geotecnologías para analizar y dar solución a problemas contemporáneos. El programa tiene dos líneas investigación, que son: Geoinformática y Análisis Espacial Socioeconómico, Geoinformática y Análisis Espacial del medio físico. La titulación es mediante presentación y defensa de una tesis en un periodo no mayor a seis meses de la conclusión del programa académico. La coordinadora del programa es la Dra. Xanat Antonio Némiga. Contacto: maegi.uaem@gmail.com

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Para ingresar a la Especialidad en Cartografía Automatizada, Teledetección y Sistemas de Información Geográfica, se requiere título de licenciatura en disciplinas que trabajen con análisis y gestión del territorio. Asimismo, la comisión académica dará prioridad a los candidatos que en sus áreas de trabajo estén relacionados con el uso, diseño o análisis de la cartografía automatizada, la teledetección y los sistemas de información geográfica. Es necesario presentar la documentación pertinente, asistir a una entrevista con el Comité Académico del programa y aprobar el curso de inducción. Mayores informes

El programa consta de dos semestres; en los que se cursan materias de tres áreas académicas. En el área básica se incluyen: Adquisición de datos geoespaciales, Métodos de representación cartográfica, Diseño y estructuración de bases de datos, Introducción a los Sistemas de Información Geográfica, Desarrollo de aplicaciones geotecnológicas. En el área metodológica figuran: Cartografía Automatizada, Programación en ambiente de Sistemas de Información Geográfica, Estadística espacial y geoestadística, Taller de integración de reporte técnico, Tratamiento digital de imágenes satelitales, Documentación y calidad de datos geoespaciales, Análisis y modelación espacial en Sistemas de Información Geográfica, Proyecto terminal. En el área de aplicaciones se encuentra: Seminario de innovaciones geotecnológicas, Gestión de proyectos Geotecnológicos y formación humana, Taller optativo.

Para ingresar a la Maestría en Análisis Espacial y Geoinformática se requiere presentar título de una licenciatura afín a las líneas de investigación del programa, presentar la documentación pertinente, asistir a una entrevista con el Comité Académico del programa y aprobar el curso de inducción así como los exámenes psicométricos y del idioma. Para mayores informes se sugiere consultar la página: http://facgeografia.uaemex.mx/FacGeo/maeg/index_maeg.php

La estructura curricular de la Maestría está conformada por 17 asignaturas. Las materias se organizan en tres áreas académicas: básica, de aplicación y complementaria. El área básica incluye los temas: Problemas geográficos contemporáneos, Fundamentos de análisis cartográfico y espacial en SIG, Diseño e instrumentación geoinformática, Diseño e implementación de bases de datos geoespaciales, Estadística espacial y geoestadística, Teledetección aplicada, Planeación estratégica y gestión del territorio, Aplicaciones de SIG, Métodos y Técnicas de modelación espacial. El área de aplicación incluye cuatro seminarios de aplicación innovadora del conocimiento y una estancia de vinculación. El área complementaria contempla las siguientes materias optativas: Ecología y biogeografía, Geografía ambiental, Sistemas urbanos y regionales, Geografía económica y social, Manejo integrado de recursos naturales, Gestión integral de riesgos siconaturales, Desarrollo y procesos sociodemográficos, Modelos de análisis socioeconómico, Tratamiento de imágenes ópticas y de radar, Procesos espaciales de geografía económica, Temas socioeconómicos selectos y Temas selectos de medio ambiente.

Ambos programas se encuentran inscritos en el Padrón Nacional de Postgrados de Excelencia del Consejo Nacional de Ciencia y Tecnología, por lo que ofrecen beca de posgrado nacional de CONACYT para los alumnos que cumplan con los requisitos pertinentes.

PROFESORES ADSCRITOS A LOS PROGRAMAS DE POSTGRADO:

Doctor en Edafología Miguel Ángel Balderas Plata — Contaminación y degradación de suelos, evaluación de tierras, levantamiento de suelos.

Doctor en Geografía Luis Miguel Espinoza Rodríguez — Geomorfología, geografía del paisaje y riesgos.

Doctor en Ciencias Agropecuarias y Recursos Naturales Jesús Gastón Gutiérrez Cedillo — Evaluación de la sustentabilidad, estudios agroecológicos y regionales.

Doctor en Geografía Juan Campos Alanís — Problemas socioeconómicos espaciales, justicia espacial, equidad, marginación.

Doctor en Geografía Fernando Carreto Bernal — Geografía regional, geografía educativa, Agroecología.

Doctor en Geografía Rodrigo Huitrón Rodríguez — Geografía de las actividades terciarias y Geografía Económica

Doctor en Geografía José Francisco Monroy Gaytán — Geoindustrial, Industria de Innovación y del conocimiento.

Doctora en Derecho de la Empresa Elsa Mireya Rosales Estrada — Capital humano y territorio.

Doctora en Geografía Marcela Virginia Santana Juárez — Geografía de la Salud

Doctor en Ingeniería Roberto Franco Plata — Gestión Integrada del Agua y TIG.

Doctor en Educación Bonifacio Doroteo Pérez Alcántara — Educación, Temas Regionales, industria y Turismo.

Doctor en Geografía Noel Bonfilio Pineda Jaimes — Problemas Forestales aplicando Tecnologías de la Información Geográfica

Maestro en Ciencias Ambientales Leonardo Alfonso Ramos Corona — Aplicación de las tecnologías de la Información Geográfica

Doctora en Manejo de Recursos Naturales. Xanat Antonio Némiga — Geoinformación para el manejo de recursos naturales.

Maestra en Análisis Espacial y Geoinformática María Milagros Campos Vargas — Aplicaciones geotecnológicas en SIG.

Maestro en Ciencias del Agua Luis Ricardo Manzano Solís — Gestión Integral del agua, desarrollo de aplicaciones en SIG.

Doctor en Sociología. Edel Cadena Vargas — Geografía Económica y de la Marginación.

Doctor en Geografía. Emilio Baró Suarez — Gestión de riesgos naturales y desastres.

Dra. en Ciencias Sociales. Brisa Violeta Carrasco Gallegos — Geografía Urbana.

Ing. Sandra Lucía Hernández Zetina — Enseñanza y desarrollo de Tecnologías de la Información Geográfica. ECATSIG.

Lidia Alejandra González Becerril — Cartografía automatizada y diseño cartográfico.

L. PUR. Renata Juilliani Ruiz Gutiérrez — Planificación Urbana Regional y Geografía Industrial.

Maestra en Geografía. Inocencia Cadena Rivera — Geografía de Género

Maestro en Geografía. Efraín Peña Villada — Geografía ambiental y Riesgos naturales

Doctor en Educación. Carlos Reyes Torres — Enseñanza de la Geografía, geografía rural.

Doctora en Ingeniería. Raquel Hinojosa Reyes — Geografía del Transporte.

Doctora en Ciencias de la Tierra. Norma Angélica Dávila Hernández — Interferometría de Radar y SAR en procesos geológicos.

Doctora en Geografía – Patricia Flores Olvera — Geomorfología y riesgo

Doctor en Ciencias de la Tierra – Hector Víctor Cabadas Báez — Geología y Geomorfología

UNIVERSIDAD AUTÓNOMA METROPOLITANA (UAM), CAMPUS IZTAPALAPA

COORDINATION OF HUMAN GEOGRAPHY PROGRAM

DATE FOUNDED: 2002

DEGREES OFFERED: B.A. in Human Geography; M.A. and Ph.D. forthcoming

MAJORS: Regional and Economic Geography, Cultural Geography, Environmental Studies

HEAD: Dr. Cristóbal Mendoza

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Coordinador de la Licenciatura en Geografía Humana, Dr. Cristóbal Mendoza, Universidad Autónoma Metropolitana Unidad Iztapalapa, San Rafael Atlixco, 186, edificio H, Colonia Vicentina, Delegación Iztapalapa, CP 09340 México DF. Phone: (52-55) 5804 6466. FAX 5804- 4789. E mail: cmp@xanum.uam.mx. Information also available at: http://dcsh.izt.uam.mx/licenciaturas-geografia_humana/.

PROGRAMS AND RESEARCH FACILITIES: Faculties members develop research in different fields of Geography. Students are invited to participate in the research projects that are coordinated by our faculties. Computer facilities are opened to geography students, including GIS, quantitative methods. Distance education will be developed soon.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: The admission exam are held annually in the period March-July. Every September, a new generation of students start Geography on a trimester-based program- The program consists of 12 trimesters. Ordinary trimesters have 4-5 courses of 4 weekly hours each. Foreign language (English and French) are integrated in the syllabus as compulsory courses. After trimester 8th, students choose specialization among three possible options: (i) City and culture, (ii) regional and economic geography; (iii) environmental studies. Optional courses are available in different schools, as engineering, biology, other social science disciplines, etc. Financial aid is available through official programs (UAM-Federal Ministry of Education). Exchange mobility programs are opened to students of other Latin American universities.

FACULTY (Basic Staff):

Full-time (alphabetical order)

Ludger Brenner, Ph.D., Universität Trier — geography of tourism, environmental governance, environmental studies.

Martín Checa-Artasu, Doctor Ph.D., University of Barcelona, Spain — local economic development, urban geography.

Armando García Chiang, Ph.D., University of Sorbonne, France — economic geography, regional planning, political geography, geography of Mexico.

Adrián Hernández Cordero, Ph.D., Autonomous University of Barcelona — epistemology of geography, cultural geography, urban geography.

Alicia Lindón, Ph.D., El Colegio de México, México — epistemology of geography, cultural geography, urban geography and qualitative methods.

Cristóbal Mendoza, Ph.D., Kings College, London — geography of population, migration studies, quantitative methods. (Coordinator).

Rocio Rosales, Ph.D., National Autonomous University of Mexico (UNAM) — economic geography, regional planning, local economic development, political geography and geography of Mexico.

Paula Soto, Ph.D., Catholic University of Chile — urban geography, cultural geography, qualitative methods, gender studies.

Pedro Sunyer, Ph.D University of Barcelona, Spain — geography and history, epistemology of geography.

Part-time

Víctor Hugo Aquino Illescas, M.A., Metropolitan Autonomous University — environmental studies, cartography, GIS.

COMPLEMENTARY STAFF:

Faculty from other disciplines are working on a partial time basis. Their orientations range from social psychology, cartography, GIS and

remote sensing to anthropology, sociology, history, or economy. Occasionally foreign teachers are integrated temporarily for specific teaching and research activities.

UNIVERSIDAD DE GUADALAJARA

DEPARTAMENTO DE GEOGRAFÍA Y ORDENACIÓN TERRITORIAL

DATE FOUNDED: 1980

DEGREES OFFERED: Licenciatura en Geografía, Maestría en Desarrollo Local y Territorio y Diplomado en Geomática y Gestión del Territorio

HEAD: Hirineo Martínez Barragán, Mtro

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Departamento de Geografía y Ordenación Territorial, División de Estudios Históricos y Humanos de la Universidad de Guadalajara, Av. De los Maestros y Mariano Bárcena CP 44260, Guadalajara, Jalisco, México. Tel. y fax (399) 3819-3381 y 3819-3386. E-mail geografia.extension@csh.udg.mx www.geografia.cucsh.udg.mx

PROGRAMS AND RESEARCH FACILITIES: El plan de estudios de licenciatura responde a las condiciones actuales del conocimiento geográfico y a la problemática que afecta a los territorios especialmente de Jalisco y del Occidente de México. Asimismo, este plan tiene como referente teórico la educación basada en competencias profesionales; con este enfoque se forma a los alumnos desde una perspectiva amplia y se olvida de una especialización muy concreta; se ofrecen los conocimientos básicos para desarrollar destrezas y habilidades que les permitan desempeñarse laboralmente en las áreas que el desarrollo económico de los territorios y las nuevas tecnologías demandan, como son: la detección de riesgos ambientales, la representación cartográfica, los sistemas de información geográfica, el ordenamiento territorial, la conservación de los recursos, la calidad de vida y el desarrollo sustentable, entre otros. El contenido del Diplomado está estructurado en módulos que garantizan un acercamiento al conocimiento de las ciencias de la representación terrestre y a la utilización de las nuevas tecnologías en la aplicación práctica de un problema en específico; considera dos salidas de campo: la primera para el reconocimiento y recopilación de información del área piloto; y la segunda, para la verificación de los resultados obtenidos de la aplicación del sistema de información geográfica del área piloto, y con esto realizar el ejercicio de gestión del territorio. El objetivo principal de la Maestría es formar profesionistas expertos en analizar, gestionar y ofrecer soluciones a los problemas derivados del desarrollo local en su relación con territorios específicos, así como de la dinámica del desarrollo territorial, en la construcción de escenarios actuales y futuros.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: La Licenciatura en Geografía inició en marzo de 1980. El plan de estudios opera en sistema semestral de créditos y con el enfoque de competencias profesionales. Entre las competencias se tienen cuatro: Cartografía, Investigación, Gestión del Territorio y Docencia. El diplomado se ofrece a instituciones interesadas en capacitar a sus colaboradores en el conocimiento y aplicación de los Sistemas de Información Geográfica, con un total de 175 horas. La Maestría inició en 2000, trabaja con un programa escolarizado, tutorial y generacional, mismo que tiene una duración de cuatro semestres (2 años), con énfasis en desarrollo en sociedades locales, regionalización, planificación estratégica y territorio. Consultar requisitos de admisión en la página: www.escolar.udg.mx

FACULTY:

Bertha Márque-Azúa, Dr., Ministerio de la Universidad y de la Investigación Científica y Tecnológica, Italia, 1993, Profesor-Investigador titular "C", Perfil Promep, Investigador Nacional Nivel I — deformación de la corteza terrestre, mediciones por GPS, tectónica, vulcanismo, percepción del riesgo

Andrzej Zeromski-Kaczmarek, Dr., Academia de Ciencias de Polonia, 1981, Profesor-Investigador titular "C" — geografía humana, desarrollo sustentable, ordenamiento territorial

Luís Felipe Cabrales Barajas, Dr., Universidad Complutense de Madrid, 1996, Profesor-Investigador titular "C", Perfil Promep, Investigador Nacional Nivel I — ordenamiento territorial, segregación urbana, estudios de aspectos sociales y funcionales de centros históricos desarrollo local y regional

Miguel Cházaro-Basañez, Dr., Universidad de Guadalajara, Profesor-Investigador titular "C", Perfil Promep — taxonomía botánica

Heriberto Cruz-Solis, Dr., Universidad de Alcalá, España, 1998, Profesor-Investigador titular "B", Perfil Promep, Investigador Nacional Nivel I — sistemas de información geográfica, cartografía y teledetección

Ruth Miranda-Guerrero, Dr., Universidad de Alcalá, España, 2002, Profesor Investigador titular "A", Perfil Promep, Investigador Nacional Nivel I — atlas, sistemas de información geográfica y cartografía

Raúl Acevedo-Rosas, Dr., Instituto de Ecología, A. C., 2003, Perfil Promep, Profesor-Investigador titular "A" — biogeografía y sistemática vegetal

Juan Carlos Sustay-Delgado, Dr., Universidad de Guadalajara, 2005, Profesor-Investigador asociado "B" — ordenamiento territorial, planeación de la educación

José de Jesús Torres Contreras, Dr., Universidad de Guadalajara, 2007, Profesor-Investigador titular "B" — geografía rural

Elba Lomeli-Mijes, candidato a Dr., Universidad del Valle de Atemajac, Profesor-Investigador titular "B" — educación

Javier Rentería Vargas, candidato a Dr., El Colegio de Jalisco, Profesor de carrera titular "B" — planificación urbana y regional, ordenación del territorio, geografía electoral y teoría de la geografía

Pedro Méndez-Guardado, Estudiante de Dr., Universidad de Guadalajara, Profesor-Investigador titular "B", Perfil Promep — ecología, recursos naturales, economía ambiental, ambiente y desarrollo

Hirineo Martínez-Barragán, Estudiante de Doctorado en Ciencias Sociales, Profesor-Investigador titular "B", Perfil Promep — límites territoriales

Margarita Anaya-Corona, estudiante de Dr., Universidad Nacional Autónoma de México, Profesora-Investigadora Titular "A" Nivel I — medio ambiente, calidad de vida

Lucía González-Torreros, Dra, Universidad de Guadalajara, 2010, Perfil Promep, Profesor-Investigador titular "A" — turismo, desarrollo local

María Teresa Rentería-Rodríguez, estudiante de Dr., Universidad Complutense de Madrid, Profesora-Investigadora asociado "A" — geografía social

Carlos Suárez-Plascencia, Estudiante de Dr. Centro de Investigaciones Educación Superior, Profesor-Investigador titular "A", Perfil Promep — riesgos

Juan Pablo Corona Medina, M.C. Universidad de Colima, Profesor-de asignatura — sistemas de información geográfica, geomática

Rosa Olivia Contreras-Urbe, M.C., Universidad de Alcalá, España,, Profesor de asignatura — sistemas de información geográfica, cartografía

Juan Gallardo-Valdéz, M.C., Universidad de Guadalajara, 2005, Profesor de asignatura — salud ambiental, salud pública, contaminación

Mónica González-López, M.C., Universidad de Alcalá, España,, Profesora de asignatura — cartografía, sistemas de información geográfica, teledetección

María Dolores Andrade-García, Estudiante de Doctorado, Universidad de Guadalajara, 2004, Perfil Promep, Profesora-Investigadora asistente "C" — salud pública y cartografía

Martín Vargas-Inclán, M.C., Universidad de Guadalajara, 2005, Profesor-Investigador asistente "C" — desarrollo local, suelos

J. Hildelgado Gómez-Sención, M.C., Universidad de Guadalajara, 2006, Profesor-Investigador asociado "A" — desarrollo local

Abel Hugo Ruiz-Velázquez Castañeda, M.C., Universidad de Guadalajara, 2005, Perfil promep Profesor-Investigador titular "A" — desarrollo local

Fernando Zaragoza-Vargas, M.C., Universidad de Alcalá, Profesor-Investigador asociado "A" — cartografía, teledetección, sistemas de información geográfica

Leticia Loza-Ramírez, M.C., Universidad de Guadalajara, 2003, Profesor-Investigador titular "A" — climatología

Rosalba Castañeda-Castro, M.C., Universidad de Guadalajara, 2006, Profesordocente asociado "B" — docencia, antropológica social, ciencia de la educación, epistemología de la geografía

Mercedes Arabela Chong-Muñoz, M.C., Universidad de Guadalajara, 2002, Profesor-Investigador titular "A" — antropología social

Antonio González Salazar, M.C., Universidad de Guadalajara, 2002, Profesor-Investigador titular "A" — climatología

Ruben Alfonso Rodríguez-Vera, M.C., Universidad de Guadalajara, 2004, Perfil promep, Profesor-Docente titular "B" — desarrollo local, legislación, gestión y ordenamiento territorial

Gustavo Saavedra de la Cruz, M.C., Universidad de Guadalajara, 2004, Profesor-Investigador titular "A" — desarrollo local, riesgos y ordenamiento territorial

Armando Chávez-Hernández, M.C., Universidad de Complutense de Madrid, Profesor-Investigador titular "A" — paisaje

Francisco Copado-González, M.C., Universidad de Guadalajara, Profesor-Investigador asociado "C" — suelos

María del Rocío Castillo-Aja, M.C., Universidad de Guadalajara, 2006, Perfil promep, Profesor-Docente asociado "C" — riesgos, sistemas de información geográfica

María Evangelina Salinas-Escobar, M.C., Universidad de Guadalajara, 2001, Profesor-Investigador titular "B", Perfil Promep — geografía de la población, desarrollo social y trabajo, ordenamiento territorial

Juan de Dios Robles-Pastrana, M.C., Universidad de Guadalajara, 2006, Profesor-Docente asociado "C"

Katía Magdalena Lozano-Uvario, estudiante de Dr., Universidad Nacional Autónoma de México, Profesor-Investigador titular "A", Perfil Promep

Catherine Annick Liot, Dr. Universidad de París, Francia, Profesor-Investigador titular "A", Investigador Nacional, SNI — arqueología

Armando Juárez, M.C., Universidad de Ciudad Juárez, 2004, Profesor-Investigador titular "A" — suelos

Serafín Maldonado-Aguirre, candidato a Doctor., Universidad de Puebla, Profesor-Investigador titular "A" — territorio, región, geografía económica

Ma. del Carmen Macías-Huerta, M.C., Universidad Veracruzana, 1992, Profesor-Investigador titular "C", Perfil Promep — desarrollo regional

Rosa María Sandoval-Sandoval, Candidata a Doctora., Universidad de Guadalajara, 2004, Técnico-Académico asociado "C" — pedagogía y didáctica de la geografía

Luís Valdivia-Ornelas, Cand. M.C., Universidad Nacional Autónoma de México, Profesor-Investigador titular "A" — geomorfología y riesgos

Julián Alberto Flores-Díaz, Candidato a M.C., Universidad de Guadalajara, 2004, Profesor-Investigador asociado "C" — geología

José Fernando Rico-Román, Candidato a Maestro, Universidad de Guadalajara, Profesor-Investigador asistente "C" — educación

Guadalupe Quezada-Chico, Ingeniero Agrónomo, Universidad de Guadalajara, 1993, Profesor-Investigador asistente "C" — suelos

Luz Alejandra Martínez-Castillo, Licenciatura, Universidad de Guadalajara, Profesor de asignatura — cartografía

Moisés, Pérez Muñoz, Ingeniero Civil, 1992, Universidad de Guadalajara, Profesor-Docente titular "B" — cartografía, hidráulica, matemáticas

UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

**COORDINACIÓN DEL PROGRAMA DE POSGRADO
EN GEOGRAFÍA**
**FACULTAD DE FILOSOFÍA Y LETRAS – INSTITUTO
DE GEOGRAFÍA**
**ESTRUCTURA ACTUAL DEL PROGRAMA DE
POSGRADO EN GEOGRAFÍA APROBADA:**
 Diciembre de 1998
GRADOS QUE SE OTORGAN: Maestro en Geografía y
 Doctor en Geografía
ALUMNOS EN LA MAESTRÍA: 50
ALUMNOS EN EL DOCTORADO: 36
COORDINADORA ACTUAL: Dra. Laura Elena Maderey
 Rascón
ASISTENTE ACTUAL: Lic. Macario Arredondo Romero

**PARA MAYOR INFORMACIÓN Y SOLICITUD DE
CATÁLOGO ESCRIBIR A:** Coordinación del Programa del
 Posgrado en Geografía. Facultad de Filosofía y Letras. Universidad
 Nacional Autónoma de México (UNAM). Ciudad Universitaria, C. P.
 04510. Delegación Coyoacán, D. F., México. Teléfono (5255) 55-50-
 69-75. Correo electrónico: geografia@correo.posgrado.unam.mx
 Internet: www.igeograf.unam.mx/posgrado/.

PROGRAMA DE INVESTIGACION (My D): En la impartición de
 los Programas de Maestría y Doctorado en Geografía figuran como
 entidades participantes El Colegio de Geografía, el Instituto de
 Geografía y el Centro de Investigaciones en Geografía Ambiental
 (CIGA), todos de la Universidad Nacional Autónoma de México
 (UNAM).

La Maestría tiene tres campos de conocimiento vigentes y dos nuevos
 en proceso de aprobación. Los vigentes son Sociedad y Territorio,
 Ordenamiento Territorial y Geografía Ambiental y los nuevos,
 Manejo Integral del Paisaje (MIP, que se imparte en la sede del CIGA
 en la Ciudad de Morelia) y Geomática. El Plan de Estudios está
 formado por 14 cursos en promedio y 90 créditos en total. Hay
 variaciones entre los distintos campos de conocimiento, pues mientras
 que el del MIP se sigue un formato de cursos intensivos, en los otros
 campos de conocimiento los cursos son semestrales. Después de
 aprobar los cursos, se debe defender y aprobar una tesis ante un jurado
 de cinco sinodales pero existen otras modalidades de titulación, como
 la presentación de un examen de conocimientos, por Informe
 Académico y otros que están actualmente en revisión.

Por su parte, el Doctorado sigue un formato tutorial, en el cual el
 estudiante realiza una investigación bajo la supervisión de un tutor y
 un Comité Tutor con otros dos sinodales más. Para obtener el grado,
 se debe aprobar un examen de candidatura entre el cuarto y quinto
 semestre, publicar avances de la investigación en revistas indizadas o
 en capítulos de libro dictaminados y es factible realizar una estancia
 de investigación hasta por un año en otra institución nacional o
 internacional de prestigio, con el aval de su tutor. Por último, el
 doctorando defiende una tesis escrita ante un jurado formado por
 cinco sinodales de los cuales, dos son preferentemente externos al
 Programa.

En ambos caso, es deseable que el estudiante se incorpore a un proyecto de investigación que realice su tutor.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: El programa de Maestría se realiza en dos años y el de Doctorado en cuatro. La convocatoria de ingreso se publica a principios de cada año, el proceso de selección dura, aproximadamente tres meses y quienes son aceptados, inician sus estudios en el mes de Agosto del mismo año.

Los requisitos de admisión en Maestría son contar con un título en Geografía o disciplinas afines (Biología, Sociología, Ecología o Economía, entre otras), un promedio mínimo de ocho (8) o su equivalente en países que evalúan en una escala diferente del 1 al 10, presentar un protocolo de investigación, en el cual la dimensión geográfica del problema por investigar es relevante. El protocolo deberá estar avalado por un tutor del Posgrado, mismo que debe obtener dos de tres dictámenes positivos. También se debe aprobar un examen de conocimientos y una entrevista personal y presentar un examen psicométrico.

Para ingresar al Programa de Doctorado se requiere contar con un título de Maestría en Geografía o disciplinas afines, presentar y aprobar un protocolo de investigación avalado por un tutor del Programa y una entrevista personal y presentar un examen psicométrico.

En ambos caso, los aspirantes extranjeros, deberán realizar los trámites correspondientes ante el Instituto Nacional de Migración de la Secretaría de Relaciones Exteriores.

Los aspirantes que son aceptados en el Programa, son postulados para obtener una beca del Gobierno de México a través del Consejo Nacional de Ciencia y Tecnología (CONACYT) en donde se decide su otorgamiento. También existe la posibilidad de obtener becas complementarias para realizar una estancia corta de investigación en otros Programas de calidad, dentro o fuera del país, a través de CONACYT y de la propia UNAM.

TUTORES

Aceves García, Mauricio, Maestro en Geografía — Fotointerpretación.

Aguilar Martínez, Adrián Guillermo, Doctor en Filosofía, University College, Universidad de Londres, Gran Bretaña — Geografía urbana y regional.

Aguirre Gómez, Raúl, Doctor en Ciencias, University of Southampton, Inglaterra — Percepción remota marina.

Alcántara Ayala, Irasema, Doctora en Filosofía, University of London, King's College London — Peligro, vulnerabilidad y riesgos.

Astier Calderón, Marta, Doctora en Ciencias Biológicas, UNAM. Facultad de Ciencias — Agricultura ecológica.

Bautista Zúñiga, Francisco, Doctor en Ciencias Biológicas, UNAM. Facultad de Ciencias — Geoquímica ambiental.

Bocco Verdinelli, Gerardo, Doctor en Ciencias Geográficas, Universidad de Ámsterdam — Geografía ambiental.

Bollo Manent, Manuel, Doctor en Geografía, Facultad de Geografía Universidad Estatal de Moscú — Geoecología del paisaje.

Burgos Tornadú, Ana Laura, Doctora en Ciencias Biológicas, Posgrado en Ciencias Biológicas. UNAM — Sistemas ambientales complejos.

Bustos Trejo, Gerardo, Doctor en Historia, UNAM — Geografía histórica.

Calderón Aragón, Georgina, Doctora en Geografía, UNAM — Geografía social.

Carrillo Rivera, Joel, Doctor en Filosofía, Universidad de Londres, Gran Bretaña — Hidrogeología.

Casado Izquierdo, José María, Doctor en Geografía, UNAM — Cartografía temática y ordenamiento territorial.

Chias Becerril, Luis, Doctor en Geografía, Université de Toulouse, Francia — Geografía del transporte.

Coll-Hurtado Oliva, María Francisca Atlántida, Doctora en Geografía, UNAM — Geografía histórica y económica de México.

Commons de la Rosa, Áurea Carlota, Doctora en Geografía, UNAM — Geografía histórica.

Correa Pérez, Genaro, Doctor en Geografía, UNAM — Geografía física y económica

Cram Heydrich, Silke, Doctora en Ciencias, Universidad Agrícola de Hohenheim, Stuttgart, Alemania — Contaminación y degradación de suelos.

De La Vía, Alejandra Larrazabal, Maestra en Información de suelos para el manejo de los recursos naturales — SIG participativo.

Delgado Campos, Genaro Javier, Doctor en Urbanismo, UNAM — Interfase urbano regional.

Echanove Huacuja, Flavia, Doctora en Ciencias Antropológicas, Universidad Autónoma Metropolitana — Geografía agrícola de México.

Espinoza Rodríguez, José Manuel, Maestro en Geografía, UNAM — Geografía ambiental, biogeografía y recursos naturales.

Fernández Christlieb, Federico, Doctor en Geografía, Université de Paris IV, Sorbonne, París, Francia — Geografía cultural.

Galicia Sarmiento, Leopoldo, Doctor en Ecología, UNAM — Ecología del paisaje.

García de León Loza, Armando, Maestro en Geografía — Geografía cuantitativa aplicada, análisis urbano y regional.

García Romero Arturo, Doctor en Geografía, Universidad Complutense de Madrid, España — Geoecología del paisaje.

Garibay Orozco, Claudio, Doctor en Ciencias Sociales, CIESAS — Paisajes mineros.

Garza Merodio, Gustavo Gerardo, Doctor en Geografía, Universidad de Barcelona, España — Geografía histórica.

Gómez Mendoza, Leticia, Doctora en Geografía, UNAM — Cambio climático y efectos en el ecosistema.

Gómez Rey, Patricia, Doctora en Geografía, UNAM — Geografía histórica.

Gómez Rodríguez, Gabriela, Maestra en Ciencias, UNAM — Prospección de recursos naturales mediante SIG y PR.

Gómez Rojas, Juan Carlos, Doctor en Geografía, UNAM — Agroclimatología y geografía cultural.

Gutiérrez Vázquez, María Teresa, Doctora en Geografía, Universidad de Paris Sorbona — Geografía urbana-regional.

Hernández Cerda, Ma. Engracia, Doctora en Ciencias, UNAM — Hidroclimatología.

Hernández Santana, José Ramón, Doctor en Ciencias Geográficas, Instituto de Ciencias, ex URSS — Geomorfología.

Ibarra García, Verónica, Doctora en Geografía, UNAM — Geografía política.

Jiménez Ortega, Jorge, Doctor en Geografía — Recursos naturales, Áreas Naturales Protegidas y actores sociales.

Juárez Gutiérrez, María del Carmen, Doctora en Geografía, UNAM — Geografía de la población.

Legorreta Paulín, Gabriel, Doctor en Geología, Universidad de Búfalo, USA — Peligro, vulnerabilidad y riesgos.

López García, José, Doctor en Ciencias con especialidad en Biología, UNAM — Geografía de la población y ambiente.

López Levy, Liliana, Doctora en Geografía — Geografía cultural.

López López, Álvaro, Doctor en Geografía, UNAM — Geografía de género.

Lugo Hubp, José Inocente, Doctor en Ciencias Geológicas, Universidad Estatal de Moscú, Lomonosov, Moscú — Geomorfología volcánica y antrópica.

Maderrey Rascón, Laura Elena, Doctora en Geografía, UNAM — Hidrogeografía.

Martínez Luna, Víctor Manuel, Maestro en Geografía — Hidrogeografía, geografía física y geomorfología de cuencas pequeñas.

Mas Caussel Jean Francois, Doctor en Ciencias Geográficas, Universidad Paul Sabatier, Toulouse, Francia — Percepción remota.

McCall Keith, Michael, Doctor en Geografía, Northwestern University, Evanston IL, USA — Mapeo participativo-SIG.

Mendoza Cantú, Manuel Eduardo, Doctor en Ciencias de la Tierra, UNAM — Instituto de Geofísica, Manejo de cuencas.

Mendoza Vargas, Héctor, Doctor en Geografía, Universidad de Barcelona, España — Geografía histórica.

Moncada Maya, José Omar, Doctor en Geografía, UNAM — Geografía histórica.

Morales Manilla, Luis Miguel, Maestro en Ciencias — Cartografía y SIG.

Morales, Jaime, Licenciado en Geografía — Estadística aplicada.

Navarrete Pacheco, José Antonio, Maestro en Ciencias de la Geoinformación y Observación de la Tierra — Peligros y riesgos naturales.

Olivera Martínez, Patricia, Doctora en Geografía, UNAM — Geografía urbana.

Oropeza Orozco, Oralia, Maestra en Ciencias, Vulnerabilidad y riesgos naturales — Actores sociales.

Ortiz Álvarez, María Inés, Doctora en Geografía, UNAM — Geografía de la población.

Ortiz Pérez, Mario Arturo, Doctor en Geografía, UNAM — Geomorfología estructural.

Osorno Covarrubias, Javier, Maestro en Ciencias de la Computación, Ciencia y tecnología de la información geográfica.

Padilla y Sotelo, Lilia Susana, Doctora en Geografía, UNAM — Geografía de la población y del ambiente.

Palacio Prieto, José Luis, Doctor en Geografía, UNAM — Geomorfología ambiental.

Pensado Leglise, María de los Ángeles, Maestra en Geografía, UNAM — Geografía de la educación.

Priego Santander, Angel Guadalupe, Doctor en Ecología y Manejo de Recursos Naturales, Instituto de Ecología, Xalapa. Veracruz, México — Geoecología del paisaje.

Propin Frejomil, Enrique, Doctor en Filosofía, Universidad Karl Max, Leipzig República Democrática Alemana — Geografía económica.

Quintero Pérez, José Antonio, Maestro en Ciencias, Análisis Espacial — Infraestructura de datos espaciales.

Ramírez Herrera, María Teresa, Doctora en Ciencias Geológicas, The University of Edinburgh, United Kingdom — Dinámica y evolución del relieve.

Ramírez Ramírez, Isabel, Doctora en Geografía, Facultad de Geografía e Historia, Universidad Complutense de Madrid — Dinámica de la vegetación.

Reyna Trujillo, Teresa de Jesús, Doctora en Ciencias, UNAM — Biogeografía.

Salmerón García, Olivia, Maestra en Urbanismo, UNAM — Percepción remota y urbanización.

Sámamo Pineda, Carmen, Maestra en Geografía, UNAM — Geografía de la educación.

Sánchez Crispín, Álvaro, Doctor en Filosofía, Universidad de Londres, Gran Bretaña — Estructura territorial de la economía.

Sánchez Salazar, María Teresa, Doctora en Geografía, UNAM — Ordenamiento territorial.

Skutsch, Margaret, Doctora en Geografía, University of Twente in the Netherlands — Manejo forestal comunitario.

Suárez Lastra, Manuel, Doctor en Geografía, UNAM — Estructura urbana y transporte.

Urquijo Torres, Pedro Sergio, Maestro en Historia — Historia ambiental.

Vázquez Selem, Lorenzo, Doctor en Geografía, Universidad Estatal de Arizona, EUA — Geomorfología, geomorfología volcánica y dendrocronología.

Velásquez Montes, José Alejandro, Doctor en Ecología del Paisaje, Universidad de Amsterdam — Ecología del paisaje.

Vieyra Medrano, José Antonio, Doctor en Geografía, Facultad de Geografía e Historia, Universidad Complutense de Madrid — Geografía urbana.

Winton Ailsa, Margaret Anne, Doctora en Geografía, Universidad de Londres, Gran Bretaña — Geografía de la pobreza urbana y la vulnerabilidad social.

Zamorano Orozco, José Juan, Doctor en Filosofía, Universidad Estatal de Moscú, M.V. Lomonosov — Peligro, vulnerabilidad y riesgos.

Zavala Vaca, Hugo, Maestro en tecnologías de la información — SIG.

NICARAGUA

UNIVERSIDAD NACIONAL AUTÓNOMA DE NICARAGUA, MANAGUA

UNAN – MANAGUA
RECINTO UNIVERSITARIO “RUBÉN DARÍO”
FACULTAD DE HUMANIDADES Y CIENCIAS
JURÍDICAS
DEPARTAMENTO DE GEOGRAFÍA
GRADO OFRECIDO: Licenciado en Geografía
DIRECTOR: Magister Ramón Dávila José
E-MAIL: radav_2004@yahoo.com /
depto_geografia@unan.edu.ni

Programa de Licenciatura en Geografía

El Departamento de Geografía como unidad académica perteneciente a la UNAN-Managua, brinda y aporta a la sociedad Nicaragüense la formación de profesionales geógrafos con capacidad para comprender, relacionar y aplicar los aspectos fundamentales de la ciencia geográfica, fomentando en ellos el compromiso social hacia el desarrollo y aplicación de valores éticos, morales, humanistas, en defensa y protección del medio ambiente, los que les permitirá tomar decisiones adecuada para solucionar los problemas generados de la relación hombre-naturaleza.

El Departamento de Geografía cuenta con un cuerpo docente que enseña la Carrera de Geografía a nivel de Pregrado, Educación Continua y Posgrado, realizando investigaciones y extensión universitaria, tal como lo plantea la Misión y Visión de nuestra institución y nos enfocamos en cinco líneas de investigación las cuales están dirigidas a:

- El estudio sobre los Potenciales Turísticos que presenta el Territorio Nacional.
- El análisis de las condiciones medioambientales de las localidades.
- Estudios sobre la problemática de la enseñanza y aprendizaje de la ciencia geográfica.
- Las condiciones socioeconómicas presentadas por las poblaciones urbanas y rurales de Nicaragua.
- El Aspecto Físico –Geográfico de las diferentes regiones del país.
- Estudio sobre el espacio geográfico y el ordenamiento territorial nicaragüense.

El Perfil del Licenciado en Geografía comprende las siguientes competencias profesionales:

- Geógrafo-Investigador
- Capacitador Geográfico
- Promotor para la Protección y Conservación del Medio Ambiente

- Promotor de la prevención de Catástrofes Naturales y Sociales
- Planificador y Ordenador Territorial
- Formador y Evaluador de Proyectos
- Gestor del Desarrollo Comunitario
- Planificador y Gestor de los Sistemas de Información Geográfica

PROFESORES:

Claustro Docente que Integran el Departamento de Geografía de la UNAN – Managua.

Blandón Chavarría Lissette Carolina, Licenciada en Geografía UNAN – Managua.

Cortés Castillo Lidia María, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Didáctica Especial, U.A.B. España.

Brenes Cano Francisca Amparo, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Población y Medio Ambiente, U.A.B. España.

Dávila José Ramón, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Didáctica Especial, UNAN - Managua.

D Trinidad Almanza Ana María, Licenciada en Geografía UNAN – Managua.

Delgado Alemán Dimas Antonio, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Metodología de la Investigación, U.A.B España.

Espinoza Rivera Samanta María, Licenciada en Geografía UNAN – Managua.

Jirón García Alfonso, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Metodología de la Investigación, U.A.B España.

Mena García Bertha Adilia, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría de Ciencias en Geografía, WKU-USA, Wester

Picado Juárez Eduardo, Licenciado en Ciencias Sociales, UNAN – Managua, Maestría en Medio Ambiente, U.A.B. España.

Rivas Rivas Enrique Ernesto, Licenciado en Geografía UNAN – Managua.

Úbeda Trujillo Ingrid Elizabeth, Licenciada en Geografía UNAN – Managua.

PANAMA

UNIVERSIDAD AUTONOMA DE CHIRIQUI

FACULTAD DE HUMANIDADES
DEPARTAMENTO DE GEOGRAFÍA
FUNDADO EN: 1974
DIRECTOR: Magíster Rodrigo Martínez

PARA MAYOR INFORMACIÓN: Magíster Rodrigo Martínez, Universidad Autónoma de Chiriquí, Facultad de Humanidades, Departamento de Geografía, Estafeta Universitaria, República de Panamá, Provincia de Chiriquí, Ciudad de David Teléfonos (507) 774-5194, Extensión 111, Correo Electrónico: rodmart1@hotmail.com.

LICENCIATURAS: Licenciatura en Geografía e Historia, Licenciatura en Recursos Naturales, Licenciatura en Turismo con dos énfasis: 1) Turismo Ecológico, 2) Turismo en Hotelería y Restaurante

MAESTRÍAS: Maestría en Geografía, Maestría en Recursos Naturales, Maestría en Turismo

PROGRAMA DE LICENCIATURA EN GEOGRAFÍA E HISTORIA

Director: Magíster Rodrigo Martínez

Esta carrera ofrece las bases para obtener una clara comprensión del medio geográfico integralmente, la superficie terrestre y sus regiones constitutivas, así como también la interacción existente entre ese medio y la vida humana con sus acontecimientos a través de los distintos períodos históricos. El estudio de la Geografía va asociado al de Historia y en su estructuración aparece igual número de asignaturas y créditos para ambas disciplinas, cuyo plan de Estudio lo integra Lengua y Literatura Española, Panamá en el Mundo Americano, Introducción a la Filosofía, Introducción a las Ciencias Naturales, Inglés, Francés, Introducción a las Ciencias Políticas, Principios de Geografía, Principios de

Sociología, Geografía Matemática, Geografía Humana I y II, Geografía Física I y II, Introducción a la Cartografía, Geografía Política, Metodología y Técnica de la Investigación Geográfica, Geografía Regional de Panamá, Geografía Regional de América, Geografía Regional de Eurasia, África y Oceanía, Relaciones de Panamá y Estados Unidos, Historia de Oriente, Grecia y Roma, Antropología, Prehistoria de Panamá, Historia de la Época Hispánica, Etnografía de Panamá, Historia de la Edad Media, Historia de Panamá Unión a Colombia, Historia de Panamá Época Republicana, Historia Moderna, Historia Contemporánea, Historia de las Ideas en América y Trabajo de Graduación.

PROGRAMA DE LICENCIATURA EN RECURSOS NATURALES

Directora: Magíster Janeth Valenzuela

La Licenciatura en Recursos Naturales está amparada por la Idoneidad Profesional que le ha sido otorgada por el Consejo Técnico Nacional de Agricultura, lo cual le permite a los egresados de esta importante carrera, ejercer en todo el territorio nacional. El programa comprende: Química Básica, Biología General, Cálculo Diferencial, Informes, Inglés Técnico, Historia de Panamá, Geografía de Panamá, Introducción al Análisis Químico, Bioestadística, Recursos Naturales de Panamá, Metodología de la Investigación Científica, Ecología Humana y Ambiental, Informática, Mediciones Forestales, Biometría de los Recursos Naturales, Ecosistemas Costeros, Manejo de Áreas Silvestres, Agroecosistemas, Planificación de Aguas y Riego, Silvicultura, Transferencia y Extensión Ambiental Comunitaria, Inventario y Evaluación de Recursos Naturales, Agroforestería, Manejo de Agroquímicos, Contaminación Ambiental, Geografía Física, Producción Forestal, Gestión Administrativa Aplicada a los Recursos Naturales, Educación Ambiental, Fuentes Alternas de Energía, Economía Agrícola, Estudios de Impacto Ambiental, Mitigaciones Ambientales, Valoración y Sostenibilidad de los Recursos Naturales, Biodiversidad, Legislación de los Recursos Naturales, Formulación y Proyectos Ambientales y Trabajo de Graduación.

PROGRAMA DE LICENCIATURA EN TURISMO

Directora: Magíster Luis Hervey

El programa comprende: Introducción al Turismo, Informática aplicada al Turismo, Inglés Conversacional, Redacción y Elaboración de Informes, Biología General, Educación Física, Geografía de Panamá, Geografía Turística Mundial, Contabilidad Fundamental, Geografía Turística de Panamá, Métodos y Técnicas de Investigación, Historia de Panamá, Admón. de Empresas Turísticas, Cartografía Digital, Admón. de Recursos Humanos, Planificación Elaboración y Evaluación de Proyectos Turísticos, Sistema de Información Geográfica, Mercadeo Turístico, Sociología Turística, Geografía Económica, Relaciones Humanas, Agroturismo, Promoción Turística.

ENFASIS EN TURISMO ECOLOGICO

Manejo de Parques y Áreas Silvestres, Ecología de Panamá, Legislación Turística, Fitogeografía, Zoogeografía, Inglés Conversacional IV, Trabajo de Graduación.

ENFASIS EN HOTELERÍA Y RESTAURANTE

Gastronomía y Bebidas, Inglés Conversacional IV, Admón. de Agencias de Viajes, Administración Hotelera, Relaciones Públicas Aplicadas al Turismo, Administración de Restaurantes, Itinerarios y Transporte, Tecnología de Hospedaje, Trabajo de Graduación.

MAESTRÍAS: PROGRAMA DE MAESTRÍA EN MANEJO Y CONSERVACIÓN DE LOS RECURSOS NATURALES Y DEL AMBIENTE

Coordinadora: Magíster Janeth Valenzuela

Busca elevar el nivel académico e investigativo de los docentes y profesionales en ejercicio mediante la adquisición de metodología y técnicas en el Manejo Conservación de los Recursos Naturales y del Ambiente. El programa comprende: Agroecología Avanzada, Metodología de la

Investigación Científica, Experimentación Avanzada, Legislación Ambiental, Sistema de Información Geográfica Aplicada al Manejo de los Recursos Naturales, Biogeografía Neotropical, Contaminación Ambiental, Manejo de Suelos y Agua, Manejo de Vida Silvestre y Espacios Naturales, Auditoria y Evaluación de Impacto Ambiental, Zonificación Agroecológica y Ordenamiento Ambiental, Formulación y Evaluación de Proyectos Ambientales, Gestión Ambiental, Opción de Graduación.

SEMINARIOS DE LA MAESTRÍA

Informática, Lengua Extranjera, Bioética.

* Idoneidad otorgada por el Consejo Técnico Nacional de Agricultura (CTNA).

PROGRAMA DE MAESTRÍA EN GEOGRAFÍA CON ESPECIALIDAD EN GEOGRAFÍA REGIONAL DE PANAMÁ.

Coordinador: Magíster Roque A. Largota G.

La expresión "Geografía Regional de Panamá", condensa el propósito general: pensar en la evolución del desarrollo natural y regional de las sociedades en su contexto territorial, prestando particular importancia a los problemas humanos ambientales y proponiendo opciones desde el punto del ordenamiento territorial. El programa comprende: Geografía Regional de Panamá y América Central, Geografía Cuantitativa, Cartografía y Análisis Espacial, Geografía de la Población de Panamá, Geografía Física de Panamá Recursos Naturales de Panamá, Geografía

Económica de Panamá, Geografía Regional de Panamá, Introducción al SIG y Teledetección, Cartografía Digital, Ordenamiento Territorial, Elaboración de Proyectos de Investigación I, Elaboración de Proyecto de Investigación II, Trabajo de Graduación.

SEMINARIOS DE LA MAESTRÍA

Metodología de la Investigación Geográfica, Informática, Inglés.

PROGRAMA DE MAESTRÍA EN TURISMO.

Coordinador: Magíster Roque A. Largota G.

Objetivos:

Formar profesionales con los elementos teóricos, metodológicos y técnicos que le permitan desempeñarse con eficacia y eficiencia en la administración, dirección y planificación; en empresa, organizaciones e instituciones a la promoción y prestación de servicios turísticos así como en organismos públicos de gestión turística. El programa comprende: Turismo Sostenible, Elementos para el diseño Curricular del Programa de la Asignatura, Inventario del Producto Turístico, Desarrollo Turístico Local, Estadística Aplicada al Turismo, Formulación y Evolución de Proyectos Turístico, Gestión Estratégica del Turismo, Turismo Recreativo, Turismo Geográfico Histórico, Turismo Urbano o Metropolitano,

Turismo Ecológico, Turismo Rural y Agroturismo, Trabajo de Grado-Examen General de Conocimiento/Práctica Profesional/Tesis/Seis Créditos de Doctorado.

SEMINARIOS DE LA MAESTRÍA

Ética del Profesional del Turismo, Informática Aplicada, Lengua Extranjera.

PROFESORES DEL DEPARTAMENTO DE GEOGRAFÍA:

Magíster Ascela Aguña – Panamá Chiriquí, David. Universidad de Cartago

Magíster Michelle Carrillo – Panamá Chiriquí, David. Universidad de Cartago

Magíster Luis Hervey – Panamá Chiriquí, David. Universidad de Cartago

Ingeniero, Magíster Domingo Espinosa – México, Universidad Autónoma Agraria "Antonio Narro"

Ingeniero, Magíster Amael Jiménez – Costa Rica. CATIE

Ingeniero, Magíster Cornelio Franco – México, Universidad Autónoma Agraria "Antonio Narro"

Ingeniero Jarvi Quiel – Panamá Universidad de Panamá

Magíster Rodrigo Martínez – México, UNAM, Geógrafo. Especialista en Evaluación y Conservación de Recursos Naturales

Magíster Gloria E. Hernández de Martínez – México, UNAM, Geógrafa. Especialista en Evaluación y Conservación de Recursos Naturales

Magíster Yolanda del C. Aizpurúa – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Arabella C. de Atencio – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Octavio Caballero – Panamá, UNACHI. Geógrafo

Licenciada Edna R. Villamonte de Castillo – Panamá, UNACHI. Geógrafa

Magíster Luis A. Díez Ríos – Panamá, UNACHI. Geógrafo, S.I.G.

Magíster Catalina Espinosa – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Antonia Ríos de Gutiérrez – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Alexis J. Jiménez B. – México, UNAM. Geógrafo con Especialidad en Evaluación y Conservación de Recursos Naturales

Magíster Roque A. Lagrotta G. – Costa Rica, CATIE. Recursos Naturales

Magíster Adalides Lezcano C. – España Universidad Complutense de Madrid Geógrafa

Magíster Porfirio Navarro J. – Costa Rica, UCR. Geógrafo

Magíster Mirza E. Palacios L. – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Arturo J. Ríos G. – USA, INDIA. Geógrafo

Licenciada India Y. Ríos G. – Panamá, UNACHI. Geógrafa, S.I.G.

Magíster Janeth M. Valenzuela F. – Costa Rica, UCR. Geógrafa, S.I.G.

UNIVERSIDAD DE PANAMÁ

FACULTAD DE HUMANIDADES

DEPARTAMENTO DE GEOGRAFÍA

ESCUELA DE GEÓGRAFO PROFESIONAL

REPÚBLICA DE PANAMÁ, CIUDAD DE PANAMÁ

DATE FOUNDED: 1978

DEGREES OFFERED: Licenciatura en Geografía. Geógrafo Profesional

HEAD: Elías López Otero, M Sc.

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Universidad de Panamá, Facultad de Humanidades, Departamento de Geografía, Escuela de Geógrafo Profesional, Estafeta Universitaria, República de Panamá, Ciudad de Panamá. Elías López Otero, Apartado Postal 0819-10508, El Dorado, Panamá, Panamá. Teléfonos: (507) 523-6614 or (507) 523- 6615 or (507) 6629-9068. Email: panamageo@yahoo.es / panamageo@gmail.com

PROGRAMS AND RESEARCH FACILITIES: El Geógrafo Profesional de Panamá tiene su campo ocupacional en Instituciones Públicas, Privadas, Organizaciones No Gubernamentales y Grupos Consultores, relacionado con Planificación, Medio Ambiente, Evaluaciones de Impacto Ambiental, Manejo de Cuencas, Manejo Costero Integrado, Cartografía, Estudios Urbanos y Rurales, Planificación Turística, Ordenamiento Territorial, Análisis Demográfico, Teledetección, y Sistema de Información Geográfica, Gestión de Riesgos, Mitigación y Reducción de Desastres, entre otras. La formación Académica del Geógrafo Profesional se desarrolla mediante la integración en su Plan de Estudios de 5 Áreas académicas e instrumentales básicas, identificadas con sus respectivas asignaturas.

ÁREAS DE CIENCIAS BÁSICAS:

Matemáticas, Física, Química, Botánica, Estadística.

ÁREAS DE CIENCIAS GEOGRÁFICAS:

Geomorfología, Geología, Meteorología, Climatología, Biogeografía, Geografía Rural, Geografía Urbana, Geografía Cuantitativa, Geografía de Panamá, Hidrografía

ÁREAS DE FORMACIÓN TÉCNICA INSTRUMENTAL:

Cartografía, Cartografía Temática, Fotointerpretación, Topografía y Geodesia, Sistema de Información Geográfica, Sensores Remotos (Teledetección) Planificación de Recursos Hídricos.

ÁREAS DE FORMACIÓN EN GESTIÓN TERRITORIAL AMBIENTAL:

Planificación Regional, Evaluación y Conservación de Recursos Naturales, Geoeología en Zonas Tropicales, Problemas Geográficos de Países en Vías de Desarrollo, Ordenamiento Territorial, Evaluación de Riesgos y Mitigación de Desastres Naturales.

ÁREAS DE CIENCIAS SOCIALES Y CULTURALES:

Historia, Economía, Sociología, Filosofía de la Ciencia, Antropología.

FACULTY:

Cedeño, Héctor, Geógrafo, M Sc. Universidad de Panamá — Cartografía Censal, Ordenamiento Territorial

De León, Israel, Geógrafo, Candidato a Magíster Universidad Santa María La Antigua — Geografía Física y Ecología Tropical

Espinoza, Dalis, Ingeniera Civil, M Sc. Universidad Tecnológica de Panamá — Hidrología y Estadística

López, Elías, Geógrafo, M Sc. Universidad de Costa Rica — Ordenamiento Territorial, Gestión Ambiental y Gestión de Riesgos

Luque, Virgilio, Dr. Geología — Geomorfología, Geología y Derecho

Mola, Julio, Dr. Boudeaux, Francia — Geografía y Ecología Tropical

Mata, Jaime J. Geógrafo, Universidad de Chile — Biogeografía

Meza, Everardo, Ingeniero Civil y Topógrafo. Universidad Tecnológica de Panamá — Topografía y Geodesia

Martínez, Raúl. Geógrafo, M Sc. Universidad de Alcalá, España — Teledetección, Sistemas de Información Geográfica y Cartografía

Ramos, Raúl, Geógrafo, Candidato a Magíster. Centro de Investigaciones Ambientales y Territoriales (CIDIAT), Mérida, Venezuela — Gestión Ambiental y Estudios de Impacto Ambiental

Vargas, Enrique, Geógrafo. Magíster. Universidad Tecnológica de Panamá — Desarrollo Urbano y Regional

PARAGUAY

UNIVERSIDAD NACIONAL DE ASUNCIÓN, PARAGUAY

FACULTAD DE INGENIERIA

CARRERA DE INGENIERIA EN CIENCIAS

GEOGRAFICAS

REPUBLICA DEL PARAGUAY, SAN LORENZO

DATE FOUNDED: 8 de febrero de 1979

DEGREES OFFERED: Licenciatura e Ingeniería en Ciencias Geográficas

POINT OF CONTACT: *Decano* Prof. Ing. Carlos H. Dellavedova. Email: chdellavedova@ing.una.py. *ViceDecano* Prof. Ing. Isacio Vallejos. *Director de Carrera* Prof. Ing. Lorenzo Antonio Centurión, email: centurion@ing.una.py, lcenturion@highway.com.py. *Prof. Ing. Rubén Darío Falcón:* rubendariofalcono@yahoo.com. Website: <http://www.ing.una.py>.

FOR FURTHER INFORMATION WRITE TO: Universidad Nacional de Asunción, Facultad de Ingeniería, Carrera de Ciencias Geográficas, Campus Universitario, San Lorenzo-Paraguay. Teléf: 595 21 585581/4. info@ing.una.py.

PROGRAMS AND RESEARCH FACILITIES:

La Facultad de Ingeniería: La Facultad de Ingeniería de la Universidad Nacional de Asunción se constituye en una referencia en la formación de ingenieros paraguayos, con casi ocho décadas de tradición académica. Los egresados de la FIUNA son ampliamente reconocidos por su sólida base teórica, complementada con un constante interés en la actualización en el estado del arte de las diversas ramas de la ingeniería ofrecidas: Ingeniería Civil, Electromecánica, Industrial, Electrónica y en Ciencias Geográficas. En el año 2006 se ha lanzado con gran expectativa la carrera de Ingeniería Mecánica. Desde su creación como 'Facultad de Ciencias Físicas y Matemáticas', la FIUNA y sus egresados han sido protagonistas principales en el desarrollo de la ingeniería paraguaya, tanto en el campo privado como en las instituciones estatales, resaltando especialmente en los grandes emprendimientos como las represas hidroeléctricas de, Yacyretá y Acaray, obras viales, etc.

La carrera de Ciencias Geográficas: En sus inicios fue creada como *Instituto de Ciencias Geográficas* por resolución N° 1538-02-79 del Honorable Consejo Superior Universitario de la Universidad Nacional de Asunción Acta N° 382 en fecha 8 de febrero de 1979 e inicio sus actividades en el año 1979. Este Instituto conforme lo establece el Estatuto vigente, paso a depender Académica y Administrativamente de la Facultad de Ingeniería desde febrero del año 2000.

Perfil General: El ingeniero en Ciencias Geográficas es un profesional con formación Técnico-Científico capacitado para estudiar, evaluar, investigar, interpretar, analizar y proponer alternativas para el ordenamiento, la planificación territorial, la administración de los Espacios Geográficos, el uso racional de los recursos naturales y del medio socioambiental.

BECAS: Inscripciones a cursos, seminarios, congresos.

Requisitos:

Las Becas serán otorgadas a los estudiantes que reúnan los siguientes requisitos: 1. Estar matriculado en el período académico correspondiente. 2. Ser de nacionalidad paraguaya. 3. Registrar un promedio académico no inferior al 70 % o pertenecer al 25% de los mejores promedios en el período académico inmediato anterior, en cada caso. 4. Haber cursado y aprobado un mínimo de materias, no

menor a 3, y mayor o igual al 50% de las asignaturas en las que se matriculó en el período inmediato. Para el caso de los ingresantes en su primera matriculación, haber obtenido como mínimo, en los Exámenes de Admisión un puntaje mínimo equivalente al 80% del total posible.

PERU

PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ

**FACULTAD DE LETRAS Y CIENCIAS HUMANAS
ESPECIALIDAD DE GEOGRAFÍA Y MEDIO
AMBIENTE**

REPÚBLICA DEL PERÚ, LIMA

DATE FOUNDED: 1987

DEGREES OFFERED: Bachiller en Humanidades con
mención en Geografía y Medio Ambiente. Licenciado en
Geografía y Medio Ambiente (equivalente al título
profesional de Geógrafo)

HEAD: Dra. Ana Sabogal Dunin Borkowska

**PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIÓN,
FAVOR DE ESCRIBIR A:** Dra. Martha Bell, Coordinadora de la
Especialidad de Geografía y Medio Ambiente, Facultad de Letras y
Ciencias Humanas; Pontificia Universidad Católica del Perú. Avenida
Universitaria 1801, Lima 32, Perú. Tel. (511) 626 2000 anexo 4443.
Email: mbell@pucp.edu.pe

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: La
especialidad de Geografía y Medio Ambiente estudia los fenómenos
físicos y humanos que ocurren en la superficie terrestre, de cuya
interacción resultan, en gran medida, las formas de ocupación del
territorio y calidad del ambiente de los lugares. Se ofrece una
formación integral que permite a sus egresados ser especialistas en
localizaciones de actividades económicas y de impactos ambientales.
Se ofrece un ambiente universitario acogedor y un gabinete de
estudios para que los estudiantes.

Puedan desarrollar sus proyectos de tesis y tareas de clase. También
está el Centro de Investigación en Geografía Aplicada que genera
información y conocimiento del espacio nacional y pone en valor la
investigación geográfica para el desarrollo regional y local del Perú.
Los egresados pueden desempeñarse con facilidad y eficacia en el
entendimiento de los fenómenos geográficos, ya sean físicos o
humanos, a escala local, regional o global, lo que agiliza una adecuada
toma de decisiones sobre asuntos de gestión territorial y ambiental.
Actualmente vienen trabajando eficientemente en departamentos de
planificación y organización del territorio de la administración
pública, gobiernos locales, ONGs dedicadas a temas ambientales,
consultorías sobre temas geográficos, y docencia universitaria.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN: Para
ingresar a la especialidad de Geografía y Medio Ambiente (seis
ciclos), los alumnos deben haber completado los cuatro ciclos de
Estudios Generales Letras o Ciencias. Luego completar 128 créditos
de los cuales, 104 son obligatorios, 15 electivos y 09 de libre
disponibilidad. Los créditos obligatorios se distribuyen en Geografía
Física, Geografía Humana, Técnicas de investigación y gestión, de
Integración entre geografía física y humana. Esta formación
balanceada permite a los egresados poder trabajar indistintamente en
el área de geografía cultural o de geografía física, sin mayores
dificultades.

PROFESORADO:

Bell, Martha, Dra. Geógrafa, University of Wisconsin-Madison —
Recursos hídricos, geografía histórica, ecología política

Bernex, Nicole, Dra. Geógrafa, Université de Montpellier—
Planificación urbana, geografía minera, percepción ambiental,
educación ambiental, teledetección

Bohl, Ricardo, Magister Geógrafo, University of Cambridge —
Geografía del turismo, geografía de la población.

*Drenkhan, Fabian, — PhD, Geografía y Ciencias de Sistemas
Terrestres, University of Zurich—*geografía de alta montaña,
cambio climático impactos y riegos, recursos hídricos.

*Makowski Giannoni, Sandro. Dr. rer. nat. (Doctor en Ciencias
Naturales), Philipps Universität Marburg—*Ecoclimatología
tropical, teledetección, química de la precipitación, bosque
tropical de montaña

*Nagata Shimabuku, Miriam, M.Sc. Geógrafa, Université de Liège,
University of Syracuse—*GIS, cartografía

*Novoa Goicochea, Zaniel, Dr., Ingeniero Geógrafo, Universidad
Federico Villareal y PUCP—*Planificación rural, ecogestión de
fronteras

*Sabogal Dunin Borkowska, Ana. Dra. En Ecología, Technische
Universität Berlin, Aelmania. Ing. Agrónoma—*Ecología vegetal

Tavares Correa, Carlos, Dr. Geógrafo, Universidade de Sao Paulo—
Estudios ambientales de zonas litorales, hidrología, edafología

*Timaná de la Flor, Martín Enrique. PhD. Biólogo, University of Texas
at Austin, Texas—*Ecología, recursos forestales

UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS

MAESTRÍA EN GEOGRAFÍA: Mención en “Gestión y
Ordenamiento Territorial”

PROGRAMA DE MAESTRADO FUNDADO EN: 1995.

Con la mención en “Gestión y Ordenamiento Territorial”
desde el 2003

TÍTULOS OFRECIDOS: Magister

DIRECTOR DE LA UNIDAD DE POSTGRADO

FACULTAD DE CIENCIAS SOCIALES: Dr.

Valdemar Espinoza

COORDINADORA DE LA MAESTRÍA EN

GEOGRAFÍA: Dra. Alicia Huamantínco

**PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIONES,
FAVOR DE ESCRIBIR A:** Dra. Alicia HUAMANTÍNCO
Coordinadora de la Maestría en Geografía Unidad de Postgrado de
Facultad de Ciencias Sociales, Universidad Nacional Mayor de San
Marcos. Ciudad Universitaria Avenida Venezuela s/n. Teléfono 00511
6197000 anexo 4003

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN: 1)
Convenio de cooperación académica para el desarrollo de los estudios
de geografía a nivel de postgrado entre la UNMSM y la Universidad
Paris 1, Francia 2) Programa de investigaciones “Dinámicas
Territoriales en la Periferia de Lima Metropolitana” convenio entre la
UNMSM y Agence National de Recherche ANR de Francia

**PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA
FINANCIERA:**

Primer Semestre: Teoría y Método de la Geografía, Medio Físico-
Geográfico, Sociedad, Economía y Territorio, Impacto Ambiental,
Riesgos y Vulnerabilidad

Segundo Semestre: Seminario: Desarrollo Sostenible y Planeamiento
Estratégico, Ordenamiento Territorial - Teoría y Método, Legislación
para el Ordenamiento y Gestión del Territorio, Taller de Investigación
I

Tercer Semestre: Información y Recursos Técnicos para el Ordenamiento, Gestión del Ordenamiento Territorial, Taller de Investigación II

Cuarto Semestre: Temas Sociales Avanzados, Seminario: Propuesta de Ordenamiento Territorial, Taller de Investigación III

PROFESORADO:

Alicia Huamantínco, Doctor, Universidad Federal de Rio de Janeiro Brasil

Hildegardo Córdova, PhD, Universidad de Wisconsin EEUU

Katarzyna Goluchowska, Doctor, Universidad de Varsovia, Polonia

Omar Landeo, Doctor, Universidad Paris I Sorbona

Pierre Foy Valencia, Doctor, Universidad del País Vasco, España

Manuel Dammert Ego Aguirre, Magister

Raúl Lizárraga Bobbio, Magister

Juan Meléndez de la Cruz, Magister

Fausto Asencio, Magister

Juan Guerrero, Magister

Luz Consuelo Muguruza, Magister

Rita Andrade, Magister

PUERTO RICO

UNIVERSITY OF PUERTO RICO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: Program, 1945; Department, 1968

DEGREES OFFERED: Bachelors

STUDENTS: Undergraduates, 145

CHAIR: Ángel David Cruz Báez

DEPARTMENT SECRETARY: Evelyn Ramos Cosme

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Ángel David Cruz Báez, Chairman, Department of Geography, College of Sociales Sciences, , University of Puerto Rico, P.O. Box 23345, San Juan, 00931-3345. Telephone Number: 787 764 0000, exts. 4164 and 2479; Fax Number: 787 773 1709; e-mail address: geografia@uprrp.edu.

PROGRAMS AND RESEARCH FACILITIES: As the only Department of Geography in Puerto Rico, it is the main center for geographic education and research in the Island. Its mission is to offer good quality education with the objective of preparing students to continue graduate studies or to work in the public and private sector. It does this by introducing students to the main traditions in Geography through different approaches: lectures, seminars, field work, field trips and scientific research. It is equipped with a computer cartography, gis, and remote sensing laboratory and offers continued education through a certificate in GIS and seminars in special topics. It also collaborates with different Geography

Departments in the United States by coordinating field trips, exchange students, and by individually working with students who do graduate research in Puerto Rico.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 4 years. *Admission requirements:* interests in the field coincident with those of the Department, and evidence of competence and fulfillment of general admission requirements to the Río Piedras Campus of the University of Puerto Rico. *Financial Aid:* Pell grants and Federal student loans to qualifying students.

FACULTY:

Ángel David Cruz Báez, PhD., Wisconsin-Madison (1977), professor and chairman — agricultural geography, computer cartography, geographic information systems, remote sensing and quantitative methods.

Martiza Barreto Orta, PhD, University of Puerto Rico-Mayagüez (1995) — marine geology and coastal geomorphology.

Carlos J. Guilbe López, PhD., Wisconsin-Milwaukee (1999) — land use and urban development, urban transportation and spatial models, retail activities (shopping centers), sports geography.

Carlos E. Severino Valdez, Dr. rer.nat., Humboldt University-Berlin, (1993), professor and Dean of Social Sciences — urban geography, political geography, economic development.

Francisco Watlington Linares, PhD., Gainesville (1990) — neotropical tropical viticulture, antropogeography of Puerto Rico, historical geography of the New World.

ADJUNCT FACULTY:

José M. Long Mulet, Juris Doctor, Interamerican University of Puerto Rico, M. Public Health, University of Puerto Rico, San Juan — geography and law, population geography

Irvia E. Toledo Rodríguez, M.A. Akron — cartography, geographic information systems

TRINIDAD AND TOBAGO

UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE

FACULTY OF FOOD AND AGRICULTURE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 2012

DEGREES OFFERED: Entry-Level Certificate in

Geography, BSc in Geography (Special), BSc in General Geography (Major), Environmental and Natural Resource Management (Major), MPhil in Geography, PhD in Geography, MSc in Geography (forthcoming)

HEAD OF DEPARTMENT: Dr. Priya Kissoon, geography@sta.uwi.edu.

CONTACT ADDRESS: Department of Geography, Faculty of Food and Agriculture, The University of the West Indies, St. Augustine, Trinidad, West Indies. Phone: 18686622002 ext. 84129 or 83612; Email: geography@sta.uwi.edu. Website: <http://sta.uwi.edu/-ffa/geography/programmes>

PROGRAMS AND RESEARCH FACILITIES: The Department offers several programs which contribute to the development of social and environmental research in the Caribbean region. These include an entry-level Certificate in Geography, BSc. Geography (Special), BSc. General Geography (Major) Environmental and Natural Resource Management (Major), MPhil Geography, PhD Geography, and MSc. Geography that is under development.

Through its program offerings and research, the Department aims to support sustainable social, cultural, economic, and environmental development in the Caribbean region and the wider world. The Department of Geography pursues interdisciplinary research and teaching that brings rigorous spatial analyses to crucial questions about the state of the environment as a home for present and future generations. Undergraduate teaching ensures a mix of quantitative

and qualitative skills and critical thinking, while the postgraduate program allows students to pursue courses across disciplines to support their research inquiries.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Entry-Level Certificate, 1 year; Undergraduate, 3 years; Master of Philosophy, 2 years; Doctor of Philosophy, 3 years including Dissertation; Master in Geography, 1 year (forthcoming).

Admission: Relevant General Regulations of the UWI Board of Undergraduate Studies apply. Currently students are admitted to the ENRM major programme on requirement of two x two unit subjects at CAPE, or 'A' Level equivalent, and a pass in Biology/ Human & Social Biology/Integrated Science at CSEC level OR; 2 CAPE subjects one of which must be Environmental Science or Geography or Biology OR Certificate in Environmental Geography OR; an approved Associate Degree with a minimum GPA of 2.5.

Admission to the BSc Geography degree is based on student performance in the common level 1, requiring a cumulative average GPA of 2.8 across the first year Geography courses. Students are advised and encouraged to apply for transfer to the BSc Geography programme at the end of the first year. Student profiles are assessed by a staff committee and students advised on transfer before the commencement of their second year. Transfer to the BSc Geography degree is not compulsory for students who wish to remain on the major programme.

Graduate Programs: Masters and MPhil-An undergraduate degree in Geography or a related field with a GPA of 3.0 or higher; PhD-Financial Aid: Funding available to citizens of Trinidad and Tobago. Limited Funding available to Caricom Nationals.

FACULTY:

Kissoon, Priya, BA, BEd, MA (York University), PhD (King's College London), Head of Department, Lecturer (Urban Social Geography)

Darsan, Junior, BSc, PhD (UWI), Lecturer (Coastal Geomorphology)
Farrick, Kegan, BSc (UWI), MSc (Univ of Waterloo), PhD (University of Western Ontario), Lecturer (Hydrology)

Gahman, Levi, BSc, BSc, MA (Univ of Kansas), PhD (University of British Columbia), Lecturer (Critical Geography)

Thongs, Gabrielle BSc, MSc, PhD (UWI) Lecturer (Quantitative Spatial Analysis and Modelling)

URUGUAY

ASOCIACIÓN NACIONAL DE PROFESORES DE GEOGRAFÍA- URUGUAY

TIPO DE INSTITUCION: Privada, sin fines de lucro

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Educación; Proporcionar servicios técnicos en materia geográfica y educación

FECHA DE FUNDACION: 23 de setiembre de 1967

REVISTA: Geoespacio

SITIO WEB: www.anpg.org

PARA MAS INFORMACION CONTACTAR: Miguel Ligüera, Presidente de la asociación, Convención N° 1382 oficina 101.

Montevideo, Uruguay. Telefono: 598- 29018730, Fax: 598- 29018730, anpg@adinet.com.uy y anpg@yahoo.com.ar

ESTRUCTURA Y ORGANIZACIÓN: La estructura organizativa es la siguiente: Comisión Directiva; Asamblea Ordinaria y Extraordinaria; Comisión Fiscal; Comisión Electoral. Todos los cargos son honorarios.-Comisión Directiva: compuesta por siete miembros titulares e igual N° de suplentes. Duran dos años y pueden ser reelectos por un sólo período más. Ejerce la dirección y administración de la Asociación, coordina actividades y servicios destinados a sus asociados- -Asamblea ordinaria: se reúne anualmente para considerar memoria, balance y asuntos de interés según los fines de la Asociación.-Asamblea Extraordinaria:se reúne por convocatoria de la Comisión Directiva o a requerimiento de un 15% o más de sus asociados.-Comisión Fiscal: la integran 3 miembros titulares con doble N° de suplentes. Sura dos años y puede ser reelecta por dos períodos más. su función es vigilar la administración de la Asociación y revisión de los balances.-Comisión Electoral: se integra por 3 miembros titulares e igual N° de suplentes. Dura dos años en su función. Tiene a su cargo lo relativo al acto eleccionario, escrutinio y determinación de los resultados, proclamando a las nuevas autoridades.

FINES: Proporcionar servicios técnicos en materia geográfica y educación, jerarquizando la Geografía a nivel Nacional. Se mantendrá ajena a toda tendencia política, religiosa y filosófica, pero tendrá una participación activa en el quehacer cultural de nuestro país. Propicia formas de comunicación permanente entre los docentes, investigadores e instituciones vinculadas a la Geografía. Fines particulares: Divulgación de técnicas didácticas; difusión de información científica, bibliográfica y metodológica. Establecimiento de vínculos con instituciones públicas y privadas que tengan relación con los fines de la institución. Recopilar y difundir experiencias pedagógicas y de investigación. Elaborar material auxiliar al trabajo docente. Incentivar la redacción de trabajos de interés didáctico-científico. Organizar o asesorar trabajos de campo. Organizar encuentros, talleres, conferencias y congresos nacionales, regionales e internacionales.

PROGRAMAS QUE SE OFRECEN: Area de cartografía: cursos de actualización semi presenciales, sobre el uso de la cartografía y los sistemas de información en el nivel secundario. Area de Astronomía: cursillo de Contenidos astronómicos aplicables a los cursos de Geografía de nivel Secundario. Area de Geografía: jornadas de perfeccionamiento sobre Geografía aplicada, utilización de la informática y el trabajo con proyectos con alumnos de bachillerato.

MIEMBROS: Son integrantes de la Asociación los profesores de Geografía en actividad y jubilados residentes en el Uruguay.

EVENTOS ANUALES: Congreso de Geografía y Ambiente. Nacional e internacional (entre 130 y 250 personas asisten cada año).

CENTRO REGIONAL DE PROFESORES DEL NORTE

DEPARTAMENTO DE GEOGRAFÍA

FECHA DE FUNDACION: 26 de Mayo de 1997

PROGRAMAS DE ESTUDIO: Grado asociado/técnico

SITIO WEB: http://www.dfpd.edu.uy/cerp/cerp_norte/index.html

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: María del Rosario Bottino Bernardi, Docente formadora de formadores en Geografía, Uruguay, Telefono: 46220717, Fax: 46220691, cerpnorte@gmail.com

PROGRAMAS E INSTALACIONES DE INVESTIGACIÓN El profesorado mención Ciencias Geográficas ofrece una formación integral que permite a sus egresados desempeñarse como docentes formadores en Geografía, en Enseñanza Media, tanto en la Educación Secundaria, como en las Escuelas Técnicas del país. Se ofrece un ambiente de formación terciaria acogedor, una biblioteca, con un área de estudio y un para que los estudiantes puedan desarrollar sus proyectos de investigación y tareas de clase. Los egresados pueden desempeñarse con facilidad y eficacia en el entendimiento de los fenómenos geográficos, ya sean físicos o humanos, a escala local, regional o global, lo que agiliza una adecuada toma de decisiones sobre asuntos de gestión territorial y ambiental.

PLAN DE TRABAJO DEL DEPARTAMENTO DE GEOGRAFÍA DEL CeRP DEL NORTE: Promover la formación geográfica de los aspirantes al profesorado con solvencia. Consolidar la formación académica permanente de los docentes. Profundizar las actividades de extensión. Promover la actividad de investigación. Ejercer la docencia colaborativamente

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: Para ingresar a la carrera de profesorado de Geografía, los alumnos deben haber completado Educación Secundaria. Luego completar cuatro años, en el que poseen un tronco común de asignaturas, compartidas por las otras opciones de profesorado, y que corresponden a las asignaturas de Ciencias de la Educación; y asignaturas específicas de la Geografía: Geografía Física, Geografía Humana, Geografía Económica, Cartografía, Astronomía para Geografía, Matemáticas para Geografía, Uruguay, Uruguay y la región, Latinoamérica, Países centrales, Países periféricos, Didáctica de la Geografía, Estructura del Mundo contemporáneo, Geología, Geopolítica, Evolución y métodos del pensamiento geográfico, Teoría geográfica; así como cuatro seminarios específicos en Geografía histórica, del Uruguay, Ordenamiento territorial y medio ambiente, Investigación en Geografía. Todas las asignaturas y seminarios son obligatorias; debiendo llegar a una calificación de 5, en una escala de notas del 1 al 12, para tener derecho a rendir examen; pudiendo exonerar, salvo Didáctica, si logran una calificación de 9. Esta formación les permite al egreso, desempeñarse como docentes formadores en Geografía, en Enseñanza Media, tanto en la Educación Secundaria, como en las Escuelas Técnicas del país. El Consejo de Formación en Educación brinda beca total o parcial a estudiantes que provengan de otros lugares de la región. Beca total incluye: residencia, comida y traslado a sus hogares cada 15 días; la beca parcial puede ser uno de los beneficios de la total.

DOCENTES:

Prof. Carmen Pedezert, docente egresada del Instituto de Profesores Artigas, en la mención Astronomía. Directora Observatorio de Astronomía en la ciudad de Rivera- Astronomía para Geografía.

Prof. Gabriela Begino, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Maestrante en Didáctica de Educación Media — Geografía de Países periféricos, Seminario de Investigación en Geografía, Seminario de Geografía histórica

Prof. Patricia Correa, docente egresada del Instituto de Profesores Artigas, en la mención Geografía, y en el Instituto de Formación Docente de Tacuarembó como maestra de Educación Primaria. Posgrado en curso del Diplomado en Geografía, por el Instituto de Perfeccionamiento de Estudios Superiores, en Montevideo — Geografía de Países Centrales, Cartografía, Geografía de América Latina, Introducción a la Didáctica, Geopolítica.

Prof. Laura Meneses, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay — Teoría Geográfica - Seminario de ordenamiento territorial y medio ambiente.

Prof. Beatriz Taroco, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay — Geografía Humana, Geografía Física II, Geografía del Uruguay, Seminario Uruguay.

Prof. Rosario Bottino, docente egresada del Instituto de Profesores Artigas, en la mención Geografía. Posgrado en Constructivismo y Educación, en Facultad Latinoamericana de Ciencias Sociales, sede Buenos Aires, Posgrado de Evaluación de los Aprendizajes en la Universidad Católica del Uruguay, y Posgrado en curso del Diplomado en Geografía, por el Instituto de Perfeccionamiento de Estudios Superiores, en Montevideo — Didácticas I, II y III.

Prof. Roberto Iglesias, docente egresado del Instituto de Profesores Artigas, en la mención Geografía — Geología, Estructura del Mundo Contemporáneo, Geografía Física I, Geografía Económica.

Prof. Ailton Leal, docente egresado del Centro Regional de Profesores del Norte, en la mención Geografía — Evolución y métodos del pensamiento geográfico.

VENEZUELA

UNIVERSIDAD CENTRAL DE VENEZUELA

ESCUELA DE GEOGRAFÍA

BACKGROUND: Escuela de Geografía, adscrita a la Facultad de Humanidades y Educación. La Escuela tiene su inicio en el año 1956. Se obtiene el título de Licenciado en Geografía. Desde el año de 1960 se han efectuados grados en ese sentido. Actualmente tiene una matrícula de 540 estudiantes inscritos como regulares y existen 140 estudiantes inscritos como tesis. La escuela de organiza administrativa y académicamente en una dirección y cinco departamentos.

El número telefónico de la dirección de la escuela es el 58-212-6052876 y 6052900. FAX. Mayores detalles se encuentran en la siguiente dirección electrónica: <http://www.ucv.ve/humanidades/FHE2005/escuelas/geografia/index.htm>

PROGRAMA Y FACILIDADES: Reglamento de ingreso de alumnos a la universidad central de Venezuela, capítulo I, disposiciones generales.

Artículo 1° Son alumnos de la Universidad Central de Venezuela, las personas que, cumpliendo con los requisitos de admisión previstos en la Ley de Universidades, reglamentos y resoluciones del Consejo Universitario, sigan los cursos para obtener los grados, títulos o certificados que confiera la Universidad. Artículo 2° Para ingresar como alumno a la Universidad Central de Venezuela se debe cumplir con los requisitos y procedimientos que al efecto se establecen en la presente normativa. Artículo 3° Las inscripciones al nivel de las Facultades de la Universidad se efectuarán conforme a las disposiciones contenidas en el presente reglamento y a las normas internas que al efecto dicten las Facultades. A tales fines los Consejos de Facultad podrán, de acuerdo a la naturaleza de la enseñanza que en ellas se imparte y a las condiciones particulares en cuanto a demanda y disponibilidad de cupo, así como a cualquier otra circunstancia relacionada con su estructura y funcionamiento, proponer al Consejo Universitario la aprobación de las referidas normas internas.

PLAN ACADÉMICO, REQUERIMIENTOS DE ADMISIÓN Y AYUDA FINANCIERA: El plan de estudio contempla cinco años de estudio y se conforma de un ciclo básico con cinco semestres y un ciclo profesional con cinco semestre. Se deben aprobar 180 créditos. Las asignaturas están agrupadas en cátedras y estas en departamentos. Los Departamentos de la Escuela de Geografía son cinco: Geografía Regional, Cartografía, Metodología, Geografía Física y Geografía Humana.

PROFESORES:

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Silvia González. silvia_gonzal48@hotmail.com Lic. en Geografía. 1995. Profesora Instructor, en Cartografía. Escuela de Geografía.

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Pedro Barrios pmbarríos@yahoo.com Licenciado en Geografía. UCV, 1999. Especialista en Análisis de Datos, UCV, 2007. Profesor Agregado, en Matemática

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Rafael Ruano. Licenciado en Geografía. 1978. UCV. Especialista en Estudios Políticos. Profesor Agregado, en Geografía Humana y Geografía del Subdesarrollo.

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Ángel Villarroel. angelvillarroel2001@yahoo.com. Licenciado en Estadística. Maestría en Análisis Espacial y Gestión del Territorio. 2013. Profesor Asistente, en Estadística

Karenia Cordova kareniaac@gmail.com Lic. en geografía. 1985. Maestría en Energía, Brasil. Profesora Asociado, en Seminario Energía y Ambiente; Teoría geográfica. Directora del Instituto de Geografía y Desarrollo Regional.

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Jesús Lemus. jlemusm@yahoo.com Licenciado en Geografía 2006. Profesor Asistente, en Introducción a la Geografía. Instituto de Geografía y Desarrollo Regional.

Víctor Hugo Aguilar vhal999@yahoo.com. Licenciado en Biología en 1994. Profesor Instructor, en Métodos Cuantitativos en Geografía. Instituto de Geografía y Desarrollo Regional.

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Roberto Rivera. robertorivera77@hotmail.com. Licenciado en Geografía. 2002. Doctor en Sensores Remotos 2009. Profesor contratado en SIG

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Program Specialties

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TITLES OF THESES AND DISSERTATIONS COMPLETED 2017-2018

UNITED STATES

ALABAMA

AUBURN UNIVERSITY

Masters (Science):

- Bush, Austin "Assessing Rainwater Harvesting Potential for Urban Multi-Family Housing Developments in Auburn, AL using a sUAS" (Mitra, 2018)
- Greer, Seth "Are Cool Roofs Really Cool? A Predictive Regression Model for Buildings on Auburn University's Campus" (Mitra, 2017)
- Salisbury, Michael "Analysis of the D'Olive Creek Watershed: Identifying the Local Drivers That Have led to Stream Degradation" (Shepherd, 2018)
- Siddique, Sumaiya "Social Vulnerability and Earthquake Impact Modeling in Federal Emergency Management Agency (FEMA) Region IV (Southeast U.S.)" (Burton, 2018)

UNIVERSITY OF NORTH ALABAMA

Masters (Science):

- Akanga, Donald "Analysis of Spatiotemporal Occurrence of Drought in Kenya Using Modis Satellite Data." (Mighty, 2018)
- Miller, Randee "Spatial and Temporal Analysis of Hydrilla verticillata Infestation in Pickwick Reservoir, Alabama." (Fleming, 2018)

ARIZONA

ARIZONA STATE UNIVERSITY

PhDs:

- Ayodele, Deborah "Coordination and Power in Water Governance: The Case of Prescott Active Management Area" (Larson, 2017)
- Benessaiah, Karina "Social-Ecologies of Crisis: Assessing the Back-to-Land Movement in Greece" (Turner, 2018)
- Conrow, Lindsey "Understanding Mobility and Active Transportation in Urban Areas Through Crowdsourced Movement Data" (Wentz, 2018)
- Inman, Richard "Improving Species Distribution Models with Bias Correction and Geographically Weighted Regression: Tests of Virtual Species and Past and Present Distributions in North American Deserts" (Franklin, 2018)
- Kang, Wei "Issues in the Distribution Dynamics Approach to the Analysis of Regional Economic Growth and Convergence: Spatial Effects and Small Samples" (Rey, 2018)
- Oshan, Taylor "A New Era of Spatial Interaction: Potential and Pitfalls" (Fotheringham, 2017)
- Wang, Chuyuan (Carter) "The Long-term Impact of Land Use Land Cover Change on Urban Climate: Evidence from the Phoenix Metropolitan Area, Arizona" (Myint, 2018)
- Wolf, Levi "Spatializing Partisan Gerrymandering Forensics Local Measures and Spatial Specifications" (Rey, 2017)

- Zhang, Yujia "Improving urban cooling in the semi-arid Phoenix Metropolis: land system science, landscape ecology and urban climatology approaches" (Turner, 2018)
- Zhao, Qunshan "Evaluating the Effectiveness of Tree Locations and Arrangements for Improving Urban Thermal Environment" (Wentz, 2017)

UNIVERSITY OF ARIZONA

PhDs:

- Isaac, Marissa Tamar "Desalination in the Holy Land: Putting Ecomodernism to the Test." (Bauer, Wilder, 2018)
- Kelly-Richards, Sarah "Articulating Indigenous Rights Amidst Territorial Fragmentation: Small Hydropower Conflicts in Puelwillimapu Territory, Southern Chile." (Bauer, 2018)
- Mu, Wangshu "Geocomputational Approaches to Improve Problem Solution in Spatial Optimization: A Case Study of the p-Median Problem." (Tong, 2017)
- Thapa, Bhuwan "Adaptation to Global Change by Farmer-Managed Irrigation Systems of the Gandaki Basin in Nepal." (Scott, 2018)
- Ziaja, Sonya "A Series of Tubes: Misunderstandings in Hydropower Governance and Optimization Modelling." (Bauer, 2017)

Masters (Arts):

- Carter, Forest "Mapping Saguaro Cacti Using Aerial Photography in Saguaro National Park." (van Leeuwen, 2018)
- Frederick, Sarah "An Evaluation of Seasonal Precipitation and Its Influence on Streamflow in the Missouri River Headwaters Using Multi-Century Tree-Ring Reconstructions." (Woodhouse, 2018)
- Murphy, Patrick "Patterns of Primary Productivity in a Semiarid Montane Forest." (Barron-Gafford, 2018)
- Patterson-Markowitz, Rebecca "Choreographies of Repair: Defining Justice through Psychosocial Accompaniment in Post-Conflict Guatemala." (Oglesby, 2018)
- Sutter, Leland "Improving Our Ability to Assess Land Management and Disturbance by Linking Traditional Ecosystem Measurements with UAV Spectral Analysis." (Barron-Gafford, 2018)
- Tanoue, Kara L "Food in Reach: Measuring Access to Public Assistance Food Retailers in Rural Arizona." (Tong, 2017)
- Titlow, Kyle "De Alguna Manera, Llegas": Estimating the Public Transit Accessibility of the Informal Housing Communities (Asentamientos) of Greater Buenos Aires, Argentina Using Geographic Information Systems (GIS)." (Plane, 2018)

ARKANSAS

UNIVERSITY OF ARKANSAS

PhDs:

- Cooper, Max "Speliogenesis in Turbulent Flow." (Covington, 2018)

Masters (Science):

- Harmon, William "Estimating watershed mercury contribution to Lake Fort Smith State Park, Arkansas, USA." (Hays, 2018)
- Kilcoyne, David Joseph "Mapping Lower Austin Chalk Secondary Porosity Using Modern 3-D Seismic and Well Log Methods in Zavalla County, Texas." (Christopher Liner, 2018)

- Kincade, Sean "The Occurrence of the Greta Sandstone, Frio Formation (Late Oligocene), Texas Gulf Coastal Plain." (Liner, 2018)
- Mahanay, Sidney "Seismic facies mapping for source rock distribution of the Rakopi Formation in deepwater Taranaki Basin, New Zealand." (McGilvery, 2018)
- McFarlin, Forrest "Stratigraphic evolution of the St. Joe-Boone boundary interval, Kinderhookian-Oogean series, lower Mississippian system, Tri-State region, Southern Midcontinent." (Manger, 2018)
- Rollans, Justin "Decadal land surface phenology and water quality in the headwaters Illinois River Watershed" (Tullis, 2018)
- Rusconi, Francisco Jose "3D Seismic Interpretation of Plio-Pleistocene Mass Transport Deposit in the Deepwater Taranaki Basin of New Zealand." (Liner, 2018)
- Smirnov, Andrey "Interpretation and fracture characterization of early-Cretaceous Buda Limestone Formation using post-stack 3D seismic data in Zavala County, Texas." (Liner, 2018)
- Sokolosky, Kelly "Stable Isotope and Geochemical Characterization of Nutrient Sources in the Big Creek Watershed of Northwest Arkansas." (Hays, 2018)
- Young, Holly "Quantifying carbon dioxide fluxes in the air and water in Blowing Springs Cave, Arkansas." (Covington, 2018)

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

Masters (Arts):

- Aguilar, Beatriz "Evaluating Global Precipitation Measurement Mission in the High Latitudes: A Case Study in Canada."
- Lee, Jenny "Evaluation of CMIP5 Ability to Reproduce 20th Century Regional Trends in Surface Air Temperature and Precipitation Over Conus."
- Martinez, Barry "An Observational Analysis of the Dimensional Characteristics of Global Mass Mixed Ratio Water Vapor via the Atmospheric Infrared Sounder."
- Nash, Deanna "Atmospheric River Contributions to Extra-Tropical Poleward Moisture Transports and Atmospheric Water Cycle."
- Neal, Kalle "Understanding Spatial and Temporal Precipitation Characteristics in the Eastern United States Using TRMM and Airs Satellite Data."
- Ponce, Martin "Detecting Climate Change over the Canadian Prairies."
- Ross, Brady "Near Surface Temperature Validation of the AIRS Instrument based from Ground Station Data in Barrow, Alaska."
- Scott, Jason "The Deep Rooted Relationship between Multi-National Oil and Sovereign Nigeria."
- Smith, Victoria "Navigating Routes to a Sustainable Urban Transportation System in Los Angeles."
- Verma, Nancy "Reimagining Urban Development in Tracy, California."

Masters (Science):

- Lopez-Maldonado, Ricardo "Carbonate clumped isotope reconstruction of temperatures and water 18O/16O ratios from last glacial maximum and Holocene climatic optimum age calcic paleosols in the Palouse Loess (Washington, USA)."
- Rahimkan, Pedram "Analyses of Percolation Rates in Various Bedrock Units in the South-Central Santa Monica Mountains."
- Sehler, Robin "Assessing the Relationship Between Soil Moisture and Precipitation Using Remote Sensing Information."
- Yousavich, David "Heavy Metal Partitioning in Bioretention Soil in the Culver City Rain Garden."

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

Masters (Arts):

- Crisp, Danielle "Relationship of land use modification and sediment transportation to transverse and parabolic dune behavior in the Mussel Rock dunes complex, California" (Laity, 2017)
- D'Alfonso, Danielle "INVESTIGATION of the depositional environment of clustered boulders, Nojoqui Valley, Santa Barbara County, California" (Orme, 2018)
- De Mello, Danielle "Public awareness regarding the issues associated with electronic waste: an assessment of awareness, values, behaviors, and location" (Graves, 2017)
- Marshall, Mark "Geographic Study of Motorcycle Theft in Los Angeles County" (Graves, 2018)
- Robison, Sean "Test of a Habitat Suitability Index for Black Bears In Northeastern Minnesota" (Orme, 2018)
- Sonksen, Karen "Determinants of Single-Family Residential Water Consumption in Santa Clarita, California" (Graves, 2018)

Masters (Science):

- Chen, Tom "Indoor Asset Mapping and Management: An Open Source Approach to Enterprise GIS Application" (Borouhaki, 2017)
- Hager, Nicholas "Post-Fire Hillslope Erosion using an Unmanned Aerial Vehicle (UAV) with On-Ground Sediment Analysis" (Orme, 2018)
- Klausner, Jonathan "Assessment of Physical Vulnerability of Buildings to an Earthquake Using Local TOPSIS and Global TOPSIS: A Case Study of the San Fernando Valley" (Borouhaki, 2018)
- La Sota, Bryan "Geography of officer involved shootings in Los Angeles County, California: A distance-based approach" (Graves, 2017)
- Lindgren, Amanda "Implementation of a volunteered geographic information (VGI) mobile application for plant inventory" (Borouhaki, 2017)
- Swanson, Valerie "Fire Ignition and Burn Risk: A Study in Trinity and Los Angeles Counties in California" (Borouhaki, 2018)

SONOMA STATE UNIVERSITY

Research Papers:

- Aguilar, Antonio "Growth rates of tan oaks at Galbreath Preserve: Mendocino County"
- Ahern, Malone "Invasive Oxalis control at Bodega Head, California"
- Brotzel, Sophie "Comparing life expectancies for veterans after war"
- Chandler, Carlye "Soil carbon across an elevational gradient on Sonoma Mountain"
- Chatterly, Clayton "The effect of golf course proximity on home values: three cases studies"
- Conway, Kevin "Differential civil prosecution of student residents in Rohnert Park"
- Dellinger, Bill "Stay or go: inter-generational farming decisions"
- Facendini, Colby "Crime rates near CSU campuses: a geospatial analysis"
- Fernandez, Kelly "Food Resource guide for Petaluma: an action research project"
- Galper, Ben "Bouldering and lichen disturbance in Eastern California"
- Gebauer, Jesse "Trans-watershed flows during floods: from Copland to Lichau Creeks"
- Greppi, Michaela "Coast live oak response to climate variation in Mark West drainage"
- Hernandez, Andrea "Perceptions of environmental injustice near waste storage sites"
- Jackson, Matthew "Surveying stream channel change: initial and longitudinal surveys"
- Kahrer, Elisabeth "Fungal presence and absence after the Tubbs fire"
- Knight, Chris "Recycling behavior in Sonoma County"

Letofski, Jake "Modelling fire severity for the region affected by the Tubbs fire"
 Lieberman, Evan "Characterizing wild hog disturbance at Galbreath Preserve"
 McNamara, Wyatt "Perceptions of water taste in Sonoma County"
 Rosen, Gregory "Obstacles and opportunities in choosing career paths"

UNIVERSITY OF CALIFORNIA, DAVIS

PhDs:

Beal, Ty "The Geography of Malnutrition." (Hijmans, 2018)
 Behrsin, Ingrid "Dirty, Clean, Power: Constructing and Contesting Waste as a Renewable Energy Source in European Union." (Benner, 2018)
 Tithi, Bidita Jawher "Towards a Geography of Displacemaking: A Study of Policymaking and Living with Displacement and Hazards in the Precarious Margins of Coastal Bangladesh." (Watson-Gegeo, 2018)
 Yui, Sahoko "Reducing Food Waste in Institutional Settings A Case Study of the UC Davis Dining Commons." (Wheeler, 2018)

Masters (Arts):

Chacon, Kimberly - Plan II (Greco, 2018)
 Dawson, Mia - Plan II (London, 2018)
 Denney, Cameron "Wildlife-Vehicle Conflict: Automated Hotspot Analysis." (Wheeler, 2018)
 Jarin, Jennifer - Plan II (London, 2018)

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PhDs:

Bennett, Mia Moy "Development on Ice: Global Transportation Infrastructure and, the Arctic Frontier" (John Agnew, Smith, 2018)
 Cai, Siyu "The Spaces and Times of Chinese Outward Foreign Direct Investment: Hong Kong, Pakistan, and California" (Sheppard, 2018)
 Colven, Emma L "Navigating the Waters of Flood Mitigation in Jakarta: Promoting and Contesting Expert Knowledge" (Leitner, Sheppard, 2018)
 Fent, Ashley M "The (Un)Governability of Sea, Sediment, and Heavy Mineral Sands in Senegal" (Sheppard, 2018)
 Harlan, Tyler Ross "Low-Carbon Frontier: Small Hydropower and Logics of Green Development in China" (Fan, 2018)
 Huff, Alice E Geographies of Education: Neighborhood Schooling Struggles in Post-Katrina New Orleans" (Leitner, 2017)
 Macaspac, Nerve V "Insurgent Peace: Community-led peace zone in Sagada, Philippines" (Moore, 2018)
 Robinson, Chelsea M "Landscape Patterns of Diversity, Wood Density, and Protected Areas in Forests of Costa Rica" (Gillespie, 2018)
 Van Der Wouden, Frank "Exploring the Changing Structures of Inventor Collaboration in U.S. Cities between 1836 and 1975" (Rigby, 2018)
 Ward, Diane "Maps and Renderings as Rhetoric: A Critical Typology for Looking at Visualizations of the Los Angeles River" (Shin, 2018)
 Ward, Jason M "Antarctic coastal polynya variability and relationships to large-scale atmospheric drivers and regional sea ice" (Raphael, 2018)

Masters (Arts):

Dimson, Monica "Utility of temporally-biased species distribution models in the detection of invasive shot-hole borer" (Gillespie, 2018)

Engel, Ruth "On the causes of the summer 2015 Eastern Washington wildfires" (Lettenmaier, 2018)
 Fard, "High-resolution geochemical record of Petaluma marsh from the San Francisco bay area" (MacDonald, 2018)
 Haller, Melissa, "Uneven Technological Development: The Geographic Evolution Optics of Technologies in the United States, 1976-2010" (Rigby, 2018)
 Irawaty, Dian Tri, "Jakarta's Kampung: Their History and Contested Future" (Leitner, Sheppard, 2018)
 Standifer, Jessica Wynn, "Jakarta, Indonesia: Documenting Peri-Urban Land Use Change" (Leitner, 2018)

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PhDs:

Chen, Jorge "Automated Indoor Mapping With Point Clouds." (Clarke, Murray, Novak, 2017)
 Chen, Ying-Jung "Climate Variability, Fire Disturbances, and Subsurface Storage Dynamics: An Examination of Spatial-Temporal Variability of Rainfall-Runoff Patterns in Coastal Santa Barbara Watersheds." (Melack, Jones, Dunne, 2018)
 Currier, Katharine "Mapping Perspectives for Environmental Planning." (Clarke, Couclelis, Goodchild, McClintock, 2017)
 Ervin, Daniel "Migration, Human, and Environmental Health." (Lopez-Carr, Joassart-Marcelli, Weeks, Gurven, Still, 2017)
 Frazier, Heather "Ecosystem productivity and water temperature in coastal California streams." (Loaiciga, Melack, Cooper, 2017)
 Harris, Sarah "Mechanisms and Characteristics of Landfalling Atmospheric Rivers Affecting Southern California." (Carvalho, Bookhagen, Raphael, Jones, 2017)
 Heidinger, Sarah "Rainfall Variability and Change in Central and Southern Peruvian Andes." (Carvalho, Funk, Jones, Quiroz, 2017)
 Seidl, Dara "Geoprivacy: Location Masking Strategies and Personal Identification Risk." (Jankowski, Janowicz, Nara, Clarke, 2018)
 Tane, Zachary "Using Remote Sensing to Characterize Disturbance during a Severe Drought in the Sierra Nevada." (Roberts, Moritz, Sweeney, Church, 2018)
 Toure, Sory "Urban Land Cover and Land Use Change in Ghana: Connections to Demography and Health." (Stow, Weeks, Clarke, Lopez-Carr, 2017)
 Zilli, Marcia "Mechanisms and Attribution of Changes in Austral Summer Precipitation related to the South Atlantic Convergence Zone." (Carvalho, Ding, Clarke, Liebmann, 2017)

Masters (Arts):

Baez, Carlos "Emergency Medical Service Ambulance System Planning: History and Models." (Church, Murray, Sweeney, 2017)
 Herve, Thomas "What are We Locating? The Application of a Provenance Ontology to Disambiguate Locational References in Social Network Posts." (Kuhn, Janowicz, Montello, 2018)
 Ju, Yiting "Things and Strings and More: Improving Place Name Disambiguation from Short Texts by Combining Entity Co-Occurrence, Topic Modeling, and Word Embedding." (Janowicz, Kuhn, Goulas, 2017)
 Mai, Gengchen "ADCN: An Anisotropic Density-Based Clustering Algorithm for Discovering Spatial Point Patterns with Noise." (Janowicz, Kuhn, Goulas, 2017)
 McBride, Elizabeth "Enhancing Population Synthesis using Land Use Indicators." (Goulas, Cassels, Janowicz, 2017)
 Wang, Jian "Carbon Dioxide and Methane Emissions from a California Salt Marsh." (King, Chadwick, Melack, 2017)
 Xu, Jing "Spatial Variability in Retail Gasoline Pricing Behavior." (Murray, Church, Sweeney, 2018)

UNIVERSITY OF SOUTHERN CALIFORNIA

Masters (Science):

- Antoun, Jo-Anne "Cartographic Design and Interaction: An Integrated User-Centered Agile Software Development Framework for Web GIS Applications"
- Borgic, Quentina "Stone Tool Raw Material Distribution Network and Predictability Study in Southern Illinois"
- Botkin, Adlin "Exploring Remote Sensing and Geographic Information Systems Technologies to Understand Vegetation Changes in Response to Land Management Practices at Finke Gorge National Park, Australia Between 1989 and 1999"
- Branch, Allen "A Methodology for a Real Estate Blockchain Application Utilizing Geographic Information Systems (GIS)"
- Brooks, Brandon "Student Engagement Capabilities in Mobile GIS: A Framework for Mobile GIS Education"
- Burke, Kyle "Building a Geodatabase for American Pika Presence and Absence Data"
- Conner, Philipp "Exploring Commercial Catch: Creating a Responsive Florida Fisheries Web GIS Using ASP .NET, the Esri JavaScript API 4.x, and Calcite Maps"
- Cover, Drew "Preparing for the Next Major Southern California Earthquake: Utilizing HAZUS with Soils Maps and ShakeMaps to Predict Regional Bridge Damage and Closures"
- Danser, Raymond "Applying Least Cost Path Analysis to Search and Rescue Data: A Case Study in Yosemite National Park"
- Darby, Keith "Developing, Maintaining, and Employing Crowd-sourced Geospatial Data in Support of Helicopter Landing Zone Surveys for Disaster Response Operations"
- Denson, Trevor "Majestic Yosemite Hotel Virtual Tour Application and Indoor Model"
- Driggers, Ryan "Evaluating the Relationship between Colorado Elk Hunting Success and Terrain Ruggedness"
- Eselius, Jessica "Predicting Post-Wildfire ReGreen Rates: An application of multi-factor regression modeling"
- Fox, Alexander "Access to Active Play Parks for Youth Segments in Alexandria, Virginia"
- Gliserman, Nicholas "Assessing the Reliability of the 1760 British Geographical Survey of the St. Lawrence River Valley"
- Godfrey, Sarah "Spatial Distribution of the Endangered Pacific Pocket Mouse (*Perognathus longimembris* ssp. *pacificus*) Within Coastal Sage Scrub Habitat at Dana Point Headlands Conservation Area"
- Goldsworth, Julia "Exploring Land Use Changes in the City of Irvine's Master Plan"
- Hathaway, Pamela "Practical Application of ACS Place of Birth Data in an App Created for American Red Cross International Services"
- Haworth, Christina "Developing art-based cultural experiences in North Kohala: A community engagement project with OneIsland"
- Howieson, Devlin "Assessing the Value of Crowdsourced Data in Aiding First Responders: A Case Study of the 2013 Boston Marathon"
- Jessup, Sheldon "Spatial Narrative of the Invasive Lionfish in the Western Atlantic and Caribbean Oceans: A GIS Story Map"
- Jurden, Charles "Utilizing Advanced Spatial Collection and Monitoring Technologies: Surveying Topographical Datasets with Unmanned Aerial Systems"
- Kerbrat, Joel "Questioning the Cause of Calamity: Using Remotely Sensed Data to Assess Successive Fire Events"
- Luttrull, James "Radar Horizon Estimation from Monoscopic Shadow Photogrammetry of Radar Structures: A Case Study in the South China Sea"
- Macauley, Michele "Development of a Web-GIS Application to Aid Marathon Runners in the Race Selection and Planning Process"
- Motyka, Alexandra "Applying GIS to Landscape Irrigation Systems: A Case Study of the Music Academy of the West Campus in Montecito, CA"

- Pynn, Shani "Finding the Green in Greenspace: An Examination of Geospatial Measures of Greenspace for Use in Exposure Studies"
- Schurawel, Christine "Spatial Analysis of Vision Services of Kaiser Permanente Members"
- Stone, Neil "Social Media Canvassing Using Twitter and Web GIS to Aid in Solving Crime"
- Strotkamp, Timothy "Utilizing Online Data Sources to Improve Existing Military Aircraft Systems"
- Taff IV, William "Object Detection and Digitization from Aerial Imagery using Neural Networks"
- Thibodaux, Michael "The Use of Site Suitability analysis to Model Changes in Beach Geomorphology due to Coastal Structures"
- Uhler, Kyle "Mixed Forest Image Classification of Paper Birch: Using AVIRIS Bandwidths Ranging from 530 to 745 nm"
- Wiley, Brianna "Tracking Santa Barbara County Wildfires: A Web Mapping Application"
- Woolf, Timberlynn "Deep Convolutional Neural Networks for Remote Sensing Investigation of Looting of the Archeological Site of Al-Lisht, Egypt"
- Yeung, Alvin "Generating Trail Conditions Using User Contributed Data Through a Web Application"

COLORADO

UNIVERSITY OF COLORADO, BOULDER

PhDs:

- Amante, Christopher "Consideration of Elevation Uncertainty in Coastal Flood Models" (Abdalati, 2018)
- Barnhart, Theodore "The Response of Streamflow and Evapotranspiration to Changes in Snowmelt Across the Western United States." (Molotch, 2018)
- Bredemeyer, William "Racial, socioeconomic Status and Age distribution over time in the U.S.: Trajectories of Neighborhood Segregation in 1970-2010." (Spielman, 2017)
- Burns, Sean "The Influence of Warm-Season Precipitation on Water Cycling and the Surface Energy Budget within and just-above a Colorado Subalpine Forest in Mountainous Terrain: Measurements and Modeling" (Blanken, 2018)
- DeBoom, Meredith "Developmental Fusion: Chinese Investment, Resource Nationalism, and the Distributive Politics of Uranium Mining in Namibia" (O'Loughlin, 2018)
- Gifford, Lauren "See the Carbon through the Trees: Market-Based Climate Change Mitigation, Forest Carbon Offsets, and the Power of Carbon Accounting" (Travis, 2018)
- Grant, Glenn "Exploring Antarctic Land Surface Temperature Extremes Using Condensed Anomaly Databases." (Serreze, 2017)
- Hill, Alice "Clarifying Hydrologic Controls of Remote Mountain Water Resources Across Varying Scales Through Development of a Rapid Hydrologic Assessment Methodology." (Molotch, 2017)
- Lovell, Eric "Range of Lines: Exploring the Mobilities, Maps and Technologies that Shape Tanzania's Northern Rangelands." (Goldman, 2018)
- MacFerrin, Michael "Rapid Expansion of Greenland's Low-Permeability Ice Slabs in a Warming Climate." (Abdalati, 2019)
- Smith, Samuel A. "Space, Place, and Story: Museum Geographies and Narratives of the American West." (Foote, 2018)
- Wilson, Alana "High Asia's Glaciers: Water Resources, Water Security and Scientific Capacity Building." (Molotch, 2017)
- Zhang, Qinghuan "Modeling the hydrology and hydrochemistry of the Boulder Creek Watershed." (Molotch, 2018)

Masters (Arts):

- Boback, Jessica "Three-Dimensional Glacier Flow of Bylot Island derived using Sentinel 1A and 1B." (Abdalati, 2017)
- Bush, Sidney "Assessing the impact of land-use change on surface runoff generation within the Panama Canal Watershed." (Barnard, 2018)
- Dadashi Khanghah, Sepideh "What is a Fire? Identifying Individual Fire Events Using the MODIS Burned Area Product." (Balch, 2018)
- Lewis, Nicholas "Emerging Use of Single-Channel Short Wave Infrared Imaging for Sea Ice Detection." (Serreze, 2018)
- Mason, Kevin "The Labor Market Outcomes of Indigenous Oaxacan Migrants to the Mexico City Metropolitan Area." (Riosmena, 2017)
- Morris, Sara "Variability of Ground Heat Flux at the Tiksi Station." (Serreze, 2018)
- Morrissey, Martha "Modeling Cycling Counts using Crowd-sourced Data." (Farmer, 2018)
- Subia Smith, Gabriella "Beyond Property: Formalization of Rural Property in Colombia and the Cartographic State." (Bryan, 2018)
- Williams, Travis "Drought Index-Based Insurance for the US Cattle Ranching Industry." (Travis, 2018)

UNIVERSITY OF COLORADO, COLORADO SPRINGS**Masters (Arts):**

- Cassiday, Arielle "Challenges of Water Accessibility in Mega-Cities: A Study from Lima, Peru." (Skop, 2018)
- Courtney, Brent "A simple risk terrain model for burglary in Colorado Springs." (Harner, 2018)
- Gronewold, Rebecca "Using human ecology mapping (HEM) to explore gender differences in land use patterns and values in Browns Canyon National Monument (BCNM), Chaffee County, Colorado, USA." (Harner, 2017)
- Handsome, Amarra "On the move: the residential mobility of single, never-married women with college degrees in Colorado Springs, Colorado." (Skop, 2018)
- Madsen, Michael "On landsurface change detection using Lidar datasets of different spatial resolutions : A case study examining Colorado's Waldo Canyon fire burn scar." (Vogt, 2017)
- Martell, Angela "Whose Conservation? How Land Trusts Negotiate the Relationship Between Conservation Easement Acquisition Decisions and Growth and Development Interests." (Havlick, 2017)
- Valles, Ivan "Geography of Nitrate and Sulfate Atmospheric Wet Deposition in the Southern Rocky Mountains." (Holder, 2018)

UNIVERSITY OF DENVER**PhDs:**

- McCall, Sarah "The Political Economy of Sandinismo 2.0: Environmental and Social Implications of Paradoxical Economic Ideologies in Post-Revolutionary Nicaragua"

Masters (Arts):

- Trivino, Natalie M. "Paleo flood investigations, physiographic characteristics..."
- Zimny-Schmitt, Daniel "An Investigation of the Performance of Urban Rail Transit Systems on the Corridor Level: A Comparative Analysis in the American West"

Masters (Science):

- Aranea, Gregorio
- Atkinson, Laura E. "A Comparison of Data Decomposition Strategies for GPU Based Parallel Processing of LiDAR"
- Bohnhoff, Andy

- Coscia, Sandor
- Judy, Kristin
- Karl, Nicholas
- Kelley, Madeline M. "Developing a Flood Risk Information System"
- Krebs, Alex G.
- Krois, Michael P.
- Miller, Davis N.
- Ochoa, Alysa M.
- Paniccia, Joseph A.
- Phipps, Jaclyn K.
- Richardson, David W.
- Wilson, Leslie J.
- Yeager, Christopher

DELAWARE

UNIVERSITY OF DELAWARE**PhDs:**

- Downtin, Asia "An investigation into the effects of forest fragment structure and spatial context on rainfall redistribution and solute flux within a city and along an urban to rural gradient"
- Suriano, Zachary "Atmospheric drivers of snowfall and snow cover ablation variability within the Great Lakes Basin of North America"

Masters (Arts):

- Barrett, Jamie "Dueling conservation perspectives: governance strategies and knowledge networks for agricultural conservation on the Delmarva Peninsula"
- Speck, Samantha "Labor shortages or lack of vision: risk perceptions in the mushroom industry"
- Sundberg, Todd "At the intersection of urban agriculture and social justice activism: practices and perceptions in Wilmington, Delaware"

Masters (Science):

- Aiken, Emily "Climate extremes over the Mid-Atlantic States: a regional approach"
- Shumlich, Adrienne "Measuring the topography and motion of rock glaciers in the Cordillera Principal, Argentina"

DISTRICT OF COLUMBIA

GEORGE WASHINGTON UNIVERSITY**Masters (Science):**

- Cann, Katherine. "Untangling the Roots of the Mangrove Tree: Seeking Successful Co-Management of a Coastal/Marine Protected Area in Panama" (2018)
- Cox, Brendan. "Polling Place Closures in Medina and Galveston, Texas: Reprecincting without the Full Protection of the Voting Rights Act" (2018)
- Painter, Edward. "Social Capital and Soccer: Adult Soccer Leagues as Arenas for Immigrant Incorporation" (2018)
- Suter, Luis. "Climate Change Impacts on Arctic Infrastructure: Lifecycle & Damage Repair Costs in the Circumpolar Region" (2018)

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

PhDs:

- Dongol, Yogesh "Cultural Politics of Community-Based Conservation in the Buffer zone of Chitwan National Park, Nepal"
- Gondek, Abby "Jewish Women's Transracial Epistemological Networks: Representations of Black Women in the African Diaspora, 1930-1980"
- Jaiteh, Mariama "Seeking 'Friends' with Benefits in a Tourism-Based Sexual Economy: Interrogating The Gambian Sexscape"
- Lyon, Jaqueline "Inheriting Illegality: Race, Statelessness, and Dominican-Haitian Activism in the Dominican Republic"
- Melendez, Elisa "For Those About to Rock: Gender Codes in the Rock Music Video Games Rock Band and Rocksmith"
- Mullenite, Josh "Engineering Colonialism: Race, Class, and the Social History of Flood Management in Guyana"
- Sarsilmaz, Defne "'I am a Teacher, a Women's Activist, and a Mother': Political Consciousness and Embodied Resistance in Antakya's Arab Alawite Community."
- Van Vleet, Eric "Truffles Have Never Been Modern: An Actor-Network Theory Description of 150 years of French Truffleculture"

FLORIDA STATE UNIVERSITY

PhDs:

- Allen, Douglas "Affirmative assertions of black life: Making places of respite in Florida A&M University's Marching 100" (McCreary, Lawhon, 2019)
- Fricker, Tyler "A geography of tornado casualties in the United States" (Elsner, 2019)
- Gao, Xinyu "A new overland flow accumulation algorithm with enhanced adaptability for terrain surface and its application in distributed hydrological modeling" (Mesev, 2019)
- Humphreys, John "Traits, species, and communities: Integrative Bayesian approaches to ecological biogeography across geographic, environmental, phylogenetic, and morphological space" (Elsner, 2018)
- Rahman, Shoumik "Land cover change using change vector analysis of Landsat 5 remote sensor data: Texas during the 2011 drought event" (Mesev, 2017)
- Sciuchetti, Mark "Sound and place: An affective geography of the Hudson River, NY" (Mesev, 2019)
- Williams, Olivia "What does community control look like? Rondo Community Land Trust's ethical strategies for urban governance" (Pierce, 2017)
- Wood, Brittany "Aging in activity spaces: Understanding the automobility of aging populations" (Horner, 2017)
- Xing, Guang "Urban growth patterns and drivers in Florida, USA: Parcel-based new measures and multilevel modeling of multi-scale factors" (Zhao, 2017)
- Zhang, Fang "Urban growth, landscape changes, and coastal vulnerability: A GIScience approach" (Yang, 2019)

Masters (Science):

- Craig, Nicholas A. "A GIS-based multi-criteria decision analysis to select roadside wildflower planting sites for ground-nesting bees in Leon County, Florida" (Yang, 2018)
- Ryan, Emily J. "Florida's tornado climatology: Occurrence rates, casualties, and property losses" (Elsner, 2018)

IDAHO

UNIVERSITY OF IDAHO

PhDs:

- Bean, Alycia "Understanding Idaho's Adaptive Capacity to Future Water Resource Change: A legal and Political Analysis of climate Informed Drought Planning" (Humes, 2018)

Masters (Science):

- Gorelik, Seth "Mapping Percent Tree Mortality Due to Drought in Pinon-Juniper Woodlands Using a Landsat Time Series from Northern New Mexico" (Hicke, 2017)
- Layton, Andrew "Analyzing Spatiotemporal Dynamics and Spatial Determinants of Urban Growth in the Greater Coeur d'Alene Area of Idaho in a Geographic Information Systems Environment" (Liao, 2018)
- McGee, James "Testing the Efficacy of Blue Intensity as a Temperature Proxy in Picea Engelmannii from its Southern Range Limit, Northern New Mexico, USA" (Harley, 2018)
- Vore, Margot "Seismic Tremor Reveals Spatial Organization and Temporal Changes of Subglacial Water Systems" (Bartholomaus, 2018)

ILLINOIS

CHICAGO STATE UNIVERSITY

Masters (Arts):

- Lobban, Garry. "The Use of GIS to Manage Location Planning of Secondary Schools (A Case Study in Clarendon, Jamaica)" (Gala, 2017)

NORTHEASTERN ILLINOIS UNIVERSITY

Masters (Arts):

- Brown, Geoff, "The Truth is Out Where? Rurality and Heterotopia in Two Decades of UFO Sighting Reports" (Grammenos, 2019)
- Picciuca, Harmony "Farm Dreams, Rubble Lots, and Cracks in Between: Land Tenure and Urban Farming in the City of Chicago." (Storie, 2018)
- Senow, Robert "Chicago's Backyard Environmental Concerns" (Storie, 2018)

Research Papers:

- Bredrup, Marjory, "Cloth Diapering Habits and Environmentally Responsible Behavior: Applications for Chicago" Research paper, Track II completion. (Storie, 2019)

UNIVERSITY OF ILLINOIS

PhDs:

- Gao, Yizhao "Data-intensive spatial pattern discovery based on generalized spatial point representations"
- Hu, Hao "CyberGIS-Enabled Spatial Decision Support for Supply Chain Optimization with Uncertainty Quantification"
- Lewis, Quinn "Measuring Flow and Mixing at Stream Confluences using Large-Scale Particle Image Velocimetry, in-stream technique, and Small Unmanned Aerial Systems"
- Muhammad, Umar "Satellite remote sensing of mixing dynamics at a large river confluence"
- Rai, Pronoy "Social geographies of seasonal labor migration in rural western India"

Non-Thesis Masters (Science):

Li, Ting

Non-Thesis Masters (Professional Science):

Kong, Wenhan

Lai, Edmond

Lee, Te-Yao

Li, Ruoxin

Winata, Fikriyah

Xu, Li

Zhang, Hao

Zhang, Jianwen

Zhang, Yunqi

INDIANA

BALL STATE UNIVERSITY

Masters (Science):

Eckstein, Nicholas "Undergraduate Forecast Skill by Class Level and Participation Time in the WxChallenge National Weather Forecasting Contest: 2005-2016." (Zimmermann, 2017)

Lange, Daniel "Applying freely available remote sensing data products to improve natural resource management: case studies of street tree benefits analysis and wetlands detection." (Berland, 2017)

Saadoon, Mayss "Effects of Regional Wind Transportation of Photochemical Air Pollution in Central Indiana." (Zimmermann, 2018)

Saylor, Caleb "Exploring the Relationship between Wet-Bulb Globe Temperature and Land Use/Land Cover Type." (Zimmermann, 2017)

Wilson, Caleb "A Spatiotemporal-based Tornado Climatology for Kansas and a Local Time-based Analysis of Storm Prediction Center Categorical Convective Outlooks for Kansas." (Call, 2017)

INDIANA UNIVERSITY

PhDs:

Babb, Angela "Making Neoliberal Consumer Subjects: A Political Ecology of Nutrition Assistance in the United States" (Knudsen, 2017)

Matheus, Trevis "Importance of Including New Species and Wood Anatomy Techniques in Dendrochronology" (Maxwell, 2017)

McCord, Paul "Spatial Dynamics of Water Governance and Crop Production in Irrigated Smallholder Agricultural Systems" (Evans, 2017)

Masters (Science):

Schlachter, Tyler "Variability in household energy use among smallholder farmers in rural Zambia" (Evans, 2017)

Tabassum, Anika "Assessment of the Impact of Land Use Land Cover Change on Hydrology: A Case Student of Bloomington, Indiana" (Ficklin, 2017)

IOWA

UNIVERSITY OF NORTHERN IOWA

Masters (Arts):

Atkins, Dane. "Affective risk perception in automotive environments" (Strauss, 2018)

Garton, Taylor. "Analysis of a paleoglacier reconstruction model for valley glaciers of the Wind River Range, Wyoming" (Dahms, 2019)

Jensen, David. "Spatial disparities and socio-economic conditions : A food desert analysis of greater Des Moines, Iowa" (Strauss, 2018)

Murphy, Daniel. "Separability of maize varieties using an unmanned aircraft and hyperspectral sensor in Iowa" (Pease, 2019)

Padilla, Aaron. "Landscape and climate drivers of harmful algal blooms in Iowa" (Dietrich, 2018)

Pierce, Christopher. "Integration of refugees from Burma in metropolitan and nonmetropolitan areas in Iowa" (Petrov, 2018)

Ruiz, Matthew. "The erosion of democracy: Gerrymandering in the United State" (Millsaps, 2019)

Tuladhar, Sushil. "Spatiotemporal assessment of condition, seasonal trends, and determinants of agriculturally derived nutrients in the Upper Cedar River Watershed, Iowa" (Petrov, 2018)

KANSAS

FORT HAYS STATE UNIVERSITY

Masters (Science):

O'Brien, Shayne "Spatial Patterns of Precipitation Trends in the Continental United States, 1950-2016" (Dixon, 2018)

Non-Thesis Masters (Science):

Kleine, Alexander (Bremer, 2018)

KANSAS STATE UNIVERSITY

PhDs:

Alghamdi, Ali Saeed Arifi. "Climatology of Warm Season Heat Waves in Saudi Arabia: A Time-Sensitive Approach." (Harrington, 2018)

Larsen, Thomas. "Developing a Human-Environment Timeline: A Chronology of Ideas and Events in the Anthropocene." (Harrington, 2018)

Ling, Bohua. "Remote Sensing of Vegetation Characteristics and Spatial Analysis of Pyric Herbivory in a Tallgrass Prairie." (Goodin, 2018)

Mehl, Heidi. "Understanding Stream Incision, Riparian Function, and Indigenous Knowledge to Evaluate Land Management on the Prairie Band Pottawatomie Nation." (Caldas, 2018)

Masters (Arts):

Bauer, Karl. "Free Land Programs Revisited: A Case Study of Four Kansas Counties." (Lu, 2018)

UNIVERSITY OF KANSAS

PhDs:

Bergervoet, Michael P. "Lodges of Time and Space: the Stone Cairns of Red Wing." (Johnson, 2018)

Biersack, John A. "Rethinking the Scales of Eurasia: Geopolitical Narratives and Borders in Ukraine." (O'Leary, 2018)

Charron, Austin L. "In Our Country, but Outside Our Homeland: Identity and Diaspora Among Ukraine's Internally Displaced Crimeans." (Diener, 2018)

Logan, Kelly E. "Influence of Grassland Heterogeneity on Land-Atmosphere Coupling." (Brunsell, 2018)

Mohammed, Aoesta K. "Quantitative Characterization and Pedogenic Development of Soil Structure." (Hirmas, 2018)

Zhang, Xiang "A Geography of E-commerce in China." (Warf, 2018)

Masters (Arts):

Mays, Cara Haas "Using GIS and Historical Flood Data to Analyze the Risk and Vulnerability of a Rural Community, Past and Present: The Neosho River in Coffey County, Kansas." (Egbert, Kastens, 2018)

Masters (Science):

Burt, Dakota J. "A Paleosol-Derived Environmental Perspective on MIS 3 in the Central Great Plains." (Johnson, 2018)
Chai, Rodney M. "Relating Urban Morphology and Urban Heat Island Effect during Extreme Heat Events in the Kansas City Metropolitan Area." (Brunsell, 2018)
Turner, Dillon S. "Climatology of the San Francisco Bay and the Initiation of Wind Reversals along the Western United States Coast." (Rahn, 2018)
Wesley, Elizabeth J. "Effects of Greenspace Configuration on the Urban Heat Island in Kansas City, MO." (Brunsell, 2018)

LOUISIANA

LOUISIANA STATE UNIVERSITY

PhDs:

Bartels, Rudy "A Climatology of Precipitation Days Throughout the Contiguous United States." (Keim, 2018)
Caparotta, Stephen "Madden-Julian Oscillation Relationships with Cool Season Cyclogenesis, Daily Precipitation, and Cool Season Severe Weather Frequencies in the Gulf of Mexico Region." (Rohli, 2018)
Eachus, Joshua "Ethnicity, Climate, and House Types as Mortality Factors in the New Orleans' 1878 Yellow Fever Outbreak." (Keim, 2017)
Feathers, Valerie "Human-Environment Interactions: Sea-Level Rise and Marine Resource Use at Eleanor Betty, an Underwater Maya Salt Work, Belize." (McKillop, 2017)
Greensword, Sylviane "Producing 'Fabulous': Commodification and Ethnicity in Hair Braiding Salons." (Jackson, 2017)
Munro, Kimberly "Andean Waterways: Resource Politics in Highland Peru." (Chicoine, 2018)
Ouellette, Gilman "Paleoenvironmental Reconstruction Using Coral Microatolls (Sp. *Siderastrea siderea*) From the Gulf of Gonâve, Haiti." (DeLong, 2017)
Patnukoa, Areerut "GIS Analysis of Dvāravattī Dharmacakras and the Rise of Buddhism in Thailand." (McKillop, 2017)
Richardson, Gabriele "Ethnicity, Climate, and House Types as Mortality Factors in the New Orleans' 1878 Yellow Fever Outbreak." (Fahui Wang, 2018)
Sanchez, Gines "Linguistic Political Ecology with the Ngäbe Indigenous People of Panama." (Sluyter, 2018)
Wang, Bo "Assessing Morphodynamics of the Lower Mississippi River from 1985 to 2015 with Remote Sensing and GIS Techniques." (Lei Wang, 2017)

Masters (Arts):

Ayers, Samuel "Providing Information and Public Outreach Across Three U.S. State Archaeology Offices During the Age of Open Access." (Saunders, 2018)
Berryhill, Lucie Rivers "Examining Limestone Use at Byrd Hammock South (8WA30), Wakulla County, FL." (Saunders, 2017)
Emamjomeh, Aram "هویت من چه کسی در هند تم؟ ایران من کی؟" (How Iranian Am I Still? In Search of My Identity): 21st-Century Iranian Immigrant Identity Formation in the United States." (Brody, 2018)
Groll, Shannon "If You Stand On This Corner, People Know What You're About": Powerful Geographies Of Airline & Goodwood in #JusticeForAlton." (Jackson, 2018)

Hart, Emilee "Metacarpal Ratio and Its Relation to Sexual Dimorphism in Primates with Different Mating Strategies." (Tague, 2018)

Jesch, Jacob "Scaling Relationships Between Cranial Morphological Features and Cranial Capacity in Modern Humans." (Tague, 2017)

Weaver, Kobi "Analysis of Marine Sediment by Chemical Signatures and Loss-on Ignition to Discover Evidence of Ancient Maya Activities at Site 74, Paynes Creek Salt Works, Belize." (McKillop, 2018)

Masters (Science):

Brady, Jana "Reading Between the Vines: Analyzing Climate Change Adaptive Capacity in the Tulbagh Valley Wine Industry, South Africa." (Marks, 2017)
Chan, Yi Ling "An Index for Measuring Community Resilience to Flooding in Baton Rouge, Louisiana." (Colten, 2018)
Gauthreaux, Robert III "Dew Point Variability in the Southeast United States with an Emphasis on Extremes from 1956-2016." (Keim, 2018)
Jamil, Raihan "An Evaluation of the Utility of a Mass-Weighted Frequency Distribution of Sediment for Modeling Aeolian Transport Rates." (Namikas, 2018)
Perham, Robert "Understanding 'Southern' Identities and Confederate Iconography: Internal Orientalism, (mis)Representation, and Social Media." (Mathewson, 2018)
Thompson, Derek "Construction of a Tropical Cyclone Size Dataset using Retroactive Analysis Data with a Damage Application." (Keim, 2018)
Vara, Marissa "A Novel Multiproxy Approach to Reconstructing Sea Surface Temperature in the Southwestern Gulf of Mexico." (DeLong, 2018)

MASSACHUSETTS

CLARK UNIVERSITY

PhDs:

Bornschlegel, Teresa "Three snapshots into complexity: A political ecological analysis of environmental law enforcement in the oil and gas sector; Ecuador 2005 – 2015." (Bebbington, 2017)
Dammert Bello, Juan Luis "Contested Booms: The Politics of Palm Oil Expansion in the Peruvian Amazon." (Bebbington, 2017)
Gill, Nathan "Understanding and predicting current and future regeneration patterns following single and compounded disturbances in the subalpine forests of the Colorado Rockies." (Kulakowski, 2018)
Kim, Young-Long "The Role of Big Data in Understanding Urban Vitality." (Aoyama, 2018)
Tapp, Renee Catherine "Taxes, banks, and renters: Urban redevelopment in the United States after the 2008 crisis." (Davidson, 2018)

Non-Thesis Masters (Arts):

Dobler Morales, Carlos (Chowdhury)
Gross-Wyrzten, Leslie (Emel, Martin)
Jiang, Wenjing (McCarthy)
Jiao, Tong (Williams)
Lukens, David (Davidson)
Odell, Scott (Bebbington)
Wenderlich, Michelle (Davidson)

Research Track Masters (Science):

Heikes, Will "Dónde esta 'Mi Gente'? An analysis of Spanish-language music awareness using Tweets in the United States" (Rogan, 2018)

Layugan, Anela "Change-points in Arctic Sea Ice across Eight Distributed Biological Observatory Sites" (Frey, 2018)
 Simonson, Eli "An Assessment of Forest Loss and Fragmentation for Priority Conservation Landscapes in Central Africa" (Rogan)
 Singh, Rishi "Mapping Mangroves: New Integrated Spectral Protocol for Rapid Mangrove Identification Using Machine Learning" (Eastman)

Internship Track Masters (Science):

Esmaceli Chinchilla, Shirin (Rogan)
 Filipovic, Alexandra (Rogan)
 Khan, Saira (Rogan)
 Miranda, Isabel (Rogan)
 Molloy, Mary (Eastman, Rogan)
 Peluso, Edward (Rogan)
 Reyes Saade, Daniela (Rogan)
 Smith, Thomas (Rogan)

MICHIGAN

MICHIGAN STATE UNIVERSITY

PhDs:

Barry, Fatoumata "Flooding Oil: Investigating Poor Health in Vulnerable Communities in the Niger Delta Region of Nigeria." (Grady)
 Credit, Kevin "Economic Development for the 21st Century: How Proximity to Transit and Walkability Influence Business Creation and Performance." (Mack)
 Ddumba, Saul Daniel "The Impact of Climate Change and Variability on Sweet Potato Production in East Africa." (Andresen)
 Eckert, Jeanette "An Analysis of the Restaurant Landscape in the Detroit Metropolitan Area: Travel Behavior and Spatial Patterns of Difference." (Vojnovic)
 Kadhim, Ameen "Measuring and Modeling the Effects of Sea Level Rise on Near-Coastal Riverine Regions: A Geospatial Comparison of the Shatt Al-Arab River in Southern Iraq with the Mississippi River Delta in Southern Louisiana, USA." (Shortridge)
 Vertalka, Joshua "The Augmentation, Potential, and Practicality of Twitter Data for Predicting Influenza Emergency Room Admissions." (Kassens-Noor)
 Zhou, Peiling "Physical Activity of Older People, Therapeutic Landscapes and Public Spaces in Urban China." (Grady)

Masters (Science):

Barnes, Lonnie "Investigation of Racial and Socioeconomic Disparities in Asthma Hospitalizations in Metropolitan Detroit, Michigan." (Grady)
 Bomber, Michael "Geobia for Identifying Jack Pine Saplings." (White)
 Lown, Cody, MS (Igor Vojnovic), "Railroad Investment and the Development of the Chicago Region, 1850-1910."
 Queen, Clayton "Large-scale Mapping and Geomorphometry of Upland Periglacial Landscapes in Eastern Beringia." (Arbogast, Nelson)
 Rzotkiewicz, Amanda "Exploring Neighborhood Pathways to Health: A Synthesis of Existing Methods and New Directions." (Pearson)
 Stageberg, Marshall "Sensitivities of Simulated Fire-Induced Flows To Fire Shape and Background Wind Profile Using a Cloud-Resolving Model." (Zhong)

MINNESOTA

SAINT CLOUD STATE UNIVERSITY

Masters (Science):

Pintok, Molly Lou "If This Land Could Talk: Reevaluating Historical Representations of Dakota Oyate in Kandiyohi County, Minnesota." (John, 2018)

UNIVERSITY OF MINNESOTA, TWIN CITIES

PhDs:

Bosworth, Kai "The People versus the Pipelines: Energy infrastructure and liberal ideology in North American environmentalism" (Saldanha, 2018)
 Fei, Ding "Variegated Work Regimes: A Comparative Analysis Of Chinese Companies In Ethiopia" (Samatar, 2018)
 Finlay, Jessica "Cities of (In)Difference: A Mixed-Methods Analysis of Place and Wellbeing in Later Life" (Neely, 2018)
 Ikizoglu Erensu, Asli "Spacing Asylum: Orders of Protection in a Turkish City" (Gidwani, 2018)
 Lazzarini, Alicia "'Açúcar nem Sempre Doce': Reinvestment, Land, and Gendered Labor in a 'New' Mozambique" (Sheppard, 2017)
 Morehouse, Todd "A Desire to be Otherwise: On Eco-survivalism" (Braun, 2018)

Master (Geographic Information Science):

Al Hinai, Issa "Professional GIS portfolio." (Sward, 2018)
 Arndt, Jacob "Professional GIS portfolio." (Shook, 2018)
 Barney, Rebecca "Professional GIS portfolio." (Lindberg, 2018)
 Cooper, Grace "Professional GIS portfolio." (Kne, 2017)
 Cooper, Grant "Professional GIS portfolio." (McMaster S., 2017)
 Ehrman-Solberg, Kevin "Professional GIS portfolio." (Mattke, 2018)
 Fimpel, Tobias "Professional GIS portfolio." (Lindberg, 2018)
 Fried, Travis "Professional GIS portfolio." (Kne, 2018)
 Gardner, Adam "Professional GIS portfolio." (Matson, 2017)
 Hartle, Jacob "Professional GIS portfolio." (Lindberg, 2018)
 He, Lewei "Professional GIS portfolio." (Lindberg, 2018)
 Hoveland, Rachel "Professional GIS portfolio." (Kne, 2018)
 Mavis, Chris "Professional GIS portfolio." (S. McMaster, 2018)
 Richardson, Dylan "Professional GIS portfolio." (Lindberg, 2017)
 Wirlinga, Peter "Professional GIS portfolio." (Kne, 2018)
 Zoellmer, Joshua "Professional GIS portfolio." (Dodge, 2018)

MONTANA

UNIVERSITY OF MONTANA

Masters (Science):

Juric, Ashley "Managing Mining Pollution: The Case of Water Quality Governance in the Transboundary Kootenai/y." (Halvorson, 2018)
 Kline, Nicholas "Using Google Earth Engine to Assess Impacts of Oil and Gas Extraction on the Siberian Tundra." (Klene, 2017)
 Kranitz, Rebecca "Evaluating How Kinesthetic Learning Affects Skills and Attitudes of Fourth Grade Students in Montana Using the National Geographic State Giant Traveling Map of Montana" (Halvorson, 2017)
 Medkouri, Ismail "Reproduction of Space in the Mountains of Morocco: A Case Study in the Western Rif" (Halvorson, 2018)
 Sankar-Gorton, Jedd "40 Years on the International Flathead: an Assessment of Transboundary River Governance" (Halvorson, 2018)

Wold, Nathanael "Participatory Web GIS Design a Sustainable Recreation Decision Support System for Missoula County" (Shively, 2018)

Non-Thesis Masters (Science):

Smolka, Sarah (Shively, 2018)
Thurlo, Shane (Halvorson, 2018)
Viereckl, Martin (Klene, 2018)
Zanetos, Nick (von Reichert, 2018)

NEBRASKA

UNIVERSITY OF NEBRASKA, OMAHA

Masters (Arts):

Benson, Eric "Are Leed-ND Developments Catalysts of Neighborhood Gentrification" (Bereitschaft, 2018)
Dunkle, Paige "Road Kill: Wildlife Collisions and Landscape Characteristics Along a Rural-Urban Gradient in Iowa" (Bereitschaft, 2018)
LeGrand, Lacey "Fire-Induced Mineralogical Changes in Midwest Tallgrass Prairie Soils" (Dere, 2018)

NEW JERSEY

RUTGERS UNIVERSITY

PhDs:

Ansharyani, Ida "Barriers to Climate Change Adaptation and Sustainable Livelihoods: Conflicts in Knowledge, Policy and Management of Forests in Batulante Watershed, Sumbawa Indonesia." (McElwee, 2018)
Brady, Michael "Mapping Coastal Exposure to Climate Risks in Alaska's North Slope: A Collaborative, Community-Based Assessment." (Leichenko, 2018)
Fenn, Katherine "Protected Area Networks in Urbanizing Landscape: Spatial Characteristics and Land Acquisition Strategies." (Schneider, 2018)
Gerlofs, Ben "A Right to Leviathan: Grassroots Politics in the City of Palaces." (Lake, Ghertner, 2017)
Karnad, Divya "Locating Effective Commons and Community in Maharashtra State's Fisheries, India." (St. Martin, 2017)
Paul, Diya, "Forest, Wildlife & People on the Margins: Permeable Landscapes in the Eastern Ghats, India." (Hausermann, Schneider, 2018)
Horton Schaeffing, Alison "From Girls to the Poor: Understanding Changes in a Conditional Cash Transfer Education Program in Bangladesh." (Ghertner, 2018)
Whytlaw, Jennifer "Great Expectations: Environmental Hazard Incident Prevention at New Jersey Facilities that Serve Seniors." (Greenberg, 2018)
Woodhouse-Lederman, Kathleen, "Contesting Identities Within Cultural Insecurity: The Case of Muslim Women in Contemporary France." (Ramsamy, 2018)

Masters (Arts):

Olsen, Helen (Schroeder, Hausermann, 2017)
Ulloa, Gabriela, "The Stakeholders' Relationships Role in the Formation of Environmental Inequality in the Valdivia Plant, Los Rios Region, Chile: A Case Study of Environmental Inequality." (Schneider, 2018)

NEW MEXICO

UNIVERSITY OF NEW MEXICO

Masters (Science):

Allen, Akashia "Evaluating Field- and Image-based Remote Sensing Methods for Monitoring Vegetation Change at the Sevilleta National Wildlife Refuge" (Lippitt, 2018)
Hajic, Hayley "Water Quality Assessment: Tracking Pollution Sources via QPCR Microbial Source Tracking in the Santa Fe River" (Duvall, 2018)
Hawk, Anjanette "Impact of Drought on Land Cover Changes in Diné Bikéyah – A Study Through Remote Sensing" (Duvall, 2018)
Mottisinger, Hanes "Virtuous discourse in the specialty coffee sector: How social responsibility practices fragment pursuits for a sustainable supply chain" (Milstein, 2018)
Sheets, Sagert "Implementing the Distance Decay Function in Measures of Spatial Access to Health Resources and Interpreting Its Effect on Results: A Tool for Geographic Information Systems" (Duvall, 2018)
Taraschi, Zach "Evaluating the Utility of Object-Based Image Analysis for Ecological Monitoring of Piñon-Juniper Woodlands" (Lippitt, 2018)
Thompson, Samuel "How the Proximity of Crime Effects Housing Prices: A Hedonic Pricing Study of Inner-Loop Houston, TX" (Lippitt, 2018)
Valentin-Gonzalez, Gladys "Assessment of Vegetation Response to wildfire at Bandelier National Monument, New Mexico. Case study of the las conchas fire" (Lippitt, 2018)

NEW YORK

GRADUATE CENTER, CUNY

PhDs:

Calienes, Christian "The Production of Space: Indigenous Resistance Movements in the Peruvian Amazon" (Miyares, 2018)
Goffe, Rachel "Capture and Abandon: Social Reproduction and Informal Land Tenure in Jamaica" (Gilmore, 2017)
Norton, John "Little Siberia, Star of the North, Prisons, Crisis, and Development in Rural New York, 1968-1994." (Gilmore, 2018)
Pillich, Jose L. "Heat Stress Vulnerability: Analyzing the Socio-Environmental Factors Influencing Heat Stress Hospital Visits and Implementation of Green Infrastructure in New York City" (Klein, 2018)
Portilla, Sixto Emil "The Role of Dietary Highly Unsaturated N-3 Fatty Acids in Northern Quahogs, Mercenaria Mercenaria, Through Decreasing Temperature" (Banco, 2017)
Sharp, Deen "Corporate Urbanization: Between the Future and Survival in Lebanon" (Pavlovskaya, 2018)
Siener, Christian "From Prison to Homeless Shelter: Camp LaGuardia and the Political Economy of an Urban Infrastructure" (Gilmore, 2018)
Tomita, Atsushi "Land Change History of Oil Palm Plantations in Northern Bengkulu Province, Sumatra Island, Reconstructed from Landsat Satellite Archives" (Miyares, 2017)

LEHMAN COLLEGE, CUNY

Masters (Science):

Ahmadreza, Mohammadali Maddi
Ashtari, Fereshteh
Bandziukas, Mary
Bauer, Valerie,

Bullock, David
 Fernandez-Rogers, Veronica
 Gray, Mary
 Levine, Brett
 Pfeffer, Areerat
 Rodriguez, Maria
 Wadolowski, Johnathan

GISc Certificate (Undergraduate):
 Salmon, Newton

Advanced GISc Certificate (Graduate):
 Pillich, Jose

UNIVERSITY AT ALBANY, SUNY

Masters (Arts):
 Gaffey, Clare "Comparison of Remote Sensing Methods for Depicting Phenology of *Picea glauca*" (Lapenas)

NORTH CAROLINA

EAST CAROLINA UNIVERSITY

Masters (Science):
 Connolly, Samantha "Future Flood Risk Perceptions Following Hurricane Matthew: A Study of Eastern North Carolinians" (Montz, 2018)
 Dickerson, Zachary "A Solar Farm in My Backyard? Resident Perspectives of Utility-Scale Solar In Eastern North Carolina" (Hur, 2018)
 McSherry, Logan "Outer Banks Tourists' Preferences, Sensitivities, and Environmental Perceptions: A Case Study of Cape Hatteras National Seashore" (Montz, 2018)
 Vogel, Thomas "Prisons and Pollutant Plumes: A Spatial Analysis of LULU Coexistence" (Montz, 2018)
 Wells, Hannah C. "Dynamic and Thermodynamic Mechanisms for the Onset of the Southeastern United States Convective Season" (Rickenbach, 2018)

UNIVERSITY OF NORTH CAROLINA, CHARLOTTE

PhDs:
 Farrow-Chesnut Tonya, "Defining Multimorbidity Space; Structural characteristics, spatial variation of inpatient multimorbidity networks (IMN), and coronary heart disease." (Campbell, 2018)
 Hohl, Alexander "Accelerating the Detection of Space-Time Patterns Under Non-Stationary Background Population." (Delmelle, 2018)
 Morrell, Elizabeth "Subprime Charlotte: Trajectories of Neighborhood Change in a Globalizing New South City." (Smith, 2018)

Masters (Arts):
 Geng, Juan "Large-area, high-resolution monitoring of tropical deforestation through mitigating cloud effects." (Chen, 2018)
 Grenfell, Catherine "A GIS-Based Spatial Analysis of the U.S. Civil War and Transportation." (Xiang, 2018)
 Lan, Yu "NDS: An Interactive, Web-Based System to Visualize Neighborhood Dynamics." (Delmelle, 2018)
 Miner, Adam "Neighborhood Change Around Heavy Rail Transit Stations: A Class Transition Approach." (Delmelle, 2018)
 Ornstein, Laura "An Evaluation of the Accuracy of Easily-Accessible Projection Models for Small Area Populations." (Boyer, 2018)
 Rowland, Bryan "An Exploratory Mapping Analysis of LGBTQ Spaces: A Case Study of Charlotte, NC." (Sorensen, 2018)

Masters (Science):
 Arey, Jordan "Stratigraphy and Soils of Fluvial Terraces on the Catawba River NC and SC": Landscape Evolution of the Southeastern US." (Eppes, 2018)
 Bordia, Payal "Hydrology and Hydrochemical Transport in a Suburbanizing Piedmont Watershed." (Craig, Allan 2018)
 Blumenberg, Victoria "Isotope Hydrology and Sustainability of High Plains Groundwater in Northeastern New." (Vinson, 2018)
 Ching, Suzanne "Acoustic Emission and Environmental Monitoring of Two Natural Granite Boulders: Semi-arid vs. Temperate Environment." (Eppes, 2018)
 Edwards, Stephanie "Analyzing the Use of Satellite Microwave Remote Sensing Data for Lightning Estimations in the Southeastern United States." (Magi, 2018)
 Farley, Bryan "Investigation of CO2 and CH4 Emissions from Tidal Freshwater and Non-Tidal Bottomland Forests." (Allan, 2017)
 Haydin, Derick "Vertical Hydraulic Gradients and Groundwater-Surface Water Interaction under a Pre-Restoration Piedmont Urban Stream, Charlotte, N.C." (Vinson, 2017)
 Kiker, Taylor "Dissolved Organic Carbon and Dissolved Inorganic Carbon Along an Urbanization." (Vinson, 2018)
 Merritt, Danielle "The Role of Urban Green Roofs as Invertebrate Habitat." (Gagné, 2017)
 Opalka, Catherine "Soils and Stratigraphy of Tributary Alluvial Fans in Uwharrie National Forest, NC, USA." (Eppes, 2018)
 Paton, Grant, "The Traits that Predict Forest Bird Responses to Urbanization Intensity." (Gagné, 2018)
 Pettee, Warren "A Statistical Method of Fog Forecasting in North Carolina." (Eastin, 2018)
 Porson, Steven "A Paleoecological Study of Urban Abandonment in the Early Bronze IV, in the Southern Levant." (Fall, 2018)
 Starnes, Cody "Evaluating the Role of Rain Garden Soils in Nutrient Processing of Stormwater Runoff in Charlotte, NC." (Clinton, 2018)
 Wickliff, Ella "Pre-Restoration Baseflow Dissolved Nutrient Dynamics in an Urban Forested Headwater System, Charlotte NC." (Clinton, 2018)
 Xanthos, George "Ground Penetrating Radar Mapping of Stratigraphy of Fluvial Sequences: Lilesville, NC." (Bobyarchick, 2018)
 Vail, Jacey "Naturally-occurring chromium and vanadium in Charlotte Terrane rocks: A source of trace elements to groundwater?" (Vinson, 2017)

UNIVERSITY OF NORTH CAROLINA, GREENSBORO

PhDs:
 Gallaway, Douglas "3D Modeling of Ultra-high resolution UAV Imagery using low-cost photogrammetric software and structure from motion" (Stine, 2018)
 Ikegaya, Makoto "The Geography of Creativity in the Greater Tokyo Area: 2000-2010" (Debbage, 2018)
 Ismael, Hemin "The Geopolitical Challenge of Kurdistan's Natural Gas" (Johnson, 2018)
 Miller, Jason "Aging in place: the Geography of Long-term care by U.S. county" (Debbage, 2017)
 Nowlin, John "The Geography of Wine in North Carolina: Terroir, Site Selection Efficacy, and Implications for Pierce's Disease Resistant Grape Varieties in the Southeastern U.S." (Bunch, 2017)

Masters (Arts):
 Haller, Dominique "Environmental Ecological & Recreational Impacts of a Proposed Hydroelectric Dam on the Teno River, Chile" (Bunch, 2018)
 Hawks, Nicole "Amending Commemoration: A Toponymic Case Study of Racial Legacies in Greensboro, North Carolina" (Johnson, 2018)

Watkins, Keith "Examining longleaf pine spectral properties to remotely map relict stands in central North Carolina" (Knapp, 2017)

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

Masters (Science):

Brandt, Peter, "Metropolitan Job Loss in the Great Recession: Where Did Those Who Lost Jobs Reside?" (Niedzielski, 2018)
Peltier, Elliot Quinn, "Urban heat island demonstration and temperature progression using Oklahoma City, Oklahoma" (Atkinson, 2017)

OHIO

KENT STATE UNIVERSITY

PhDs:

Rice, Stian "Food System Reorganization and Vulnerability to Crisis: A Structural Analysis of Famine Genesis " (Tyner, 2018)
Schuch, Laura "Geospatial Approaches to Identify Neighborhood Risks to a Pediatric Population" (A Curtis, 2018)

Masters (Arts):

Adams, Ryan "Bomb Cyclones of the Western North Atlantic" (Sheridan, 2017)
Lee, Nathan "Environmental Impacts of Backcountry Camping in Low Regulatory Wilderness: Geographic Patterns in the Allegheny National Forest and Their Implications for Management " (J Curtis, 2018)
Squires, Robert "A Longitudinal comparison of Fine Scale Environmental Risk Factors and Waterborne Bacterial Presence in Haiti" (A Curtis, 2018)

THE OHIO STATE UNIVERSITY

PhDs:

Sylvander, Nora "Making spaces of difference: spatially exclusionary policies in resolving natural resource and territorial conflicts in Nicaragua's Bosawas Biosphere Reserve." (McSweeney 2019)

Masters (Arts):

Gunderson, Jeff "Assessing the Dendroclimatological Potential of *Polylepis rodolfo-vasquezii* in the Cordillera Huaytapallana, Peru." (Mark, 2019)
Hammock, Brookes "Policing the Opioid Crisis." (Coleman, 2019)
Mazumdar, Anurag "How the Sharing Economy Disrupts Social and Material Circuits: Ride-Hailing Taxis in Mumbai." (Mansfield, 2018)
Schenkel, Jared "Assessing the Impact of Public Transit System Redesign on Social Equity Using Space-Time Accessibility Measures." (Miller, 2019)
Shield, Stephen "Modeling Thunderstorm Related Power Outages." (Quiring, 2018)

Masters (Science):

Crane, Dakota "Future Changes to Species' Range along the South American Coast Based on Statistically Downscaled SST Projections." (Montenegro, 2019)
Li, Lingwei "Understanding Antarctic Circumpolar Current Transport at the LGM in an Isotope-enabled Climate Model." (Liu, 2019)

Sambuco, Emily "Exploring microclimates in Great Basin National Park using an Embedded Sensor Network." (Mark, 2019)
Thibault, Mary Grace "Modeling seagoing migration of early Homo via paleoclimate drift experiments to Sulawesi, Indonesia." (Montenegro, 2019)

OHIO UNIVERSITY

Masters (Arts):

Chapman, Angela, "The Neoliberal Economy of Food: Evaluating the Ability of the Local Food System around Athens, Ohio, to Address Food Insecurity." (Perkins, 2017)
Stone, Meredith, "Decor-racial: Defining and Understanding Street Art as it Relates to Racial Justice in Baltimore, Maryland." (Buckley, 2017)

Non-Thesis Masters (Arts):

Crum, Bradley (Anderson, 2018)
Moeller, Olivia (Buckley, 2017)
Welsh, Hayley (Perkins, 2017)

Masters (Science):

Butler, Kelly, "The Effects of Land Cover Type on Tornado Intensity in the Southeastern U.S." (Houser, 2017)
Hassani, Kianoosh, "Multispectral and Hyperspectral Remote Sensing of Quaternary Sediments in Tule and Snake Valleys, Lake Bonneville, Utah." (Sack, 2017)

Non-Thesis Masters (Science):

Acker, Chris (Sinha, 2017)

UNIVERSITY OF CINCINNATI

PhDs:

McCool, Jon-Paul: "Paleoenvironmental Approaches in Arid Region Geoarchaeology: Assessment of Former Habitation Zones and Landscapes."
Wang, Shujie: "Ice Dynamics and Stability Analysis of the Ice shelf – Glacial System on East Antarctic Peninsula over the Past Half Century: Multi-sensor Observations and Numerical Modeling"

Masters (Arts):

Liu, Yang: "Remote Sensing of Forest Structural Changes due to Shale Gas Extraction in the Muskingum Watershed"
Ou Yang, Qianwen: "Combining Net Anthropogenic Phosphorus Input (NAPI) with SWAT Model to Evaluate the Impacts of Land Use and Climate Change on Phosphorus Export - Environmental Analyst"

UNIVERSITY OF TOLEDO

PhDs:

Chohaney, Michael Lawrence "Spatial Dynamics: Theory and Methods with Application to the U.S. Economy" (Smirnov, 2018)

Masters (Arts):

Achchillage, Samaraweera "Analysis of Thermal Infrared Remote Sensing for Rooftop Surface Temp" (Czajkowski, 2018)
Deeter, Curtis "P3s, Urban Growth Machines, and the Glass City" (Shetty, 2018)
Oladimeji, Abolade "Measurement of Spatial Accessibility and Disparities to Pharmacies in Toledo, Lucas County and Portland, Multnomah County" (Shetty, 2018)
Reece, Kristie "Fighting Urban Blight through Community Engagement and GIS" (Xu, 2018)

Samuel Owusu-Agyemang "Examining the Spatial Correlation between Violent Crime and Private Police Monitored Surveillance Camera Systems: An Application of the Localized Colocation Quotient" (Xu, 2018)

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

PhDs:

Craig, Thomas R. "Challenging U.S. Undergraduates' Constructions of India: Opportunities to (Re)Imagine the "Other"" (Sheehan, 2018)

Haffner, Matthew M. "Assessing the Validity of Location-Based Social Media in the Study of Spatial Processes"(Mathews, Finchum, 2018)

Heald, Stephanie E. "Spatial Patterns of Mental Health Treatment in Oklahoma" (Comer, 2018)

Heise, Keeley "Blizzard, Risk, Perception, and Preparedness in the Northern Great Plains" (Stadler, 2017)

McBrayer, William "Koreatown, Georgia: A Geography of Korean Ethnic Churches Engaged in Community Development in Gwinnett County, Georgia" (Finchum, Greiner, 2017)

Zhao, Yun "Exploring the Relationship between Urban Form and Door-to-Door Travel Time: A Focus on High-Speed Rail in the United States" (Yu, 2018)

Masters (Science):

Ellis, Emily "An Optimal Object-Based Approach to Identify Urban Vegetation and Assess Change: A Study of Oklahoma City, 2006-2013" (Mathews, 2017)

Koehn, Stephanie "Place-Making in American Renaissance Festivals" (Greiner, 2017)

UNIVERSITY OF OKLAHOMA

Masters (Science):

Ciarlante, Ashley "The Intersection Of Wind Energy And Wildlife Management: A Case Study Of Prairie-Chickens And Wind Turbine Site Selection In Oklahoma" (Loraamm, 2018)

Hamel, Jennifer "Closing The Gap: Tiny Homes, Social Capital, Implementation, And Disaster Recovery" (Gledt, 2019)

Harderson, Nicholas "Consumer Perceptions And Behaviors Towards Food Waste Reduction - A Two Study Analysis In Oklahoma" (Ziolkowska, 2018)

Gill, Kenneth "Climate Change Drives Divergent Outcomes For Stream Fishes In The Red River" (Neeson, 2019)

Griffin, Austin "A Review Of The Application Of Databases In Freshwater Fisheries Management And The Effect Of Water Quality On The Mean Relative Weight Of Largemouth Bass, Crappie, And Channel Catfish In Oklahoma Lakes" (Hoagland, 2018)

OREGON

PORTLAND STATE UNIVERSITY

PhDs:

Grabowski, Zbigniew "Removing Dams, Constructing Science: Watershed Restoration Through A Socio-Eco-Technical Systems Lens." (Chang, 2018)

Johnson, Gunnar "Rock Glaciers of the Contiguous United States: Spatial Distribution, Cryospheric Context, and Riparian Vegetation." (Chang, 2018)

Larson, Daniel "Attitudes, Behavior, and Archetypes in the Clackamas River Basin: A Model for Water Customer Analysis and Outreach for Watershed Protection and Conservation." (Chang, 2019)

Masters (Science):

Anthony, Lowell Henry "Detecting Geomorphic Change and Stream Channel Evolution on the Sandy River, Oregon, Using Lidar Following Dam Removal in 2007." (Lafrenz, 2019)

Brenneman, Emma Lee "Hydrologic Trends and Relationships of Streamflow and Stream Temperature in the Portland Metropolitan Area." (Chang, 2019)

Busby, Sebastian Upton "High-Severity and Repeated Wildfires Alter Forest Recovery in the Central Cascade Mountains." (Holz, 2019)

Chen, Junjie "Dynamics of Wet-Season Turbidity in Relation to Precipitation, Discharge, and Land Cover in Three Urbanizing Watersheds, Oregon." (Chang, 2019)

Detzer, Judah Adam "Characterizing Temperature Variability States Across Southern South America and Associated Synoptic-Scale Meteorological Patterns." (Loikith, 2018)

Fahy, Benjamin "Evaluating the Impact and Distribution of Stormwater Green Infrastructure on Watershed Outflow." (Chang, 2019)

Harrell, Krystle Nicole "Homelessness in Portland, Oregon: An Analysis of Homeless Campsite Spatial Patterns and Spatial Relationships." (Swobodzinski, 2019)

Hinkley-Bressi, Tera Kathleen "Defining Boundaries: How a City and County Addressed Legalized Recreational Marijuana." (Brower, 2019)

Hitchins, Timothy Michael "Assessing PPGIS Usability and its Relationship to Spatial Data Production: A Case Study." (Swobodzinski, 2018)

Lee, Aylan Matthew "Politics in the San Clemente Dam Removal." (Brower, 2019)

Ramsey, Jeffrey Ian "Tree Canopy Cover and Potential in Portland, OR: A Spatial Analysis of the Urban Forest and Capacity for Growth." (Chang, 2019)

Rogers, John Earl "Stratospheric Polar Vortex Variability in the Northern Hemisphere: The Effects of Climate Change on Polar Vortex Trends and Future Projections." (Loikith, 2019)

Smith, Kira Brooke "Who's at the Table? Exploring Collaborative Governance in the Klamath River Basin." (Brower, 2019)

Uthman, Dan "Soil Geomorphology of a Dewatered Landscape in Willapa Bay, Wash." (Lafrenz, 2019)

GIS Certificate:

Costello, Erin Nicole

Fahy, Benjamin

Jeter, Hanna

Trimmer, Caitlin Marie May

UNIVERSITY OF OREGON

PhDs:

Faye, Jean Baptiste "Farming and Meaning at the Desert's Edge: Can Serer Indigenous Agricultural and Cultural Systems Co-Evolve towards Sustainability?" (Galvan, Walker)

Thill, Zackery Ryan "Rights holders, Stakeholders, and Scientists: A Political Ecology of Ambient Environmental Monitoring in Alberta, Canada" (Cohen)

Wang, Kuan-Chi "Border Assemblages: The Political Economy of Asian Regional Vegetable Trade" (Buck)

Masters (Science):

Hayes, Katherine Rose "Fire and Carbon Cycling in Old Growth Coast Redwood Forests Across the Late Holocene" (Gavin)

PENNSYLVANIA

TEMPLE UNIVERSITY

PhDs:

Hall, Nicole "The Evolution of Institutional Community Engagement Strategies at Urban Serving to Institutional-Focused in a Globalizing World: A Study in Atlantic City, New Jersey" (2018)

Masters (Arts):

Gunther, Emily
Squire, Heather

Masters (Science):

Engel, Meir
Kurz, Kirsten
Maldonado, Cesarina
Rogers, Nicholas
Simmons, Janine
Strohmeier, David

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIVERSITY

Masters (Science):

Boiko, Olena "Land Cover Changes Within and Around Protected Areas in Cote D'Ivoire from 1986 to 2017: A Case Study of the Mabi-Yaya-Songan Tamin Reserved Forests" (Napton, 2019)
Magni, Florencia "How China Reshapes the Future: Geopolitical Significance of Confucius Institutes" (Watrei, 2019)
Parajuli, Sujana "Noise Mapping of an Educational Environment: A Case Study of South Dakota State University" (Spinney, 2018)
Shrestha, Dinesh "The Impacts of Land Use and Land Cover Change on Water Quality in the Big Sioux River: 2007-2016" (Napton, 2018)

TEXAS

TEXAS A&M UNIVERSITY

PhDs:

Loder, Thomas A. "An Examination of Ideology and Subject Formation Among Elite and Ordinary Residents in the Bakken Shale, North Dakota, 2015-2016" (Brannstrom, 2018)
Trimble, Sarah M. "Addressing the International Rip Current Health Hazard" (Houser, 2017)

Masters (Science):

Bartow-Gillies, Ellen R. "Glacial-Interglacial Climate Variability in the North American Southern Great Plains from Stable Isotopes in a Texas Stalagmite" (2018)
Durick, Hannah E. "Application of Circuit Theory for Investigating Drivers of Elephant Movement in Namibia", (2018)
Green, Carl A. "Greening of Recently Deglaciated Lands in Kenai Peninsula" (Klein, 2018)

Thapa, Shubhechchha "Comparison of Modis and VIIRS Snow Cover Products for the 2016 Hydrological Year" (O'Reilly, 2017)

Non-Thesis Masters (Science):

Adams, Seth H. (2018)
Beckner, Sydney Starr (2018)
Li, Yiran (2018)
Miller, Kelci Shawn (Roark, 2018)

TEXAS STATE UNIVERSITY

PhDs:

Holtkamp, Christopher "Social Capital, Place Identity, and Economic Conditions in Appalachia" (Weaver, 2018)
Kamarinas, Ioannis "Geospatial Analyses of Terrestrial-Aquatic Connections across New Zealand and their Influence on River Water Quality" (Julian, 2018)
Lila, Reni Bibriven "Landslide Hazard Modelling in Ventura and Santa Barbara Counties, California Using Multi-Tiered Geospatial Data Analysis" (Hagelman, 2018)
McClure, Caroline "History of the Alliance Network: A Transformative Research Project of the National Geographic Network of Alliances for Geographic Education, 1986-2011" (Boehm, 2018)
Ross, Martin "The Geomorphic Nature of Mountain Bike Impacts on Selected Trail Systems Near Austin, Texas" (Butler, 2017)
Scholz, Ruojing "Space-Time Modeling and Visualization of Urban Population Daily Travel-Activity Patterns Using GPS Trajectory Data" (Lu, 2018)
Wei, Guixing "Assessment of Personal Exposure to Air Pollution Based on Trajectory Data" (Zhan, 2018)
Zhao, Chunhong "Studying Surface Urban Heat Island Phenomenon using Remote Sensing Methods in Three Metropolitan Areas in Texas, USA" (Jensen, 2018)

Masters (Science):

Alyaqut, Abdullatif "Water Depth (WD) Mapping of Hurricane Harvey Using Volunteered Geographic Information (VGI) in Harris County Texas" (Chow, 2018)
Andresen, David "Modeling Sediment Yield in the Sink Creek and Purgatory Creek Watersheds near San Marcos, Texas" (Meitzen, 2018)
DeVivo, Amelia "Seeds of Stewardship: An assessment of the Benefits of an Urban School Garden" (Devine, 2018)
Gonzalez, Steven "Spatio-Temporal Interactions Between Climate Change, Indigeneity, and Maize in Mexico" (Weaver, 2018)
Hussein, Mogahid Adam Ahmed "A Comparative Analysis of Social Vulnerability Mapping Techniques for Travis County, Texas" (Hagelman, 2018)
Manning, Aspen "Natural Succession and Riparian Forest Recovery Following a Major Flood on the Blanco River, Texas" (Meitzen, 2018)
Mills, David "Agent-Based Modeling of the Transport of Tropospheric Ozone Generated by Point-Source Emissions of Ozone Precursors" (Lu, 2018)
Pinon, Andrea "Scratching the Surface: A Content Analysis of Gorillas as Zoogeomorphic Agents" (Butler, 2018)
Stanley, Rachel "Comparison of Two Active Hydrocarbon Production Regions in Texas to Determine boomtown Growth and Development: A Geospatial Analysis of Active Well Locations and Demographic" (Blanchard, 2018)

Masters (Applied Geography):

Barnard, John "Garwood Irrigation Division, Texas: Exploration of water use and conservation: 2012-2016" (Earl, 2018)
Carhart, Mackenzie "Floodplain Land cover Classification and Change Detection Analysis for the City of Austin, Tx from 2008 to 2016" (Hagelman, 2018)

- Combs, Jacob "Identifying Functional Urban Regions from Bluetooth Data: A Case Study of Austin, Texas" (Yuan, 2018)
- Cregg, James "A Study of CPTED Principles and their Relationship to Crime Risk in Beaumont, Texas" (Lu, 2018)
- Essington, Anna "Modeling the Impacts of Green Roof Systems on Stormwater Mitigation" (Chow, 2018)
- Haddad, Stacey "The West Africa Ebola Virus Disease Outbreak of 2014: Mapping the Journey of Confirmed Cases through Sierra Leone" (Butler, 2018)
- Holloway, Sara "Environmental Geography Education for Adults with Intellectual/Developmental Disabilities (IDD)" (Devine, 2018)
- Kissel, Angela "Exploring Scrap Tire Recycling Opportunities and Environmental Justice Concerns: A Case Study of Travis County, Texas" (Blue, 2017)
- Larcom, Steven "The Relationship Between Regional Climate and Post-Fire Debris Flows in Glacier National Park" (Butler, 2018)
- Lebron Bengochea, Adailin "Analyzing Human Interest to Hurricane Harvey using Location Based Social Media and Tobler's First Law of Geography" (Yuan, 2018)
- Lopez, Andrea "Impacts of Flooding on the Hispanic Community in the New Braunfels, Texas: A Mixed Method Approach to Understanding Flood Vulnerability" (Devine, 2018)
- Lu, Fangda "Does Better Accessibility to Exercise Facilities Mean People Use Them More?" (Lu, 2018)
- Lu, Han "Examining the Driving Factors of Urban Sprawl in San Antonio Metropolitan Area During 1990 – 2010" (Chow, 2018)
- Pesek, Thomas "Assessing the Effects of Hydrologic Enforcement Methods in a Central Texas Watershed" (Chow, 2018)
- Sheppard, Richard "The Use and Management of the Ogallala Aquifer 1990-2015" (Loftus, 2017)
- Udita, Tasnuva "Land Use / Cover Change Detection and Analysis of the Upper Guadalupe River, Central Texas" (Meitzen, 2018)
- Umeokafor, Francis "Predicting International Travel Destinations from Geotagged Flickr Photos" (Yuan, 2017)

UNIVERSITY OF TEXAS, AUSTIN

PhDs:

- Doubleday, Kalli "Rewilding Expectations: Human-Environmental Relations in Context of Apex Predator Reintroduction in Rajasthan, India." (Adams, 2018)
- Krause, Samantha "Wetland Agroecosystems in the Maya Lowlands of Belize: Lidar and Multi-Proxy Environmental Change." (Beach, 2018)
- Schank, Cody "Investigation of Novel Methods to Predict the Distribution, Abundance, and Connectivity of Rare Species: A Case Study for the Conservation of Baird's Tapir." (Miller, 2018)
- Yang, Xuebin "Research on Texas Savannas: Fractional Woody Cover Mapping, Potential Woody Cover Modelling, and Woody Plant Encroachment Analyzing." (Crews, 2017)

Masters (Arts):

- Fuchs, Sophie "Leydi's World: A Feminist Commodity Chain Analysis of the Cut-Flower Industry and Its Women Workers in Cayambe, Ecuador." (Knapp, 2018)
- Segura, Ciara "Regulation and Resistance: Pesticides, Farmworkers, and the Production of California's Agricultural Landscape." (Torres, 2018)

UTAH

UNIVERSITY OF UTAH

PhDs:

- Campbell, Michael "Remote Sensing and Geospatial Modeling of Wildland Firefighter Safety" (Dennison, 2018)
- Lloyd, Brent "Evaluating Health And Farming Methods In Burkina Faso" (Dennison, 2019)

Masters (Science):

- Ackroyd, Chelsea "Snow Cover Trends Over High Mountain Asia from MODIS Snow Cover and Grain Size" (Skiles, 2019)
- Bailey, Vanessa "Modeling Vegetation Distribution and Carbon Sequestration in the Pacific Northwest" (Brewer, 2018)
- Baustian, Kate Josephine "Seasonal and spatial distribution of wet snow on three volcanoes in western Washington mapped with synthetic aperture radar" (Rupper, 2019)
- Bidez, Clarice Lee "Changing Agricultural Suitability: Model Development and Applications in the Past and Future" (Brewer, 2018)
- Lund, Jewell "Synthetic Aperture Radar Snow Conditions: Seasonal And Diurnal Signals In The Upper Indus Basin" (Forster, 2018)
- McDonald, Kaila "Air Pollution And Fetal Development: Fine Particulate Matter And Preterm Birth In Utah (2005-2008)" (Brewer, 2018)
- Meyer, Joachim "Assessing The Ability Of Structure From Motion To Map High-Resolution Snow Surface Elevations In Complex Terrain: A Case Study From Senator Beck Basin, CO" (Skiles, 2019)
- Miller, Sandra "Spatial Modeling Of Wildland Fire Ignition Potential In Utah" (Dennison, 2019)

Masters (Geographic Information Science):

- DeLora, Matthew E. (2019)
- Proulx, Nicole M. (2019)
- Sellers, Adrian D. (2019)
- Silwal, Sabita (2019)

VIRGINIA

UNIVERSITY OF MARY WASHINGTON

Masters (Science):

- Bergstresser, Sarah "Application of least-cost path analysis for a U.S. Route 29 bypass around Charlottesville, VA" (Rizzo, 2018)
- Bernhardt, Gerard "Is Broadband Access Predicted by Demographics?" (Rizzo, 2018)
- Hooks, Kristine "The Geographic Distribution of Recent Benthic Foraminifera off the North American Atlantic Coast: A Web-based Geovisualization" (Hanna, 2018)
- Keplinger, Katie "Using MODIS Fire Detections as a Means for Tracking Boko Haram Village Burnings" (Millones Mayer, 2018)
- McPhail, Peter "Conceptualizing the counterinsurgency: a historical GIS of the Marines in the Dominican Republic, 1917-1919" (Hanna, 2018)
- Petroff, Christopher "Creating Efficiencies with GIS at Stafford Regional Airport" (Rizzo, 2018)
- Seay, Stephanie "Exploration of Urban Greenness and Low Birth Weight in Georgia" (Yin, 2018)
- Slyer, Gelisa "Analysis of Property Crime in Washington DC from 2010-2015" (Rizzo, 2018)
- Snyder, Jacob "Multi-Temporal Analysis of the 'Urban Heat Island' Effects in Phoenix, Arizona" (Millones Mayer, 2018)

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

Masters (Science):

- Dyson, Alexis "Variability in the Debitage of the Early Holocene Lithic Assemblages of the Sanders (45KT315) Site" (McCutcheon, 2018)
- Hammersberg, Barbara "Embodying the Hyphen: An Ethnographic Study on Korean Adoptees" (Amason, 2018)
- Haydon, Kevin "Holocene Fire, Vegetation and Environmental Change in the Sinlahekin Wildlife Area, Okanogan County, Washington" (Walsh, 2018)
- Jakien, Roman "Rock Features of Southern Oregon and Northern California: An Integrated Approach to Identification" (Lubinski, 2018)
- Johnson, Matt "A Zooarchaeological Analysis of Hole-in-the-Wall Canyon (45KT12) and French Rapids (45KT13) Sites, Ginkgo State Park, Washington" (Lubinski, 2018)
- Kugel, Scott "Abandoned Mine Land Impacts on Water and Sediments in the Upper Yakima River Watershed, Eastern Cascade Mountains, Washington" (Lillquist, 2018)
- Lowry, Chris "Cladistic Analysis of Faunal Assemblages Across Ainu and Pre-Ainu Sites in Central Hokkaido" (Hackenberger, Terry, 2017)
- Martin, Jessie "Get the Lead Out: A Hedonic Housing Price Analysis of Solid Contamination and Remediation in Washington State" (Sipic, 2017)
- Oliver, Noah "Geomorphic Consequences of Energy and Transportation Development Near Celilo Falls, Lower Mid-Columbia River, Washington" (Lillquist, 2018)
- Pfeifer, Sam "Residential Solar Uptake in Washington State" (Bowen, 2018)
- Pratt, Sarah "Economic Impact of the 2014 Oso Landslide: A Hedonic Approach" (Sipic, 2018)
- Riffle, Adam "Rock Glaciers in the Eastern Cascades, Washington: Internal Composition and Implications for Ice Volume and Water Equivalence" (Lillquist, 2018)
- Stcherbinine, Sean "The Origin of Dark Mats at the Sunrise Ridge Borrow Pit Site (45PI408) Mount Rainier National Park, Washington" (McCutcheon, 2018)
- Stilwater, Luke "Habitat Utilization of Willapa Bay, WA by the Endangered Green Sturgeon" (Gabriel, 2018)
- Straniti, Brian "Fracked Perceptions: Changes in Perception Regarding Hydraulic Fracturing Among Residents of Dimock, PA" (Delgado, 2017)

UNIVERSITY OF WASHINGTON

PhDs:

- Brown, Megan Elizabeth "The geographies of the \$15 wage movement: new union campaigns, mobility politics, and local minimum wage policies" (England, 2017)
- McClelland, Jesse A. "Planners and the work of renewal in Addis Ababa : developmental state, urbanizing society" (Herbert, 2018)
- Muirow, Arianna Rachel "Exploring the online farmers' market : neoliberal venture capital meets the alternative food movement" (Jarosz, 2017)

Masters (Arts):

- Dwyer, Maev A. D. "Urban citizenship, quality domesticity, and the queer precarity of rural migrants in Beijing" (Chan, 2018)

WISCONSIN

UNIVERSITY OF WISCONSIN, MILWAUKEE

PhDs:

- Deng, Yingbin "Uncertainty Analysis of Spectral Mixture Analysis of Remote Sensing Imagery" (Wu, 2018)
- Hashimoto, Yui "The Tale of Two Cities: A Feminist Critique of Economic Development and Neoliberal Multiculturalism in Milwaukee" (Bonds, 2018)
- Song, Yang "Examining Human Heat Stress with Remote Sensing Technology" (Wu, 2018)

CANADA

ALBERTA

UNIVERSITY OF CALGARY

PhDs:

- Liu, Xiaoxiao "NO₂ Exposure and Myocardial Infarction Hospitalizations in Calgary, Canada." (Bertazzon, 2018)
- Lukasik, Victoria "Lethal Control, Tradition, and Politics: Anthropocentric Large Carnivore Management in Western Canada." (Alexander, 2018)

Masters (Arts):

- Owad, Kathryn "The Role of Geography in the Genesis and Evolution of Environmental Rights in Montana." (Holden, 2018)

Masters (Science):

- Ackerman, Francis "Lodgepole Pine and Interior Spruce Radial Growth Response to Climate and Topography in the Southern Rocky Mountains, Alberta." (Goldblum, 2018)
- Blade, Michelle "Characteristics of an Icing-Dammed Proglacial Lake." (Moorman, 2017)
- Chen, Shijuan "Characterizing Vegetation Structure on Anthropogenic Disturbance Features in Alberta's Boreal Forest with Unmanned Aerial Vehicles." (Yackel, 2017)
- Ellis Jessica "Mapping Groundwater Discharges to Rivers near Oil Sands Projects." (Jasechko, 2017)
- Klassen Peter "Modelling Palaeohydrological Controls in Postglacial Mountain Drainage Basins." (Martin, 2018)
- Kucharczyk Maja "UAV-LiDAR and Structure from Motion Photogrammetry: Spatial Accuracy in Vegetated Terrain." (Hugenholtz, 2017)
- Lovitt Julie "Quantifying the Impact of Seismic Lines on Methane Release in a Treed Bog Ecosystem using Unmanned Aerial Vehicles (UAVs)." (McDermid, 2018)
- Ramjan, Saroot "Relationship between Microwave-Derived Snow Thickness on Winter First-Year Sea Ice and Melt-Pond Fraction." (Yackel, 2018)

Masters (Geographic Information Systems):

- Jewett, Lauren "Spatially Characterizing Atmospheric Black Carbon in Calgary." (Bertazzon, 2017)
- Khan, Amritpal "A Multimodal Network Analysis of Spatial Accessibility to Primary Healthcare Services in the City of Calgary, Canada." (Fast, 2018)
- Kim, Harry "Space Syntax Analysis of Hospital Plans, Epsom, UK." (Jacobson, 2017)

- Ojiako, Nicholas "Using GIS Spatial Analysis and Statistical Models to Predict Habitat Distribution of Coyote (*Canis latrans*) in an Urban or Human Transformed Area of Calgary, Alberta." (Alexander, 2017)
- Shaw, Keegan "The coupled effects of incidence angle, snow temperature, and snow thickness on C-Band SAR backscatter from snow-covered Arctic Sea Ice." (Yackel, 2018)
- Tareen, Shazad "Enterprise GIS – Road Map to Implement an Enterprise GIS." (Alexander, 2017)

BRITISH COLUMBIA

UNIVERSITY OF BRITISH COLUMBIA

PhDs:

- Boulanger-Lapointe, Noémie "Importance of berries in the Inuit biocultural system: a multidisciplinary investigation in the Canadian North." (2017)
- Chartrand, Shawn M. "Pool-riffle dynamics in mountain streams: implications for maintenance, formation and equilibrium." (2017)
- Cohen, Dan "Schooling markets: the circulation, creation, and contestation of charter school markets in the United States." (2017)
- De Rego, Kathryn Grace "Decadal-scale evolution of Elwha River downstream of Glines Canyon Dam: perspectives from numerical modeling" (2018)
- Elgueta Astaburuaga, Maria A. "Effects of episodic sediment supply on channel adjustment of an experimental gravel bed." (2018)
- Farrales, May Leanne "Gendered sexualities in migration: play, pageantry, and the politics of performing Filipino-ness in settler colonial Canada." (2017)
- Jones, Craig Andrew "The war lawyers: U.S., Israel and the spaces of targeting." (2017)
- Koerner, Jacqueline Laura "Not so fast—building resilience in place : BRAC (Bangladesh) and the rise of social enterprise in the world's largest non-governmental nonprofit organization." (2018)
- Maguire, Bradley David "Modeling place attachment using GIS." (2017)
- Parente, Genevieve "Frozen assets: private sector actors in arctic governance." (2017)
- Ponder, Caroline Sage "The life and debt of great American cities: urban reproduction in the time of financialization." (2017)
- Prouse, Valerie Carolyn "PACifying Alemão: articulations of public security, market formalization, and autoconstruction in Rio de Janeiro." (2017)
- Ritts, Max Jacob "Audible developments: geographies of capitalism, nature, and sound on BC's North Coast." (2018)
- Rosenman, Emily Thea "The spaces of social finance: poverty regulation through the 'invisible heart' of markets." (2017)
- Van der Kamp, Derek W. "Spatial patterns of humidity, fuel moisture, and fire danger across a forested landscape." (2017)

Masters (Arts):

- Brydolf-Horwitz, Rachel "Virtual injustice: technology, gendered violence and the limits of the law." (2017)
- Derksen-Bergen, Tesia "Divergent intersections: multicultural education and peer interactions in schools." (2017)
- Grigoryeva, Idaliya "Going through the 'roof': spatial price diffusion and the ripple effect in the Vancouver housing market." (2017)
- Majumder, Debolina "Footnotes to a conflict? Rethinking questions of class and the state in post-accession Jammu and Kashmir." (2017)
- Omstedt, Tuve Mikael "Reading risk: credit rating and the politics of municipal debt." (2017)

- Yang, Connie "Si(gh)ting Israel/Palestine : the slow violence of international tourism." (2017)

Masters (Science):

- Beagley, Rosemary Patricia Jane "Effect of alternate stopbank alignments on the Waiho River, Westland, New Zealand: a microscale modelling investigation." (2017)
- Buckrell, Emma "The formation and adjustment of a pool-riffle sequence in a gravel bed flume." (2017)
- Cannon, Sara E. "Investigating human impacts to coral reefs in the Republic of the Marshall Islands." (2017)
- Everard, Kelsey "On nighttime turbulent exchange within and above a sloped vineyard." (2017)
- Semmens, Caitlin Iris "Characterizing turbulent exchange over a heterogeneous urban landscape." (2017)

UNIVERSITY OF VICTORIA

PhDs:

- Baltutis, Jesse "Power, porous borders, and polycentricity: the changing nature of transboundary water governance" (Moore, 2018)
- Bourbonnais, Mathieu "A multi-scale assessment of spatial-temporal change in the movement ecology and habitat of a threatened grizzly bear (*Ursus arctos*) population in Alberta, Canada" (Darimont, Nelson, 2018)
- Buchan, Robert "Transformative incrementalism: a grounded theory for planning transformative change in local food systems" (Cloutier, Jelinski, 2018)
- Dicken, Emily "A Nu-u-chah-Nulth approach to disaster resilience" (Cloutier, 2017)
- Dunham, Jason "The role of fisheries closures in population assessments and management of marine benthic invertebrate: a Dungeness crab case study" (Canessa, 2018)
- Irwin, Sean "Forging pathways to sustainable food systems and rural poverty reduction: insights from a social and economic value chain analysis of aquaculture in the Bolivian Amazon" (Flaherty, 2018)
- Newton, Brandi "An evaluation of winter hydroclimatic variables conducive to snowmelt and the generation of extreme hydrologic events" (Prowse, 2018)
- Pingree-Shippe, Katherine "Seasonal predictability of North American coastal extratropical storm activity during the cold months" (Atkinson, Zwiers, 2018)

Masters (Arts):

- Ole Kileli, Emmanuel "Assessment of the effectiveness of a community-based conservation approach used by pastoralist villages in Loliondo Division, Northern Tanzania" (Dearden, 2017)
- Schina, Brittany "Exploring perceptions of disaster risk and earthquake hazard on southern Vancouver Island, British Columbia, Canada" (Cloutier, Seemann, 2017)

Masters (Science):

- Courtin, Eric "Snowfall event analysis at a remote northern alpine icefield" (Atkinson, Demuth, 2018)
- Davidson, Katherine "Influences of marine subsidies on coastal mammals" (Darimont, 2018)
- Eid Valdiviezo, Ahmed "Give a person a loan and she will be fed a lifetime? Microcredit, aquaculture and capabilities in the Bolivian Amazon" (Flaherty, 2018)
- Kockel, Alessia "Designing marine protected areas that are ecologically representative and socially equitable" (Dearden, 2018)
- Lausanne, Alexandra "Identifying and interpreting geoarchaeological sites with high prospecting potential using aerial LIDAR, GIS and sedimentological analysis" (Walker, Fedje, 2018)

- MacLeod, Roger "A comparison of airborne and simulated EnMap hyperspectral imagery for mapping bedrock classes in the Canadian Arctic" (Niemann, 2017)
- Nahimick, Natasha "Long-term spatial-temporal eelgrass (*Zostera marina*) habitat change (1932-2016) in the Salish Sea using historic aerial photography and unmanned aerial vehicle" (Costa, Sharma, 2018)
- Nasonova, Alexandra "Estimating Arctic sea ice melt pond fraction and assessing ice type separability during advanced melt" (Scharien, 2018)
- Russo, Geneen "Forty years of BC's water quality objectives, a policy for governance or management? Lessons for improving cumulative effects management and water quality protection" (Moore, 2018)
- Wang, Yaqiong "Statistical homogenization of undocumented monthly temperature data in British Columbia for trend analysis" (Atkinson, Zwiers, 2018)

MANITOBA

UNIVERSITY OF WINNIPEG

- Burroughs, Domenica R. "An Evaluation of the Arctic SDI" (Storie, 2018)

ONTARIO

BROCK UNIVERSITY

Masters (Arts):

- Fischer, Adam "A Domestic Geography of Money: How Mortgage Debt, Home Prices and Toronto's Condominiums "Prop Up" the Canadian Economy" (Mackintosh, 2018)

Research Papers:

- Amoak, Daniel "Combating desertification in Semi-Arid Ghana: An analysis of rainfall trends and resilience in the Upper East Region" (Shaw, 2018)

CARLETON UNIVERSITY

PhDs:

- Colombo, Nicola "On characteristics and dynamics of water-rock glacier interactions in mountain areas (Western Italian Alps)" (Gruber, 2017)
- Kennedy, Blair, "Multi-Angle Spectroscopic Remote Sensing of Arctic Vegetation Biochemical and Biophysical Properties" (King, 2017)
- Trebilcock, Romola, "Ginawaydaganuc and the Circle of All Nations: The Remarkable Environmental Legacy of Elder William Commanda" (Taylor, 2018)

Masters (Arts):

- Depaiva, Alex, "Understanding the Role and Value of Participatory Mapping in an Inuit Knowledge Research Context" (Mitchell, Ljubicic, 2017)
- MacPherson, Kathryn, "Political Ecology of Health of South Sudanese Immigrants and Refugees in Ottawa" (Mkandawire, 2017)
- Mearns, Rebecca, "Nunavut, Uqausivut, Piqquisivullu Najuqsittiarlavu (Caring for our Land, Language and Culture): The use of land camps in Inuit knowledge renewal and research" (Ljubicic, 2017)

Masters (Science):

- Brown, Nicholas, "Towards improved monitoring of changing permafrost by estimating soil characteristics from group temperature time-series" (Gruber, 2018)
- Foster, Robert 'Alex', "Multidimensional assessments of long-term anthropogenic impacts on domed peatlands: Learning from two centuries at Alfred Bog, Ontario, Canada" (Richardson, Brklacich, 2017)
- George, Scott, "Volunteered Geographic Information: A Review of the OpenStreetMap.org Project and Factors Relating to its Reliability" (Mitchell, 2017)
- Laforce, Andree-Anne, "Spatial variability of carbon emissions within a drained lake basin and its surrounding tundra, Illisarvik, Northwest Territories" (Burn, Humphreys, 2018)
- Michel, Cassandra, "Groundwater-surface water interactions in the Jock River watershed, Ottawa, Ontario" (Richardson, 2017)
- Skaarup, Electra, "The impacts of shrub abundance on microclimate and decomposition in the Canadian Low Arctic" (Humphreys, 2017)
- Wilson, Mary 'Alice', "Vegetation succession and environmental relations at the Illisarvik drained lake experiment, western Arctic Coast, Canada" (Burn, Humphreys, 2018)

MCMMASTER UNIVERSITY

Masters (Arts):

- Akbari, Zahra "Understanding Spatial and Temporal Tensions of Iranian Immigrant Caregiver-employees for Home Environment Design Improvement." (Williams, 2018)
- Patterson, Ashleigh "Assessing the potential for implementation of the Carer-Inclusive and Accommodating Organizations Standard" (Williams, 2018)

Masters (Science):

- Agnihotri, Jetal "Evaluation Of Snowmelt Estimation Techniques For Enhanced Spring Peak Flow Prediction" (Coulibaly, 2018)
- Blomfield, Douglas "3-D Imaging of Root Architecture Using Multichannel GPR" (Boyce, 2018)
- Burns, Brandon "Response of Ecosystem Evapotranspiration to Water-Stress in a Temperate Deciduous Forest in southern Ontario" (Arain, 2017)
- Chan, Winnie May "Paleohydrologic Reconstruction Of Yax Chen Cave (Yucatan Peninsula, Mexico) In Response To Holocene Climate Change" (Reinhardt, 2017)
- Ciuro, Celenna "Understanding Bike Share Usage: An Investigation of SoBi (Social Bicycles) Hamilton" (Scott, 2017)
- Ford, Sian Erin "Phospholipid Fatty Acids As Biomass Proxies And Their Use In Characterizing Deep Terrestrial Subsurface Microbial Communities" (Slater, 2018)
- Furukawa, Alexander "ore-water Feedbacks and Resilience to Decay in Peat-filled Bedrock Depressions of the Canadian Shield" (Waddington, 2018)
- Gordon, Julien "Decision Game: A Serious Gaming Approach to Understanding Household Flood Risk Mitigation Decision-Making" (Yiannakoulis, 2018)
- Hachey, Stephen Quinn "Prospects for Sustainable Micro-Factory Retailing in Canada: A Case Study of 3D Printed Electric Vehicles" (Newbold, 2018)
- Ingram, Rebekah "Peatland Carbon Accumulation Following Wildfire on the Boreal Plains: Implications for Peatland Reclamation and Wildfire Management" (Waddington, 2018)
- Jazwiec, Alicja N. "Focused flow during water infiltration into ethanol-contaminated unsaturated porous media" (Smith, 2018)
- Kryw-Janzen, Anya "Late Holocene Paleoclimatic Records From Lake Pac Chen And Carwash Cenote, Quintana Roo, Mexico" (Reinhardt, 2018)
- Leung, Matthew "Detailed Thin-Bedded Facies Analysis Of The Upper Mancos Shale, New Mexico" (Bhattacharya, 2018)

Morris, Patrick "Depth Dependent Roles of Methane, Ammonia and Hydrogen Sulfide in the Oxygen Consumption of Base Mine Lake, the pilot Athabasca Oil Sands Pit Lake" (Warren, 2018)

Wiercigroch, Monica, "High-resolution facies analysis and regional correlation of the Upper Cretaceous Juana Lopez Member of the Mancos Shale, New Mexico" (Bhattacharya, 2018)

QUEEN'S UNIVERSITY

PhDs:

Anderson, Peter "Field Experiments: Critical Historical Geographies of Canada's Central Experimental Farm, 1886-1938." (Cameron, 2017)

Dearborn, Katherine "Landscape-scale variability in the composition, growth and pattern of alpine treeline vegetation." (Danby, 2017)

Earley, Sinead "Forests, Beetles, and Climates in British Columbia's Central Interior: Historical Geographies of Paradigm Change in Forest Science and Management, 1945 - Present." (Cameron, Mabee, 2018)

Lewis, Nemoy "A Dream Denied: The Fight Against the Mass Eviction of Families in Chicago and Jacksonville, USA." (Kobayashi, 2018)

Schaeffli, Laura "Exposing the Colonial Mind: Epistemologies of Ignorance and Education in Ontario, Canada." (Godlewska, 2018)

Shang, Chen "Modelling Forest Inventory and Biophysical Variables for an Uneven-Aged Forest Using Multi-Source Remotely-Sensed Data." (Treitz, 2018)

Sloan Morgan, Vanessa "Learning New Relationships: Settler Responsibilities, HUU-AY-AHT First Nations' Self-Government, and Implementing the MAA-NULTH Treaty." (Castleden, 2017)

Song, Mingjie "A Framework with Improved Spatial Optimization Algorithms to Support China's "Multiple-plan Integration" Planning at the County Level." (Chen, 2018)

Yang, Mengqi "Health inequalities of older people in China." (Rosenberg, 2017)

Masters (Arts):

Barberstock, Shyra "'A New Way Forward': Reconciliation through Indigenous Social Innovation." (Rosenberg, 2017)

Calabretta, Marc "'Ancient Spirit, Modern Mind': Documenting Huu-ay-aht First Nations' Journey to the Maa-Nulth Treaty Through Community-Based Archival Research." (Castleden, 2017)

Robinson, Trevor "Public Project, Private Developer: Understanding the Impact of Local Policy Frameworks on the Public-Private Housing Redevelopment of Regent Part in Toronto, Ontario." (Donald, Letourneau, 2017)

Talan, Breah "Access and Wait Times: A Geographic Exploration of Diagnostic Imaging in Ontario." (Rosenberg, 2018)

Masters (Science):

Bonney, Mitchell "Landscape variability of vegetation change across the forest to tundra transition of central Canada." (Treitz, Danby, 2017)

Peters, Jessica "Subsurface water flow pathways in the Canadian High Arctic." (Lamoureux, 2017)

Masters (Planning):

Bell, Paul "Art and Soul in the Exchange District of Winnipeg, MB: Planning for Arts, Culture and Creativity." (Donald, 2017)

Polyzois, Konstantine "Internet-based Planning in First Nations Communities: Challenges and Opportunities." (Whitelaw, 2018)

Non-Thesis Masters (Planning):

Cathro, Jared

Eberhard, Andrew

Evangelista, Jonella

Forzley, Erin

Garfinkel, Evan

Gordon, Margaret

Huan, Peter

Keng, Aileen

McCauley, Benjamin

Ponce, Danais

Robidoux, Meghan

Smyth, Jennifer

Sugar, Geoffrey

Tanner, Mark

Tran, Robert

Weekes, Miles

UNIVERSITY OF GUELPH

PhDs:

Davis, Emma "An Evaluation of Constraints to Treeline Advance Across Multiple Scales in the Canadian Rocky Mountains." (Gedalof, 2018)

Fraser-Celin, Valli "Exploring Human-African Wild Dog (*Lycan pictus*) Conflict, Conservation, and the Lives of Wild Dogs in Botswana, Africa." (Silver, 2018)

Rotz, Sarah "Digging into Industrial Food Systems: A study of socio-ecological diversity in Ontario agriculture." (Fraser, 2017)

Vansteenkiste, Jennifer "Food Insecurity in Haiti: A Gendered Problem in the Making." (Roth, 2017)

Masters (Arts):

Clark, Kendal "The (Re)production of Nature on Natural Resource Based Reality Television." (Silver, 2017)

DeLorenzo, Amy "Closing the Loop, or Running in Circles? Implementing a Circular Economy in Ontario." (Parizeau, 2017)

Duncan, Emily "Exploring the Impact of Precision Agriculture on Social Relations in Ontario." (Fraser, 2018)

Fromstein, Maya "The Spaces Between Theory and Praxis: Exploring Action and Actors in Toronto's Food Justice Movement." (Smithers, 2017)

Goshulak, Larissa "Balancing Market Access with Local Practice: Understanding harvester group motivations and experiences with Marine Stewardship Council certification." (Silver, 2017)

Homer, Liz "A Community Economies Approach to Consignment Clothing in Guelph, Ontario." (Hawkins, 2017)

Keyser, Erich "Collaborative Conservation: Reconnecting People, Land, and Bison through the Innii Initiative." (Roth, 2018)

Kipp, Amy "Shaping the 'Volunteer Tourist Bubble': The Gendered Experiences of Volunteer Tourists." (Hawkins, 2017)

Jasiuk, Linnaea "Inuit Women's Conceptualizations of and Approaches to Health in a Changing Climate." (Pearce, 2016)

Lalonde, Geneviève "Inuit Perceptions of Learning and Formal Education in the Canadian Arctic." (Pearce, 2017)

Martin, Emily "Free Prior and Informed Consent in the Yukon: Norms, Expectations, and the Role of Novel Governance Mechanisms." (Bradshaw, 2018)

Mitchell, Lillian "Governing Large Marine Protected Areas: Insights from the Remote Phoenix Islands Protected Area." (Gray, 2017)

Nakoochee, Roberta "Reconnection with Asi Kéyi: Healing Broken Connections' implications for ecological integrity in Canadian national parks." (Roth, 2018)

Zundel, Trudi "Climate-smart agriculture as a development buzzword: framework for flexible development, or greenwashing the status quo? Insights from Northern Ghana." (Fraser, 2017)

Masters (Science):

Benakoun, Laura "The Relationship Between Long-Term Foliar Decline Assessment and Annual Growth of Sugar Maple. in Ontario, Canada." (Gedalof, 2016)

Dalgarno, Sebastian "Predictive Modeling Of Black Oystercatcher (*Haemotopus Bachmani*) Breeding Pair Occurrence And Prey Abundance In Haida Gwaii, British Columbia." (Mersey, 2016)

- Gillam, William "Evaluating the Impacts of Agricultural Development on Landscape Scale Ecosystem Stability in a European Context." (Gedalof, 2017)
- Kwok, Eugenia "Perceptions of gender dynamics in small-scale fisheries and conservation areas: A Case Study in the Pursat Province of Tonle Sap Lake, Cambodia." (Fraser, 2017)
- Mallon, Christopher "Hydrologic-Economic Modeling of the Cost-Effectiveness and Targeting of Nutrient Management in the Gully Creek Watershed, Ontario." (Yang, 2017)
- Pomezanski, Dorian "Monitoring Small Animal Usage Patterns of Suburban Wildlife Tunnels: Behaviour, Design, and Recommendations." (Bennett, 2017)
- Tweedie, John "Evaluating Juvenile Salmonid Habitat Using a Spatially Explicit Bioenergetics Model." (Cockburn, 2018)
- Van Patter, Jesse "The Lasting Impacts of Large-Volume Runoff Events: Evaluating River Discharge and Suspended Sediment Transfer Patterns Following Hurricane Irene and Tropical Storm Lee, Schoharie Watershed, New York State, USA." (Cockburn, 2017)
- Ueckermann, Elené "Evaluating the Utility of Remotely Sensed Soil Moisture for the Characterization of Runoff Response over Canadian Watersheds." (Berg, 2017)
- White, Jenelle "Evaluating the Utility of Passive Microwave-Derived Soil Moisture Estimates for Forecasting Canola Yields across the Canadian Prairies." (Berg, 2018)
- Wrona, Elizabeth "Evaluation of Novel Remote Sensing Techniques for Soil Moisture Monitoring in the Western Canadian Arctic." (Berg, 2016)
- Zhou Huang, Claudia "Modeling the distribution of forest birds at risk in the Grand River watershed using a maximum entropy approach for conservation planning." (Mersey, 2017)

UNIVERSITY OF OTTAWA

PhDs:

- Chaput, Michelle "Environmental change and population history of North America from the Late Pleistocene to the Anthropocene." (Gajewski, 2018)
- Neil, Karen "Ecosystem responses to Holocene climate variability through the analysis of high-resolution lake sediment cores from southwestern QC, Canada." (Gajewski, 2018)
- Way, Robert "Field of modelling investigations of permafrost conditions in Labrador, northeast Canada" (Lewkowicz, 2017)

Masters (Arts):

- Beaulieu, Antoine "Farmer's Responses to Drivers of Forest Transitions: The Case of Mae Chaem District, Thailand." (Cao, 2017)
- Girard, Nicholas "Regional-scale food security governance in Inuit settlement areas: Opportunities and challenges in Northern Canada." (Wesche, 2017)
- Joyce, Jenna "Using a geospatial approach to evaluate the impact of shipping activity on marine mammals and fish in the Kitikmeot Region of Nunavut, Canada." (Dawson, 2018)
- Li, Gaoxiang "Spatial-Temporal Patterns of the Distribution of the Ethnic Minorities in China's Urbanization." (Cao, 2017)
- Pelletier, Raphael "La géographie scolaire Québécoise depuis la révolution tranquille: discipline, territoire et société dans les manuels." (Brousseau, 2018)

Masters (Science):

- Armstrong, Lindsay "Thaw slump activity via close-range 'Structure from Motion' in time-lapse using ground-based autonomous cameras." (Lacelle, 2017)
- Dalton, Abigail "Tracking Changes in Iceberg Production and Characteristics at the Termini of Queen Elizabeth Islands Glaciers." (Copland, 2017)
- Hodul, Matus "Photogrammetric Bathymetry for the Canadian Arctic." (Knudby, 2018)

- McCartin, Chantal "Multi-Scale climate Vulnerability in the Nova Scotian Region of Canada during the past century." (Brousseau, 2017)

UNIVERSITY OF TORONTO

PhDs:

- Biggar, Jeffrey "Between Public Goals and Private Projects: Negotiating Community Benefits for Density from Toronto's Urban Redevelopment" (Siemiatycki, 2017)
- Cervenak, Amy Martina "Placing the Festival: A Case Study of the Toronto International Film Festival". (Leslie, 2017)
- Danyluk, Martin Andrew "Conflict at the Crossroads: Making Global Supply Chains in the Age of Logistics" (Cowen, 2018)
- Kepkiewicz, Lauren "Unsettling Food Sovereignty in Canada: Settler Roles and Responsibilities, Tensions and (Im)possibilities" (Wakefield, 2018)
- Latulippe, Nicole "Belonging to Lake Nipissing: Knowledge, Governance, and Human-Fish Relations" (MacGregor, 2017)
- Lord, Elizabeth "Building an Ecological Civilization across Rural/Urban Divide and the Politics of Environmental Knowledge Production in Contemporary China" (Boland, 2018)
- Lu, Bing "Estimating Grassland Biophysical and Biochemical Properties Using Remote Sensing and Modelling" (He, 2017)
- Luo, Xiangzhong "Estimation of Global Land Surface Evapotranspiration with the Consideration of Vegetation Structural and Physiological Status from Remote Sensing" (Chen, 2018)
- Nugent, James Patrick "Resistance Along the Rails: Confronting Deindustrialization and Urban Renewal as a Neoliberal Socio-Ecology Fix through Social Movement Alliance-Forming in Toronto, Canada" (Prudham, 2018)
- Proctor, Cameron "Quantification of Belowground C Flow from Root Exudation of Peatland Sedges and Shrubs" (He, 2017)
- Soma, Tammara "Planning from 'Table to Dump': Analyzing the Practice of Household Food Consumption and Food Waste in Indonesia" (MacLaren, 2018)
- Walker, Samuel "Crisis-Opportunity, Liability-Asset: Governing Vacant Land Reuse in Cleveland, Ohio" (Wakefield, 2018)
- Wang, Rong "Improving the Estimation of Seasonal Leaf Area Index of Coniferous Forests for Better Carbon and Water Flux Estimation" (Chen, 2017)
- Wilczak, Jessica "Reconstructing Rural Chengdu: Urbanization as Development in the Post-Quake Context" (Boland, 2017)
- Xu, JieLan "Good Place to Age in Place: Exploring the Relationships between the Built Environment, Activity Participation and Healthy Aging" (Sorensen, Hess, 2018)
- Yang, Jian "Multi-source Remote Sensing Data for Automated Extraction of Fine-scale Attributes in a Northern Hardwood Forest" (He, Caspersen, 2017)
- Zheng, Ting "Retrieving Canopy-Level Light Use Efficiency (LUE) and Maximum Carboxylation Velocity (Vcmax) Using the Photochemical Reflectance Ratio" (Chen, 2017)
- Zwick, Austin "Resource Boom to Revitalization: The Local Economic Planning and Governance Implications of Fracking in Northern Appalachia" (Hackworth, 2018)

Masters (Arts):

- Braszak, Patrick "Social Movement Theory and Transboundary Conservation in Eastern North America: A Case Study of the Algonquin to Adirondacks Collaborative" (Olive, 2017)
- Chiu, Kwun Sau "Mobility in the City: Dalian's Streetcar System from 1890's to 1940's" (Han, 2017)
- Clement, Bronwyn "Geographies of Enforced Heteronormativity in Urban Public Parks: a Case Study of Project Marie" (Bunce, 2018)
- Conroy, Sarah "An NDN* in TRANS*ition: The Academic-ish Journal of a Trans/Non-Binary Non-Status Mixed-Nation Urban-Nish" (Cowen, 2017)

- Crompton, Amanda "Towards Inclusive Community Engagement: Engaging Marginalized Residents in the Urban Planning Process" (Wakefield, 2017)
- Gill, Jina "The Rouge Uncovered: Community Participation, Urban Agriculture and Power Dynamics in the Creation of Canada's first National Urban Park" (Wakefield, 2017)
- Grisdale, Sean Edward "'Disruption' or Displacement? Platform Capitalism, Short-Term Rentals and Urban Transformation in Toronto". (Sorensen, 2018)
- Hunter, Matthew "Achieving Collaborative Advantage in Innovative Public-Private Partnerships: A Case Analysis of the Red Door Family Shelter Project" (Siemiatycki, 2017)
- Jacobs, Rebecca "Understanding Neighbourhood Food Access: Practices and Perspectives of Residents of Scarborough Village, Toronto" (Kepe, 2017)
- Linton, Jillian Christina "Local Food Global People: Immigrant Counterstories in the Greater Toronto Area" (Wakefield, 2017)
- Lue, Adrian "Experiences of Community Gardening Participants in Different Garden Settings" (Conway, 2017)
- Mahmoud, Hamdi "From Smuggling to Social Reproduction: Migration and Livelihood Strategies of Young Somali Men in Toronto, Canada" (Buckley, 2018)
- Morgan, Andrew "The Everyday Evaluations of Public Participation by Urban Planners" (Klenk, 2017)
- Murie, Stacey "Expanding Food Justice: Gender, Race and Hunger in Toronto" (Wakefield, 2017)
- Vasilyeva, Yekaterina "A Geographic Investigation of a Critical Care Patient Transfer Network" (Widener, 2017)
- Wang, Zylar "Socialist Industrialization and Railway Sector Development in the Early PRC" (Boland, 2017)
- Wilson, Heather "Understandings of Liveability: An Exploration of University Student Perceptions of Neighbourhood Spaces" (Leydon, 2017)

Masters (Science):

- Aden, Ayana "The Impact of the Mount Polley Tailings Pond Failure on the Sedimentary Record of Quesnel Lake, British Columbia" (Desloges, 2018)
- Ariano, Sarah "Thesis An Investigation of Temperate Region Lake Ice in Central Ontario" (Brown, 2017)
- Clackett, Sydney "Long-Term Changes in Global and Local Atmospheric Mercury as Recorded in White Spruce Tree-Rings in Central Yukon Territory" (Porter, 2017)
- Cui, Siliang "Temporal and Spatial Variations of PM2.5, surface O3, and Smog in Ontario, Canada" (Liu, 2017)
- Dickinson, Adam Kabir "Intraspecific Trait Variation in Cacao Agroecosystems: Influence of Local Conditions and Cultivars, and the Role in Local Knowledge Systems" (Isaac, 2017)
- Khan, Talha "Vulnerability of Common Urban Forest Species to Projected Climate Change: A Case Study of Mississauga, Ontario" (Conway, 2017)
- Ng, Kevin "Mercury Methylation in Riparian Areas Across Minnesota" (Mitchell, 2017)
- Wang, Shihao "A Quantitative Study of Ozone Deposition Velocity over a Mixed Temperate-Boreal Forest" (Liu, 2017)
- Yip, Vivian "Species Diversity and Preferred Attributes of Trees: A Case Study of the Private Urban Forest in the Greater Toronto Area" (Conway, 2018)

UNIVERSITY OF WATERLOO

PhDs:

- Andrachuk, Mark "Exploring Pathways for Social-ecological Transformation in the Cau Hai Lagoon, Vietnam" (Armitage, 2018)
- Atim, George "What the mind does not know, the eyes do not see": understanding the emerging health risk of food allergy in Ghana" (Elliott, 2018)

- May, Bradley "We need very fluid leadership - people who can share power": Climate change adaptation leadership lessons from the Atlantic Region of Canada" (Armitage, 2018)
- Pirasteh, Saeid "Environmental controls on carbon sequestration in a saline, boreal, peat-forming wetland in the Athabasca Oil Sands Region" (Li, 2018)
- Shannon, Meghan "A Critical Realist Approach to Evolutionary Path Dependence: The Role of Counterurbanite Entrepreneurs in Tourism Regions of Rural Newfoundland" (Mitchell, 2018)
- Silver, Amber "Public Attention to Environmental Hazards" (Andrey, 2018)
- Thackeray, Chad "Using a hierarchy of climate models to investigate snow processes influencing surface albedo" (Fletcher, 2017)
- Volik, Olena "Environmental controls on carbon sequestration in a saline, boreal, peat-forming wetland in the Athabasca Oil Sands Region" (Petrone, 2018)

Masters (Arts):

- Chang, Sha "Small Towns in Transitions, an Exploratory Study in Collingwood, Ontario" (Nepal, 2018)
- Pocock, Julie Ann "Public Bathrooms: Gendered Landscapes" (Decker, 2017)
- Weber, Melissa "Climate-induced environmental change and the future of tourism at the Athabasca Glacier in Jasper National Park" (Scott, 2017)

Masters (Science):

- Branton, Collin "A Methodology to Quantify the Topographic Characteristics of Wetland Landscapes" (Robinson, 2018)
- Chen, Hongjing "Wet Snow Mapping in Southern Ontario with Sentinel-1A Observations" (Kelly, 2018)
- Cober, James "Impacts of freeze-thaw processes on phosphorus release from a variety of cover crop species in a temperate climate" (Macrae, 2018)
- Engering, Alexandra "Carbon gas exchange, primary production and litter decomposition of a restored fen on a former oil well-pad" (Strack, 2018)
- Irvine, Cameron "Effects of Land Use and Hydrophysical Drivers on Temporal and Spatial Variability of Phosphorus and Nitrate Export in an Agricultural Subwatershed in Southern Ontario, Canada" (Macrae, 2018)
- Irvine, Sarah "Dissolved organic carbon production and transport in a constructed watershed in the Athabasca Oil Sands Region, Alberta" (Price, 2018)
- Jiang, Han "Semi-automated Generation of Road Transition Lines Using Mobile Laser Scanning Data" (Li, 2018)
- Li, Sabrina "Facilitators and barriers to safe water and adequate sanitation: A spatio-temporal investigation of the association between socioeconomic factors and shigellosis incidence" (Elliott, 2018)
- Ma, Lingfei "Generation of Horizontally Curved Driving Lines for Autonomous Vehicles Using Mobile Laser Scanning Data" (Li, 2017)
- McCormick, Carolyn "Geographies of Fear: University students' spatial responses towards the threat of victimization in Kitchener-Waterloo, Ontario" (Johnson, 2018)
- Metcalfe, Gregory "An Investigation of the Relationship between Crime and Reported Incidents and the Built and Natural Environment in the Region of Waterloo, Ontario" (Tan, 2017)
- Pan, Feng "RADARSAT-2 Polarimetric Radar Imaging for Lake Ice Mapping" (Duguay, 2018)
- Smith, Alexander "An evaluation of high-resolution land cover and land use classification accuracy by thematic, spatial, and algorithm parameters" (Robinson, 2018)
- Touchette, Sabrina "Influence of graminoid species identity on carbon exchange in a restored peatland in central Alberta, Canada" (Strack, 2018)
- Wang, Junqian "Towards Automated Lake Ice Classification using Dual Polarization RADARSAT SAR Imagery" (Duguay, 2018)

- Zhao, He “3D Road Maps for Autonomous Vehicles Using High-Density Point Clouds” (Li, 2017)
- Zhao, Yue “Evaluation of safety effects of roundabouts in the Region of Waterloo: inclement weather and conversion” (Andrey, Deadman, 2017)

Masters (Environmental Studies):

- Cui, Zixian “Spatial and Temporal Distribution of Polycyclic Aromatic Hydrocarbons (PAHs) in Henan Province, China” (Stone, 2017)
- Li, Xinxin “Constraining Uncertain Aerosol and Atmospheric parameters in CAM4 Based on Emulated Data” (Fletcher, 2017)
- Nieboer, Steven “Comparing ducted and mini-split air-source heat pumps to natural gas, propane, and fuel oil heating systems in a simulated Ontario residential home” (Parker, 2018)
- Rutledge, Alexandra “Climate change adaptation in Metro Vancouver: examining the role of managed retreat” (Doberstein, Mortsch, 2018)

WATERLOO-LAURIER GRADUATE PROGRAM IN GEOGRAPHY

PhDs:

- Adekola, Sherifat “From Brain Drain to Brain Train – A Transnational Case Analysis of Nigerian Migrant Health Care Workers” (Walton-Roberts, 2017)
- Andrachuk, Mark “Exploring Pathways for Social-ecological Transformation in the Cau Hai Lagoon, Vietnam” (Armitage, 2018)
- Atiim, George “What the mind does not know, the eyes do not see”: understanding the emerging health risk of food allergy in Ghana” (Elliott, 2018)
- Connon, Ryan “Permafrost thaw induced changes to runoff generation and hydrologic connectivity in low-relief, discontinuous permafrost terrains” (Quinton, 2017)
- May, Bradley “We need very fluid leadership - people who can share power”: Climate change adaptation leadership lessons from the Atlantic Region of Canada” (Armitage, 2018)
- Pirasteh, Saeid “Environmental controls on carbon sequestration in a saline, boreal, peat-forming wetland in the Athabasca Oil Sands Region” (Li, 2018)
- Ramirez, Luisa “Marine Protected Areas in Colombia: Re-Connecting Social, Ecological, and Policy Aspects Through a Governance Perspective” (Slocombe, 2017)
- Shannon, Meghan “A Critical Realist Approach to Evolutionary Path Dependence: The Role of Counterurbanite Entrepreneurs in Tourism Regions of Rural Newfoundland” (Mitchell, 2018)
- Silver, Amber “Public Attention to Environmental Hazards” (Andrey, 2018)
- Sniderhan, Anastasia “Growth dynamics of black spruce (*Picea Mariana*) across northwestern North America” (Baltzer, 2018)
- Spring, Andrew “Capitals, climate change and food security: Building sustainable food systems in northern Canadian Indigenous communities” (Blay-Palmer, 2018)
- Tammar, Abdurazag “Assessing Resilient Post-Disaster Recovery of A Flash-Flood-Prone Area: A Study of the City of Jeddah, Kingdom of Saudi Arabia” (Murphy, 2017)
- Thackeray, Chad “Using a hierarchy of climate models to investigate snow processes influencing surface albedo” (Fletcher, 2017)
- Volik, Olena “Environmental controls on carbon sequestration in a saline, boreal, peat-forming wetland in the Athabasca Oil Sands Region” (Petroni, 2018)

Masters (Arts):

- Chang, Sha “Small Towns in Transitions, an Exploratory Study in Collingwood, Ontario” (Nepal, 2018)

- Goldar Perrote, Hector “Newcomers, Welcome? Exploring the Connection Between Demographic Change, Immigration Legislation Design and Policy Mobilities in Ageing Japan” (Walton-Roberts, 2017)
- Pocock, Julie Ann “Public Bathrooms: Gendered Landscapes” (Decker, 2017)
- Weber, Melissa “Climate-induced environmental change and the future of tourism at the Athabasca Glacier in Jasper National Park” (Scott, 2017)

Masters (Science):

- Branton, Collin “A Methodology to Quantify the Topographic Characteristics of Wetland Landscapes” (Robinson, 2018)
- Chen, Hongjing “Wet Snow Mapping in Southern Ontario with Sentinel-1A Observations” (Kelly, 2018)
- Cober, James “Impacts of freeze-thaw processes on phosphorus release from a variety of cover crop species in a temperate climate” (Macrae, 2018)
- Engering, Alexandra “Carbon gas exchange, primary production and litter decomposition of a restored fen on a former oil well-pad” (Strack, 2018)
- Greig, Clara “Landscape scale spectral-temporal modelling of bamboo-dominated forest succession within the Atlantic forest of Southern Brazil” (Robertson, 2018)
- Irvine, Cameron “Effects of Land Use and Hydrophysical Drivers on Temporal and Spatial Variability of Phosphorus and Nitrate Export in an Agricultural Subwatershed in Southern Ontario, Canada” (Macrae, 2018)
- Irvine, Sarah “Dissolved organic carbon production and transport in a constructed watershed in the Athabasca Oil Sands Region, Alberta” (Price, 2018)
- Jiang, Han “Semi-automated Generation of Road Transition Lines Using Mobile Laser Scanning Data” (Li, 2018)
- Li, Sabrina “Facilitators and barriers to safe water and adequate sanitation: A spatio-temporal investigation of the association between socioeconomic factors and shigellosis incidence” (Elliott, 2018)
- Ma, Lingfei “Generation of Horizontally Curved Driving Lines for Autonomous Vehicles Using Mobile Laser Scanning Data” (Li, 2017)
- Mann, Philip “Spatial and temporal variability of the snow environment in the Western Canadian Arctic” (Marsh, 2018)
- McCormick, Carolyn “Geographies of Fear: University students’ spatial responses towards the threat of victimization in Kitchener-Waterloo, Ontario” (Johnson, 2018)
- Metcalfe, Gregory “An Investigation of the Relationship between Crime and Reported Incidents and the Built and Natural Environment in the Region of Waterloo, Ontario” (Tan, 2017)
- Nayak, Pritichhanda “Factors limiting sand dune restoration in Northwest Beach, Point Pelee National Park, Canada” (Byrne, 2018)
- Pan, Feng “RADARSAT-2 Polarimetric Radar Imaging for Lake Ice Mapping” (Duguay, 2018)
- Roy, Stephanie “Developing a hydrological monitoring program for ponds in Wapusk National Park, Manitoba, using water isotope tracers” (Wolfe, 2017)
- Said, Rafik “Capturing in-situ Feelings and Experiences of Public Transit Riders Using Smartphones” (Doherty, 2017)
- Smith, Alexander “An evaluation of high-resolution land cover and land use classification accuracy by thematic, spatial, and algorithm parameters” (Robinson, 2018)
- Stone, Lindsay “The role of channel fens in permafrost degradation induced changes in peatland discharge at Scotty Creek, NT” (Quinton, 2018)
- Touchette, Sabrina “Influence of graminoid species identity on carbon exchange in a restored peatland in central Alberta, Canada” (Strack, 2018)
- Wang, Junqian “Towards Automated Lake Ice Classification using Dual Polarization RADARSAT SAR Imagery” (Duguay, 2018)

Yee, Lauren “Spatial Modelling and Wildlife Health Surveillance: A case study of White Nose Syndrome in Ontario” (Robertson, 2018)

Zhao, He “3D Road Maps for Autonomous Vehicles Using High-Density Point Clouds” (Li, 2017)

Zhao, Yue “Evaluation of safety effects of roundabouts in the Region of Waterloo: inclement weather and conversion” (Andrey, Deadman, 2017)

Masters (Environmental Studies):

Cui, Zixian “Spatial and Temporal Distribution of Polycyclic Aromatic Hydrocarbons (PAHs) in Henan Province, China” (Stone, 2017)

Ercolani, Julia “Situating Community Resilience within the Political Landscape: An Investigation of Rural Livelihoods and Agency in Chile’s Biobío and Araucanía Regions” (Latta, 2018)

Li, Xinxin “Constraining Uncertain Aerosol and Atmospheric parameters in CAM4 Based on Emulated Data” (Fletcher, 2017)

Nieboer, Steven “Comparing ducted and mini-split air-source heat pumps to natural gas, propane, and fuel oil heating systems in a simulated Ontario residential home” (Parker, 2018)

Rutledge, Alexandra “Climate change adaptation in Metro Vancouver: examining the role of managed retreat” (Doberstein, Mortsch, 2018)

Sidaoui, Fatima “The Political Ecology of Water Justice: A Case Study of Tripoli, Lebanon” (Latta, 2017)

YORK UNIVERSITY

PhDs:

Bocking, Paul “Understanding the Neoliberalization of Education through Spaces of Labour Autonomy.”

Massé, Francis “Securing Conservation: The Politics of Anti-Poaching and Conservation Law Enforcement in Mozambique”

Schoenberger, Laura “Ruptures in living in and knowing land grab in Cambodia”

Youdelis, Megan “The Post-Politicization of Participation in Neoliberal Conservation: Cases from Canada and Thailand”

Masters (Arts):

Chanco, Christopher John “Diaspora solidarities: Refugees, Human Rights, and the Jewish labour Committee of Canada, 1936-1967”

McWhirter, Renee “Conservation, Consumption, and Livelihoods: Contradictions in conservation projects and audiences in Vietnam”

Merhar, Amelia “Moving Home: The Art and Embodiment of Transience among Youth Emerging from Canada’s Child Welfare System.”

Watson, Victoria “Perceptions of Water among the Inuit Community in Iqaluit, Nunavut: An Anti-Colonialist, Feminist Political Ecology”

Masters (Science):

Milan, Alison “Land cover and river systems: Impacts of suburban residential development on channel stability and water supply, Oak Ridges Moraine, Southern Ontario”

Moghaddam, Hamidreza “Spatial and temporal morphological change in Canadian boreal forests”

Scheffell, Harold “The Hydrology of a Sandur-Wetland in a Volcanic Environment, Southeast Iceland”

QUEBEC

CONCORDIA UNIVERSITY

Masters (Science):

Alt, Nil “Discourses and Practices of Campus Food Sustainability at Concordia University.” (Matthews, Rantisi, 2017)

Donald, Lorraine “Temporary workers in Montréal’s warehousing sector.” (Rantisi, 2017)

Goyette, Kiley “Urban governance after urban renewal: The legacies of renewal and the logics of neighbourhood action in post-renewal Little Burgundy” (1979 – 1995). (Rutland, 2017)

Graham, Tanya L. “A Global-Scale Evaluation of Mammalian Exposure and Vulnerability to Anthropogenic Climate Change.” (Matthews, 2018)

Guertin, Etienne “Modelling wildfire in an intermediate complexity earth system climate model - exploring the importance of timestep and weather variability.” (Matthews, 2018)

Hadziosmanovic, Maida “Business accountability for climate change: carbon emissions contributions and future sectoral pathways for global carbon budgets.” (Matthews, 2017)

Maharaj, Tarrandath “Continuing Conversations On The Socio-Pedagogical Role of Food Literacy & Food Kinship: An On-Going Project.” (Nash, 2017)

Massey, William “Assessing the impact of riprap bank stabilization on fish habitat: A study of Lowland and Appalachian streams in Southern Québec.” (Biron, 2017)

McGurk, Thomas “Indigenous online Mapping in Canada - Decolonizing or recolonizing forms of spatial expressions?” (Caquard, 2018)

Nettling, Pierson Christopher “It Took a Tenants’ Movement: Tenants and the Making of Habitations Jeanne-Mance (1959-1994).” (Rutland, 2017)

Rezaie, Mohsen “Knowledge inference from smartphone GPS data.” (Patterson, 2018)

Shaw, Emory “Parsing Perceptions of Place: Locative and Textual Representations of Place Emilie-Gamelin on Twitter.” (Caquard, 2018)

Sugen, Sujitha “The radicals are coming! On the institutionalization, tensions, and racialization of anti-radicalization practices in Montreal and Quebec.” (Rutland, 2018)

Wang, Mo “Following the Spread of Zika with Social Media: The Potential of Using Twitter to Track Epidemic Disease.” (Caquard, 2017)

Masters (Environmental Studies):

Bell, Trevor
Bertrancerino, Cindy
Casasanta-Mostaco, Felipe
Crosilla, Dillon
Duchesne, Roxann
Hamzeh, Reem
Hetmanchuk, Katja
Kalindjian, Taline
Karaskova, Pavla
Kaur, Gurpreet
Lachance, Marie Joelle
Makiyama, Yuka
Nader, Nour
Neumark-Gaudet, Lea
Patel, Kajal
Pinchefsky, Ada,
Vitulano, Sarah
Zarins, Timothy-Paul

Graduate Diploma (Environmental Assessment):

Bonhomme-Rollinson, Ashley
Gwynne-Davies, Derek

Roux-Couturier, Alice
Shams, Raniya

MCGILL UNIVERSITY

PhDs:

- Battista, Geoffrey "Incorporating social space into pedestrian planning" (Manauha, 2018)
Harris, Lorna "The structure and function of peatlands in the Hudson Bay Lowland - response to environmental change" (Moore/Roulet, 2018)
Ouellet Dallaire, Camille "River system classifications and cumulative watershed perspectives to inform sustainable river basin management at global and regional scales" (Lehner, 2018)
Sarkar, Dipto "Spatial social networks: exploring theoretical and methodological challenges" (Sengupta/Chapman, 2018)
Zavaleta Cortijo, Claudia "Food insecurity and climate change adaptation among Peruvian Indigenous Shawi" (Berrang Ford/Ross, 2018)

Masters (Arts):

- Adenwala, Ammar "Alternative realities: negotiating urban space production in the small town of Cao Bang City, upland northern Vietnam" (Turner, 2018)
Anand, Mira "The future of flood-prone areas in Africa and Europe: predicting changing inundation patterns under climate change" (Lehner, 2018)
Beames, Penny "Quantifying agreement and gaps between regional and global barrier datasets to better understand uncertainties introduced into large-scale river studies" (Lehner, 2018)
Boudet, Fanny "Exploring rural-urban connectivity: is there a relationship between urbanization and agricultural land management in the Global South?" (MacDonald, 2018)
Marchand, Yannick "A study of the causes and consequences of regional income inequality in Canada: A spatial panel data approach" (Breau, 2018)
Solberg, Charles "Exploring livelihood change in a rural upland Hmong village in Yunnan, China" (Turner, 2018)
Wunstenberg, Lauren "Dynamic adaptation of peasant livelihoods to river capture in the Peruvian Amazon" (Coomes, 2018)

Masters (Science):

- Anderson, Darya "The impacts of permafrost thaw and social changes on blueberry picking" (Ford/Roulet, 2018)
Roy, Cameron "The origin of massive ground ice in raised marine sediments along the Eureka Sound Lowlands, Nunavut, Canada" (Pollard, 2018)

UNIVERSITÉ DE MONTRÉAL

PhDs:

- Custodio, Tiana Mara "Facteurs environnementaux favorisant l'établissement et la reproduction du nerprun bourdaine (Rhamnus frangula) dans le sud-est du Canada" (Girard, 2017)
Hennebelle, Andy "Calibration et projections de la réponse des forêts boréales aux changements climatiques : approche paléoécologique des états de référence dans la pessière à mousses de l'Ouest du Québec" (Blarquez, 2017)
Lamalice, Annie "Soutenir la sécurité et la souveraineté alimentaire dans le Grand Nord : Projets communautaires de jardinage au Nunavik" (Herrmann, 2017)
Perrault-Hébert, Maude "Dynamique des perturbations naturel et leur impact sur la résilience de peuplement d'épinette noire dans la zone de la forêt boréale fermée" (Girard, Fournier, 2017)
Sadki, Aba "Le tourisme résidentiel dans les villes du patrimoine mondial au Maroc : Conflits patrimoniaux et enjeux d'appropriation" (Jolivet, 2017)

Masters (Science):

- Beaulieu, Mario "Application des réseaux neuronaux à convolution à l'analyse des images radar polarimétriques en milieu urbain" (Cavayas, Foucher, 2017)
Bélisle, Kelly "Contrôle de la mobilité des travailleuses du sexe par les instances gouvernementales." (Martin, 2017)
Charbonneau, Simon "Répartition et relations spatiales des mares et lacs d'une basse terre de l'île Bylot : analyse spatio-temporelle à l'échelle fine sur une période de 44 ans (1972-2016)" (Fortier, Girard, 2017)
Chiasson-Poirier, Gabriel "Hydrogeomorphic factors controlling the routing of surface and shallow groundwater flows in permafrost regions" (Franssen, 2018)
Deschamps Band, Mariève "Cuba, d'une médecine internationale au tourisme médical : la fragmentation spatiale induite par les nouvelles mobilités en santé" (Jolivet, 2017)
Levasseur, Nicholas "Portrait de l'environnement alimentaire de l'arrondissement Montréal-Nord dans un contexte de défavorisation et d'inégalités d'accès à une alimentation saine et de qualité" (Rioux, 2017)
Mejri, Karim "Monitoring de l'environnement atmosphérique en milieu urbain intégrant des images de télédétection : le cas des particules fines (PM 2.5)" (Cavayas, 2017)
Méthot, Kim "L'institutionnalisation du leadership Inuit en contexte colonial au Nunavik" (Herrmann, 2017)
Monfette, Mathieu "L'intégration des savoirs autochtones et scientifiques pour la surveillance communautaire hydrologique de la rivière George, Nunavik, Québec" (Herrmann, 2017)
Paranjape, Meghana "Identifying urban surface materials with high resolution hyperspectral, and multispectral aerial images to aid in urban management" (Cavayas, 2018)
Prince, Antoine "Modélisation de la variabilité spatiale de la connectivité hydrologique entre l'eau souterraine et l'eau de surface sur le Bouclier Canadien, Québec méridional" (Franssen, 2017)
Rodriguez, Elizabeth Neisa "Formes contemporaines d'accaparement des terres dans la région orientale de la Colombie" (Rioux, 2017)

LATIN AMERICA

ARGENTINA

UNIVERSIDAD DE BUENOS AIRES

Doctorados:

- Busch, Silvia Inés "Modernización en el circuito productivo de alimentos y aceleración contemporánea en la región metropolitana de Buenos Aires" (Facultad de Filosofía y Letras, 2018)
Larsimont, Robin "Modelo de agronegocio, agua y ruralidad en los oasis de Mendoza, 1990-2017: Hacia una ecología política territorial" (Facultad de Filosofía y Letras, 2018)
Mazzitelli Masticchio, Malena "Paisajes montados: El uso de vistas, bosquejos, notas, fotografías y otros insumos visuales para la traducción de información topografías en la cartografía topográfica de la Dirección Nacional de Minas, Geología e Hidrología" (Facultad de Filosofía y Letras, 2017)

Maestrías:

- Bonilla Araya, Cristina "El Proceso de Urbanización y los Circuitos de la Economía Urbana: La Actividad Pesquera en la Ciudad de Valparaíso, Chile" (María Laura Silveira, 2017)

- Lasso Ruales, Andrés “La otra cara de la moneda. La mirada de los argentinos sobre los uruguayos que residen en Gualeguaychú, durante y después del conflicto por la instalación de la planta celulosa UPM (2006-2014)” (Alejandro Benedetti, 2017)
- Martínez Pulido, Viviana “La diversificación energética en Colombia desde las políticas públicas” (Pablo Ciccolella, 2017)
- Testa, Joaquín “Políticas turísticas, escalas y lugar en el municipio de Necochea, Buenos Aires, Argentina desde 2005 hasta la actualidad” (Rodolfo Bertoncello, 2017)

UNIVERSIDAD NACIONAL DEL SUR

Doctorados:

- Aliaga, Vanina Solange “Lagunas de la región pampeana: consecuencias de la variabilidad climática” (Piccolo, Cintia María y Perillo, Gerardo, 2018)
- Cabanilla Vásconez, Enrique Armando “Configuración socio-espacial del turismo comunitario. Estudio de caso: República de Ecuador” (Ercolani, Patricia y Seguí Llinás, Miguel, 2017)
- Clementi, Luciana Vanesa “Energías y territorios en Argentina. Proyectos en el Sur de la Provincia de Buenos Aires” (Carrizo, Silvina y Bustos Cara, Roberto Nicolás, 2018)
- Duval, Valeria Soledad. “Estudio integral de áreas protegidas: reserva provincial Parque Luro y Parque Nacional Lihué Calel, provincia de La Pampa” (Campo, Alicia María, 2017)
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Geography Degrees Conferred in the United States 1947-1948 to 2016-2017

	BA/BS			MA/MS			PhD		
	M	F	Total	M	F	Total	M	F	Total
1947-1948	223	134	357	113	44	157	15	2	17
1948-1949	361	150	511	108	30	138	23	5	28
1949-1950	611	146	757	150	53	203	36	4	40
1950-1951	583	121	704	194	32	226	46	2	48
1951-1952	552	117	669	159	35	194	36	1	37
1952-1953	533	114	647	158	27	185	36	3	39
1953-1954	589	119	708	155	25	141	49	2	51
1954-1955	496	130	626	116	25	141	44	4	48
1955-1956	534	117	651	129	32	161	43	3	46
1956-1957	574	125	699	156	26	182	45	2	47
1957-1958	730	119	849	156	28	184	47	9	56
1958-1959	775	128	903	152	29	181	43	8	51
1959-1960	858	115	972	177	29	206	64	4	68
1960-1961	789	150	939	165	28	193	47	3	50
1961-1962	910	157	1,067	212	30	242	54	4	58
1962-1963	958	164	1,122	234	40	274	57	4	61
1963-1964	1,061	235	1,296	246	60	306	62	5	67
1964-1965	1,306	291	1,597	307	48	355	65	5	70
1965-1966	1,529	405	1,934	309	61	370	52	6	58
1966-1967	1,726	437	2,163	396	67	463	75	4	79
1967-1968	2,051	573	2,624	461	88	549	94	2	96
1968-1969	2,616	722	3,338	468	95	563	120	4	124
1969-1970	2,945	802	3,747	524	113	637	140	5	145
1970-1971	3,298	869	4,167	528	121	649	147	17	164
1971-1972	3,416	910	4,326	672	114	786	191	12	203
1972-1973	3,280	928	4,208	667	142	809	211	16	227
1973-1974	3,285	946	4,231	618	145	763	199	18	217
1974-1975	3,051	899	3,950	589	132	721	199	13	212
1975-1976	2,780	953	3,733	489	176	665	147	21	168
1976-1977	2,600	994	3,594	502	188	690	136	25	161
1977-1978	2,683	1,036	3,719	492	156	648	128	30	158
1978-1979	2,516	1,061	3,577	444	177	621	114	22	136
1979-1980	2,344	1,099	3,443	422	157	579	119	19	138
1980-1981	2,184	1,089	3,273	410	152	562	95	24	119
1981-1982	2,366	1,079	3,445	393	160	553	101	22	123
1982-1983	2,234	1,107	3,341	383	190	573	88	36	124
1983-1984	2,175	1,020	3,195	406	177	583	95	25	120
1984-1985	2,100	1,000	3,100	380	182	562	103	31	134
1985-1986	2,129	927	3,056	352	212	564	90	41	131
1986-1987	2,124	931	3,055	360	194	554	100	31	131
1987-1988	2,048	900	2,948	362	210	572	99	36	135
1988-1989	2,116	897	3,013	369	179	548	94	27	121
1989-1990	2,229	981	3,210	350	205	555	109	37	146
1990-1991	2,282	1,115	3,397	413	209	622	82	37	119
1991-1992	2,627	1,224	3,851	419	223	642	90	32	122
1992-1993	2,752	1,399	4,151	423	223	646	105	45	150
1993-1994	3,011	1,438	4,449	481	242	723	105	36	141

	BA/BS		Total	MA/MS		Total	PhD		Total
	M	F		M	F		M	F	
1994-1995	2,930	1,365	4,295	524	283	807	109	43	152
1995-1996	2,746	1,399	4,145	473	283	756	129	44	173
1996-1997	2,759	1,399	4,128	461	296	757	103	51	154
1997-1998	2,721	1,414	4,135	479	277	756	116	56	172
1998-1999	2,665	1,416	4,081	490	270	760	105	54	159
1999-2000	2,518	1,433	3,951	456	301	757	134	66	200
2000-2001	2,525	1,456	3,981	439	287	726	130	71	201
2001-2002	2,472	1,453	3,925	447	296	743	138	67	205
2002-2003	2,490	1,490	3,980	453	331	784	114	62	176
2003-2004	2,858	1,706	4,564	468	314	782	115	91	206
2004-2005	2,882	1,673	4,555	550	394	944	137	74	211
2005-2006	2,813	1,471	4,284	534	372	906	135	87	222
2006-2007	2,972	1,580	4,552	520	373	893	121	90	211
2007-2008	2,798	1,522	4,320	499	383	882	153	104	257
2008-2009	2,951	1,526	4,477	528	364	892	139	80	219
2009-2010	2,928	1,583	4,511	534	368	902	141	98	239
2010-2011	3,010	1,587	4,597	482	360	842	133	105	238
2011-2012	3,136	1,671	4,807	538	391	929	168	107	275
2012-2013	3,072	1,658	4,730	485	366	851	140	120	260
2013-2014	2,855	1,621	4,476	476	316	792	180	136	316
2014-2015	2,690	1,513	4,203	410	367	777	160	134	294
2015-2016	2,486	1,517	4,003	424	316	740	147	106	253
2016-2017	2,327	1,483	3,810	335	277	612	150	113	263

Source: The Integrated Postsecondary Education Data System of the National Center for Education Statistics.

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