



Guide to Geography Programs in the Americas

2016-2017

AAG



Guide to Geography Programs in the Americas 2016-2017

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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 11,829 at the end of 2016. 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 9,000 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 New Orleans (2018), Washington, DC (2019) and Denver (2020).

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 2016-2017 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 2016-2017 *Guide* lists a total of 282 academic institutions in the United States, Canada and Latin America. The volume contains information on 260 programs that offer bachelor's degrees in geography, 104 programs that offer master's degrees and 105 programs known to offer doctorates in geography.

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 304. 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: B.A. in Geography; B.S. in Geography; M.S. in Geography; M.S. in Geology; Accelerated BA/MS in Geography

GRANTED 9/1/15-8/15/16: 9 BA Geography; 8 BS Geology; 5 MS Geography; 6 MS Geology

MAJORS: 40 Undergrad Geography; 95 Undergrad Geology; 7 Graduate Geography; 21 Graduate Geology

CHAIR: Mark Steltenpohl

PROGRAM ADMINISTRATIVE ASST: Audrey Hollis

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geosciences, 210 Petrie Hall, Auburn University, Auburn, Alabama 36849. Telephone (334) 844-4074. Fax (334) 844-3409. E-mail: steltmg@auburn.edu.

Internet:

<http://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 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 6/1/16-5/31/17: 51 Bachelors, 11 Masters

STUDENTS IN RESIDENCE: 172 Majors, 31 Masters

NOT IN RESIDENCE: 2 Masters

CHAIR: Douglas Sherman

DEPARTMENT ADMINISTRATIVE ASSISTANT: Leigh Ann Franklin

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@bama.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 Department is located in a 30,000 square foot facility near the center of campus. The Department operates 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 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 and 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. 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.

FULL-TIME 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
M. A. Lisa Davis, Ph.D., Tennessee, 2005 Associate Professor — geomorphology, fluvial
Steven P. Ericson, Ph.D., Oklahoma State, 2014, Instructor — cultural, GIS, sports, urban
Luoheng Han, Ph.D., Nebraska, 1994, Professor and Associate Dean — remote sensing, GIS, water quality
Justin L. Hart, Ph.D., Tennessee, 2007, Associate 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, agro-ecology, conservation, Latin America, GIS
Nicholas Magliocca, Ph.D., Maryland, 2012, Assistant Professor — human-environment interactions, agent-based modeling, land use change
Mary W. Pitts, M.S., London, 1989, Instructor and Director of Undergraduate Studies — natural hazards, environmental site assessment, and water resources
Sarah Praskievicz, Ph.D., Oregon, 2014, Assistant Professor — water resources, climate change, hydrology
Jeffrey P. Richetto, Ph.D., Ohio State, 1977, Associate Professor — urban and regional planning, economic, and industrial/retail site analysis
Jason C. Senkbeil, Ph.D., Kent State, 2007, Associate Professor — severe weather hazards, climatology
Douglas J. Sherman, Ph.D., Toronto, 1983, Professor and Chair — geomorphology, coastal, aeolian
Michael K. Steinberg, Ph.D., Louisiana State, 1999, Associate 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

ADJUNCT FACULTY:

Craig Remington, M.S., Florida State, 1981, Cartographic Lab Supervisor — traditional and computer cartography, world regional
Angelica Almeyda Zambrano, Ph.D., Stanford, 2012 — political ecology, conservation and development

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; and M.S. in Geospatial Science

GRANTED 9/1/16-7/31/17: 16 Bachelors, 3 Masters

MAJORS: 120

CHAIR: Francis T. Koti

DEPARTMENT ADMNISTRATIVE ASST: Pam Bishop

GRADUATE PROGRAM COORDINATOR: David Brommer (256) 765-6307

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Francis T. Koti, Department of Geography, University of North Alabama, Florence, AL 35632-0001. Telephone (256) 765-4219, Fax (256) 765-4141, E-mail: ftkoti@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 is directed towards careers in applied geography and requires advanced courses in remote sensing and Geographic Information Systems, as well as in statistics, computer science, and computer information systems. The Geography major is for students interested in careers in government, business and industry, and geographic education. The department supports internships and co-op experience in urban and regional planning, GIS, public utilities, and environmental management. The department also offers an M.S. in Geospatial Science. The department houses the Freddie Wood Geographic Research Center, which has 36 computers dedicated to undergraduate GIS, remote sensing, and GPS applications, as well as a separate computer lab for graduate students. Software includes ERDAS Imagine, ArcGIS, and a variety of 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.

FACULTY:

David M. Brommer, Ph.D., Arizona State University, 2006, Associate Professor — physical geography, climatology, meteorology, environmental hazards
Jonathan P. Fleming, Ph.D., Mississippi State University, 2012, Assistant Professor — biogeography, physical geography, cartography, GIS, applied geospatial analysis, South
Gregory G. Gaston, Ph.D., Oregon State University, 1993, Professor — geomorphology, physical geography, remote sensing, climatology, GIS
Francis T. Koti, Ph.D., West Virginia University, 2004, Professor — urban geography, urban and regional planning, GIS, Africa
Lisa Keys-Mathews, Ph.D., University of Memphis, 2007, Professor — environmental hazards, GIS, remote sensing, cartography
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, public lands, tourism, Australia, Pacific, Arctic, western North America
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

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: B.A., B.S., B.S.P., M.A., M.A.S., M.U.E.P., M.U.E.P. 4+1, Ph.D. in Geography and Ph.D. in Planning

GRANTED 9/1/2015-8/31/2016: 173 Bachelors, 56 Masters, 7 Ph.D.s

STUDENTS IN RESIDENCE (Spring 2017): 758

Undergraduate (with 439 online), 76 Masters, 46 Ph.D.

DIRECTOR: Trisalyn Nelson

FURTHER INFORMATION WRITE TO: Graduate Program Coordinator, 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: geoplan@asu.edu Internet: geoplan.asu.edu

PROGRAMS AND RESEARCH FACILITIES: The School of Geographical Sciences and Urban Planning at ASU offers five graduate degree programs: traditional Master of Arts and Ph.D. degrees in Geography (with an option for a Masters in Planning), one professional Master's degree in Urban Planning (M.U.E.P.), a professional Master of Advanced Study (MAS) degrees in Geographic Information Systems (MAS/GIS) and Ph.D. in Planning.

The M.A. degree requires 30 semester hours beyond the bachelor's degree and a thesis. The M.U.E.P. degree requires 47 credit hours and

has three different options for completion: thesis, professional project or capstone studio. The PhD degree program through the Masters in Passing (M.I.P) requires 30 semester hours of graduate credit beyond the bachelor's degree and 54 semester credits after passing the research and field examination, which constitutes advancement into the Ph.D. program. No master's thesis is required. The traditional (post master's) Ph.D. degree requires 84 semester credits of which 30 can be used from a master's degree.

The M.A. and Ph.D. degrees in Geography are focused on four broad interdisciplinary areas of inquiry: Computational Spatial Science, Cultural Geographies – Place, Culture, Identity, Earth Systems and Climate Science, and Sustainability Science and Studies.

The Master of Advanced Study degree in Geographic Information Systems (M.A.S./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 and on weekends to accommodate full-time work schedules.

The Ph.D. in Planning focuses on four broad interdisciplinary themes that span the expertise of the faculty within the School of Geographical Sciences and Urban Planning; Community Development for Social Equity; Spatial and Economic Analysis; Transportation Planning and Policy; and Urban Design and Sustainable Cities.

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, such as the School of Human Evolution and Social Change, the School of Sustainability, and the Consortium for Science, Policy and Outcomes. Faculty play major roles in several transdisciplinary research efforts, including the Global Institute of Sustainability, the Decision Center for a Desert City, the Central Arizona-Phoenix Long Term Ecological Research Project (CAP-LTER), the State Climatologist Office, the Center for Social Dynamics and Complexity, the Decision Theater, and the GeoDa Center for Geospatial Analysis and Computation. 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. Admission requirements for MA: undergraduate major in geography or 15 semester hours in geography and related fields, with a B average for the last two academic years; for M.U.E.P is undergraduate major in Urban Planning and related fields with a B average for the last two academic years; for Ph.D. Geography - Master's degree in geography or related field or equivalent, and B average at the graduate level; admission to the Ph.D. program through the Masters in Passing option is possible directly following a bachelor's degree; for PhD Urban Planning – Master's or graduate degree in urban studies, geography, environmental studies, sustainability, architecture, public policy or public administration with a B average at the graduate level. GRE scores are required and used in determining admittance into programs. The Test of English as a Foreign Language (TOEFL) required for 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.

Teaching assistantships, university scholarships, and other awards are available. Teaching and Research assistantship stipends range from \$15,000 to \$21,000 for the academic year. Graduate Associates

(doctoral students) receive waivers of all out-of-state and in-state tuition, and health benefits. Graduate Assistants (master's students) may receive partial tuition waivers and health benefits based on availability of funding.

FACULTY:

Luc Anselin, Ph.D., Cornell, 1980, Research Professor — geographic information science, spatial econometrics, regional science
Robert C. Balling Jr., Ph.D., Oklahoma, 1979, Professor — climatology, climate change, physical climatology, spatial statistics
Randall S. Cerveny, Ph.D., Nebraska, 1986, President's Professor — dynamic and synoptic meteorology, global climate modeling
Netra Chhetri, Ph.D., Pennsylvania State, 2007, Associate Professor — land uses & cover, human dimensions of global climate change, water resources, political ecology of resources
Stephanie Deitrick, Assistant Clinical Professor and MAS — GIS Program Director — cartography, visualization, GIS
Ronald I. Dorn, Ph.D., UCLA, 1985, Professor — desert, hill slope, and quaternary geomorphology, dating methods, remote sensing
Megan Ehlenz, Ph.D., University of Pennsylvania, 2015, Assistant Professor — community development, anchor institutions, urban revitalization, community wealth building, shared equity models
Stewart Fotheringham, Ph.D., McMaster University, Canada, 1980, 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
Ryan Frazier, Ph.D., University of British Columbia, 2016, Lecturer — spatial analysis, vegetation mapping, geoinformation, spatial statistics and satellite image processing, Landsat, pythonista
Matei Georgescu, Ph.D., 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, Ph.D., Ohio State, 1975, Research Professor — population, housing demography, urban, migration
Bjoern Hagan, Ph.D., Arizona State University, 2013, Assistant Research Professor — environmental risk perception and communication, mitigation and adaptation policies and strategies for global climate change, sustainable urban planning
David Hondula, Ph.D., University of Virginia, 2013, Assistant Professor — environmental hazards; environmental health; informatics; climate change and variability; urban climate; climate adaptation
Jason Kelley, Ph.D., Arizona State University, 2013, Lecturer — urban transportation planning, environmental justice, sustainable urban planning and design
Joochul Kim, Ph.D., Michigan, 1979, Associate Professor — community planning, economic development planning, housing and international planning
David King, Ph.D., 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, Ph.D., 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, Ph.D., Oregon State at Corvallis, 2004, Associate Professor — Water resource geography and governance; human dimensions of sustainability; risk perceptions, policy preferences, and human ecological behavior
Elizabeth Larson, Ph.D., Wisconsin, Milwaukee, 1991, Lecturer — peace studies, human rights, and refugee studies

- Wei Li, Ph.D., *Southern California*, 1997, *Professor* — race and urban ethnicity, housing, ethnic finance, highly-skilled international migration
- Wenwen Li, Ph.D., *George Mason University*, 2010, *Associate Professor* — Geographic information science, geospatial cyberinfrastructure, semantic interoperability
- Kevin E. McHugh, Ph.D., *Illinois*, 1984, *Associate Professor* — geographical thought and theory, cultural geographies, phenomenology and posthuman geographies, senses and the city
- Sara Meerow, Ph.D., *University of Michigan*, 2017, *Assistant Professor* — urban resilience, green infrastructure planning, climate change adaptation, urban climate change governance; electricity infrastructure planning; coastal megacities
- Ariane Middel, Ph.D., *University of Kaiserslautern*, 2008, *Assistant Research Professor* — urban climate; climate observation, modeling and simulation;
- Soe W. Myint, Ph.D., *Louisiana State*, 2001, *Professor* — environment, remote sensing
- Trisalyn Nelson, Ph.D., *Wilfrid Laurier University*, 2005, *Director and Professor* — spatial data science, movement, spatial ecology, active transportation, citizen science, www.BikeMaps.org
- Breandán Ó hUallacháin, Ph.D., *Illinois*, 1982, *Professor* — economic, industrial location, urban, regional economic development
- Martin J. Pasqualetti, Ph.D., *University of California, Riverside*, 1977, *Professor* — natural resources, energy, environmental systems, nuclear power
- Robert Pahle, Ph.D., *Arizona State University*, 2008, *Assistant Research Professor* — decision science, decision support systems, high-performance computing, geographic information science and systems
- Nathan Parker, Ph.D., *University of California, Davis*, 2011, *Assistant Research Professor* — transportation and energy, alternative fuels, biofuels, energy transitions, spatial simulation of future of transportation energy supplies, transportation energy policy
- Deirdre Pfeiffer, Ph.D., *UCLA*, 2011, *Associate Professor* — housing and community development, race and class stratification, participatory planning, qualitative methods
- David Pijawka, Ph.D., *Clark University*, 1983, *Professor* — sustainable planning and design, socio-economic assessments, disaster management and recovery planning, perception and behavior studies, institutional design
- Erinanne Saffell, Ph.D., *Arizona State University*, 2004, *Lecturer* — hydroclimatology; systems of risk, vulnerability, resilience associated with extreme weather and climate events
- David J. Sailor, Ph.D. *University of California, Berkeley*, 1993, *Professor* — urban climate dynamics: urban climate, energy consumption, thermal comfort, and renewable energy
- Deborah Salon, Ph.D. *University of California, Davis*, 2006, *Assistant Professor* — transportation and land use, urban economics, climate policy
- Mark W. Schmeeckle, Ph.D., *Colorado*, 1998, *Associate Professor* — geomorphology, fluvial processes, earth surface transport and morphodynamics
- Nancy Selover, Ph.D., *Arizona State*, 2005, *Research Professor and Arizona State Climatologist* — urban climatology, evaporation, drought, micro-climate field research
- J. Duncan Shaeffer, Ph.D., *Arizona State*, 2001, *Senior Lecturer* — world regional and cultural geography
- Daoqin Tong, Ph.D., *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, Ph.D., *Wisconsin, Madison*, 1974, *Gilbert F. White Professor of Environment and Society* — human-environment relationships, land change science, sustainability, tropical forests, ancient Maya
- Ian Walker, Ph.D., *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
- Scott Warren, Ph.D., *Arizona State University*, 2014, *Lecturer* — cultural and historical geography, American West, Southwest, U.S.-Mexico borderlands
- Douglas Webster Ph.D., *University of California, Berkeley*, 1977, *Professor* — sustainable urbanization, city building in China, Southeast Asian urbanization, urban competitiveness/city development strategies
- Elizabeth A. Wentz, Ph.D., *Pennsylvania State*, 1997, *Dean of Social Sciences, Professor* — GIS, spatial analysis, environmental, urban remote sensing
- Susanna Werth, Ph.D., *University of Potsdam*, *Assistant Research Professor* — Earth's gravity field, hydrology, remote sensing, modeling, signal processing, climate change

ACADEMIC PROFESSIONALS:

- Gale Olp Ekiss, M.Ed., *Arizona State University*, 1982, *Co-coordinator, Arizona Geographic Alliance* — geography education
- Ayan Mitra, M.S., *Arizona State University*, 2007, *Assistant Research Professional* — GIS applications and database development
- Barbara Trapido-Lurie, M.A., *Hawaii*, 1987, *Senior Research Professional* — cartography

AFFILIATED FACULTY:

- Ambika P. Adhikari, Ph.D., *Doctor of Design, Harvard University*, 1990, *Research Professor* — urban sustainability, international environmental policy, clean energy program development and deployment in developing countries, climate change policy and urban planning
- Bob Bolin, Ph.D., *Colorado*, 1976, *Professor* — political ecology, environmental hazards and risk, contemporary social theory, social movements and change, urban sociology/geography
- Christopher Boone, Ph.D., *Toronto*, 1994, *Professor* — urbanization, urban environments, urban sustainability, environmental justice
- Brittany Crow-Miller, Ph.D., *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, Ph.D., *University of Arizona*, 2002, *Associate Professor* — vulnerability, adaptation, global change, globalization, Latin America, Mexico, food systems, agrarian change
- Anthony Grubestic, Ph.D., *The Ohio State University*, 2000, *Professor* — GIScience, transportation, urban health, crime, regional development, environmetrics, public policy evaluation and spatial statistical methods
- Kevin Robert Gurney, Ph.D., *Colorado State University*, 2004, *Associate Professor* — global biogeochemistry, carbon cycle, carbon-climate feedbacks, fossil fuel CO₂ emissions, climate policy.
- Francisco Lara-Valencia, Ph.D., *University of Michigan*, 2002, *Associate Professor* — Southwest borderlands development planning, economic development planning, urban health disparities, environmental vulnerability.
- V. Kerry Smith, Ph.D., *Rutgers*, 1970, *W.P. Carey Professor* — environmental and resource economics
- Michael E. Smith, Ph.D., *University of Illinois at Urbana-Champaign*, 1983, *Professor* — Archaeology; premodern urbanism; comparative urbanism; comparative inequality; historical social science; Aztec society; Mesoamerican archaeology.
- Jianguo (Jingle) Wu, Ph.D., *Miami University*, 1991, *Professor* — Landscape ecology, urban ecology, and sustainability science

EMERITUS FACULTY:

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

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

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

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

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

Katherine Crewe, Ph.D., 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, Ph.D. UCLA, 1978, Professor — Urban and Regional Planning

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

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

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

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

Guido G. Weigend, Ph.D., Chicago, 1949, Professor — political, Europe, Soviet Union, Southern Africa

Ruth A. Yabes, Ph.D., Cornell University, 1990, Professor — Participation, community development, international planning, planning pedagogy

ADJUNCT FACULTY:

Janet Franklin, Ph.D., University of California, Santa Barbara, 1988 — landscape ecology, biogeography, remote sensing, geographic information science — Ronald Holle, M.S., Florida State, 1966, Meteorological Consultant

Sherwood B. Idso, Ph.D., Minnesota, 1967 — U.S. Water Conservation Service Labs, USDA

Robert Maddox, Ph.D., NWS Forecast Office

Sergio J. Rey, Ph.D., University of California, Santa Barbara, 1994 — open source geocomputation, spatial econometrics, economic geography, regional science

Susan R. Sargent, PhD., City of Phoenix Planning Department, Arizona

Mark R. Sinclair, Ph.D., US Naval Postgraduate School, 1985, Embry-Riddle Aeronautical University

John Skindlov, Ph.D., Delaware, 1992, Salt River Project

David Whitley, Ph.D., UCLA, 1982, W&S Consultants, Cultural Resource Management

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.

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

FACULTY:

Steve Bass, M.A., Michigan State University, 1987 — world regional, urban, Arizona geography

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

Niccole Villa Cerveny, 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 6/1/11-5/13/17: 69 Geographic Science and Planning, 289 Recreation, 55 Masters, 63 Masters Certificates

STUDENTS IN RESIDENCE: 61 Geographic Science and Planning, 406 Recreation, 30 Masters, 34 Masters Certificates

CHAIR: Alan Lew

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 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 community and commercial recreation, outdoor education and leadership, Park Protection, Tourism, and Individualized Studies. The Parks and Recreation Management degree program is also available over the Internet. The department also offers a specialist program, called the Park Ranger Training Program which is one of seven ranger training 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.

We now offer a B.S. - M.S. Integrated Program in Applied Geospatial Sciences For NAU undergraduate Students Majoring in B.S. Geographic Sciences and Community Planning and B.S. Parks and Recreation Management. The Integrated 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.

The MS Applied Geospatial Sciences degree plan is designed for students who want to pursue a career in understanding and managing land, community and environmental spatial systems, including geographic information systems (GIS), and remote sensing, and public planning and recreation. Both thesis and nonthesis plans are available. This nonthesis plan requires a professional applied paper that is overseen by your practicum committee. **The Geospatial Technologies Emphasis (nonthesis) is a Professional Science Master's (PSM) degree. For more information on PSM degrees, visit the website of the National Professional Science Master's Association.**

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, 2014; Lecturer — human geography, developing world, climate change, cultural geography. (Jessica.Barnes@nau.edu)

R. Dawn Hawley, Ph.D., Arizona State, 1994; Professor — public land policy, economic geography, urban geography, GIS, U.S., *Geographic Science & Community Planning Coordinator* (D.Hawley@nau.edu)

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

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

Mark Manone, M.A., Northern Arizona University; Associate Professor of Practice — GIS

Brian Petersen, Ph.D. University of California Santa Cruz, 2010. Assistant Professor — Environmental Studies, Forest Resource Management, Sustainability, Climate Change and Society. (Brian.Petersen@nau.edu)

Erik Schiefer, Ph.D., University of British Columbia, Canada, 2004; Assistant Professor — Physical Geography, GIS, and Geomorphology. Graduate Program Coordinator. (Erik.schiefer@nau.edu)

Amanda Stan, Ph.D, University of British Columbia, Canada, 2008; Lecturer — Physical Geography, Weather and Climate, Global analysis. (Amanda.stan@nau.edu)

Margo Wheeler, MURS, 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; Lecturer, Outdoor Leadership Program — Outdoor Leadership, NOLS

Kathleen C. Dodd, M.S., Texas A & M 1988; Lecturer and Park Ranger Training Program Director — park ranger training, physical education and cultural resource protection.

Mark Maciha, Ph.D, Northern Arizona University 2014; Assistant Professor, Park Ranger Training Program Director — Park protection I and II, wildland recreation, natural resources protection. Department Chair (Mark.Maciha@nau.edu).

Pamela Foti, Ph.D., Wisconsin, 1988; Professor — wildland recreation and expeditions, outdoor recreation research and policy, impact analysis, park and recreation agencies (Pam.Foti@nau.edu)

Charles Hammersley, Ph.D., New Mexico, 1988; Professor — community and commercial recreation, outdoor leadership, event planning, recreation facility development and administration; Parks and Recreation Management Program Coordinator (Charles.Hammersley@nau.edu)

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

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

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 — computer cartography, geomorphology, climate, GIS, remote sensing, field techniques; GIS Programs Coordinator (Lee.Dexter@nau.edu)

Christina B. Kennedy, Ph.D., Arizona, 1989; Professor — landscape studies, environmental perception, geography of film, resource management, environmental studies; (Tina.Kennedy@nau.edu)

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

Graydon Lemmis 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

ADJUNCT AND AFFILIATED FACULTY

Patrick Chavez, Ph.D., USGS, Research Associate — remote sensing, GIS

Philip A. Davis, Jr., Ph.D., Kentucky; USGS Research Geologist; Adjunct Professor — remote sensing, GIS

Kathryn Thomas, Ph.D. California-Santa Barbara; USGS Biological Resources Division, Colorado Plateau Field Station; Adjunct Professor — plant and landscape ecology, biogeography, arid lands

Neil Gullickson, B.B.A., B.S. Northern Arizona, 1992; Associate Planner, City of Flagstaff; Instructor — physical planning, urban design, zoning, planning practice

Michael Kerski, M.Arch., Wisconsin-Milwaukee; AIA, CNU; Redevelopment Program Director, City of Flagstaff; Instructor — urban design, urban redevelopment, site planning, new urbanism

William Ring, J.D., Arizona; Instructor — land use law, zoning and planning, regulatory approvals

Kim William Watson, B.S., Ohio State; Supervisory Park Ranger, National Park Service; Instructor — Land and Environmental Planning, Long Range Planning, Resource Protection, Visitor Management and Education

A new kind of science program at Northern Arizona University offers students a way to thrive in the growing global economy.

NAU's first Professional Science Master's degree—the master's in applied geospatial sciences—provides students a direct path to industry, government or non-profit careers. "Professional Science Master's degrees prepare students for work in a variety of cutting-edge fields and yield a highly marketable degree and competitive salary after only two years of postgraduate study." Professional Science Master's degrees supply advanced training in sciences, technology and mathematics while developing practical workplace skills such as business fundamentals and project management. These interdisciplinary degrees also may include training in intellectual property law, technology transfer, regulatory affairs, information technology, product marketing, leadership, entrepreneurship and communication. The Professional Science Master's degree is a professional rather than a research degree. A master's degree in many natural science fields traditionally is a steppingstone to a doctorate rather than an end in itself. But over the past 13 years, foundations and

universities have worked together to develop new master's programs for students seeking professional skills for the 21st century global marketplace. The master's in applied geospatial sciences has become the first degree program at NAU to be approved for affiliation as a PSM program by the [Council of Graduate Schools](#). See <http://nau.edu/SBS/GPR/Degrees-Programs/MS-Applied-Geospatial-Sciences/> for information on NAU's master's in applied geospatial sciences.

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 7/1/15-6/30/16: 71 BA/BS, 5 Masters, 2 Ph.D., 29 GIST, 10 MDP

STUDENTS IN RESIDENCE: 393 Undergraduate Majors, 11 MA, 52 MS, 26 MDP, 53 Ph.D.

DIRECTOR: Lynn 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 Certificate 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, Assistant Research Social Scientist and Assistant Research Professor, Southwest Center and School of Geography and Development — political and cultural geography, Latin America, environment, Mexico
- Greg Barron-Gafford, Ph.D., 2010, Associate Professor and Associate Director — biogeography, environment, leaf biochemistry, ecosystems, climate change, ecology, forest ecology
- Carl J. Bauer, Ph.D., UC Berkeley, 1995, Associate 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, Lecturer and Research Associate — 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., 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 and Senior Vice President for Academic Affairs and Provost — 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, Assistant Professor — critical development studies, urban geography, cities of the Global South, feminist geography, cultural politics, social movements, ethnography, Mumbai
- 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, Assistant 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, Assistant 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., Arizona, 2005, Associate Professor and Director of Undergraduate Studies — development, Latin America, social theory/social justice
- Christopher A. Scott, Ph.D., Cornell, 1998, Professor — 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, and 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., Arizona, 1995, Associate Professor, Geography and School of Natural Resources and Environment — landscape ecology, dryland environments, biogeography, remote sensing, field methods
- Margaret O. Wilder, Ph.D., 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:

- Brown, Heidi, 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., M.S.

STUDENTS IN 2016-2017 RESIDENCE: 160 Majors, 67 Masters

CHAIR: Christopher Liner

DEPARTMENT ADMINISTRATIVE SUPERVISOR:
Teresa Center

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: liner@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, Assistant Professor — InSAR, GPS, GIS, Crustal Deformation Modeling, and 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

Jackson Cothren, Ph.D., The Ohio State University, 2004, Associate Professor, Director of Center for Advanced Spatial Technology — geospatial modeling, geomatics, geographic information systems, remote sensing, environmental assessment

Matt Covington, Ph.D., University of California Santa Cruz, 2008, Assistant 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

Ralph Davis, Ph.D. University of Nebraska 1992, Professor — Hydrogeology, Contaminant Transport, Water Resources Management

John C. Dixon, Ph.D., Colorado, 1983, Professor — geomorphology, Alpine processes, geoarchaeology, Quaternary environments, soils

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

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

John G. Hehr, Ph.D., Michigan State, 1971, Professor — meteorology, climatology, Latin America

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

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

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

Thomas "Mac" McIlver, Ph.D. University of Texas Austin, 1996, Petroleum Geology

Steven Milligan, M.S. Colorado School of Mines, 1982 — Petroleum Geophysics

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, Assistant Professor — Ore Geology and Radiogenic Isotope Geochemistry

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

Xuan Shi, Ph.D. West Virginia University, 2007, Assistant Professor — Geoinformatics

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, Assistant Professor — Stable Isotope, Low-temperature Geochemistry, Paleontology

Jason Tullis, Ph.D., University of South Carolina, 2003, Associate Professor — remote sensing, biogeography

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

CALIFORNIA

AMERICAN RIVER COLLEGE

EARTH SCIENCES DEPARTMENT (Geography and Geology)

DATE FOUNDED: 1970

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

Transfer in Geography, and A.S. and Certificate in GIS

GRANTED: approx. 30 per year including GIS

MAJORS: approx. 20

HEAD: Hugh Howard, Department Chair, Earth Sciences

DEPARTMENT ADMINISTRATIVE ASST: Christine DeWitt, Admin. Asst., Science Division

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Geography/GIS Program, Earth Sciences Department, American River College, 4700 College Oak Drive, Sacramento, CA 95841-4286. (916) 484-8637. Email us at: howardh@arc.losrios.edu Visit our webpage at: arc.losrios.edu/earthsci

PROGRAMS AND RESEARCH FACILITIES:

American River College offers 10 lower division thematic and regional geography courses, as well as several field courses to destinations across California. Additionally, we offer 12 introductory and advanced courses in GIS and related topics. These courses are supported by two 30-station state of the art PC labs running the latest ESRI software and associated extensions.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: American River College is a community college open to all residents who are high school graduates or who are at least 18 years of age and able to profit from the instruction offered. Financial aid is available.

TENURED FACULTY:

John Aubert, M.A. UC Davis — Physical, Cultural, field courses

Hugh Howard, Ph.D. University of Kansas — GIS, Physical

Glenn Jaecks, Ph.D. UC Davis — Physical and Historical Geology, Oceanography, Paleontology, field courses

Melissa (Lisa) Levy, M.A. East Tennessee State University — Geology, Earth Science, Weather and Climate, field courses

Charles Thomsen, M.A. CSU Chico — Physical, Cultural, field courses

ADJUNCT FACULTY: (5+ years)

Robert Earle, M.A. SF State University — GIS, Database

Nathan Jennings, M.S., University of Wisconsin — GIS, Remote Sensing

Tom Lupo, M.A. SF State University — GIS, Applications

Marius Petraru, Ph.D. Jagellonian University — Physical, Cultural

Ronnie Richards, M.S. Sacramento State University — GIS, Database

Paul Veisze, M.S. UC Berkeley — GIS, Data Acquisition

Michael Winter, M.A. University of Kansas — Physical

EMERITUS FACULTY:

Robert Christopherson, M.A. Miami University Ohio — Physical, Cultural

Phil Renner, M.A. University of Oregon — Physical

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1973

DEGREES OFFERED: B.S.

GRANTED 9/1/13-8/31/14: 20 Bachelors

MAJORS: 50

CHAIR: Lin Wu

GEOGRAPHY PROGRAM COORDINATOR: Kristen
Conway-Gomez

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: lwu@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 major option programs in geography in the department: Geographic Information Systems, Environmental Geography, and Geography. 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 quarter 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-Gomez, Ph.D., University of Florida, 2004, Associate Professor — Latin America, biogeography, human geography, geographic information systems, natural resource conservation

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

Jeanne Marshall, MA., Cal State Fullerton, 1998 — cultural, California

Nikita Prajapati, MA, Cal State Long Beach, 2016 -- cultural, physical, world regional, California

Stephen H Sandlin, Ph.D., UC-Riverside, 1997 — cultural, physical, world regional, California

CALIFORNIA STATE UNIVERSITY, CHICO

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1964

GRADUATE PROGRAM FOUNDED: 1970

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

CERTIFICATES OFFERED: Certificate in Geospatial Technology; Certificate in Land Use & Environmental Planning

MINORS OFFERED: Environmental Studies; Geography; Geospatial Literacy; Planning and Development

DUAL DEGREES OFFERED: Geography and Economics; Geography and History

GRANTED 9/1/16 - 8/31/17: 22 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 75 Majors

CHAIR: Dean H.K. Fairbanks

ADMINISTRATIVE ASST: Jessie Mendoza

LAB TECHNICIAN: TBD

FOR FURTHER INFORMATION CONTACT: Department of Geography and Planning, California State University, Chico, California 95929-0425 or telephone (530) 898-5285 or refer to <http://www.csuchico.edu/geopl/>.

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 department offers comprehensive facilities and equipment for undergraduate and graduate study. These include an extensive collection of maps, 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 scholarships 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. Teaching assistantships are available for Graduate students on a competitive basis. Equal opportunity Affirmative Action students are particularly encouraged to apply.

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, human-environmental relations, environmental planning, spatial econometrics, remote sensing

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

LaDona G. Knigge, Ph.D., SUNY-Buffalo, 2006, Associate Professor — urban geography, community 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

Paul Z. Melcon, Ph.D., University of Wisconsin-Madison, 1979, Associate Professor — physical geography, hazards, geomorphology, remote sensing

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

ADJUNCT:

Owen Bettis, M.A., CSU, Chico, 2012 — physical geography

Steven Herman, M.A., University of North Carolina, 1982 — geographic education, California geography, American West

Robert Pierce, M.A., CSU, Chico, 2003 — physical geography

Jeremy Miller, M.S., Antioch Univ., 1999 — sustainability issues, physical geography

Ryan Miller, M.A., Univ. of Washington, 2014 — Urban Planning, GIS

Steven Stewart, M.A., CSU, Chico, 1996 — GIS, cartography, geographic education

Claudia Stuart, M.L.A., UC Berkeley, 1992 — rural land use planning, environmental impact, CEQA/NEPA

EMERITI:

Richard L. Haiman, Ph.D., UCLA, 1973, Professor

Donald G. Holtgrieve, Ph.D., Oregon, 1973, Professor

Ladd Johnson, Ph.D., UCLA, 1964, Professor

Guy Q. King, Ph.D., University of Utah, 1982, Professor

Ralph Meuter, Ph.D., University of Oklahoma, Professor

Edward L. Myles, Ph.D., Michigan State, 1973, Professor

Susan Place, Ph.D., UCLA, 1991, Professor

Frank Seawall, Ph.D., Pennsylvania State University, Professor

Jerry R. Williams, Ph.D., Florida, 1969, Professor

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1960

GRADUATE PROGRAM FOUNDED: 1960

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

GRANTED 2015-2016: 29 Bachelors, 9 Masters

STUDENTS IN RESIDENCE: 110 Majors, 53 Masters

CHAIR: Edward Jackiewicz

DEPARTMENT ADMINISTRATIVE COOR: Judith Gomez

FOR CATALOG AND FURTHER INFORMATION WRITE

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

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 a certificate in GIS. The MA is offered with two options: standard program or GIS specialization. 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, or an acceptable GRE score and a GPA of at least 2.75 in the last 60 units attempted.

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., UWU, 2010 Assistant Professor — GIS, Multi-criteria decision analysis, location theory and analysis, spatial decision support systems

Helen M. Cox, Ph.D., UCLA, 1998, Professor — meteorology, climatology, remote sensing

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, Assistant 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. Vicerio, Ph.D., Wisconsin, 1968, Professor — historical Anglo-America
I-Show Wang, Ph.D., Minnesota, 1971, Professor — population, East Asia

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: 9/1/15-6/20/16: Geography: 9 Bachelors; Global Studies: 3 Bachelors; Environmental Studies: 17 Bachelors

MAJORS: Geography: 22; Environmental Studies: 89

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.
Andrew Bodman, Ph.D., The Ohio State University, 1978, former Provost and Vice President for Academic Affairs — economic geography
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:

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: 29 Geography

MINORS: 12 Geography

DEGREES GRANTED: 3 BA

DEPARTMENT CHAIR: Sari Miller-Antonio

PROGRAM DIRECTOR: Peggy Hauselt

ADMINISTRATIVE COOR: Susan Helm-Laubert

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of 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 and the Bio-Ag Center (an outdoor lab for environmental planning, sustainable techniques and permaculture). 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.

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 Avwunodiogba, Ph.D., Univ of Texas, Austin, 2011,
Associate Professor — Geomorphology, GIS, Remote Sensing,
Mexico, West Africa

José R. Díaz Garayúa, Ph.D., Kent State Univ, 2008, Assistant
Professor — Social, Cultural, Community GIS, Urban-
Economic, Race, Ethnicity, Place

Peggy Hauselt, Ph.D., UC Davis, 2007, Associate Professor —
Environmental, Agricultural, Biogeography, GIS

Alison McNally, Ph.D., UC Davis, 2014, Assistant Professor —
Environmental, Agricultural, Biogeography, GIS

ADJUNCT FACULTY:

Richard Eigenheer, Ph.D., UC Davis, 1976 — Historical, Cultural,
US/Canada, California

Chuck Bowen, M.A., Univ of Georgia, 1967 — Weather &
Climatology, Environmental Science, Latin America

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.S. in

Environmental Studies & Sustainability, GIS Certificate

MAJORS: approx. 15

HEAD: Debra A. Sharkey

DEPARTMENT ADMINISTRATIVE ASST: Cindy Petty

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, the Eastern Sierra and the California coast. In addition, the program offers two transferable A.S. degrees (Geography and Environmental Studies) and a professional GIS 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:

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

Richard Davis, M.A., San Francisco State University, Adjunct
Professor — Physical Geography, World Regional Geography

John Rusmore, Ph.D., UC Davis, Adjunct Professor — Physical
Geography

Debra Sharkey, M.A., UC Davis, Professor — Cultural
Geography, Physical Geography, Environmental Studies, Field
Studies, Weather and Climate, World Regional Geography

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
Kolett, Department of Anthropology, Geography, Geology, East Los
Angeles College, 1301 Avenida Cesar Chavez, Monterey Park,
California 91754-6099. Telephone: (310) 367-2115. E-mail:
kolett@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: 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 3,000 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.

LANEY COLLEGE

DEPARTMENT OF HUMAN AND PHYSICAL SCIENCES

DATE FOUNDED: 1972

DEGREES OFFERED: A.A. in Geography

DEGREES GRANTED (Or Expected) 9/1/16 – 8/31/17: 5
A.A. Geography

MAJORS: 7 Geography

CHAIR: Mark Rauzon, mrauzon@peralta.edu

PROGRAM ADMINISTRATIVE ASSISTANT: Mayra Arévalo

FOR CATALOG AND FURTHER INFORMATION WRITE TO:
Mark Rauzon, Laney College, 900 Fallon Drive, Oakland, CA 94607

PROGRAMS AND RESEARCH FACILITIES:

A range of introductory geography and earth science courses are offered, including a laboratory class, which includes frequent field work in the peri-campus area involving the continual gathering of a data set from water samples and testing from the local estuary. Field trips are also taken to local tectonic fault lines, stands of redwood forest, and waste-water treatment plants.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Courses offered are: introduction to physical geography, physical geography laboratory, introduction to cultural geography, world regional geography, California geography, and climate change. Introduction to physical geography along with the lab component satisfy the science transfer requirement to all California State Universities as well as all University of California institutions.

Admission to the department and to a geography major is not restricted and completely based on student choice and volition. Students majoring in geography must take at least 12 units of geography courses at Laney College or within the Peralta Colleges district.

FACULTY:

Mark J. Razoum, M.S. University of Hawai'i 1977 — biogeography, ornithology, Pacific seabirds

Gregory J. Schwartz, Ph.D. University of Texas, Austin 2015 — political ecology, water resources, forests and payment for environmental services, social aspects of climate change

PALOMAR COLLEGE

DEPARTMENT OF EARTH, SPACE, AND ENVIRONMENTAL SCIENCES

DATE FOUNDED: 1946

DEGREES OFFERED: A.S. Geography, A.S. Geographic Information Systems, Certificate of Achievement, Certificate of Proficiency

CHAIR: Wing H. Cheung, PhD.

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Brenda Morris

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Ms. Brenda Morris, Academic Department Assistant, Department of Earth, Space, and Aviation 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). 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

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: jcrocitt@sdccd.edu
Internet: <http://www.sdmesa.edu/students/academic-programs/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), Assistant 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

Jessica A. Garza, M.S. (University of Hawaii at Manoa, 2011), 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

SAN DIEGO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1914

GRADUATE PROGRAM FOUNDED: 1956

GRANTED 08/22/16-08/22/17: 42 Bachelors, 18 Masters, 3 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: Diana Richardson, Undergraduate Advisor, Ira Zukanović, 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 Center for Interdisciplinary Studies of Youth and Space (ISYS) 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, IDRISI, Overwatch Feature Analyst, Definiens and BAE Systems). 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:

- Edward Aguado, Ph.D., Wisconsin, 1983, Professor* — climatology, meteorology, physical
- 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
- Anne-Marie Debbané, Ph.D. York University, Canada, 2010, Assistant Professor* — political ecology/economy, urban nature and social justice, water governance and development, geographies of socio-environmental change in South Africa
- 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
- Kathleen A. Farley, Ph.D., Colorado, 2002, Associate Professor* — environmental science and policy, land use change, ecosystem processes and services, physical geography
- 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
- 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:

- 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., B.S., M.A., M.S.

GRANTED 9/1/15 – 8/31/16: 57 Bachelors, 7 M.A., 2 M.S.

STUDENTS IN RESIDENCE: 187 Majors, 58 Masters

NOT IN RESIDENCE: 20 Masters

CHAIR: Jerry Davis

DEPARTMENT OFFICE COORDINATOR: Theresa Kane

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:

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, 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
XiaoHang 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

UNIVERSITY OF CALIFORNIA, BERKELEY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1898

GRADUATE PROGRAM FOUNDED: 1908

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

GRANTED 9/1/16-8/31/17: 42 Bachelors, 6 Ph.D.

STUDENTS IN RESIDENCE: 102 Majors, 50 Ph.D.

NOT IN RESIDENCE: 10 Ph.D.

CHAIR: Nathan F. Sayre

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 Marjorie Ensor, Student Academic Advisor. Telephone (510) 642-3904. E-mail: ensor@berkeley.edu. Mail address: Department of Geography, 505 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 Central America. 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, Energy and Resources Group, Earth and Planetary Science, Biological Sciences, Departments of Anthropology, Sociology, Economics, 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 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 Development 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. Across the glade is the 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 on-line (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, Associate 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, Associate 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, Assistant 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.
- David O'Sullivan, Ph.D., University of London, 2000, Associate Professor — Spatial modelling, complex theory, geocomputation, applying GIS tools to the urban environment
- 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
- Louise Fortmann, Ph.D., Cornell, 1973, Professor of Environmental Science, Policy and Management
- 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
- Sally Thompson, PhD., Duke, 2010, Professor of Civil and Environmental Engineering

EMERITI FACULTY:

- Roger Byrne, Ph.D., Wisconsin, 1972
- 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., PhD.

GRANTED 7/1/15-6/30/16: 3 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 59

NOT IN RESIDENCE: 2

CHAIR: Robert Hijmans

PROGRAM COORDINATOR: Carrie Armstrong-Rupert

GRADUATE ADVISORS: Ryan Galt; Robert Hijmans; Jay Lund; James Quinn

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Carrie Armstrong-Rupert, 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 shared research interests amongst faculty and students, with the flexibility to grow and quickly change to reflect emerging areas of interdisciplinary knowledge and technology. The overall focus of the program is on the natural and built environment, building on the strengths of the campus faculty.

Faculty interests in the GGG are diverse and attract students in such areas as biophysical geography and related natural science and engineering fields, as well as human geography and related social science fields. A number of faculty use and teach GIS, remote sensing, modeling, spatial analysis, and related geographical techniques, and the faculty have a strong field orientation as well. The instructional program focuses on several areas of emphasis where faculty expertise and student interest are the greatest: environmental sciences; global environmental change; landscape architecture and environmental design; methods; models and GIS; nature and society; people, place and region; and regional and community development. GIS science is a cross-cutting area of strength for the group. Faculty and students

conduct their research throughout the world, with particular strength in Latin America, Europe, the Middle East, Asia, and California and the Western United States.

Library materials are available on campus, in the State Library, and other state and federal agencies in Sacramento. The city of Sacramento, the state capital, lies 15 minutes east; San Francisco is 75 miles west. The city of Davis has a small-town friendliness and the park-like UC campus has a student body of 35,000. UC Davis is one of the nation's top research universities where more than 7,000 students are engaged in graduate or professional studies. The campus is near two major urban centers, within the agriculturally diverse Central Valley and in close proximity to the Pacific Ocean and the Sierra Nevada, providing outstanding research opportunities at UC research and field stations.

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

Michael Barbour (Emeritus) — plant ecology, North-Central-South America, Australia

Tom Beamish — social and organizational response to environmental change and disaster

Stephen Boucher — international agricultural development; Agricultural credit and insurance markets.

Cynthia Brantley (Emeritus) — African social history, gender in Africa, history of Africa nutrition, East Africa

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. Particular interest in how these networks impact neighborhood socio-economics and greenhouse gas emissions in an effort to support sustainable land-use planning around environmental justice.

Stephen Brush (Emeritus) — cultural ecology, eastern Mediterranean, North — Central — South America

Mary L. Cadenasso — crop and ecosystem sciences, horticultural sciences

Thomas A. Cahill (Emeritus) — atmospheric optics and haze, especially smoke from forest fires

Dave Campbell — public policy and community governance; citizenship and civic engagement; non-profit and faith-related organizations; program evaluation

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.

Dennis Dingemans (Emeritus) — urban planning, North America, Europe

Deborah L. Elliott-Fisk (Emeritus) — Quaternary environments, coastal, mountain, and alpine, restoration, North America; biogeography, geomorphology and soils, viticultural geography

Joan Florsheim (Emeritus) — geomorphology, climate change, anthropogenic disturbances, and restoration

Mark Francis (Emeritus) — urban and community design, North America, Europe

Isao Fujimoto (Emeritus) — community change, Asian Studies

Ryan E. Galt — cultural and political ecology, agricultural and environmental governance, political economy of sustainable agriculture, cartographic design, the Americas

Charles Goldman (Emeritus) — conservation, restoration, geographic information systems (GIS), North America

Elise Gornish — restoration ecology and invasive species management, particularly investigating effects of management across spatial scales.

Steven Greco — conservation, restoration, geographic information systems (GIS), North America

James Grieshop (Emeritus) — community development, North—Central America

Louis Grivetti (Emeritus) — nutritional geography, Africa, eastern Mediterranean, Southeast Asia

Luis Guarnizo — economic sociology, transnational migration, immigrant entrepreneurs, comparative international development, citizenship

Joyce Gutstein (Emeritus) — environmental geography, biodiversity, education

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 — broadly focuses on the ecology, ecosystems, and sustainability of arid lands globally. Sustainability work focuses on the geography of energy, the land-energy-environment nexus, land-use and land-cover change of energy, environmental impacts of energy, energy transmission, energy policy, solar and wind energy systems and optimization, and the use and development of big geospatial energy datasets. Ecological work on soils incorporates biogeography and spatiotemporal dynamics of soil biogeochemistry and microbes in arid land ecosystems.

Robert Hijmans — ecological modeling, geo-informatics, agricultural geography, biodiversity conservation, climate change

Frank Hirtz (Emeritus) — law & development, development planning, social policy & welfare, Southern Africa, Southeast Asia

- Benjamin Houlton* — global change impact assessments; computational modeling of Earth processes; global biogeochemical cycles and climate change; Earth system science; planetary health
- Richard Howitt (Emeritus)* — Resource Economics, Environmental Economics, Quantitative Methods, Econometrics, Operations Research
- Hsuan Hsu* — focuses on literary representations of space, environment, and inequality
- Yufang Jin* — remote sensing of terrestrial ecosystems, fire disturbance, ecohydrology, biogeochemical cycle, climate change, and GIS
- Suad Joseph (Emeritus)* — women in development, Middle East
- 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
- Eric Larsen* — fluvial geomorphology, hydrology, watersheds, North America
- F. Thomas Ledig (Emeritus)* — evolution and biogeography, North America, Mexico, Australia, Mediterranean basin
- 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.
- Jeff Loux (Emeritus)* — environmental policy, community planning, land use planning, North America
- Mark Lubell* — environmental policy, community-based management, social networks, human cooperation, quantitative analysis
- Jay R. Lund* — resource management and planning, water resources, urban geography
- Dean MacCannell (Emeritus)* — semiotics, social policy and the environment, North America
- Amima Mama* — focusing on the contribution research can make in the pursuit of social justice and feminist agendas and community advocacy
- Greg McPherson* — urban forest ecology, benefit-cost analysis
- Jay Mechling (Emeritus)* — U.S., vernacular landscapes, food ways, animal/human relations
- 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
- Patricia L. Mokhtarian (Emeritus)* — travel behavior modeling, telecommunication impacts, transportation and land use
- Frances Moore* — social and economic impacts of climate change; adaptation; climate policy; impacts on agriculture; risk management
- Jeffrey Mount (Emeritus)* — fluvial geomorphology
- Peter Moyle (Emeritus)* — fish biology, wildlife conservation, watershed ecology and nature/culture
- 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
- Richard Plant (Emeritus)* — geographic information systems (GIS), China, Europe, North America
- James Quinn (Emeritus)* — conservation biology, Gap Analysis, GIS
- 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.
- Lynn Roller* — classical landscapes and biophysical environment; Eastern Mediterranean
- Margaret Rucker (Emeritus)* — clothing and environmental hazards, North America, China
- Hugh Safford* — community and landscape ecology, fire ecology, restoration ecology and biogeography
- Ann Savageau* — natural world, human material culture, and their intersection and interaction.
- Heath Schenker (Emeritus)* — landscape history, Europe and South America
- Mark Schwartz* — taxonomic and geographical aspects of conservation biology
- Art Shapiro* — evolution, population dynamics, North-South America
- Sheryl-Ann Simpson* — urban, political, cultural and health geography, comparative social planning, critical GIS and spatial analysis, immigration and social/political participation
- Aaron Smith* — agriculture and resource economics, econometrics, finance
- Michael P. Smith (Emeritus)* — urban political economy and culture, globalization and transnationalism
- 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
- Margaret Swain (Emeritus)* — sustainable development, tourism, China, Europe
- Julie Sze* — gender and the environment
- Kenneth Tate* — rangeland watershed specialist
- Robert L. Thayer, Jr. (Emeritus)* — environmental perception and sustainable landscape development, North America
- 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

Stefano Varese (Emeritus) — indigenous people of Central and South America, environmental struggles

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

Charles Walker — historical geography, human geography, Latin America

Wesley W. Wallender — hydrological science and modeling, GIS

Geoffrey Wandesforde-Smith (Emeritus) — environmental policy, North-South America, Southeast Asia

Karen Watson-Gegeo — anthropology, applied linguistics; quantitative and ethnographic methods; discourse analysis; rural development; ethnic identity; feminist research; Hawai'i, Solomon Islands, Pacific Islands, South and Southeast Asia, US Native and immigrant populations

Miriam J. Wells (Emeritus) — rural economic development, immigration, ethnicity, work and labor relations, the role of the state

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 7/1/15-6/30/16: 275 Bachelors, 2 Masters, 11 Ph.D.

STUDENTS IN RESIDENCE: 353 Majors, 196 Minors, 56 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, 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 2018 is December 15, 2017. 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 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 Cavanaugh, Ph.D., UC Santa Barbara, 2011, Assistant Professor — coastal ecology, biogeography, spatial ecology, and remote sensing

Daniela Cusack, Ph.D., UC, Berkeley, 2009, Assistant 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 Goodwin-White, Ph.D., University of Washington, 2005, Assistant 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 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 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 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, Associate Professor — political, applied GIS, quantitative, international relations

Laurence C. Smith, Ph.D., Cornell, 1996, Professor — hydrology, remote sensing and GIS

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

AFFILIATED FACULTY:

Susanna B. Hecht, UCLA Planning
Thomas Painter, UCLA JIFRESSE, JPL

Michael Storper, UCLA 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.
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: 160 Undergraduate Majors, 70 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: geog-grad_assistant@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. Areas of concentration include:

EARTH SYSTEM SCIENCE (ESS): This systematic area emphasizes the measurements, analysis, and modeling of hydrologic, atmospheric, oceanic, and terrestrial systems and the interactions between systems. A large proportion of the problems addressed by researchers in ESS involve three common elements: large regional issues; mathematical and computational modeling; and large, spatially indexed datasets.

HUMAN GEOGRAPHY (HG): This systematic area covers the major components of Human Geography offered by the Department, including: human spatial behavior and cognition; spatial decision-making and decision support; urban and regional modeling, planning, and policy; human movement and transportation systems; resource and environmental management; population; human response to the changing environment; health geography.

MODELING, MEASUREMENT, AND COMPUTATION (MMC): This area is the investigation of sets of techniques from the areas of analysis, statistics, and computation that are particularly well-suited to the modeling of the complex, geographic phenomena that are the subject of investigation in both ESS and HG. Important sub-areas include numerical modeling, spatial and temporal statistics, remote sensing, computational modeling and database systems (including geographic information systems), and cartography and visualization, all of which are increasingly dependent on knowledge of computational theory and practice.

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 faculty are notably active as authors of books and peer reviewed articles, as members of editorial boards, and as reviewers of manuscripts for professional journals. This professional activity keeps the UCSB Geography faculty at the leading edge of our discipline; indeed, two of our faculty are members of the National Academy of Science, one is a Fellow of the Royal Academy, and one received the Prix Vautrin Lud, Geography's equivalent of the Nobel Prize. The Department of Geography is also the headquarters of the UCSB Center for Spatial Studies (spatial@ucsb) and has a strong association with the UCSB Earth Research Institute.

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). The Department has a number of teaching assistantships and research assistantships available, and students may also apply for University fellowships.

FACULTY:

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

Susan Cassels, PhD, Demography, Princeton University, Assistant 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 — 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, Assistant 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

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, Associate 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 — Urban and regional modeling and planning, human migration, local economic development/policy, and spatial point process models of economic activity

Waldo Tobler, PhD, Geography, University of Washington, Seattle, Professor Emeritus — Cartography, computational geography

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

UNIVERSITY OF REDLANDS

MS GIS PROGRAM

DATE FOUNDED: January 2002

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

START DATES: September & January

PROGRAM DIRECTOR: Prof. Douglas M. Flewelling

PROGRAM COORDINATOR: Ms. Andrea Barrios

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: lwu@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 major option programs in geography in the department: Geographic Information Systems, Environmental Geography, and Geography. 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 quarter 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-Gomez, Ph.D., University of Florida, 2004, Associate Professor — Latin America, biogeography, human geography, geographic information systems, natural resource conservation

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

Jeanne Marshall, MA., Cal State Fullerton, 1998 — cultural, California

Nikita Prajapati, MA, Cal State Long Beach, 2016 — cultural, physical, world regional, California

Stephen H Sandlin, Ph.D., UC-Riverside, 1997 — cultural, physical, world regional, California

UNIVERSITY OF SOUTHERN CALIFORNIA

SPATIAL SCIENCES INSTITUTE

DATE FOUNDED: 2010

DEGREES OFFERED: B.S., GeoDesign; Minor, Spatial Studies; Minor, Human Security and Geospatial Intelligence; M.S., Geographic Information Science and Technology (online); M.S., Spatial Informatics; Graduate Certificate, Geographic Information Science and Technology (online); Graduate Certificate, Geospatial Intelligence (online); Graduate Certificate, Geospatial Leadership (online); Graduate Certificate, Spatial Analytics; Ph.D., Population, Health and Place.

GRANTED 9/1/2015-08/31/16: 55 M.S. (GIST), 30 Graduate Certificates (GIST)

STUDENTS IN RESIDENCE: 46 B.S. (GeoDesign), 20 Minor (Spatial Studies), 25 minor (Human Security and Geospatial Intelligence), 11 M.S. (Spatial Informatics), 3 Ph.D. (Population, Health and Place)

STUDENTS NOT IN RESIDENCE: 102 M.S., 50 Graduate Certificate, Geographic Information Science and Technology, 18 Graduate Certificate, Geospatial Intelligence

DIRECTOR: John P. Wilson

MANAGING DIRECTOR: Susan Kamei

ACADEMIC PROGRAMS DIRECTOR: Kendrick Watson

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) 740-8298. Fax: (213) 740-9687. Web: <http://spatial.usc.edu/>.

PROGRAMS AND RESEARCH FACILITIES: The University of Southern California has recently embarked on an initiative 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 cast in terms of all the ways that geography (place, space, etc.) can be used to acquire, organize, represent, analyze, model, and visualize information. 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. The 200+ students in our online programs are provided with state-of-the-art geographic information technologies via dedicated virtual desktops and servers and residential students can access the 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 TerrSet geospatial monitoring and modeling software suite, 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, National Geospatial Intelligence Agency and United States Geological Survey Academic Center of Excellence, 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:

UNDERGRADUATE: Students already enrolled at the University of Southern California can major in GeoDesign and minor in Spatial Studies or Human Security and Geospatial Intelligence.

GRADUATE: An online M.S. degree is offered for students specializing in Geographic Information Science & Technology and Graduate Certificates are offered for students specializing in Geographic Information Science & Technology, Geospatial Leadership, and Geospatial Intelligence. 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 M.S. degree and three aforementioned Graduate Certificate programs all three semesters. Students interested in the M.S. degree in Spatial Informatics (SPIF) which is offered jointly by the Department of Computer Science and

the Spatial Sciences Institute should apply through the Department of Computer Science. Students are admitted to the SPIF M.S. degree 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 offered jointly by the Departments of Preventive Medicine and Sociology and the Spatial Sciences Institute. 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:

Yao-Yi Chiang, Ph.D., University of Southern California, 2010, Assistant Professor (Research) — geospatial data integration, digital map processing, graphics recognition, pattern recognition, image processing

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

Karen K. Kemp, Ph.D., University of California Santa Barbara, 1992, Professor of the Practice of Spatial Sciences — spatial analysis, environmental modeling, GIS for the humanities, GIS professional competency

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

Travis Longcore, Ph.D., University of California Los Angeles, 1999, Assistant Professor of Architecture, Spatial Sciences and Biological Sciences — urban bioresource management, conservation planning, ecological light pollution, endangered species

Laura C. Loyola, Ph.D., University of Southern California, 2015, Lecturer — GIS, human and evolutionary biology, anthropology, remote sensing

Katsuhiko (Kirk) Oda, Ph.D., Texas A&M University, 2011, Lecturer — spatial thinking, GIS education, GIS, walkability, spatial cognition

Darren Ruddell, Ph.D., Arizona State University, 2009, Assistant Professor (Teaching) and Director of Undergraduate Studies — 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

Robert O. Vos, Ph.D., University of Southern California, 1999, Assistant Professor (Teaching) — 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, 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 (Department of 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*
- Thomas Garrison, Ph.D., Harvard University, 2007, Assistant Professor (Teaching) (Department of Anthropology) — GIS, remote sensing, Maya and Mesoamerican archaeology, landscape archaeology*
- Yolanda Gil, Ph.D., Carnegie Mellon University, 1992, Research Professor and Associate Director of Informatics 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*
- Jennifer Hook, Ph.D., University of Washington, 2006, Associate Professor (Sociology) — family demography, gender, inequality, work-family, social policy, child welfare, comparative sociology*
- Matthew E. Kahn, Ph.D., University of Chicago, 1993, Professor (Economics) — environmental economics, economic development, sustainability, climate change, urban growth*
- Craig A. Knoblock, Ph.D., Carnegie Mellon University, 1991, Professor (Research) (Computer Science) and Director of Information Integration, Information Sciences Institute — data extraction from the Web, information gathering, artificial intelligence*
- Lon Kurashige, Ph.D., University of Wisconsin, Madison, 1994, Associate Professor (Department of History) — Asian-American history, emigration/immigration, racial ideologies, ethnic identity politics.*
- Vanessa Osborne, Ph.D., University of California, Irvine, 2007, Writing Lecturer (Writing Program) — 20th Century American literature, popular culture.*
- Ann Owens, Ph.D., Harvard University, 2012, Assistant Professor (Department of Sociology) — spatial analysis, quantitative analysis, urban sociology, social stratification, social policy*
- Nathan Perl-Rosenthal, Ph.D., Columbia University, 2011, Assistant 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*
- Cyrus Shahabi, Ph.D., University of Southern California, 1996, Professor and Interim Chair, Department of Computer Science (Departments of Computer Science and Electrical Engineering) — databases, GIS, multimedia*
- Kelly Shannon, Ph.D., Katholieke Universiteit Leuven, Professor and Director (Master of Landscape Architecture Program) — interpretive mapping, projective cartography, urbanism, landscape*
- Emily Smith-Greenaway, Ph.D., Penn State University, 2014, Assistant Professor (Sociology) — demography, infant and child mortality, African studies, health services*
- Tatiana Tatarinova, Ph.D., University of Southern California, 2006, Associate Professor (Research Pediatrics) — biogeography, bioinformatics, computational genomics, statistical modeling, genome annotation*

COLORADO

UNITED STATES AIR FORCE ACADEMY

DEPARTMENT OF ECONOMICS AND GEOSCIENCES

DATE FOUNDED: 1964

DEGREES OFFERED: B.S.

GRANTED 9/1/16-5/31/17: 29

MAJORS: 108

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: Steve.Gordon@usafa.edu.

Internet: <https://www.usafa.edu/departments/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, represent, and process relevant geospatial data, 3) Apply analytical models to interpret and explain the patterns, processes, and interrelationships represented by geospatial data, and 5) Assess and present results of geospatial analysis.

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

Eric J. Cercone, M.S., Naval Postgraduate School, 2007, Assistant Professor and Director of Meteorology — meteorology, GIS, climatology

Justin D. Cook, M.A., University of Colorado, 2015, Instructor — population geography, human geography, GIS, geopolitics

Steven J. Gordon, Ph.D., Arizona State University, 1999, Associate Professor and Director of Geosciences — geomorphology, GIS, rock weathering, microclimatology

Carl Frohman, M.A., University of Minnesota, 2001, Instructor — Asian geography, international relations, military geography

Terrence W. Haverluk, Ph.D., University of Minnesota, 1993, Professor — cultural geography, historical geography, North America, geopolitics

Thomas L. Koehler, Ph.D., University of Wisconsin, 1979, Associate Professor — synoptic and mesoscale meteorology, satellite meteorology

David Manhire, M.A., Ohio University, 1998, Instructor — population geography, human geography, geopolitics, regional geography

Evan Palmer, Ph.D., Arizona State University, 2014, Assistant Professor — GIS, geospatial thinking, mapping

Daniel Portillo, B.S., Lamar University, 1982, GIS Specialist/Cartographer — computer cartography, GIS, remote sensing

Sarah E. Robinson, Ph.D., Arizona State University, 2002, Assistant Professor — desert geomorphology, remote sensing, geochronology

Joseph Rozak, M.S., Naval Postgraduate School, 2009, Instructor — meteorology, GIS, climatology

Patricia Vollmer, M.S., Air Force Institute of Technology, 2002, Assistant Professor — geopolitics, meteorology, math, physics

UNIVERSITY OF COLORADO, BOULDER

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1927

GRADUATE PROGRAM FOUNDED: 1930

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

GRANTED 12/2015-05/2016: 76 Bachelors (UC Boulder only), 4 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 150 Majors, 23 Masters, 65 Ph.D.

NOT IN RESIDENCE: 12 Ph.D.

CHAIR: Emily Yeh

DEPARTMENT ADMINISTRATIVE ASST: Darla Shatto

FOR CATALOG AND UNDERGRADUATE APPLICATION

WRITE TO: Admissions Office, Attn: Catalog Order, Campus Box 7, University of Colorado, Boulder, Colorado 80309 (enclose \$10.00 check or money order for catalog). Financial Aid Office, Campus Box 106, University of Colorado Boulder, Colorado 80309.

For undergraduate and graduate program brochures write to: Department of Geography, Campus Box 260, 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. Write above addresses for information on admissions and financial aid.

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. Buttenfield, Ph.D. University of Washington, 1984, Professor — GIS modeling, cartographic generalization, scale, visualization

Carson Farmer, Ph.D. National University of Ireland, Maynooth, 2011, Assistant Professor — computational GIScience, spatio-temporal dynamics, spatial analysis methods in data-intensive/big data research, open source software, transportation

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

Najeeb Jan, Ph.D. University of Michigan, 2009, Assistant Professor — political Islam, Pakistan and contemporary Muslim world, security, sovereignty and militarization

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

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

John Pitlick, Ph.D. Colorado State University, 1988, Professor — surface water hydrology, fluvial geomorphology, water resources

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

Mark W. Williams, Ph.D. UC-Santa Barbara, 1990, Professor — hydrology, snow hydrology, alpine biogeochemistry, water chemistry, snow chemistry

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, Environmental Studies and CIRES

Paul Lander, Adjunct Assistant Professor

John Lenters, Adjunct Professor

Tania Schoennagel, Adjunct Assistant Professor, INSTAAR

Gregory Simon, Adjunct Associate Professor

EMERITI FACULTY:

Roger G. Barry — climatology (mountain and polar regions, synoptic, climate change), snow and ice

Nelson Caine — hydrology, geomorphology

Susan W. Beatty — plant ecology, biogeography, soils, disturbance effects on landscape

Kenneth A. Erickson — cultural, cartography, Russia, conservation

Kenneth E. Foote — American and European landscape history, computer techniques and Internet applications, learning and teaching geography in higher education

Andrei Rogers — population, migration

Konrad Steffen — remote sensing, climatology; Director, Cryospheric and Polar Processes Division, Cooperative Inst. for Research in Environmental Sciences

UNIVERSITY OF COLORADO, COLORADO SPRINGS

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

DATE FOUNDED: 1973

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

GRANTED 8/20/2015-5/20/2016: 40 Bachelors; 4 M.A.

STUDENTS IN RESIDENCE: 260 Majors; 18 M.A.

CHAIR: Curt Holder

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: cholder@uccs.edu.

PROGRAMS AND RESEARCH FACILITIES: The University of Colorado at Colorado Springs is a growing campus of approximately 11,200 students located along the Colorado Front Range. The Department of Geography and Environmental Studies offers a B.A. in Geography and Environmental Studies and an M. A. in Applied Geography. Areas of emphasis in the department are physical systems;

human and cultural dynamics; environmental and sustainability studies; and geospatial techniques.

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 goal of the program is to provide graduate level education that enables students to address community concerns through applied geographic research. Graduates of this M.A. program will have an understanding of and appreciation for the interactions between the human and natural world; skills to synthesize, analyze, and evaluate diverse social and physical information; ability to conceptualize spatial relationships for problem solving; and communication skills to clearly present solutions or recommendations. 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); complete the GRE General Test; provide 3 letters of recommendation; and provide two copies of official transcripts from all institutions attended.

Students may complete either a thesis option or a non-thesis option for the M.A. in Applied Geography. The department strongly encourages students to fulfill the thesis option that consists of 24 credits of coursework and 6 credits of thesis. All students must take GES 5770: History and Nature of Geography during their first fall semester and GES 5010: Seminar in Geographic Research during the subsequent spring semester.

For more information, please see our departmental web page at <http://www.uccs.edu/geography/>. Follow the MA Program links. Also, you may contact David Havlick, Graduate Director at (719) 255-4906 or dhavlick@uccs.edu.

FACULTY:

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, Assistant 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 and Chair — ecohydrology, human-environment interactions, Latin America
Thomas P. Huber, Ph.D., University of Colorado, 1980, Professor — geomorphology, remote sensing, Colorado/mountain environments
Steven Jennings, Ph.D., University of California, Davis, 1989, Associate Professor — biogeography, geography education, mountain environments
Emily Skop, Ph.D., Arizona State University, 2002, Professor — urban, population, ethnic
Rebecca Theobald, Ph.D., University of Colorado, 2007, Assistant Research Professor — urban governance and public services, geography education, community geography
Brandon Vogt, Ph.D., Arizona State University, 2007, Associate Professor — geomorphology, GIS, rock weathering, geovisualization

Eric Billmeyer, M.A., University of Colorado, 2004, Senior Instructor — fluvial geomorphology, restoration, sedimentology, geospatial tools

George Bolling, M.A., University of Northern Colorado, 1980, Senior Instructor — geomorphology, glaciations

Carole J. Huber, M.A., University of Colorado, 1992, Senior Instructor — world regional, sustainability, sense of place

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

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 Sciences, M.A. in Applied Geography and Geo-Spatial Science

GRANTED 9/1/15–8/31/16: 41 B.A. in Geography, 22 M.S. in E.S.

STUDENTS IN RESIDENCE: 179 Majors, 51 Masters

CHAIR: Deborah Thomas

DEPARTMENT PROGRAM ASSISTANT: Sue Eddleman

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Samantha Maslak

FOR CATALOG AND UNDERGRADUATE APPLICATION

SEE: 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: 303-556-2276. Fax: 303-556-6197. 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 Geo-Spatial Science. The department also offers a Certificate in GISci, a Certificate in Sustainable Urban Agriculture, and a Certificate in Environmental Science Education. Department research strengths are in both human and physical geography, though the faculty coalesces 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 geo-spatial science laboratory 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:

Casey Allen, Ph.D., Arizona State, 2008, Associate Professor — biogeomorphology, human-environment interaction, geography and science education, Latin America and the Caribbean

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, 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

Matthew Cross, M.S., Instructor — 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 — geosciences, Global Positioning System, active tectonics of the Caribbean region

Daniel Liptzin, Ph.D., Colorado Boulder, 2007, Sr. Instructor — terrestrial biogeochemistry, coupled nutrient cycles, ecosystem responses to environmental change

Rafael Moreno-Sanchez, Ph.D., Colorado State, 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, cultural landscape studies, urban geography

Gregory Simon, Ph.D., Washington, 2007, Associate Professor — environmental governance, political ecology, science studies, political economy of development, environmental history, India, US West

Deborah S.K. Thomas, Ph.D., South Carolina, 1999, Professor — environmental hazards and disasters, health geography, GIS, environmental health

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

John Wyckoff, Ph.D., Utah, 1980, Associate Professor — landscape ecology/biogeography, environmental remote sensing, GIS

EMERITI FACULTY:

Wes LeMasurier, Ph.D., Stanford, 1965 — igneous petrology, volcanology, volcanic geology of Antarctica

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); and B.A., B.S. in Environmental Science

GRANTED 9/1/14-8/31/15: 43 Bachelors (Geography), 11 Bachelors (Environmental Science), 22 Masters, Ph.D.

GEOGRAPHY STUDENTS IN RESIDENCE: 49 Majors, 9 Masters, 12 Ph.D.

NOT IN RESIDENCE: 75 Masters

ENVIRONMENTAL SCIENCE STUDENTS IN RESIDENCE: 88 Majors

CHAIR: Michael Keables

DEPARTMENT ASSISTANT TO THE CHAIR: Nicole Chauvet

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 — 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 Associate Professor — hydrology, watershed biogeochemistry, physical geography, water resources, conservation
Helen Hazen, Ph.D., University of Minnesota-Twin Cities, 2006, Teaching Assistant 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, Assistant Professor — geovisualization, spatiotemporal data modeling, high performance geocomputation, web-based GIS

Nyantakyi-Frimpong, Hanson, 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, Associate Professor and Director of Graduate Studies — Latin America, political ecology, development

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

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

CONNECTICUT

CENTRAL CONNECTICUT STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1969

GRADUATE PROGRAM FOUNDED: 1964

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

Sustainability

GRANTED 9/1/14-8/31/15: 44 Bachelors: 3 Masters

STUDENTS IN RESIDENCE: 182 Majors, 63 Masters

NOT IN RESIDENCE: 32 Masters

CHAIR: Richard W. Benfield

DEPARTMENT SECRETARY: Diane Cannata

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Richard Benfield, 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: benfieldr@ccsu.edu. Internet: www.geography.ccsu.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Major in geography with a specialization in urban and regional planning. Also, major in geography with one of the following tracks: (1) physical/environmental, (2) geographic education, (3) geographic information science, (4) tourism, (5) general/regional, (6) planning, and (7) hospitality/tourism. Many paid internships available. Coop education program also available.

GRADUATE: Custom-designed programs to fit the needs of individual students. See undergraduate programs for areas of specialization. Please call for information about graduate assistantships. Facilities: Fully-equipped GIS, cartography and air photo interpretation labs. Our network includes 36 computers, plus digitizers, scanners, black/white, color laser printers and one plotter. We have 25,000 sheets in our U.S. Federal Government Map Depository collection. Scholarship: Timothy J. Rickard Scholarships for Geography Majors.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Undergraduate GPA of 2.7 or higher required for admission to graduate program; GRE not required. TOEFL score of 550 or higher required for those whose native language is not English. A limited number of Graduate assistantships are available. Call or write for further information.

FULL-TIME FACULTY:

Richard W. Benfield, Ph.D., Oklahoma, 1998, Professor and Chairperson — Tourism, recreation, Europe, Russia & N.I.S
Charles Button, Ph.D., Cincinnati, 2003, Professor — Water resources, Environmental and Physical Geography
Timothy J. Garceau, Ph.D., Connecticut, 2015, Assistant Professor — Urban & Regional Planning, Transportation Planning, Urban Geography, Human Geography, Conservation, Historic Preservation
Peter A. Kwaku Kyem, Ph.D., Clark University 1997, Professor — Resource/Environmental/Physical Geography, GIS, Map reading and Sub-Saharan Africa
Yunliang Meng, Ph.D. Western Ontario, 2010, Assistant Professor — GIS
Cynthia Pope, Ph.D., Arizona, 2002, Professor — Medical geography, Gender, Latin America
William R. Price, Ph.D., Kansas, 2014, Assistant Professor — Tourism, Oceania
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 and planning, historic preservation, geography of wine

EMERITUS FACULTY:

Timothy J. Rickard, Ph.D., Kansas, 1974, Professor Emeritus — rural planning, Europe
James Snaden, Ph.D. Michigan, 1974, Professor Emeritus — human geography, Latin America, cartography
John E. Harmon, Ph.D., Boston, 1979, Professor Emeritus — GIS, transportation planning, field methods

PART-TIME FACULTY:

Michael Bonnard, M.A., Sacred Heart University, 1994, Lecturer — Tourism and hospitality
William A. DeGrazia, M.S., Western Connecticut, 1974, Lecturer — Introductory courses, teaching method
Randall Fiveash, M.A. pending, Eastern Kentucky University, Lecturer — Tourism

James Gambardella, M.A., Vermont, 1984, Lecturer — Air photo interpretation, soils and vegetation
Marwin Gonzalez, M.S., Central CT State University, 2012 — GIS
Angelina Kendra, Ph.D., Virginia Tech University, 2002, Lecturer — recreation and tourism
Laura Miller, M.S., Central Connecticut State University, 2012, Lecturer — Introduction to Geography
Donald Poland, Ph.D., University College London, M.S., Central Connecticut, 2000, Lecturer — Geography, comparative urbanism
Thomas E. Sherer, Jr., M.S., Central Connecticut, 1990, Lecturer — World Regional Geography, map reading and cartography
Dawn Tedesco, M.S., University of New Haven, 2009, Lecturer — Tourism and hospitality

MANCHESTER COMMUNITY COLLEGE

GLOBAL STUDIES DEPARTMENT

DATE FOUNDED: 1963

DEGREES OFFERED: A.A. or A.S. in Liberal Arts with an emphasis in Economics, Geography, History or Political Science; A.S. in General Studies

DEGREES GRANTED (Or Expected) 9/1/16 – 8/31/17:
~40-50 A.A. degrees in Liberal Arts or General Studies with an emphasis in the Global Studies Disciplines

CHAIR: Guocun Yang, Ph.D.

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Global Studies Department, MS#4, Manchester Community College, P.O. Box 1046, Manchester, CT 06045-1046. Telephone (860) 512-2760. Email: vkier@mcc.commnet.edu. Internet: manchestercc.edu

PROGRAMS AND RESEARCH FACILITIES: The Global Studies Department offers students the opportunity to pursue a Liberal Arts or General Studies degree with an emphasis in the disciplines of economics, geography, history or political science. If a student decides to further her education at one of Connecticut's State Universities, there are specific Transfer Programs in place (TAP) in each of these disciplines.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to any of the TAP programs in the Global Studies Department is the same as that for admission to the College. In addition to the College General Education requirements, any student working toward a TAP degree, is required to complete additional courses specific to the discipline. If the student is not fulfilling a TAP degree, Liberal Art and General Studies students are encouraged to choose courses that are consistent and supportive to the discipline of interest.

FACULTY:

Valerie R. Kier, Ph.D., Indiana University, 1997, Professor — economic geography, trade, quantitative methods, cultural geography

UNIVERSITY OF CONNECTICUT

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1976

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

GRANTED 09/01/15-08/31/16: 16 Bachelors, 2 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 27 Majors, 2 M.A., 24 Ph.D.

CHAIR: Ken Foote

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dean Hanink, Graduate Coordinator, Department of Geography, Unit 4148, 215 Glenbrook Road, Austin Building Room 422, University of Connecticut, Storrs, Connecticut 06269-4148. Telephone (860) 486-3656. Fax (860) 486-1348. E-mail: dean.hanink@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 on-campus 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 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; and the Connecticut State Data Center.

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) 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 & 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

Robert G. Cromley, Ph.D., Ohio State, 1978, Professor — location theory, GIScience, computer assisted cartography

Debanuj DasGupta, Ph.D., Ohio State, 2016, Assistant Professor — race, ethnicities, & place, feminist geography, mobilities & migration, geographies of sexualities, geographies of disabilities

Heidi Dierssen, 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 and Head — 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, Assistant 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, Assistant 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, Associate Professor — climate change, society and climate

Scott Stephenson, Ph.D., UCLA, 2014, Assistant Professor — GIS, environmental change, climate vulnerability, transportation, natural resources

Nathaniel S. Trumbull, Ph.D., Washington, 2006, Associate Professor — 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 — 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:

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 9/1/15-8/31/16: 50 Bachelors, 4 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 259 Majors (22 Geography, 135 Environmental Science, 86 Environmental Studies, 16 Meteorology and Climatology), 12 Masters, 10 Ph.D., 13 GIS Certificate

NOT IN RESIDENCE: 1 Masters, 3 Ph.D.

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. <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.

A recently crafted Ph.D. degree in Climatology, beginning Fall 2014, 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 SURA-Grid, 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.
Afton Clarke-Sather, Ph.D., University of Colorado, 2012, Assistant Professor — human dimensions of resource governance, particularly issues of water and climate
Tracy L. DeLiberty, Ph.D., Oklahoma, 1994, Associate Professor — climatology, sea ice, GIS, remote sensing
Cathleen A. Geiger, Ph.D., Dartmouth, 1996, Research Associate Professor — climatology, mechanics, kinematics, and dynamics of sea ice, cryosphere, polar regions
Brian Hanson, Ph.D., 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
Daniel J. Leathers, Ph.D., Pennsylvania State, 1988, Professor and Delaware State Climatologist — snowfall and snow cover studies, cryosphere, atmospheric dynamics, hydroclimatology, microclimate

David R. Legates, Ph.D., 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. Levia, Ph.D., Clark University, 2000, Professor and Chair — biometeorology, ecohydrology, biogeochemistry, field methods and instrumentation, environmental management

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., 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:

Anne Dienert, M.Ed., Delaware, 1990, Delaware Geographic Alliance, Office Manager & Elementary School Manager — geographic education
Mary Schorse, Ph.D., Delaware, 2015, Delaware Geographic Alliance, Secondary & High School Manager — geographic education
Kenji Matsuura, Ph.D., Delaware, 1992, Geographic Programmer/Analyst — climatology, database management, computer applications

AFFILIATED FACULTY:

David L. Ames, Ph.D., Clark, 1969, Professor (joint appointment with Urban Affairs and Public Policy) and Director of the Center for Historic Architecture and Engineering — historic preservation, urban geography, urban and regional planning
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
Melinda Daniels, Ph.D., University of Illinois, 2003, Associate Research Scientist (affiliated appointment with Stroud Water Research Center) — fluvial geomorphology
Terri Lavin, Ph.D., University of Delaware, 1996, Adjunct Assistant Professor — climatology
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
Michael A. O'Neal, Ph.D., Washington, 2005, Associate 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, Assistant 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

Amy T. Smith, Ph.D., University of Delaware, 1995, Adjunct Assistant Professor — Conservation, resources and economic geography

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

Niem Huynh, AAG Research Fellow

Jolene Keen, Research Associate

Oscar Larson, Conference Director

Michelle Ledoux, Membership Director

Candice Luebbering, Senior Research Geographer

Robin Maier, Journals Production Editor (The Professional Geographer)

Candida Mannozi, Deputy Director of Operations

Teri Martin, Director of Finance

Reacha O'Neal, Administrative Assistant

Becky Pendergast, Director of Design and Digital Products

Mark Revell, Workforce Development Specialist and Editor, AAG Guide

Douglas Richardson, Executive Director

Michael Solem, Senior Advisor for Geography Education

Kelsey Taylor, Research and Conference Assistant

Yonette Thomas, Senior Advisor

Elin Thorlund, Research Assistant

John Wertman, Senior Program Manager for Government Relations

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. <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 11,000 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 Boston, Massachusetts in April, 2017, over 6,900 research papers, interactive short papers, and illustrated papers were presented on numerous topics by more than 9,000 geographers who attended. The AAG's 2018 Annual Meeting will be held from April 10-14, 2018 in New Orleans, Louisiana. Professor Glen MacDonald of University of California, Los Angeles currently serves as president of the AAG. Professor Derek Alderman of University of Tennessee is vice president. Professor Sarah Bednarz of Texas A&M University is immediate past president. Additional details regarding AAG history and operations are contained in the AAG Handbook, available at <http://aag.org/guide>.

STAFF:

Julio Arguello, Social Media and Website Content Manager

Jennifer Cassidento, Publications Director

David Coronado, Communications Director

Colleen Dougherty, IT Director

Liza Giebel, IT Support Specialist

GEORGE WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

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

GRANTED 9/1/15-8/31/16: 60 Bachelors, 11 Masters

STUDENTS IN RESIDENCE: 120 Majors, 27 Masters

CHAIR: Lisa Benton-Short

DEPARTMENT ADMINISTRATIVE ASST: Andrii Berdnyk

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Chairman, Department of Geography, 1922 F St. NW, Office 232, 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, and the Middle East
Lisa M. Benton-Short, Ph.D., Syracuse University, 1997, Associate Professor and Chair of Geography — Urban Geography, Environmental Issues
Nuala Cowan, D.Sc., The George Washington University, 2013, Assistant Professor of Geography — GIS for Emergency Management, Open Geospatial Data for Disaster Preparedness
Elizabeth Chacko, Ph.D., UCLA, 1997, Associate Professor of Geography — Population, Cultural and Urban Geography, South Asia
Joseph P. Dymond, M.S., Louisiana State University, 1999, M.S., Pennsylvania State University, 1994, Professorial Lecturer of Geography — Human, Political, and Latin American Geography
Ryan Engstrom, Ph.D., San Diego State University, 2005, Associate Professor of Geography — Physical Geography, Remote Sensing
Melissa Keeley, Ph. D., Technical University of Berlin, 2007, Assistant Professor of Geography — Urban Environmental Geography, Green Infrastructure, Environmental Policy
Michael Mann, Ph.D., Boston University, 2011, Assistant Professor of Geography — Spatial Modeling and Prediction, Land Use Change, Wildfire, and 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
Wesley Reisser, Ph.D., UCLA, 2009, Professorial Lecturer in Geography — Political Geography, Energy
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, Assistant Professor of Geography — Climate Change, Arctic Environments, Geography of Russia, Periglacial Geomorphology, and GIS
Qin Yu, Ph.D., University of Virginia, 2012, Professorial Lecturer of Geography — Arctic Environments and Remote Sensing

TECHNICAL STAFF:

Richard Hinton, MGIS, Pennsylvania State University, 2014, Lecturer of Geography — Cartography, Geographic Information Systems, and 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.

NATIONAL COUNCIL FOR GEOGRAPHIC EDUCATION

DATE FOUNDED: 1915

CHIEF EXECUTIVE OFFICER: Zachary R. Dulli

FOR FURTHER INFORMATION ABOUT NCGE PLEASE

CONTACT: The National Council for Geographic Education, 1775 I Street NW, Suite 1150, Washington, D.C. 20006-2402. Telephone: 202-587-5727. Fax: 202-618-6249. E-mail: ncge@ncge.org Internet: www.ncge.org

PROGRAMS AND RESEARCH FACILITIES: The National Council for Geographic Education is a nonprofit membership organization that works to strengthen the quality and effectiveness of geography teaching and learning. NCGE provides a global forum for educators of all levels to exchange ideas and engage in professional learning opportunities to improve their geography teaching practice. We provide the organizational structure needed to advance research in geography education. We publish journals, the National Geography Standards, and a variety of materials for diffusing research and best practices on geography education. We recognize exceptional educators and supporters in geography education. We lead and support a variety of educational and creative programs to support our members and advance global literacy.

STAFF:

Zachary R. Dulli, Chief Executive Officer
Melissa Lepak, Events Coordinator
Allison Hunt, Webinar Coordinator
Hanna Duke, Accountant

OFFICERS:

Gary M. Gress, President
Ellen J. Foster, Past-President
Audrey Mohan, President-Elect
Jeff Lash, Treasurer
Jane Purcell, Recording Secretary
Zachary R. Dulli, Chief Executive Officer
Ram Balasubramanian, Director
Seth Dixon, Director
Erin H. Fouberg, Director
Kenneth H. Keller, Director
Charles Regan, Director

EDITOR, JOURNAL OF GEOGRAPHY:

Jerry T. Mitchell, Editor

EDITOR, THE GEOGRAPHY TEACHER:

Rebecca Theobald, Editor

PATHWAYS PUBLICATION SERIES: (Partial List)

Bauman, Paul R., 2004. The American Landscape from the Air: Studying US Geography with Aerial Photography
Bednarz, Robert S. (Editor), 2004. A Teacher's Guide to Advanced Placement Geography: Essays, Strategies, and Resources
Bock, Judith A., 2004. Grades 5-8 Standards Based Lesson Models
Dahmann, Donald D., 2011. Geography in America's Schools, Libraries, and Homes
Estaville, Lawrence E., 2014. Teaching Ethnic Geography in the 21st Century
Estaville, Lawrence E., 2011. Geography Undergraduate Programs: Pathways to Success
Fraser, Celeste, 2002. Grades K-4 Standards Based Lesson Models
Gersmehl, Phil., 1996. The Language of Maps
Marcello, Jody S., 2007. Teaching Map Skills: An Inductive Approach
Rice, G.H. and Bulman, T.L., 2001. Fieldwork in the Geography Curriculum: Filling the Rhetoric-Reality Gap

Walk, Fred, 2003. *Grades 9-12 Standards Based Lesson Models*

Applied Teaching Materials (ATMs) and Applied Research Materials (ARMs) PUBLICATION SERIES:

Marcello, Jody S., 2011. *AP Human Geography*

Thomson, Herb, 2011. *A Geographic View of World History*

OTHER PUBLICATIONS:

Stuart Sinton, Diana, 2013, *The People's Guide to Spatial Thinking*

Elbow, Gary S., Rutherford, David J. and Shearer, Christopher (Editors) *Geographic Literacy in the United States: Challenges and Opportunities in the NCLB Era*

The National Council for Geographic Education is the outlet for *Geography for Life: National Geography Standards (2012)* on behalf of the Geographic Education National Implementation Project (GENIP).

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.

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

Laura Cline, M.A. Geography, 2004, B.A. International Affairs, 2002, *The George Washington University; Humanitarian Information Unit, National Geospatial-Intelligence Agency Support Team*

Sydney A. Cross, M.A. Political Science, Howard University, 2012; B.A. International Affairs, Trinity Washington University, 2010; *Foreign Affairs Analyst, Multilateral and Transnational Issues and Human Rights Division*

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*

Aaron M. Ferreira, M.A. International Studies, University of Denver, 2011; B.A. International Studies, University of South Carolina, 2006; *Analyst- Conflict and Stabilization Operations, Civilian Security*

Christine Fellenz, B.A., University of Wisconsin-Parkside, 1996; *Cartographer, Humanitarian Information Unit*

Timothy Fitzgibbons, MSc. Development Studies, London School of Economics, 2005, A.B. Government and Asian Studies, 1997, Dartmouth College; *Chief, Multilateral and Transnational Issues and Human Rights Division*

Debbie Fugate, PhD Geography, San Diego State University and the University of California, Santa Barbara, 2008; MA Geography, San Diego State University, 2003; BA Geography, San Diego State University, 2001. *Deputy Office Director and Humanitarian Information Unit Chief*

Kimberly Garner, B.A. in Russian, University of Tennessee, 1991, *Executive Officer, National Geospatial-Intelligence Agency Support Team.*

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.*

Meredith L. Gore, PhD, *Natural Resource Policy and Management, Cornell, 2006; MS Environment and Resource Policy, George Washington University, 2001; BA Anthropology and Environmental Studies, Brandeis University, 1999. Jefferson Science Fellow - Human dimensions of natural resource management, conservation criminology, environmental risk*

Nathan J. Heard, D.Scs, 2009 and MSc, 2003 – *Harvard School of Public Health; B.A. Connecticut College, 1995; Humanitarian Information Unit, Public Health Analyst – medical geography and HIV/AIDS*

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. Lainuri, 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; *Deputy Director, Humanitarian Information Unit*

David H. Linthicum, M.A. University of Kansas, 1984; B.S. University of MD – *International boundary delineation*

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 – International Organizations; Atrocities 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

Jonathan K. Simmons, Lieutenant Colonel, US Army; M.A. International Relations, Rice University, 2015; M.A. National Security and Strategic Studies, US Naval War College, 2010; M.S. Geology and Geophysics, Missouri University of Science and Technology 2001; B.S. Geophysics, Virginia Polytechnic Institute and State University 1995; Department of Defense Liaison/Analyst-Humanitarian Information Unit

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

Rhys A. Young, B.A., Geography, George Washington University, 2016; Cartographer, Humanitarian Information Unit

Ashley B. Zung, Ph.D., Geography, University of Kansas, 2013; M.A., Geography, University of Kansas, 2008; B.S., Journalism, University of Kansas, 1998; B.A., Communication Studies, University of Kansas, 1998; Food Security Analyst — food security, environmental issues, and humanitarian issues in Africa

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: Dominic Lomando

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 majors 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
- Young Rae Choi, Ph.D., Ohio State University, 2015, Assistant Professor [GEO]* — Marine and coastal governance, political ecology, East Asia
- Peter Craumer, Ph.D., Columbia University, 1988, Associate Professor [GEO]* — Russia and former Soviet Union, rural geography, agriculture, and population change
- 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 problem, stratification
- Hugh Gladwin, Ph.D., Stanford University, 1970, Associate Professor [ANT]* — Economic and cognitive anthropology, public opinion research, research methods; West Africa, Mesoamerica
- 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
- Abraham Lavender, Ph.D., University of Maryland, 1972, Professor [SOC]* — Ethnicity and minority groups, Sephardic studies, Crypto-Jewish studies, social deviance, human sexuality, urban sociology; South Florida
- 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
- Marifeli Perez-Stable, Ph.D., State University of New York-Stony Brook, 1985, Professor [SOC]* — Latin America, Cuba and the Caribbean, political sociology, historical sociology, public intellectuals, national reconciliation, human rights
- 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 Tardanico, 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 8/31/2004-3/31/17: 32 M.A., 142 M.S. 52 Ph.D.

STUDENTS IN RESIDENCE: 266 Majors, 35 Masters, 34 Ph.D.

CHAIR: James B. Elsner

GRADUATE DIRECTOR: Victor Mesev

DEPARTMENT ADMINISTRATIVE ASST: Audrey Nichols

FOR FURTHER INFORMATION: Graduate School (www.gradschool.fsu.edu) and Geography Graduate Director, Dr. Victor Mesev (850-645-5913, vmesev@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 \$17,340-\$19,840 per academic year, plus tuition waiver. Other sources of funding include research assistantships, university fellowships, online mentoring, and internships with local and state institutions.

FACULTY:

Adam Bledsoe, Ph.D., North Carolina-Chapel Hill, 2016, Assistant Professor — black geographies, race & ethnicity, social justice, Latin America
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
David Folch, Ph.D., Arizona State, 2012, Assistant Professor — GIS, geocomputation, spatial analysis, urban geography
Mark Horner, Ph.D., Ohio State, 2002, Professor — GIS, transportation, spatial analysis, urban geography
Mary Lawhon, Ph.D., Clark, 2011, Assistant Professor — political geography, urban political ecology, waste, African urbanism
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 & Graduate Director — GIS, remote sensing, cartography, urban analytics
Stephanie Pau, Ph.D., UCLA, 2009, Assistant Professor — biogeography, remote sensing, tropical forests, c4 grasses, climate change
Joseph Pierce, Ph.D., Clark, 2011, Assistant Professor — urban geography, political geography, urban sustainability, qualitative methods
Christopher Uejio, Ph.D., Wisconsin-Madison, 2011, Assistant Professor — public health, medical geography, climate change, vulnerability
Willie Wright, Ph.D., North Carolina-Chapel Hill, 2017, Assistant Professor — black geographies, race & ethnicity, social justice, ecocriticism
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
George Cole, Ph.D., Florida State, 2007 — land survey methods, GPS
Madeleine Hart, M.S., Florida State, 2012 — GIS, water resources
Catherine Howard, Ph.D., Walden, 2010 — medical geography, epidemiology, public health
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
Scott Weisman, M.S., Florida State, 2007 — GIS, local government

UNIVERSITY OF FLORIDA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1941

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.A., B.S., B.S. in Environmental Geosciences, B.A. and B.S. in Medical Geography in Global Health, M.A., M.S., Ph.D.

STUDENTS IN RESIDENCE: 81 Majors, 11 Masters, 39 Ph.D.

CERTIFICATES: Geospatial Information Analysis, Digital Geography & GIS, Meteorology and Climatology, Applied Atmospheric Sciences

CHAIR: Jane Southworth

DEPARTMENT ADMINISTRATIVE ASST: Desiree Price

FOR CATALOG AND FURTHER INFORMATION CONTACT:

Dr. Cynthia Simmons email: csimmons@ufl.edu, Graduate Coordinator or Desirée Price dprice@ufl.edu, Graduate Secretary, 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 (MGGH). 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.

- (a) 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.
- (b) 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.
- (c) Regional and Global: Economic, Political, Demographic, and Social Change - The world in 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 \$16,800 plus tuition waiver for the nine month academic year and at about \$2,600 for a 6-week summer semester. A limited number of fellowship awards for highly qualified applicants may carry stipends of \$25,000. 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:

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, D.Phil, 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

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

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

Sadie J. Ryan, Ph.D., California-Berkeley, 2006, Assistant Professor — medical, biogeography, spatial and ecological aspects of disease transmission, Africa, Antarctica, North America

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 Soumy-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 and Associate Dean of the College of Liberal Arts and Sciences — hydrology, quantitative methods, water resources

EMERITI FACULTY:

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, ethnoecology, Amazonia

AFFILIATED FACULTY:

Kevin Ash, Ph.D., University of South Carolina, 2015, Postdoctoral Researcher, NCAR — Climatology, Hazards, Risk, Human-environmental interactions, GIS

Holly Donohoe, Ph.D., Carleton University, 2009, Assistant Professor, University Librarian, and Head, Map Library — map interpretation, geographical bibliography, biotic resources

Heidi Lannon, Ph.D. Florida 2005, Professor, Santa Fe Community College — Geomorphology, Hydrology, Physical Geography, Geographic Education, Africa, North America

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

UNIVERSITY OF SOUTH FLORIDA

SCHOOL OF GEOSCIENCES

DATE FOUNDED: 2013 (1965 for former Department of Geography)

DEGREES OFFERED: B.A., M.A., in Geography, B.S., M.S. in Environmental Science and Policy, Ph.D. in Geography and Environmental Science & Policy, B.A., B.S., M.S., Ph.D. in Geology.

GRANTED 2016/2017: Geography/ESP: 170 Bachelors, 16 Masters, 5 Ph.D.; Geology: 12 Bachelors, 4 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE (All School Programs)

2016/2017: 700 Majors, 45 Masters, 94 Ph.D.

CHAIR: Mark Rains, Ph.D.

ASSOCIATE CHAIR: Joni Firat, Ph.D.

DEPARTMENT OFFICE ADMINISTRATOR: Mandy K. Stuck

ADDITIONAL INFORMATION: School of Geosciences, College of Arts and Sciences, University of South Florida, 4202 E. Fowler Ave., NES107, Tampa, Florida 33620. Telephone (813) 974-2236. Fax (813) 974-4808. Internet: <http://hennarot.forest.usf.edu/main/depts/geosci/>

GEOGRAPHY AND ENVIRONMENTAL SCIENCE & POLICY

PROGRAMS AND RESEARCH FACILITIES: Geography is a diverse and intellectually vibrant program within the School that is committed to excellence in geographic research and scholarship, as well as student success at both the undergraduate and graduate levels. Research opportunities and course offerings emphasize three major themes: 1) human geography, 2) environmental geography, and 3) GIScience and spatial analysis. Faculty and students conduct research on a wide range of issues and problems in local and international contexts, including urban and environmental geographies of Tampa Bay, remote sensing of natural and social environments, health/medical geography, water resources, wildlife ecology, natural hazards, and international development and planning.

The mission of the Environmental Science and Policy program is to conduct basic and applied research; provide exceptional, quality education and professional development opportunities at the undergraduate and graduate levels; and serve the region, community, and the university. Teaching and research themes focus on: 1) environmental processes and policy, 2) environment, sustainable communities, and water issues, 3) globalization and international development, and 4) urban and regional development and planning. Programs in this division maintain a strong international focus and undertake research in many settings in North America and throughout the world, particularly Africa, the Middle East, Europe, and Latin America. These programs also encourage engaged teaching and scholarship within communities and has strong connections with community partners in the Tampa Bay region and many other locations around the world.

The Department offers the B.A. and M.A. in Geography, the B.S. and M.S. in Environmental Science and Policy, and the Ph.D. in Geography and Environmental Science and Policy, in addition to Graduate Certificates in GIS, Urban Studies, and Environmental Management. For information on graduate programs in Geography and in Environmental Science and Policy, please contact Dr. Kamal Alsharif, 813-974-4883, kalshari@usf.edu.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University of South Florida operates on a two semester academic year and three overlapping summer sessions.

Undergraduate: Freshmen: 3.0 High School GPA with 19 academic units; 2.5-2.9 with 900 SAT; 2.0-2.5 GPA with 1050 SAT. Juniors/Seniors: AA degree or 60 college credits with 2.0 or better GPA and satisfaction of foreign language requirement.

Graduate: Admission to the Master's and Ph.D. programs requires a GPA of at least 3.0 in the final two years of undergraduate preparation and the submission of GRE scores. Students must also submit a letter outlining their research interests and background.

Financial Aid: A variety of financial aid sources is available for both undergraduate and graduate students based primarily on academic achievement. Graduate assistantships are available for a limited number of students and require approximately 20 hours of work per week for Geography and/or Environmental Science & Policy.

FACULTY:

Geography and Environmental Science & Policy

- Fenda Akiwumi, Ph.D., Texas State University, 2006, Associate Professor* — resource use and policy, sustainability and environment, water, mining, African development, cultural diversity
- Kamal Alsharif, Ph.D., University of Minnesota, 2004, Associate Professor* — water resources, environmental policy, non-point source pollution, hydrogeology, Middle East
- Martin Bosman, Ph.D., University of Kentucky, 1999, Associate Professor* — urban, economic, social theory, globalization
- Jennifer Collins, Ph.D., University College London (England), 2002, Associate Professor* — meteorology, hazardous weather events, climate change
- Joni Firat, Ph.D., Florida State University, 2008, Associate Professor* — geographic information systems, spatial analysis and modeling, wildlife and forest ecology
- Yujie Hu, Ph.D., Louisiana State University, 2016, Assistant Professor* — GIScience
- Shawn Landry, Ph.D., University of South Florida, 2013, Research Associate Professor* — hydrology, GIScience, remote sensing
- Connie Mizak, Ph.D., University of South Florida, 2004, Instructor* — air pollution, risk assessment, estuarine eutrophication, environmental policy
- Ambe J. Njoh, Ph.D., University of London (England), 1990, Professor* — research methods/quantitative analysis, transportation policy and planning, political economy of water and sanitation systems, sustainable development theory and practice
- Ruilian Pu, Ph.D., Chinese Academy of Sciences/University of California, Berkeley, 2000, Associate Professor* — remote sensing, GIS, ecosystem analysis
- Steven Reader, Ph.D., University of Bristol (England), 1989, Associate Professor* — GIScience, spatial statistics, spatial epidemiology, health geography
- Graham A. Tobin, Ph.D., University of Strathclyde (Scotland), 1978, Professor* — natural hazards recovery, water resources
- Philip Van Beynen, Ph.D., McMaster University (Canada), 1999, Associate Professor* — Karst environments pertaining to paleoclimate change, human disturbance, environmental indices and sustainability, sedimentology
- Laurie Walker, M.S., University of South Florida, 1998, Director, USF Botanical Gardens* — evolutionary and phylogeographic studies of Florida upland plants, Florida ecosystems, urban landscaping and sustainability
- Elizabeth Walton, Ph.D., University of North Carolina – Greensboro, 2009, Instructor* — GIScience, cartography, ecological modeling

Geology

- H. Leonard Vacher, Ph.D.* — Geoscience Education, Karst/Hydrogeology/Quantitative Literacy
- Jeffrey G. Ryan, Ph.D.* — Igneous and Metamorphic Petrology, Geochemistry, Geoscience Education
- Charles Connor, Ph.D.* — Volcanology, Natural Hazard Assessment, Geophysics
- Ping Wang, Ph.D.* — Coastal Geology and Sedimentology
- Tim Dixon, Ph.D.* — Geodesy, Remote Sensing and Natural Hazards
- Steve McNutt, Ph.D.* — Volcano Seismology
- Sarah Kruse, Ph.D.* — Near-surface and environmental geophysics
- Mark Rains, Ph.D.* — Hydrogeology and Ecohydrology
- Greg Herbert, Ph.D.* — Paleontology and Paleobiology
- Bogdan Onac, Ph.D.* — Karst mineralogy, climate change, sedimentary geology
- Paul Wetmore, Ph.D.* — Structural Geology, Tectonics, petrology
- Rocco Malservigi, Ph.D.* — Geodesy, geophysics and tectonics
- Matthew Pasek, Ph.D.* — Aqueous geochemistry and planetary geology
- Sylvain Charbonnier, Ph.D.* — Physical Volcanology, geomorphology
- Aurelie Germa, Ph.D.* — Volcanology, petrology and geochemistry
- Zachary Atlas, Ph.D.* — Igneous Petrology
- Jochen Braunmiller, Ph.D.* — Seismology
- Glenn Thompson, Ph.D.* — Seismology
- Tom Juster, Ph.D.* — Hydrogeology
- Jason Gulley, Ph.D.* — Hydrogeology
- Judy McIlrath, MS* — Geoscience education
- Richard A. Davis (emeritus)* — Coastal Geology and Sedimentology
- Mark Stewart (emeritus)* — Hydrogeology

GEORGIA

GEORGIA COLLEGE AND STATE UNIVERSITY

DEPARTMENT OF HISTORY & GEOGRAPHY

DATE FOUNDED: 2010

DEGREES OFFERED: B. A.

GRANTED 8/22/15-8/22/16: 15 Bachelors

CHAIR: Aran MacKinnon

DEPARTMENT OFFICE COORDINATOR: Amy Mimes

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Amy R. Sumpter, Department of History & Geography, Georgia College CBX 120, Milledgeville, Georgia, 31061. Telephone (478) 445-2035. Fax (478) 445-5837.

E-mail: amy.sumpter@gcsu.edu.

Internet: <http://www.gcsu.edu/history/geography/>.

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.

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.
Eric Spears, Ph.D., West Virginia University, 2004, Assistant Vice President of International Education — political ecology, Latin America, East Asia.

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 or Geology); PhD in Chemistry (Concentration in Geology); Undergraduate and Graduate Certificates in Geographic Information Science

STUDENTS: 140 Majors, 50 Masters, 4 PhD

CHAIR: Daniel M. Deocampo

BUSINESS MANAGER: Basirat Lawal

FOR FURTHER INFORMATION WRITE TO: Dr. Lawrence Kiage, Director of Graduate Studies in Geosciences, Department of Geosciences, Georgia State University, P.O. Box 4105, Atlanta, Georgia 30303. Telephone (404) 413-5777. 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, paleoenvironmental, and applied geography. Graduate students may elect either a thesis or non-thesis 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 intern, 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. The Department hosts the Georgia Geographic Alliance, providing statewide outreach and educational opportunities.

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 and Environmental Geochemistry
Jeremy E. Diem, Ph.D., Arizona 2000 Associate Professor — Air pollution, applied climatology
W. Crawford Elliott, Ph.D., Case Western Reserve 1988, Associate Professor and Chair — Clay Mineralogy; environmental geology.
Katherine Hankins, Ph.D., Georgia 2004, Associate Professor — Urban geography
Paulo J. Hidalgo-Odio, Ph.D., 2011, Michigan State, Lecturer — Petrology
Nadine Kabengi, Ph.D., University of Florida, Assistant Professor — Soil science; Thermochemistry; Environmental geochemistry
Lawrence W. Kiage, Ph.D., Louisiana State University, 2007, Associate Professor — Biogeography and Paleoenvironments
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 and 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
Katie Price, Ph.D., University of Georgia, 2009, Assistant Professor — Hydrology and geomorphology
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: 120 B.S., Geographic Information Science; 73 B.A., Geography

STUDENTS IN RESIDENCE: 31 Geographic Information Science, 48 Geography

CHAIR: Susan Kirkpatrick Smith, Ph.D.

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Melissa Gray

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 & GIS Director — beer, forest dynamics, soils, watershed biogeochemistry, applications of GIS, geospatial education

Ulrike Ingram, M.A., Georgia State University, 2006, Lecturer — 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

DATE FOUNDED: 1927

GRADUATE PROGRAM FOUNDED: 1931

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

GRANTED 2016-2017: 14 B.A., 7 M.A., 3 Ph.D.

STUDENTS IN RESIDENCE: 54 B.A., 26 M.A., 15 Ph.D.

CHAIR: Hong Jiang

GRADUATE CHAIR: Reece Jones

UNDERGRADUATE CHAIR: Brian Szuster

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. 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.

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, Assistant Professor — humanitarianism, political ecology, critical geopolitics, Southeast Asia

Yi Qiang, Ph.D., Ghent (Belgium), 2012, Assistant Professor — GIS, visual analytics, and 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, Associate 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. Murton, 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

Everett A. Wingert, Ph.D., Washington, 1973, Professor — cartography, remote sensing

COOPERATING AND AFFILIATE GRADUATE FACULTY:

Henry Diaz, Ph.D., Colorado, 1985 — climate change

Douglas Eisinger, Ph.D., Wales, 2005 — air quality, environmental policy analysis

Basil Gomez, D.Sc., University of Southampton, 2005 — fluvial geomorphology and sediment transport
Jefferson Fox, Ph.D., Wisconsin, 1983 — community-based management, land cover change, spatial information technology
Erik C. Franklin, Ph.D., University of Hawaii at Manoa, 2012 — marine biology, spatial modeling, application of GIS
Mark D. Merlin, Ph.D., Hawaii, 1979 — biogeography, natural history of Hawaii
Mark D. Needham, Ph.D., Colorado State, 2006 — recreation, nature-based tourism

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 9/1/2015-8/31/2016: 9 Bachelors, 8 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 29 Majors, 12 Masters, 11 Ph.D., 30 Certificate

DEPARTMENT CHAIR: Leslie L. Baker

DEPARTMENT ADMINISTRATIVE ASSISTANT:
 Renee Jensen-Hasfurth

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, hazards, 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, 3 letters of recommendation from professors and 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, established 15 years ago, 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
Raymond Dezzani, Ph.D., California, Riverside, 1996, Professor — spatial statistics, political and economic geography
Chao Fan, Ph.D., Arizona State University, 2017, Assistant Professor — GIS and spatial analysis, urban biogeography
Grant Harley, Ph.D., University of Tennessee, 2012, Assistant Professor — Dendrochronology, fire history, GIS-based inventory of terrestrial caves, and climate science.
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 — remote sensing/GIS applications in hydrology and natural resources

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

RESEARCH FACULTY

Vladimir Aizen, Ph.D., Academy of Sciences, Moscow, Russia, 1988, Research Professor — alpine hydrology, glaciology and glacio-climatology
Elena Aizen, Ph.D. Russian Academy of Sciences, Moscow, Russia, 1986, Research Professor — climatology, glaciology

PROFESSOR EMERITUS

Kang-tsung Chang
Allan Jokisaari
Gundars Rudzitis
Sam Scriptor

ILLINOIS

AUGUSTANA COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1949

DEGREES OFFERED: B.A.

GRANTED 8/25/15-8/20/16: 13 Majors, 8 Minors

STUDENTS IN RESIDENCE: 51 Majors, 8 Minors

CHAIR: Jennifer Burnham

DEPARTMENT ADMINISTRATIVE ASST: Elizabeth Plumb

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: www.augustana.edu/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 25 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, geographic information systems 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: Department faculty participate in the college's multi-discipline study away programs in East Asia and Latin America, and conduct international research in northwest Greenland. A special geography summer field research course is held each year in the Upper Midwest, Pacific Northwest, or Gulf Coast region. Through its Community Academic Associates network, the department has an extensive set of internship placements in the local area, the Upper Mississippi Valley and the Chicago metropolitan area with municipal and regional planning offices, private consulting firms

and government agencies such as the Army Corps of Engineers, Natural Resources Conservation Service, and Fish and Wildlife Service; faculty members also serve as commission members or do research for these agencies. 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 which received a \$2 million renovation and is equipped with smart classrooms and labs. The map library, a depository of both the U.S. Government and the U.S. Geological Survey, 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. 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, Associate Professor — physical, GIS, water resources
Christopher Strunk, Minnesota, 2012, Assistant Professor — urban, economic, conservation, Latin America
Matthew Fockler, 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

GRADUATE PROGRAM FOUNDED: 1970

DEGREES OFFERED: B.A. in Geography (currently not accepting new applicants), M.A. in Geography, M.A. in Geography with GIS Concentration, Graduate Certificate in Geographic Information Systems, Graduate Certificate in Community Development

GRANTED 7/1/2016-5/31/2017: 4 Masters, 6 Certificates
STUDENTS IN RESIDENCE: 1 Major, 25 Masters and Certificate

CHAIR: Gebeyehu Mulugeta

GEOGRAPHY COORDINATOR: Gebeyehu Mulugeta

DEPARTMENT ADMINISTRATIVE ASST: To Be Filled

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Dr. Gebeyehu Mulugeta (undergraduate) or Dr. Daniel Block (graduate), Chicago State University, Ninety-Fifth Street at King

Drive, Chicago, Illinois 60628-1598. Telephone (773) 995-2186. Fax (773) 995-2030. Internet: <https://www.csu.edu/gshaa/geography/>

PROGRAMS AND RESEARCH FACILITIES: The department offers a B.A. in Geography requiring completion of 33 hours in geography. Students may choose to concentrate in general geography, community development, environmental justice, GIS, or secondary teaching. This program is currently not accepting new applicants.

The flexible M.A. program in geography is designed for students interested in teaching, government, private employment, or further 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 GIS. 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 new academic 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 and a data server. 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 conditional admission is sometimes possible with fewer hours. The University is on the semester system. Scholarships, assistantships, and loan and work-study programs are available. For information contact Dean of Arts and Sciences (773) 995-2339.

Student Internships are available at public agencies, civic organizations, and in private industry.

FACULTY:

Daniel Block, Ph.D., UCLA, 1997, Professor and Director 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 and Chair, Department of Geography, Sociology, History, African-Americans Studies, and Anthropology — cartography, GIS, remote sensing, quantitative methods, Africa

ADJUNCT FACULTY:

Kari Burnett, Ph.D., Rutgers, Instructor — human, immigration
Margaret King, Ph.D., Illinois-Chicago, Instructor — human, urban
James Nazy, M.A., Chicago State, Instructor — human

EMERITI FACULTY:

William A. Peterman, Ph.D., Denver, 1972, Professor Emeritus — urban, planning, community development, environmental analysis

Irvin Roth, Ph.D., Syracuse, 1968, Professor Emeritus — economic, urban, India

DEPAUL UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1898

DEPARTMENT FOUNDED: 1948

DEGREES OFFERED: B.A., Certificate in GIS

GRANTED 01/01/16-12/31/16: 16 B.A. and 21 GIS Certificates

STUDENTS IN RESIDENCE: 40 B.A. and 38 GIS Certificates

CHAIR: Euan Hague, 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) Nature-Society Studies; (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, Cultural Geography, and Political Geography. Geography is also a key component of DePaul's interdisciplinary M. in Sustainable Urban Development which began in 2013-14, and provides leadership to the interdisciplinary undergraduate minors in both Food Studies and in Cities. 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 scheduled to open 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 of Geography provides both basic and advanced training in geographic information systems (GIS) and remote sensing. 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 Certificate Program in GIS, which was initiated in 1996.

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:

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 — 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 and Chair — cultural, urban, historical, political
Sungsoo (Julie) Hwang, Ph.D., SUNY at Buffalo, 2005, Associate Professor — GIS, transportation, housing
Michael Iversen, BA, Iowa State, 1982, Instructor — urban planning
Connie Johnston, Ph.D., Clark, 2013, Instructor — cultural, feminist
Patrick McHaffie, Ph.D., Kentucky, 1992, Associate Professor — GIS, remote sensing, history of cartography, science studies, cultural
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., Chicago, 1993, Associate Professor — urban, political, European Union, Balkans
Maureen Sioh, Ph.D., University of British Columbia, 2000, Associate Professor — economic geography, 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), B.S. in Social Science Teacher Certification (Geography designation), Professional Science Masters in GIS, and minors in Broadcast Meteorology, Earth Science, Geography, Geographic Information Sciences, and Geology

GRANTED 9/1/15 - 8/31/16: 4 in Geology; 14 in Geography
UNDERGRADUATE MAJORS: 58

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. 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 two teacher certification programs: B.S. in Science (Earth Science designation) and B.S. in Social Science (Geography designation), and participates in an interdisciplinary Master's programs: 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. Those who complete the B.S. in Social Science will be certified to teach economics, geography, history, political science, psychology, and sociology/anthropology. The B.S. in Science, in addition to earth sciences, requires relevant courses in biological sciences, chemistry, and physics. The B.S. in Social Sciences, in addition to geography, requires relevant courses from economics, history, political science, psychology, and sociology/anthropology.

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.

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 programs include introductory and advanced Earth Science Field Experience for Teachers in various regions of the United States, in addition to weekend or week-long trips during semester breaks. The department also offers faculty-led study abroad programs to Ecuador, Ireland/Scotland, Germany/Poland/Czech Republic/Austria and Turkey/Greece/Egypt.

Students in the Department of Geology/Geography have available several classroom and research laboratories including the Special Projects Computer Lab, Geographic Information Sciences Lab, Sedimentation and Stratigraphy Lab, Paleontology Lab, and Microscopy Lab. The Special Projects and GIS labs contain 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. 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 20,000), is primarily a residential campus with approximately 8,500 full-time students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Financial aid is available to qualified students through the Financial Aid Office. For information about programs in the Department of Geology and Geography, contact: Chair, Department of Geology/ Geography, Eastern Illinois University, Charleston, Illinois 61920. For information about admission requirements, contact: Office of Admissions, Eastern Illinois University, Charleston, Illinois 61920.

FACULTY:

Diane M. Burns, Ph.D., Wyoming, 2004, Chair, Associate Professor of Geology — sedimentology, stratigraphy
Robert Cataneo, MSNS, Eastern Illinois, 2003, Instructor — weather/climate
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.
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 — Use of Remote Sensing and GIS in Regional (Bio)geography, Rural Geography, and 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
Betty E. Smith, Ph.D., SUNY-Buffalo, 1994, Professor of Geography — urban systems, geographic information systems, Latin America
John P. Stimac, Ph.D., Oregon, 1996, Associate Professor of Geology — structural geology, tectonics
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

GRANTED 2017: Geography-25, Geology-23, Hydrogeology-11

MAJORS 2017: Geography-73, Geology-81, Hydrogeology-16

CHAIR: Dagmar Budikova

ADMINISTRATIVE ASST: Karen Dunton

FOR CATALOG AND FURTHER INFORMATION: Department of Geography-Geology, 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 3 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 1,700,000 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 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
Matthew Himley, Ph.D., Syracuse, 2010, Associate Professor — environmental, political, Latin America
John C. Kostelnick, Ph.D., Kansas, 2006, Associate 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, University Professor — structural geology, stratigraphy
Paul Meister, MS., Illinois State, 2016, Administrative-Professional — general education, computation lab specialist
Eric Peterson, Ph.D., Missouri-Columbia, 2002, 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 Thayn, 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, Assistant 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 9/1/15-8/31/16: 11 Geog B.A., 21 ES B.A., 7 M.A., 23 GIS Certificates

STUDENTS: 30 Geog B.A., 47 ES B.A., 30 M.A., 52 GIS Certificates

CHAIR: Erick Howenstine, Ph.D. (773) 442-5647 E-Howenstine@neiu.edu

Administrative Assistant: Michael Partipilo, M.S. (773) 442-5640 ges@neiu.edu, <http://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's 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 six-week and 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
Mark Boyle, Instructor, PhD. Human Geography expected 2016 University of St. Andrews — human geography
Thomas Brecheisen, Instructor, PhD. Civil Engineering 2017, University of Illinois at Chicago — environmental studies
Robyn Flakne, Instructor, PhD. Forestry, University of Minnesota, St. Paul 2000 — urban environment, forest resources
Dennis Grammenos, Associate Professor, PhD. Geography University of Illinois, Urbana-Champaign, 2000 — urban/social geography
Erick Howenstine, Professor and Chair, PhD. Geography University of Washington, 1989 — GIS, cartography
Melinda Storie, Assistant Professor and Graduate Coordinator, PhD. Natural Resources and Environmental Sciences 2008, University of Illinois, Urbana-Champaign — environmental education, environmental interpretation, conservation psychology
Alex W. Peimer, Assistant Professor, PhD. Geography, University of Illinois Urbana-Champaign, 2016 — environmental policy and governance, water resources, political ecology
Ting Liu, Assistant Professor and GIS Coordinator, PhD. 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, B.S. Emphasis in
Geomatics, Certificates in GIS/GIA

GRANTED 9/1/15 - 8/31/16: 31 Bachelors, 6 Masters, 1
Ph.D.

STUDENTS IN RESIDENCE: 110 Majors, 12 Masters, 9
Ph.D.

NOT IN RESIDENCE: 6 Masters, 2 Ph.D.

CHAIR: David Changnon

DEPARTMENT ADMINISTRATIVE ASST: Dawn Sibley

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Coordinator of Graduate Studies, Department of Geography,
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 five fields of study: natural
environmental systems, urban/economic systems, GI Science, area
studies and geomatics (land surveying). 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
biogeography, climatology, environmental systems, food systems, GI
Science, hydrology, soils, weather-related hazards, health, urban,
transportation or economic 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 a 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, biogeography, 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, verbal and quantitative scores on the Graduate
Record Exam, 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, Assistant Professor — sustainable food systems, environmental management, gender issues, Africa
Ryan James, Ph.D., UNC-Charlotte, 2012, Assistant Professor — economic, regional development, spatial models, urban planning
Michael E. Konen, Ph.D., Iowa State, 1999, Associate Professor — pedologic, geomorphic, and hydrologic processes
Andrew J. Krmenec, Ph.D., Indiana, 1983, Professor — spatial analysis, quantitative methods, economic
Wei Luo, Ph.D., Washington University, 1995, Professor — geomorphology (Earth and Mars), hydrology, GIS applications, Web-based technology in teaching
Thomas J. Pingel, Ph.D., U.C. Santa Barbara, 2010, Assistant Professor — GIS, geovisualization, LIDAR, spatial cognition
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, M.S., Southern Illinois, 2006, Geomatics Instructor — Land Surveying, glacial landforms (Mars & Earth), GIS
Amanda Carew, B.S. Northern Illinois, 2007, Cartographer
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
Julie D. Jastrow, Ph.D., University of Illinois-Chicago, 1994 — soil biology
William P. Kleiman, M.S.Ed., Northern Illinois, 1986 — restoration ecology
Mary Njenga, Ph.D., University of Nairobi, 2013 — urban food systems
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
Gilbert Sebenste, NIU Staff Meteorologist

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 (1/1/16-12/31/16): 14 Bachelors, 7 Masters

STUDENTS IN RESIDENCE (1/1/16-12/31/16): 36 Majors, 18 Masters

CHAIR: Justin Schoof

DEPARTMENT OFFICE ADMINISTRATOR: Laura Germann

UNDERGRADUATE AND GRADUATE PROGRAMS

ASSISTANT: Jennie Absher

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://cola.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 \$12,564 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, Assistant 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

Silvia Secchi, Ph.D., Iowa State University, 2000, Associate Professor — natural resource economics, economic and environmental modeling

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. and B.S. in Geography, M.S. in Geographical Studies

DEGREES GRANTED 2016: 37 Bachelors, 7 Masters

STUDENTS IN RESIDENCE: 97 Majors, 23 Masters

CHAIR: Susan Hume

DEPARTMENT SECRETARY: Cat Yurkovich

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Susan Hume, Chair, 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 spatial analysis laboratory. Internships with various private and public organizations in the St. Louis, Missouri, 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. Courses are offered during the day and evenings, which permit students to combine their education with part-time or full-time jobs.

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 Geographical Studies. 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 12 hours from related disciplines may be applied toward the degree program. Students frequently take courses in the Computer Science, Education, Environmental Studies, Computer Management Information Systems, Mathematics, or Public Administration 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 hours of additional coursework and the successful completion of written examinations and a directed research problem.

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 faculty, one of whom is jointly appointed with the Environmental Sciences program.

Gillian Acheson, Ph.D., Texas A&M University, 2003, Professor — geographic education, human geography, cultural landscape, population, social justice

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, Associate Professor and Chair — Ethnicity and race, immigrant and refugee adaptation, migration studies, cultural geography, urban geography, geographic education

Adriana E. Martinez, Ph.D., University of Oregon, 2013 Assistant 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 and Associate Dean, College of Arts and Sciences — cultural, philosophy/history of geography, development, geographic education

Michael Shouse, Ph.D., University of Kentucky, 2014, Assistant Professor — biogeomorphology, biogeography, GIS, remote sensing

Bin Zhou, Ph.D., University of Georgia, 1995, Professor — economic and urban geography, quantitative techniques, Asia

SOUTHWESTERN ILLINOIS COLLEGE

DEPARTMENT OF GEOGRAPHY, HISTORY, AND POLITICAL SCIENCE

DEGREES OFFERED: A.S. 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

UNIVERSITY OF ILLINOIS

DEPARTMENT OF GEOGRAPHY and GEOGRAPHIC INFORMATION SCIENCE

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1950

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

GRANTED 9/1/16-8/31/17: 14 Bachelors, 4 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: Majors, 6 Masters, 23 Ph.D.

HEAD: Sara L. McLafferty

DEPARTMENT ADMINISTRATIVE ASST: Denise Jayne

FOR FURTHER INFORMATION WRITE TO: Graduate
Director, Department of Geography and Geographic Information
Science, 2044 Natural History Building, MC-150, 1301 W. Green
Street, Urbana, Illinois 61801. Telephone: (217) 333-1880. E-mail:
geograph@illinois.edu. Internet: www.geog.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 social
dimensions of environmental policy; 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. Strong support for research is also provided through the
various area centers (African, East Asian and Pacific, European
Union, Latin American and Caribbean, South Asia and Middle
Eastern, Russian, East European and Eurasian).

Professional Science Master's 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 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; 2) the Social Dimensions of Environmental Policy Initiative (SDEP) which aims to improve management of the earth's environment through research on social and policy dimensions of sustainability; 3) the Space-Time Analysis Research Lab (STAR) 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 Masters 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 \$16281plus remission of tuition. Nearly all resident graduate students, other than PSM students, are supported by fellowships, scholarships, and assistantships.

FACULTY:

James Best, Ph.D., London, 1985, Professor — process sedimentology, flow-sediment interactions
Trevor Birkenholtz, Ph.D., The Ohio State University, 2007, Associate Professor — political ecology, development, social theory, nature-society relations, vulnerability, South Asia, water resources
Julie Cidell, Ph.D., Minnesota, 2003, Associate Professor — transportation, GIS, economic geography, urban political ecology, urban sustainability
Piotr Cienciala, Ph.D., University of British Columbia, 2015, Assistant Professor — Ecogeomorphology and echohydraulics, 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
Ezekiel Kalipeni, Ph.D., North Carolina, Chapel Hill, 1986, Professor — environmental and resource issues, population, migration, health care, Africa
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 and Head — 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
Jesse Ribot, Ph.D., California-Berkeley, 1989, Professor — environmental policy, local government, rural representation, distributional equity, social vulnerability
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 and Director, CyberGIS Center, Senior Research Scientist-NCSA — 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
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
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
Faranak Miraftab, Ph.D., Berkeley, 1995, Professor, Urban and Regional Planning — social aspects of urban development
Marilyn O'Hara, Ph.D., Florida-Gainesville, 1995, Clinical Associate Professor, Veterinary Diagnostic Laboratory, Veterinary Medicine — GIS, cartography, medical geography
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
Luc Anselin, Ph.D., Ph.D., Cornell, 1980. Distinguished Professor, University of Chicago — spatial econometrics and analysis, GIS
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
Jonathan Greenberg, Ph.D., California-Davis, 2004, University of Nevada-Reno, Associate Professor — remote sensing, landscape ecology, vegetation-climate interactions
James Westervelt, Ph.D., Illinois, 1996, Research Scientist, Construction Engineering Research Laboratory — ecological modeling, GIS, urban planning

WESTERN ILLINOIS UNIVERSITY

**DEPARTMENT OF GEOGRAPHY, GEOGRAPHIC
INFORMATION SCIENCE AND METEOROLOGY**
DATE FOUNDED: 1917

GRADUATE PROGRAM FOUNDED: 1947

DEGREES OFFERED: B.S. Geography and GIS, B.S.
Meteorology, M.A. Geography

GRANTED 7/1/15-5/16/16: 10 Bachelors, 4 Masters

STUDENTS IN RESIDENCE: 30 Undergraduate, 12
Graduate

NOT IN RESIDENCE: 5 Masters

CHAIR: Samuel Thompson

DEPARTMENT ADMINISTRATIVE ASST: Ceresé
Wright

**FOR CATALOG AND FURTHER INFORMATION WRITE
TO:** Samuel Thompson, Chair, Department of Geography, GIS and
Meteorology, Western Illinois University, 1 University Cir., Macomb,
Illinois 61455-1390. Telephone (309) 298-1648. Fax (309) 298-3003.
E-mail: geography@wiu.edu. Internet: www.wiu.edu/geography/.

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. Only two core courses are 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 and Meteorology as well as minors in Geography, Weather and Climate, and GIS. The Geography degree includes options in geospatial science, human or physical geography.

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:

Marcus Buker, Ph.D., Wisconsin, 2004, Associate Professor — Advanced meteorology
Jongnam Choi, Ph.D., Georgia, 2001, Professor — climatology, satellite meteorology, biogeography
Yongxin Deng, Ph.D., Southern California, 2005, Professor — GIS, soils, conservation, world regional
Sunita George, Ph.D., Georgia, 1999, Associate Professor — World regional, population, women studies
Raymond Greene, Ph.D., Georgia, 2000, Associate Professor — GIS, quantitative methods, Africa
Redina Herman, Ph.D., Illinois, 2003, Associate Professor — Advanced meteorology
Ranbir Kang, Ph.D., Oklahoma State, 2005, Associate Professor — Physical Geography, GIS
Fuyuan Liang, Ph.D., Georgia 2008, Associate Professor — Pleistocene geomorphology, physical, remote sensing
Christopher D. Merrett, Ph.D., Iowa, 1994, Professor and Director, Illinois Institute for Rural Affairs — geographic thought, political geography, Canada and the United States
Susan Romano, Ph.D., Southern Illinois University-Carbondale, 2006, Associate Professor, Joint appointment with Biological Sciences — GIS
Christopher J. Sutton, Ph.D., Denver, 1995, Professor — urban, cartography
Samuel Thompson, Ph.D., 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 07/01/16 – 06/30/17: 29 Bachelors

MAJORS: 129 Majors, 9 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. Internet:
turk@bsu.edu. World Wide 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, each one encouraging students to develop analytical skills in their own particular area(s) of interest.

Option 1. Human Geography. This concentration is particularly attractive to students who desire a broad liberal arts background with emphasis on regional studies and geographic methodologies and who seek careers in education, government, or business at local, state, national, and international levels.

Option 2. Travel and Tourism. This concentration offers students broad knowledge, analytical skills, and practical experience that are beneficial for successful careers in the travel and tourism industry. This sequence of specialized courses addresses spatial, organizational, social, and economic aspects of travel and tourism growth and development, regions, and the interaction between the tourist and the destination.

Option 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 Geographic Information Systems (GIS).

Option 4. Meteorology and Climatology. This concentration is designed for students seeking careers in meteorology and climatology, or professions strongly connected to weather and climate. While developing a solid understanding of the theory of atmospheric behavior (dynamics and thermodynamics) is a principal objective of the program, we are also strongly focused on the application of that knowledge to solve problems in a variety of applied settings. Two separate tracks and a minor are offered to address a variety of intended career directions. The *General Track* is provided for students interested in positions where a general knowledge of operational meteorology and climatology is of value in satisfying primary task objectives. Examples include emergency management, environmental analysis, and transportation planning. The *Professional Meteorologist Track* has been designed to meet Federal Civil Service requirements (GS-1340) for employment with the National Weather Service, and to qualify students for the American Meteorological Society (AMS) Certified Broadcast Meteorologist (CBM) title. The *Minor in Meteorology and Climatology for Weathercasters* provides students the backgrounds necessary to effectively communicate weather information to the public, in many cases through the broadcast media. Students that wish to pursue careers as broadcast meteorologists have the option to complete either the Professional Meteorologist Track, which qualifies them for the AMS CBM program, or the Minor in Meteorological and Climatology, that prepares them to meet National Weather Association (NWA) Broadcast Seal of Approval qualifications. A variety of extra-curricular activities in support of the Meteorology and Climatology option are available for both undergraduate and graduate students. These include the Ball State Storm Chase Team, the BSU Wx Challenge team, the Central Indiana Chapter of the National Weather Association, and participation in regional and national meteorology, climatology, and geography conferences.

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 management 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

Michael Hawkins, Ph.D., Louisiana State, 1999, Assistant Professor — travel & tourism, cultural, Latin America

Nathan Hitchens, Ph.D., Purdue University, 2010, Assistant Professor — forecast evaluation and verification, climatology, and extreme weather

Jerzy Jemioło, Ph.D., Jagiellonian (Krakow, Poland), 1982, Associate Professor — tourism, transportation, cultural, Europe, Russia

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 STATE UNIVERSITY

DEPARTMENT OF EARTH AND ENVIRONMENTAL SYSTEMS

DATE FOUNDED: 1893

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: B.A. and B.S. in Earth and

Environmental Sciences, Human and Environmental Systems; M.A. in Geography, M.S. in Earth and Quaternary Sciences; Ph.D. in Spatial and Earth Sciences; Minors available in Geography, Geosciences, Environmental Sciences, Anthropology, Climatology, Sustainability, and GIS

GRANTED 2016-2017: 14 Bachelors, 3 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 77 Majors, 9 Masters, 6 Ph.D.

NOT IN RESIDENCE: 2 Masters, 2 Ph.D.

CHAIRPERSON: Stephen Aldrich (Interim)

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Earth and Environmental Systems, Indiana State University, 6th & Chestnut, Terre Haute, Indiana 47809. Telephone (812) 237-2444. Fax (812) 237-8029. E-mail: ISU-EES@mail.instate.edu, Web: <http://www.indstate.edu/cas/ees>

PROGRAMS AND RESEARCH FACILITIES: The Department offers undergraduate students the opportunity to major in earth and environmental sciences (concentrations in geoscience or atmosphere and surface processes) and human and environmental systems (concentrations in geography, GIScience or anthropology). At the graduate level, the Department offers Masters of Arts degree in Geography, Master of Science in Earth and Quaternary Sciences; and Doctor of Philosophy degree in Spatial and Earth Sciences with concentrations in geography and earth sciences.

Exceptional opportunities exist at ISU in GIS and remote sensing applied to systematic and regional topics. General requirements for each specialty area and degree vary, and interested students should contact the Chairperson of the Department for more detailed information.

RESEARCH FACILITIES: The Department of Earth and Environmental Systems is housed in contemporary quarters with space and excellent facilities for research and grant/contract work. There are at present a map library (290,000 flat maps) and 12 labs, including the Center for Remote Sensing and Geographic Information Systems (GIS), Center for Urban and Environmental Change (CUEC), Climatology Laboratory (including the NOAA/NWS surface weather station), Archaeology and Quaternary Research Laboratory, dendrochronology laboratory, environmental geology laboratory, paleontology/paleoenography laboratory, geochemistry laboratory, human osteology laboratory, sedimentology/geomorphology laboratory, Hook Memorial Observatory, sample preparation rooms, and graduate office space. The Department owns five vehicles to assist with fieldwork and research.

Current research in physical geography includes climatology (cyclogenesis and low level wind maxima), biogeography,

dendrochronology, and environmental modeling (land use/land cover modeling, habitat mapping).

Current research in human geography focuses on urban, regional, and global change. In recent years, faculty have investigated land conflict and change in Brazil, regional economic development policy, urban land use, the socio-spatial politics of globalization, and GIS and ethics.

The Center for Urban and Environmental Change (CUEC) focuses on studies of the causes, effects, and responses to environmental change in cities and urban/suburban areas, especially those in Indiana and the Midwest. Programs and activities relate to both the science and the management of urban environmental change, including policy, regulation, technology, impact adaptation, mitigation, and remediation.

FINANCIAL AID: Thirteen undergraduate scholarships are available on a competitive basis. Graduate assistantships are awarded to qualified students. PhD teaching assistantship stipends range in value up to \$11,600 per academic year; MA stipends range in value up to \$9,100 per academic year. Students receiving stipends teach classes or labs, work part-time as assistants to the faculty, or render other services to the department. Before a stipend can be offered, a student must be admitted to the College of Graduate and Professional Studies. Scholarships are also available which include remission of tuition except service fees.

APPLYING: Requirements for admission include submission of GRE aptitude test scores (Verbal and Quantitative sections) and an undergraduate-level GPA of 3.0 or better or a graduate-level GPA of 3.25 on a 4.0 scale. Entering doctoral students should have a written master's thesis or should provide evidence of the ability to write original material.

FACULTY:

Stephen Aldrich, PhD, Michigan State, 2009 Associate Professor — environmental science, GIS, land use change, modeling and mapping
Susan M. Berta, PhD, Oklahoma, 1986, Associate Professor — geomorphology, physical geography, remote sensing
Gregory D. Bierly, PhD, Michigan State, 1996 Professor and Director of University Honors Program — climatology, physical geography
Sandra S. Brake, PhD, Colorado School of Mines, 1989, Professor — environmental geology, geochemistry, geobiology, mineralogy, igneous petrology
Mohamed Elyassini, Ph.D, Kentucky, 1995, Associate Professor — globalization, Middle East, human geography
Kathleen M. Heath, PhD, Utah, 1999, Associate Professor — evolutionary ecology, mating and parenting strategies, life history, collective action
Jennifer C. Latimer, PhD, Indiana University, 2005, Associate Professor — sediment geochemistry, oceanography, paleoceanography, environmental geochemistry, biogeochemistry, medical geology
Nancy J. Obermeyer, PhD, Chicago, 1987, Associate Professor — GIS, urban, cultural
Shawn Phillips, Ph.D, SUNY Albany, 2001 Associate Professor — biological anthropology, forensic anthropology
Anthony Rathburn, Ph.D, Duke, 1992, Professor — oceanography, paleontology
James Speer, Ph.D, Tennessee, 2001, Professor — biogeography, climatology, dendrochronology
Jeffery Stone, Ph.D, Nebraska 2005, Assistant Professor — paleolimnology, diatoms, paleoecology
Qihao Weng, Ph.D, Georgia, 1999, Professor — remote sensing, GIS, environmental modeling
Amos Winter, Ph.D. The Hebrew University of Jerusalem, Israel, 1981, Professor — climate change, marine micropaleontology

ADJUNCT FACULTY:

Karla Hansen-Speer, PhD, Washington University, 2006 — archaeology, paleoethnobotany, dendrochronology, southwest US
Karlyn Westover, PhD, Nebraska, 2006 — paleolimnology, diatoms, paleoecology, statistics
Brooke Drew, MAIS, Oregon State University, 2008 — historical archaeology, cultural material analysis, nineteenth century mortuary practices

EMERITI FACULTY:

William A. Dando, PhD, Minnesota
Prodip Dutta, PhD, Indiana
Basil Gomez, PhD, Southampton
Steven Pontius, PhD, Minnesota
Russel Stafford, PhD, Arizona State

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 6/1/15-5/31/16: 17 Bachelors, 2 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 31 Majors, 7 Masters, 14 Ph.D.

NOT IN RESIDENCE: 2 Ph.D.

CHAIR: Daniel C. Knudsen

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: www.indiana.edu/~geog.

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 must be submitted (minimum of at least 151 on verbal, 150 on quantitative, and 4.5 or better on analytical). 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:

- Majed Akhter, Ph.D., University of Arizona, 2013, Assistant Professor* — Water law/policy, Political ecology of development, Agrarian political economy, Marxist geography and geopolitics, Modern Pakistan and South Asia
- Ishan Ashutosh, Ph.D., Syracuse University, 2010, Assistant Professor* — Migration, Ethnicity, Urban geography
- Elizabeth Dunn, Ph.D., John Hopkins University, 1998, Associate Professor* — Effects of large bureaucratic systems during periods of cataclysmic social change
- Tom Evans, Ph.D., University of North Carolina, Chapel Hill, 1998, Professor* — Human-Environment Interactions, Agricultural Decision-making, Water Governance, GIS/Spatial Modeling
- Darren Ficklin, Ph.D., University of California, Davis, 2010, Assistant Professor* — Watershed hydrology and water quality modeling, Impacts of climate change on the hydrologic cycle, impacts of climate change on aquatic species and ecosystems
- Tae Hee Hwang, Ph.D., University of North Carolina, Chapel Hill, Assistant Professor* — Eco-hydrology, Remote Sensing, Biogeography
- Daniel C. Knudsen, Ph.D., Indiana University, 1984, Professor* — Food Studies and Tourism Geography
- 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
- Justin Maxwell, Ph.D., University of North Carolina, Greensboro, 2012, Assistant Professor* — Climatology, Biogeography, Dendrochronology, Forest Disturbances
- Scott Robeson, Ph.D., University of Delaware, 1992, Professor* — Climate Change Detection, Impacts of Climate Change and Variability, Spatial Data Analysis, Environmental Statistics
- Roman Zlotin, Ph.D., USSR Academy of Sciences, Moscow, 1970, Senior Lecturer* — Biogeography

ADJUNCT FACULTY:

- Eduardo Brondizio, Ph.D., Indiana University, 1996, Professor* — Socio-ecological systems, environmental and economic anthropology
- Timothy S. Brothers, Ph.D., University of California, Los Angeles, 1985, Associate Professor* — biogeography, environment
- Kelly K. Caylor, Ph.D., University of Virginia, 2003, Associate Professor* — Eco-hydrology (i.e. the interface between plant ecology and surface hydrology), surface hydrology, dryland ecology & 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, Associate 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, Assistant 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

Kimberly Novick, Ph.D., Duke, 2010, Assistant Professor — Forest Ecology, Ecosystem Carbon and Water Cycling, Biometeorology

A. Faiz Rahman, Ph.D., University of Arizona, 1996, Associate 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, and Landscape and Conservation Ecology

Philip S. Stevens, Ph.D., Harvard University, 1990, Professor of Public and Environmental Affairs — 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

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

INDIANA UNIVERSITY- PURDUE UNIVERSITY INDIANAPOLIS

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1981

DEGREES OFFERED: B.A. in Geography, M.S. and
Certificate Programs Geographic Information Science

GRANTED 9/1/16-5/31/17: 9 Bachelors, 3 MS

STUDENTS: 39 undergraduate, 9 M.S., 15 graduate
certificate

CHAIR: Daniel P. Johnson

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

Aniruddha Banerjee, PhD, Iowa, 2004, Assistant Professor — GIS,
spatial analysis, medical geography, cultural geography

Robert L. Beck, PhD, Indiana State, 1982, Senior Lecturer — rural
geography, resources, Indiana, North America

Frederick L. Bein, PhD, Florida, 1974, Professor — conservation,
soils, third world agriculture and environment, geographic
education

Owen J. Dwyer, PhD, Kentucky, 2000, Professor and Director of
Graduate Studies — urban geography, cultural geography

Daniel P. Johnson, PhD, Indiana State, 2007, Associate Professor and
Chair — GIS, remote sensing, physical geography, spatial
analysis, climate change and health

Gil Latz, PhD, Chicago, 1986, Professor and Associate Vice
Chancellor for International Affairs — regional development,
resource management policy, Japan, East Asia, North America
and Europe

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, Washington, 1998, 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 9/1/15-8/31/16: 10 Bachelors in Geography (4
B.S., 6 B.A.)

MAJORS: 26 in Geography, 2 in Geology

CHAIR: Teresa Bals-Elsholz

GEOGRAPHY COORDINATOR: Michael Longan

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-](http://www.valpo.edu/geography-meteorology/)
[meteorology/](http://www.valpo.edu/geography-meteorology/)

PROGRAMS AND RESEARCH FACILITIES: The Department
offers a B.A. in geography with strong foundational work in
geography followed by concentrated study in one of four career areas:
Environmental Geography, Urban Geography and Regional Planning,
Computer Cartography/GIS, and Human/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, American Indian Studies, 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 Lakeshore and
Chicago, while field courses have been offered in Hawaii, Alaska, and
Arizona's Sonoran Desert. 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.

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

Ronald A. Janke, Ph.D., Minnesota, 1976, Professor — geomorphology, Native Americans, historical, North America

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

Adam Stepanek, ABD, Naval Postgraduate School, 2006, Instructor — aviation meteorology, sub seasonal prediction, severe weather

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 8/1/15-7/31/16: 14 Bachelors, 3 Masters, 0 Ph.D.

STUDENTS IN RESIDENCE: 53 Majors, 8 Masters, 15 Ph.D.

NOT IN RESIDENCE: 3 Ph.D., 1 Masters

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 the Iowa Center for the Performing Arts 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—Hydrosience & 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 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 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.

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, postbaccalaureate 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 \$19,020 for the two semester academic year of 2016-17, plus a full tuition scholarship and healthcare benefits. External research grants also provide for research assistants.

The 2017-18 tuition and fees rate for in-state graduate students is \$10,114 for the academic year. Out-of-state students pay \$28,655. 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, Assistant Professor — health, infectious disease ecology, landscape genetics, population

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

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, Assistant Professor — geographic information science, land use/land cover, environmental modeling, ecosystem services

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

David Osterberg, M.S., Wisconsin-Madison, 1975, Adjunct Professor — environmental policy, health policy, climate change, renewable energy

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, Associate Professor — geographic information science, modeling geospatial semantics, spatiotemporal data modeling, ontologies and GIS

Peter Weyer, Ph.D., Iowa, 1998, Adjunct Assistant Professor — water quality, chronic health effects, environmental epidemiology, environmental health policy

EMERITI FACULTY:

George P. Malanson, Ph.D., UCLA, 1983, Coleman-Miller Professor — 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 — 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

KANSAS

FORT HAYS STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1955

DEGREES OFFERED: B.S. (available on campus and online) and M.S. in Geosciences

CURRENT MAJORS: 90 undergraduates, 20 graduates

CHAIR: P. Grady Dixon

GRADUATE COORDINATOR: Laura Wilson Brantley

DEPARTMENT ADMINISTRATIVE ASST: Ms. Patricia Duffey

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Grady Dixon, Department of Geosciences, Fort Hays State University, 600 Park St, Hays, Kansas 67601-4099. Telephone (785) 628-5389 E-mail: pgdixon@fhsu.edu Web: <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.

While previously part of the College of Arts & Sciences, we are excited to be a founding member of a new College of Science, Technology and Mathematics). Geosciences has recently joined 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:

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 Chair — meteorology, climatology, and physical geography
Richard Lisichenko, Ph.D., Kansas State University, 1999, Professor — GIS
Kenneth Neuhauser, Ph.D., University of South Carolina, 1973, Professor — environmental geology
Tom Schafer, Ph.D., Kansas State University, 2000, Associate Professor — physical geography, cartography
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, 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: 9/1/16-8/31/17: 12 Bachelors, 6 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 55 Majors, 11 Masters, 12 Ph.D.

NOT IN RESIDENCE: 3 Masters, 4 Ph.D.

HEAD: Charles W. Martin

GRADUATE PROGRAM INFORMATION: Douglas Goodin, Department of Geography, 118 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 GIScience, remote sensing and spatial modeling. 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 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 an analytical laboratory focused on research in Paleoenvironmental Change. Geographic information science includes remote sensing, spatial modeling, Internet GIS, and geocomputational methods.

The rolling and tree-shaded university campus is located in Manhattan, pop. 50,000. 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, Ph.D. Michigan State, 2008, D.Sc. University of Sao Paulo, Associate 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

John A. Harrington, Jr., Ph.D., Michigan State, 1980, Professor — climatology, human dimensions of global change, GIScience, geography education, applied geography, water resources, biogeography, Great Plains

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, Associate Professor and Director, GISSAL — water resources, biogeography, environmental modeling, GIS, remote sensing, 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, Research 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 — geomorphology, fluvial systems, Great Plains, Germany

Kendra K. McLauchlan, Ph.D., Minnesota, 2004, Associate Professor — biogeography, soils, environmental geography, paleoecology, North America

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, Associate 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

Matthew R. Sanderson, Ph.D., University of Utah, 2008, Associate 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

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 9/1/15-8/31/16: 21 Bachelors, 14 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 100 Majors, 16 M.A., 18 M.S., 37 Ph.D.

NOT IN RESIDENCE: 3 Masters, 2 Ph.D.

CHAIR: Nathaniel Brunsell

DEPARTMENT ADMINISTRATIVE ASST: Beverly M. Koerner

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 magnetics.

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
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
Daniel R. Hirmas, Ph.D., University of California, Riverside, 2008, Associate Professor — pedology, soil geomorphology, soil mineralogy
Jay T. Johnson, Ph.D., University of Hawaii at Manoa, 2003, Associate Professor — cultural geography, comparative Indigenous Nations studies, post-colonialism
William C. Johnson, Ph.D., Wisconsin, 1976, Professor — Quaternary studies, geoarchaeology, environmental magnetism
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, Associate 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
David A. Rahn, Ph.D., Wyoming, 2008, Assistant Professor — atmospheric science, mesoscale and synoptic meteorology
Di Shi, Ph.D., Florida State, 2016, Lecturer and Director of Cartographic Services — remote sensing, land cover mapping, cartography
James R. Shortridge, Ph.D., Kansas, 1972, Professor — cultural, historical, United States
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
Valery J. Terwilliger, Ph.D., California, 1988, Adjunct Associate Professor — biogeography, geomorphology, geotechnical engineering

EMERITI FACULTY:

Leslie Dienes, Ph.D., Chicago, 1968

George F. McCleary, Jr., Ph.D., Wisconsin, 1969
Robert W. McColl, Ph.D., Washington, 1964
Curtis J. Sorenson, Ph.D., Wisconsin, 1973

KENTUCKY

UNIVERSITY OF KENTUCKY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1944

GRADUATE PROGRAM FOUNDED: 1946

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

STUDENTS IN RESIDENCE: 42 B.A./B.S. 8 M.A., 21 Ph.D.

NOT IN RESIDENCE: 2 M.A., 14 Ph.D.

CHAIR: Richard H. Schein (schein@uky.edu)

ADMINISTRATIVE ASSISTANT: Lori Tyndall
(Geography@uky.edu)

DIRECTOR OF GRADUATE STUDIES: Andrew Wood
(andrew.wood@uky.edu)

DIRECTOR OF UNDERGRADUATE STUDIES: Alice Turkington (alicet@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 (\$14,848 for the year 2017-18), 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 — Political ecology, social-ecological resilience, gender, geographies of conservation and development, East Africa
Stanley D. Brunn, Ph.D. Ohio State, 1966, Professor Emeritus — Social and political geography, information and communication, North America, Europe, and Central Asia
Jeremy Crampton, Ph.D. Penn State 1994, Professor — Critical cartography and GIS, new mapping technologies, theory
Patricia Ehrkamp, Ph.D. University of Minnesota, 2002, Associate Professor — Political, urban, feminist geography, immigration, citizenship, refugee studies
Carolyn Finney, Ph.D. Clark University, 2006, Assistant Professor — Identity, representation, difference and place, race and environment, environmental humanities
P.P. Karan, Ph.D. Indiana, 1956, Professor Emeritus — Development, multinational corporations, society-environment relationships, Asia/Pacific, Japan, South Asia
Liang, Liang, Ph.D. University of Wisconsin-Milwaukee, 2009, Associate Professor — Bioclimatology, landscape phenology, remote sensing, and spatial ecology
Tad Mutersbaugh, Ph.D. University of California-Berkeley, 1994, Professor — Political ecology, gender & development, agrarian studies, certified commodities, Mexico and Latin America
Jonathan Phillips, Ph.D. Rutgers, 1985, Professor — Geomorphology, pedology, earth surface systems
Lynn Phillips, Ph.D. University of Louisville, 2013, Assistant Professor — Applied geography, urban planning, growth management, and geography of global equine centers
Karl Raitz, Ph.D. Minnesota, 1970, Professor Emeritus — American landscapes, historical geography, U.S., Appalachia, visual methods
Susan Roberts, Ph.D. Syracuse, 1992, Professor — Global political economy, financial capital, development, feminist theories
Michael Samers, D. Phil Oxford University, 1997, Associate Professor — Economic and urban geography, immigration, alternative forms of economic development, international finance, France, European Union, US
Richard Schein, Ph.D. Syracuse, 1989, Professor and Chair — Cultural landscapes, urban geography, U.S. historical geography
Anna Secor, Ph.D. University of Colorado, 2000, Professor and Hajja Razia Sharif Sheikh Islamic Studies Professor — Political, cultural, Islamic world, social theory, feminist geographies
Gary Shannon, Ph.D. Michigan, 1970, Professor — Medical Geography: disease ecology, health services delivery, telemedicine, global dynamics of health and disease
Tony Stallins, Ph.D. Georgia, 2000, Associate Professor — Biogeography, biogeomorphology, scale theory, organism-environment interactions
Alice Turkington, Ph.D. Queens University-Belfast, 1999, Associate Professor and Director of Undergraduate Studies — Geomorphology, weathering, urban environments, applied geomorphology
Andrew Wood, Ph.D. Ohio State, 1993, Associate Professor and Director of Graduate Studies — Economic, political, and urban geography

Matthew W. Wilson, Ph.D. University of Washington, 2009, Associate Professor — Critical GIS, urban political geography, science and technology studies

Matthew Zook, Ph.D. University of California, Berkeley, 2001, Professor — Information and economic geographies, urban technologies, critical GIS

GYULA PAUER CENTER FOR CARTOGRAPHY AND GIS:

Jeff Levy, B.A. Kentucky, 2000, GIS Analyst — GIS and applications in 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

Theodore H. Grossardt, Ph.D. Kentucky 1999, Kentucky Transportation Center — Transportation, social theory, participatory planning

Daniel Marion Ph.D. University of Iowa, 2001, U.S. Forest Service — Hydrology, stream channel morphology, forest ecosystems, and 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 7/1/15-6/30/16: 22 Bachelors; 7 Masters

MAJORS: 136

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, Urban Population, Globalization, and Urban Issues. Majors have either 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, Assistant Professor — spatial and temporal complexity of coupled human-environment systems, land-use/land-cover change dynamics, climate variability/change, remote sensing and GIS, modeling and spatial statistics

Jafar Hadizadeh, Ph.D., Imperial College, Great Britain, Professor — structural geology and rock mechanics

Carol L. Hanchette, Ph.D., North Carolina, Chapel Hill, Associate Professor — medical geography, geographic information systems, globalization

David A. Howarth, Ph.D., Ohio State, Professor — climatology, short term climate variability, meteorology, urban climatology, geography education

Priscilla McCutcheon, Ph.D. University of Georgia, Assistant Professor — race and ethnicity, black geographies, food and agriculture, food justice, spiritual and religious geographies

Keith R. Mountain, Ph.D., Ohio State, Associate Professor — glaciology, radiation and boundary layer climatology, geography education

Jason Naylor, Ph.D., North Dakota, Assistant Professor — meteorology, severe weather, tornadoes, numerical weather prediction, storm-scale modeling

Wei Song, Ph.D., Ohio State, Associate Professor — transportation and location analysis, urban and regional studies, GIS applications, quantitative methods, China

Forrest R. Stevens, M.S., 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, cultural impacts of globalization, cultural production, qualitative research methodology, border security and identities; Latin America

Haitfeng (Charlie) Zhang, Ph.D., South Carolina, Associate Professor — urban & social issues, race & ethnicity, 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

James E. Conkin, Ph.D., Cincinnati, 1960, Professor Emeritus

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

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, MNS, BA and MA in Anthropology; PhD with a concentration in Geography or Anthropology

GRANTED 7/1/15 – 6/30/16: 10 Bachelor's, 6 Master's, 10 PhD (Geography and Anthropology)

STUDENTS IN RESIDENCE: 34 Majors, 22 Master's, 44 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 and 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. As a bidisciplinary department of geography and anthropology, the department offers six degree programs. Bachelor's programs provide the full range of geographical instruction appropriate to a liberal education; master's programs accent breadth of professional geographical and anthropological training; the doctoral program has a concentration in geography (specialized research and scholarship in physical geography, human geography, mapping sciences) and a concentration in anthropology (archaeology, biological, cultural and linguistics).

Inquiry focuses on: **Physical Geography** - synoptic climatology, hydroclimatology, paleoclimatology, hydrology, and fluvial and coastal geomorphology and resources; **Human Geography** - cultural, cultural ecology, regional economic development, historical, settlement, and environmental; **Mapping Sciences** - 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 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 mapping sciences concentration is supported by two computer mapping sciences laboratories. Facilities for research include laboratories of geomorphology, material culture, paleoclimatology, archaeology, 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; on 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 and the department requires 1000 GRE. To be competitive for financial aid an applicant should exceed these minimum requirements.

Graduate Assistantships start at \$12,500 – Master's and \$14,750 – PhD for nine months. 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, R.J. Russell and Materials awards (<http://www.ga.lsu.edu/>).

FULL-TIME FACULTY:

John M. Anderson, MLIS, Louisiana State, 1995, Associate Librarian, Director of the Cartographic Information Center — historical maps, U.S. Geological Survey, U.S. Coast and Geodetic Survey, Louisiana, battlefields

Alan W. Black, PhD, Georgia, 2015, Assistant Professor-Research — climatology, climatic change, atmospheric hazards, extreme events

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 Function Analyses, taphonomy, southern Africa

Kerry R. Chance, PhD, U of Chicago, 2011, Assistant Professor — cultural, political, legal & Africanist anthropology

David Chicoine, PhD, U. of East Anglia, 2007, Associate Professor and Graduate Director — archaeology, coastal Peru, ancient political systems, early urbanism, interactions, ceramics, architecture, visual arts, funerary practices

Craig E. Colten, PhD, Syracuse, 1984, Carl O. Sauer Professor — historical, environmental, American South

Kristine L. DeLong, PhD, Univ. of South Florida, 2008, Associate Professor — paleoclimate, tropical climate variability, time series analysis, Gulf of Mexico/Caribbean and southwest Pacific

Joyce M. Jackson, PhD, Indiana, 1988, Professor — ethnomusicology, folklore, performance centered studies and ritual, Louisiana, Africa & the Diaspora

Barry Keim, PhD, Louisiana State, 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, US 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 Alummi Professor — coastal and underwater archaeology, Maya, Belize, 3D Digital Imaging and 3D Printing

Shelley Xuelian Meng, PhD, Texas State Univ, San Marcos, 2010, Assistant Professor, LSU Coastal Studies Institute (CSI) Fellow — Land-cover/land-use dynamics, urban remote sensing, GIS, feature extraction and 3D visualization, LiDAR for urban and forest applications

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 Regis, PhD, Tulane, 1997, Associate Professor — cities, performance, public space, race, anthropology, Africa and Diaspora

Kevin Robbins, PhD, North Carolina State, 1987, Associate Professor, Director of the Southern Regional Climate Center — agricultural climatology

Robert Rohli, PhD, Louisiana State, 1995, Professor — climatology, meteorology, water resources

David Sathiaraj, PhD, Louisiana State, 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 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 U 2012, Assistant 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:

DeWitt Braud Jr., Director, Academic Area, Coastal Studies Institute

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

Charles McGimsey, PhD, S Illinois U 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, 2002, Research Associate — FACES Lab, Louisiana Repository for Missing Persons and Unidentified Remains

Luke Driskell, MS, Louisiana State 2010, Computer Analyst

Larry Livaudais, MFA, University of Florida 1996, Imaging Specialist/Research Associate — FACES Lab, facial reconstruction

Kyle Brehe, MS, S. Dakota School of Mines, 2007, Research Associate and Services Climatologist — climatology

John Grymes, MS, Delaware, 1986, Professional in Residence — climatology

Yixin Luo, PhD, Louisiana State University — Systems Manager, Systems engineer/HPC

MAINE

UNIVERSITY OF SOUTHERN MAINE

GEOGRAPHY-ANTHROPOLOGY PROGRAM

DATE FOUNDED: 1971

DEGREES OFFERED: B.A.

GRANTED 9/1/16-8/31/17: 9 Bachelors

MAJORS: 37

CHAIR: Lydia Savage

DEPARTMENT ADMINISTRATIVE ASST: Karyn Demmons

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, Adjunct Professor — 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
Yuseung Kim, Ph.D., University of Colorado, Ph.D., 2010, Associate Professor — Sustainable development, agent-based modeling, GIS, urban design, planning support system, land use planning, and community development
Sarah Lockridge, Ph.D., American University, 2008, Adjunct Professor — Gender, economics, development and tourism, indigenous rights, race, ethnicity, nation, and global climate change
Firooza Pavri, 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

BOWIE STATE UNIVERSITY

DEPARTMENT OF HISTORY AND GOVERNMENT

DEGREES OFFERED: Geography Minor

CHAIR: Dr. Sammye Miller

PROGRAM ADMINISTRATIVE ASSISTANT: Betty Carrico

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of History and Government, 0250 Martin Luther King Jr. Communications Arts Center, 14000 Jericho Park, Road, Bowie, MD 20715, Phone: (301) 860-3600. Email: bcarrico@bowiestate.edu, Internet: <https://www.bowiestate.edu/academics-research/colleges/college-arts-sciences/departments/history-and-government/>

PROGRAMS AND RESEARCH FACILITIES: The Department of History and Government offers a minor in geography. Bowie State University is one of the few Historically Black Colleges and Universities (HBCUs) in the country that offers a minor in Geography. Bowie State University geography faculty specialize in cultural, economic, and regional studies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

In order to complete a minor in geography, a student has to complete Elements of Geography I & 2 and any 4 geography electives for a total of 18 credits.

FACULTY:

Sumanth G. Reddy, PhD, Kansas State University 2013, Assistant Professor and Coordinator — Human, medical, tourism, Africa, South Asia

ADJUNCT FACULTY:

Petronella Muraya, PhD.

FROSTBURG STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1964

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

GRANTED 9/1/15-8/31/16: 21 Bachelors

MAJORS: 89

CHAIR: James C. Saku

DEPARTMENT ADMINISTRATIVE ASST: Gale A. Yutzy

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 4724. Fax (301) 687-4495. E-mail: jsaku@frostburg.edu. Internet: www.frostburg.edu/dept/geog/.

PROGRAMS AND RESEARCH FACILITIES: Programs available are a major in Geography with concentrations in Mapping Sciences, Global Systems Analysis, Climate System Science, a major in Earth Science with an Environmental Science concentration and a Teaching Certification option, a major in Environmental Analysis and

Planning, and a major in Urban and Regional 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 — physical geography, climatology, global climate modeling, data inaccuracies and bias

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

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, geography of alcohol

Matthew E. Ramspott, Ph.D., 2006, Kansas, Associate Professor — remote sensing, aerial photo interpretation, land use/land cover, biogeography, environmental geography

Richard A. Russo, Ph.D., 2009, University of Maryland, Associate Professor — cultural, regional and urban geography, geography of food, sustainability issues

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 — place attachment and place identity, critical cartography, ethics in GiSci, rural geography, qualitative and mixed methods, geographic education

ADJUNCT FACULTY:

Tracy L. Edwards, M.A., Syracuse, 2010, Adjunct Lecturer — human and physical geography

Adam P. Lewis, M.Ed., Frostburg State, 1994, Adjunct Lecturer — human, physical and world regional geography

Steven M. Guinn, B.S., Frostburg State 2007, Adjunct Lecturer — mapping science

EMERITI:

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 and B.S. in Urban and Regional Planning; M.S. in GIS Management

GRANTED 9/1/ 15-8/31/ 16: 31 Bachelors, 4 Masters

MAJORS: 108 Geography, 42 Earth Science, 18 Masters

CHAIR: Daniel W. Harris

PROGRAM MANAGEMENT SPECIALIST: Jennifer Gordy

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 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 workstations, color and laser printers, plotters, scanners, and digitizing tablets. We have site licenses for ESRI and Manifold GIS products and have a variety of digital image processing and cartographic drawing software. The Department has laboratories dedicated to Physical Geography and Geology for instruction and research, 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, 2002, Professor — land use planning, urban policy, smart growth
Gina Bloodworth, Ph.D., Pennsylvania State, 2005, Associate Professor — resource management, water resources, environmental policy & law
Thomas R. Cawthern, Ph.D., University of New Hampshire, 2013, Assistant Professor — geochemistry, sedimentology, stratigraphy, marine geology
Mara Chen, Ph.D., Iowa, 1992, Professor — remote sensing, environmental geology, GIS, geosciences education
Mark de Socio, Ph.D., 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, 1998, Professor — geology, water resources and environmental studies
Darren B. Parnell, Ph.D., South Carolina, 2005, Associate Professor — climatology, meteorology, quantitative methods
Craig A. Ramseyer, Ph.D., University of Georgia, 2016, Assistant Professor — climatology and meteorology
Michael S. Scott, Ph.D., South Carolina, 1998, Professor — GIS, environmental hazards, cartography
Keota Silaphone, ABD, University of Maryland College Park, Lecturer — GIS, terrestrial nutrient inputs, watershed planning
Brent R. Skeeter, Ph.D., Nebraska-Lincoln, 1988, Professor and Associate Chair — climatology, meteorology, research methods
Vanessa Smullen, ABD, University of Maryland College Park, Lecturer — physical geography, environmental engineering, groundwater, physical science
Brent J. Zaprowski, Ph.D., Lehigh, 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: 9/1/14-8/31/15 38 Bachelors, 9 Masters

STUDENTS IN RESIDENCE: 105 Majors; 27 Masters

CHAIR: Virginia Thompson (vthompson@towson.edu)

GRADUATE COORDINATOR: Charles Schmitz (cschmitz@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: geography@towson.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: Towson University offers a major and a minor in Geography and Environmental Planning, a minor in Geographic Information Sciences, a minor in Meteorology, and a major in Geography and Land Surveying in partnership with the Community College of Baltimore County-Catonsville. 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. Geography undergraduates also have the opportunity to participate in combined majors in economics, history, sociology/anthropology, and political science. 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, a remote weather station serving the university and linked to the National Weather Service, and the Geospatial Research and Education Laboratory, the latter being dedicated to student and faculty research, educational outreach, and service learning. In June 2011 the department moved into a new College of Liberal Arts complex on campus. 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. We are committed to making the academic experience as enjoyable as possible for our students, while assuring that the learning process is as complete as possible. To this end the Department encourages students to consult with their advisors on a periodic basis. In support of the quest for academic excellence, outstanding student papers are published in the Department's Papers in Geography and a departmental lecture series - "What Matters" - is offered each year.

GRADUATE: 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, and a reading knowledge of a modern foreign language or quantitative competency. Two major tracks are available in the program: I. Geography and II. Planning. 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.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: 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: 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 three 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, Associate Professor — Natural and technological hazards, environmental planning and impact analysis, quantitative methods, Australia and New Zealand
Nathan Burch, Ph.D., University of Maryland, expected 2016, Lecturer — Geography of religion, quantitative methods, urban planning, GIS and cartography
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, Assistant Professor — Pollution knowledge and hydrogeopolitics in the Ganges River Basin.
Kang Shou Lu, Ph.D., Clemson, 2001, Associate 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, Assistant 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
Martin C. Roberge, Ph.D., Arizona State, 1999, Professor — Environmental, biogeography, GIS
Charles Schmitz, Ph.D., Berkeley, 1997, Professor — Human, Middle East, political ecology, globalization
James M. Smith, Ph.D. Kent State University, 2005, Associate Professor and Director of M.A. Professional Studies Program — Ethnic identities; globalization and politics; East Asia
Jeremy Tasch, Ph.D., Clark, 2006, Associate Professor — Eurasia, Political Ecology, Resource Management
Paporn Thebpanya, Ph.D., Georgia, 2003, Associate Professor — Cartography/geographic visualization, GIS, remote sensing
Virginia Thompson, Ph.D., Oklahoma, 1995, Associate Professor and Chair — Urban, social, regional, geographic education

PART-TIME FACULTY:

Douglas Adams, M.A. — GIS Database Design, Photogrammetry
D. Brett Collins, M.A. — Physical, Regional, International Affairs
Peter Conrad, M.A. — Urban and Regional Planning
Ashley Enrici, A.B.D. — Human Geography
Charles L. Goodman, M.R.C.P. — Transportation planning, Comprehensive Planning

Jonathan Lesh, M.A. — Physical, Human, Geography of Maryland, Urban Systems

Jeremy Monn, M.A. — Map Interpretation

Timothy Scott Pruett, Ph.D. — Physical, human and world regional Geography.

Henry L. Schupple, Jr., M.A. — World Regional, Physical Geography

Alireza Shahvari, Ph.D. — Physical Geography

Omar Young, M.A. — Human Geography

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SYSTEMS

DATE FOUNDED: 1967

GRADUATE PROGRAM FOUNDED: 2008

DEGREES OFFERED: B. A., B. S., a joint Bachelor/Master Degree, M.S., Professional Studies Certificate in GIS, Masters of Professional Studies (MPS) in GIS, Ph.D.

GRANTED 1/1/11-12/31/11: 85 Bachelors

MAJORS: 320 Majors, 56 Masters, 16 Ph.D.

CHAIR: Alan Yeakley

DEPARTMENT OFFICE MANAGER: Robin Schmidbauer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Department of Geography and Environmental Systems, 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 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 (UMBC was the recipient of a NSF-funded IGERT (Integrative Graduate Education, Research and Training) grant focused on Water in the Urban Environment that ended in 2010). 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 labs: a GIS/Remote Sensing lab with a Windows 10 network, currently offering 33 workstations and related peripheral devices with access to ESRI, ERDAS, QGIS, and Agisoft Photoscan software along with selected other packages; the cartography instruction lab has 17 workstations equipped with the capability of producing the highest professional quality graphics; 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 specialized GIS and visualization laboratories, 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, 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
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
Andrew J. Miller, Ph.D., Johns Hopkins, 1983, Professor — Geomorphology, hydrology, water resources
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
 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: BS, BS/MS, Master of Professional Studies in GIS (MPS/GIS), Geospatial Intelligence (MPS GEOINT) Ph.D.

GRANTED SPRING 2017: 71 Bachelors, 29 MPS/GIS, 1 Graduate Certificate in GIS, 10 Ph.D.

STUDENTS: 250 Majors, 109 MPS/GIS, 72 Ph.D.

CHAIR: Chris Justice

DIRECTOR OF ADMINISTRATION: Vivre Bell

GRADUATE APPLICATION COORDINATOR: Rachel Berndtson (Ph.D. program), Kristen Bergery (MPS program)

GRADUATE DIRECTOR: Laixiang Sun

FOR FURTHER INFORMATION CONTACT: Department of Geographical Sciences 2181 LeFrak Hall, University of Maryland at College Park, 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 Bldg.). 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 HPC resources are available for graduate students and faculty to use and research projects to build on. The Department has recently developed a Center for Geospatial Information Science (CGIS) with faculty joint appointments in the University's Institute for Advanced Computer Studies (UMIACS). The Center offers short courses on advanced geospatial methods. The Department has also recently established a Joint Carbon Cycle Science Center with the NASA Goddard Space Flight Center, with opportunities for graduate fellowships.

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 programs in Geography and GIS/Remote Sensing. Students specializing in Geography will be exposed to a diversity of

coursework focused on human-environmental interactions, and will choose between two tracks: Development and Sustainability or Environment Systems and Natural Resources. Students specializing in GIS will get computer training in the digital processing of remote sensing observations and cartographic vector data, spatial analysis, and the display of information products in ENVI and GIS software. 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 the (1) Land Use, (2) Global Environmental Change, and (3) Marine and Coastal Management concentrations. The Department also offers two minors, one in Geographic Information Science (GIS) and one in Remote Sensing of Environmental Change (RSEC). The GIS Minor is designed to give undergraduate students from other majors the technical skills needed to acquire, manage, and analyze geographic data, while the RSEC Minor is designed to build students' understanding of global environmental change in order to assess their impacts on the physical and human landscapes, using remote sensing as an analytical tool for identifying the impacts. 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 a Master of Professional Studies (MPS) degree in Geospatial Information Sciences, <http://www.geog.umd.edu/gis/> as well as a graduate certificate in GIS, as well as a Master of Professional Studies (MPS) degree in Geospatial Intelligence as well as a graduate certificate in Geospatial Intelligence, <https://geospatial.umd.edu/education/overview>. 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 15 for Fall admissions for the PhD program, and July 31 for the MPS Graduate Certificate in GIS programs. Full details of University graduate regulations can be found in The Graduate Catalog, available at <http://apps.gradschool.umd.edu/Catalog/public-programs-detail.php?GEOG>. 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 geog.umd.edu/graduate/requirements.

The MPS GIS and GC GIS Program: The Master of Professional Studies (MPS) is a 31- credit degree in Geospatial Information Sciences offering comprehensive training in the key areas of GIS, including geographic information sciences, remote sensing techniques, spatial analytical methods, modeling, and specialized computer programming tailored to GIS needs. The MPS 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://www.geog.umd.edu/gis/>.

The MPS GEOINT and GC GEOINT Program: The Master of Professional Studies and Graduate Certificate in Professional Studies in Geospatial Intelligence (“MPS GEOINT” and “GCPS GEOINT” respectively) programs are dedicated to provide workforce-focused training at the graduate level in ways that can nimbly respond to developments in what is often a rapidly shifting landscape of applied problem-sets, analysis schemes, big and growing datasets, and software platforms that characterized today’s geospatial intelligence. The MPS GEOINT program encompasses a 30-credit (10 units of 3-credit courses) course structure comprising five core courses and a selection of five courses among electives. The GCPS GEOINT program entails 12 credits from four courses (two core and two elective courses). Master’s degree and certificate requirements, as well as admission requirements and application forms, are posted on the web at: <https://geospatial.umd.edu/education/overview>.

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 \$20,602 plus full tuition remission and an option for health insurance, and goes to \$21,633 for a PhD student advanced to candidacy. Graduate Assistants can enroll the UMD employee subsidized health insurance plan and will pay the same premiums as faculty and staff. Tuition remission is worth \$21,088 per year, and insurance subsidies are worth approximately \$6,677 (individual) and \$15,965 (family) based on the insurance level chosen. Some opportunities exist for funding during the summer months. For more information on the graduate programs, contact the graduate advising office: phone, (301) 405-9149; email, rberndts@umd.edu; or the Graduate Director, Dr. Laixiang Sun: phone, (301) 405-4556; lsun123@umd.edu. For information on the MPS GIS program go to <http://www.geog.umd.edu/gis/>.

TENURED/TENURE-TRACK PROFESSORS:

*Giovanni Baiocchi, * Ph.D., University of York, UK 2008, 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 and Associate Chair* — climatology, remote sensing, spatial analysis, space-borne LiDAR

*Martha Geores, * Ph.D., UNC Chapel Hill 1993, Associate Professor* — population and environmental interactions, natural resource definition, landscape, human dimensions of global change

*Matthew Hansen, * Ph.D., University of Maryland 2002, Professor* — land cover/land use change mapping, remote sensing, algorithm development

*Klaus Hubacek, * Ph.D., Rensselaer Polytechnic Institute 2000, Professor* — human dimensions of global change, sustainable development, ecological economics

*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

*Eric Kasischke, * Ph.D., Michigan 1992, Professor* — remote sensing, boreal forest ecology, fire ecology of boreal ecosystems, carbon cycling

*Shunlin Liang, * Ph.D., Boston University 1993, Professor* — cartography, numerical methods, remote sensing

*Tatiana Loboda, * Ph.D., Maryland 2008, Associate Professor* — impact assessment of single and repeated burning on tundra ecosystems of Alaska, supporting the global agenda for malaria eradication via space-time modeling of malaria in SE Asia

Grant McKenzie, Ph.D., University of Santa Barbara 2015, Assistant Professor — GIS/remote sensing, geospatial data analytics and design

*Julie Silva, * Ph.D., Rutgers University 2005, Associate Professor* — uneven economic development in sub-Saharan Africa, environmental justice, human dimensions of global change

*Christina Prell, * Ph.D., Rensselaer Polytechnic Institute 2003, Assistant Professor* — social networks and the environment

*Kathleen Stewart, * Ph.D., University of Maine 2001, Associate Professor* — temporal GIS, event modeling for dynamic GIS, spatiotemporal accessibility, geospatial semantics, geospatial ontologies, spatiotemporal information retrieval

*Laixiang Sun, * Ph.D., Netherlands Institute of Social Studies 1997, Professor and Graduate Director* — regional sciences and economics, climate change mitigation and adaptation

LECTURERS:

Rachel Berndtson, Ph.D., University of Maryland 2009 — Human dimensions

Allen B. Eney, M.A., University of Maryland 1985 — Maryland and the Chesapeake, human dimensions

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

Joseph Trocino, B.A., University of Maryland 1967 — study abroad programs focused on the Caribbean Archipelago

Keith Yearwood, Ph.D., University of Florida 2010 — fluvial geomorphology

*Naijun Zhou, * Ph.D., University of Wisconsin 2005* — Geographical Information Science

RESEARCH PROFESSORS:

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, Research Assistant Professor* — application of satellite information for agricultural monitoring at national and global scales

Molly Brown, Ph.D., University of Maryland 2002, Associate Research Professor — nature-society interface, food security, agricultural development

Louise Chini, Ph.D., Cornell 2003, Research Assistant Professor — global land-use change, coupled human-natural systems, Earth system science

Ariane De Bremond, Ph.D., UC Santa Cruz 2006, Research Assistant Professor — climate change and development, socio-economic teleconnections and interactions with land-use change processes, REDD

*Jan Dempewolf, * Ph.D., U. of Maryland 2007, Research Assistant Professor* — agriculture and supporting ecosystem services, vegetation fire and land cover dynamics, remote sensing

Evan A. Ellicott, Ph.D., University of Maryland 2009, Research Assistant Professor — land cover and land use change, fire ecology, remote sensing

William Emanuel, PhD, Oklahoma State University 1975, Research Professor — global carbon cycle, terrestrial processes, land-cover/land use changes

Kuishuang Feng, Ph.D., University of Leeds 2011, Research Assistant Professor — sustainable consumption and production, human dimensions of global change

- Min Feng, Ph.D., Chinese Academy of Sciences 2008, Research Assistant Professor — ecosystem services and hydrological modeling with intensive data and computation, geo-spatial based environment model development and integration
- Belen Franch, Ph.D., University of Valencia, 2013, Research Assistant Professor — surface albedo, atmospheric correction in the solar spectrum, agricultural monitoring
- Louis Giglio, Ph.D., U. of Maryland 2006, Research Associate Professor — global fire monitoring and fire emissions, remote sensing, and satellite direct broadcast applications
- Samuel N. Goward,* Ph.D., Indiana State 1979, Research/Emeritus Professor — remote sensing, climatology, numerical analysis, modeling
- Pierre Guillevic, Ph.D., Paul Sabatier University 1999, Research Associate Professor — earth surface properties, ecosystem, hydro processes
- Tao He, Ph.D., University of Maryland, Research Assistant Professor — land surface energy budget, data fusion on satellite products
- Michelle Hofton,* Ph.D., Durham University 1995, Research Associate 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 1985, Research Professor — soil organic matter dynamics and greenhouse gases in agricultural systems, ecosystem response to climatic change
- Curtis Jones, Ph.D., University of Florida 2013 — modeling biogeochemical cycling within agricultural systems
- David Lagomasino, Ph.D., Florida International University 2014 — Coastal wetland processes, blue carbon dynamics, remote sensing of forest structure.
- Mengxue Li, Ph.D., Wuhan University of Technology 2009, Research Associate Professor and Director of International Programs — 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, Research Assistant Professor — conserving land-use planning, habitat fragmentation, land use/land cover change and deforestation monitoring, food security
- Jyoteshwar Nagol, Ph.D., University of Maryland 2011, Research Assistant Professor — remote sensing of vegetation dynamics, agriculture and irrigation, near surface remote sensing using small UAVs
- Peter Potapov*, Ph.D., Russian Academy of Science 2005, Research Associate Professor — forest mapping and monitoring, optical remote sensing
- Stephen Prince,* Ph.D., University of Lancaster 1971, Research/Emeritus Professor — biogeography, remote sensing, dryland ecohydrology and plant functional properties at regional to global scales
- Ritvik Sahajpal, Ph.D., University of Maryland 2014, Assistant Research Professor — geostatistics, multivariate analysis, machine learning
- Wilfrid Schroeder, Ph.D., University of Maryland 2008, Research Associate 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, Research Assistant 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
- Sergii Skakun, Ph.D., Space Research Institute Ukraine 2005, Assistant Research Professor — agriculture monitoring, remote sensing
- John Townshend* Ph.D., University College London 1971, Research/Emeritus Professor — land cover dynamics, remote sensing, information systems
- Krishna Prasad Vadrevu*, Ph.D., Osmania University 2000, Research Associate Professor — ecology, remote sensing, spatial analysis
- Dongdong Wang*, Ph.D., University of Maryland 2009, Research Assistant Professor — remote sensing, spatial analysis
- Alyssa Whitcraft, Ph.D., University of Maryland 2014, Research Assistant Professor — agriculture, monitoring and mapping of global agriculture characteristics and processes
- Feng Zhao, Ph.D., Boston University 2010, Research Assistant Professor — LiDAR remote sensing, forest disturbance and regrowth, terrestrial carbon cycle, wetland studies
- POSTDOCTORAL SCHOLARS:**
- Ben DeVries, PhD, Wageningen University 2015 — Landsat, Sentinel, land-cover changes, time series, surface water, eco dynamics
- Katelyn Dolan, PhD, University of Maryland 2015 — forest-carbon mapping/monitoring, lidar tech, field data and modeling
- Junchuan Fan, M.S., University of Iowa 2015 — geospatial semantics
- Wenli Huang, PhD, University of Maryland 2015 — active remote sensing of forests, satellite monitoring of water
- Huiran Jin, Ph.D., State University of New York 2013 — GIS, Land cover/land use classification and biomass estimation
- Do-Hyung Kim, Ph.D., University of Maryland 2015
- Wenjian Ni, Ph.D., Institute of Remote Sensing Applications Chinese Academy of Sciences 2009 — SAR and Lidar data processing, algorithms for exploring estimation of parameters of forest structure, earth system science
- Patricia Oliva, Ph.D., University of Alcala 2010 — active fire detection, burned area mapping, post-fire effects assessment
- Khaloud Rishmawi, Ph.D., University of Maryland 2013 — land degradation, biophysics, vegetation dynamics, remote sensing
- Xiaopeng Song, Ph.D., University of Maryland 2015 — satellite monitoring of land cover/land use change, deforestation, urbanization
- Hao Tang, Ph.D., University of Maryland 2015 — characterizing 3D dynamics of terrestrial ecosystems using lidar remote sensing platforms
- Svetlana Turubanova, Ph.D., Russian Academy of Science 2002 — forest ecology, remote sensing
- Alexandra Tyukavina, Ph.D., University of Maryland 2015 — remote sensing, forest cover change, carbon dynamics
- Lei Wang, Ph.D., Chinese Academy of Sciences 2009, Research Associate — urbanization and global environment change, global forest loss
- Feng Robin Zhao, Ph.D., University of Maryland 2015 — landscape succession simulation, carbon modeling, forest inventory, growth modeling
- 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
- Saurabh Channan, M.S., Johns Hopkins, 2004
- Casper Chung, M.A., University of Maryland
- Charlene M. Dimiceli, B.S., Portland State, 1980
- Allison Gost, M.S., University of Maryland, 2015
- Amy Hudson, B.S., University of Maryland, 2013.
- Michael Humber, M.S., University of Maryland, 2014
- Christina Justice, M.S., University of Maryland, 2015
- Maureen Kelly, B.S., University of Maryland, 2014
- Indrani Kommarreddy, M.S., Dakota State University, 2008
- Patrick McDonough, B.S., University of Maryland, 2015
- Giuseppe Molinaro, M.A., University of Maryland, 2010
- Emilie Murphy, M.S., University of Toulon-Var, 2005
- Jacob Noel, M.A., University of Maryland 2013
- Jack O'Bannon, M.A., University of Virginia, 1997
- Ashwan Reddy, M.S., George Mason University, 2013

Demian Rybock, B.S., University of Washington, 1997
 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
 Will Walsh, B.S., Clemson University, 2011

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+
 George James Collatz, Ph.D., Stanford, 1979, Adjunct Professor — global carbon cycle planning and research
 Ivan Csizsar*, Ph.D., Eotvos Lorand University, Budapest, 1996, Adjunct Associate Professor — remote sensing, fire science, meteorology
 Fischer, Gunther, Ph.D. Adjunct Professor — Land Use Change and Applies Systems Analysis.
 Scott J. Goetz, * Ph.D., Maryland, 1996, Adjunct Associate Professor — remote sensing, biogeography, global terrestrial carbon flux modeling, forest ecology
 Dean Hively*, Ph.D., Cornell, 2004, Adjunct Associate Professor — soil science, remote sensing, watershed biogeochemical processes, GIS, resource conservation
 Anthony Janetos, Ph.D., Princeton, 1980, Adjunct Professor — integrated assessment and analysis of global change modeling
 Jeffrey G. Masek*, Ph.D., Cornell, 1994, Adjunct Associate Professor — land cover change in temperate environments, advanced computing in remote sensing, satellite remote sensing techniques
 Doug Morton, Ph.D., Maryland, 2008 Adjunct Assistant Professor — land cover change in tropical forests, remote sensing methods, ecosystem modeling
 Poulter, Ben. Ph.D., Duke University. Adjunct Associate Professor — ecosystem models, climate change, remote sensing.
 Jun Qin, Ph.D., Beijing Normal University, Adjunct Associate Professor — quantitative remote sensing, data assimilation, climatology
 David Roy, * Ph.D., Cambridge, UK, 1993, Adjunct Professor — land use change and fire, terrestrial remote sensing
 Compton J. Tucker*, Ph.D., Colorado, 1975, Adjunct Professor — forestry, satellite remote sensing, AVHRR, tropical deforestation
 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., Maryland, 1989, Adjunct Professor — forest ecosystems, remote sensing measurements, physiological ecology
 Ali Sadeghi*, Ph.D., University of Arkansas, 1984, Adjunct Professor — water quality monitoring and modeling; pathogen fate and transport.
 Krishna Vadrevu*, Ph.D., Osmania University, Adjunct Associate Professor — remote sensing and GIS applications, satellite remote sensing of fire, biochemical cycling, land cover land use changes

*Members of the Graduate Faculty who have served or are serving on dissertation and thesis committees.

U.S. CENSUS BUREAU

OFFICE OF THE ASSOCIATE DIRECTOR FOR DECENNIAL CENSUS PROGRAMS

CHIEF GEOSPATIAL SCIENTIST: Timothy F. Trainor
 GEOGRAPHY DIVISION CHIEF: Deirdre Dalpiaz Bishop

SCOPE OF OPERATIONS: The Geography Division's activities involve update and maintenance of a digital geographic database (TIGER) and a master address file for the United States, Puerto Rico, and related Island Areas; establishment of criteria for delineating statistical geographic entities, and delineation of such entities or involvement with their delineation by others; collection and maintenance of information about legally established geographic entities; improvement of methods used to attain accurate, complete, and current address and geographic information, including use of global positioning and geographic information systems; production of a variety of maps at various scales to show selected information; dissemination of geospatial information in digital form; and conducting research and developing standards to meet the Census Bureau's obligations for geospatial data.

2020 Census Coordinator: Brian Timko
 Office of the Geographic Operations Advisor: Kaile Bower
 Geographic Support Systems Program Manager: Matthew Zimolzak

DEPUTY CHIEF: Gregory Hanks

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

BRANCHES:

Address Data Collection and Products Branch: Vacant
 Address Frame Update Branch: Robert Damario, Chief
 Address and Spatial Analysis Branch: Lee Wentela, Chief
 Address Standards, Criteria, Quality Branch: Stuart Irby, Chief
 Cartographic Products and Services Branch: Kevin Hawley, Chief
 Federal Geographic Coordination Branch: Lynda Liptrap, Chief
 Geographic Customer Service Branch: Trudy Suchan, Chief
 Geographic Project Management Branch: Jeffrey Martin, Chief
 Geographic Research and Innovation Staff: John Liadis, Chief
 Geographic Standards, Criteria, and Quality Branch: Vincent Osier, Chief
 Geo-Location and Imagery Branch: Joanne Aikman, Chief
 Partnership Communications and Outreach Branch: Carrie Hritz, Chief
 Spatial Data Collection and Products Branch: Ryan Short, Chief
 Spatial Data Update Branch: Daniel Keefe, Chief

POPULATION DIVISION CHIEF: Karen Hume
 Population Geography Staff: James Fitzsimmons, Chief

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. Data programs in which the division participates include the Decennial Census of Population and Housing, the Population Estimates Program, the Current Population Survey, and the American Community Survey.

**SOCIAL, ECONOMIC, AND HOUSING STATISTICS
DIVISION CHIEF:** David Waddington

**ASSISTANT DIVISION CHIEF FOR SOCIAL
CHARACTERISTICS:** Vacant

SCOPE OF OPERATIONS: The Housing and Household Economic 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. Data programs in which the division participates include the Decennial Census of Population and Housing, the Survey of Income and Program Participation, the Current Population Survey, and the American Community Survey.

Journey-to-Work and Migration Statistics Branch: *Alison Fields, Chief*

**CENSUS REDISTRICTING AND VOTING RIGHTS DATA
OFFICE CHIEF:** James Whitehorne

ASSISTANT CHIEF: Colleen Joyce

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, 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 also is responsible for the coordination and production of the Section 203 determinations as required by the newly reauthorized Voting Rights Act.

FIELD DIVISION CHIEF: Vacant

**ASSISTANT DIVISION CHIEF FOR GEOGRAPHY AND
DATA COLLECTION:** Gail Leithauser

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 local 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.

Address Coverage Operations Branch: *Karen Field, Chief*
Decennial Data Collection Branch: *Amy Fischer, Chief*
Geographic Support Branch: *Vacant*
Group Quarters Branch: *Crystal Miller, Chief*

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 Systems Science Track. Accelerated M.S. in Geographic Information Sciences, M.S. in Geographic Information Sciences for Development and Environment
GRANTED 9/1/15-8/31/16: 24 in Geography Bachelors; 5 in Global Environmental Studies Bachelors; 7 Environmental Science: Earth Systems Science Track Bachelors; 13 Ph.Ds, 11 Masters of Art (M.A.) in Geography (predoctoral); 11 M.S. in GIS; 32 M.S. in Geographic Information Sciences for Development and Environment

STUDENTS IN RESIDENCE: 84 Geography Majors; 21 Global Environmental Studies Majors; 11 Environmental Science: Earth Systems Science Track majors; 60 Ph.D.; 7 M.S. in GIS; 51 M.S. in Geographic Information Sciences for Development and Environment

NOT IN RESIDENCE: 4 Ph.D.

DIRECTOR: Anthony J. Bebbington

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 2,300 undergraduates and 1,100 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 GIS for Development and Environment (GISDE) is also available (see below).

The School includes 19 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 7th in Geography and 23rd in Economics with ISI 2-year citation impact factor of 2.824 and 5-year citation impact factor of 4.535 (2015) (www.clarku.edu/econogeography). 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 is one of eleven universities and colleges in the city and surrounding area that form the Higher Education Consortium of Central Massachusetts. The School maintains a graduate student computer room and lounge, office or desk space for most graduate students, an undergraduate lounge, and CoFERT (Computer Facility for Environmental Research and Teaching), 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 Sciences for Development and Environment. 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: <http://www.clarku.edu/departments/geography/maprograms/gisde.cfm>

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, human-environment, GIS-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/>). Majors may also be selected for Clark's competitive internship program with NOAA.

The School also offers a major in Global Environmental Studies (GES) and a concentration in Earth Systems Science (ESS) in 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 concentrators are qualified to apply for the various honors and related programs noted above for geography. The Accelerated Degree Program gives qualifying Clark

undergraduate students access to our high-quality graduate programs and requires students to conduct original research. Applicants to the program who meet certain eligibility requirements can 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 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 the concentration in earth systems science, you may contact the Undergraduate Program Coordinator Rachel Levitt (RLevitt@clarku.edu); Telephone: (508)793-7282. In addition, for Global Environmental Studies, you may also contact ges@clarku.edu; Internet: <http://www.clarku.edu/programs/major-or-minor-global-environmental-studies>. For the Earth Systems Science concentration in the Environmental Science major, you may also contact Professor Karen Frey (KFrey@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. An exception is made for students who are currently studying in the United States, Canada, Great Britain, 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 3-year tuition fellowships and research and teaching assistantships for all admitted students. All students accepted into the program are funded equally. Interested applicants should contact Graduate Program Administrator Brenda Nikas-Hayes (BNikasHayes@clarku.edu); Telephone: (508)793-7337.

FACULTY:

Yuko Aoyama, Ph.D., UC-Berkeley, 1996, Professor of Geography — economic geography, globalization, technological change, social innovation and entrepreneurship
Anthony J. Bebbington, Ph.D., Clark, 1990, Milton P. and Alice C. Higgins Professor of Environment and Society and Director, Graduate School of Geography — human-environment, development geography, social movements, political ecology, extractive industries, Latin America
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 and Director, Clark Labs — geographic information systems, remote sensing, earth system informatics, land use change
Jacque (Jody) L. Emel, Ph.D., Arizona, 1983, Professor of Geography — natural resources, political ecology, feminist theory, governance, animal geographies
Karen Frey, Ph.D., UCLA, 2005, Associate Professor of Geography — climate change, polar environments, sea ice variability, marine/terrestrial biogeochemistry, land surface hydrology, remote sensing
Dominiuk 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 Interim Associate Provost and Dean of Research — urban/social/political geography, law and geography, qualitative methods, place, social movements theories

James 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, Associate Professor of Geography and Editor-in-Chief, *Economic Geography* — economic/urban/development geography, technology, sustainable development, networks, practice theory, Africa

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 and Associate Director, Graduate School 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

Dianne E. Rocheleau, Ph.D., Florida, 1984, Professor of Geography — political ecology, environmental justice, urban ecology, gender, culture, nature, development, decolonial theories, forestry, agriculture, land and territory, social movements, network theories

John Rogan, Ph.D., San Diego State University and UC-Santa Barbara, 2003, Associate 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, Visiting Assistant Professor, Graduate School of Geography and Research Assistant Professor, Clark Labs — conservation biology, geographic information science, remote sensing, landscape ecology

Jefferson Alex Sphar, Ph.D., Clark, 2016, Visiting Assistant Professor, Graduate School of Geography — political economy, political theory, economic/urban/development geography, state theory, Latin America

Christopher A. Williams, Ph.D., Duke University, 2004, Associate Professor of Geography and Director, ES Program — 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, sub-Saharan Africa

Lyndon Estes, Ph.D., University of Virginia, 2008, Research Professor of Geography — geographic information science, remote sensing, land change science, agro-ecology, conservation

Jacqueline Geoghegan, Ph.D., Berkeley, 1995, Adjunct Professor of Geography and Professor and Chair of Economics — spatial econometrics, 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

Robert W. Kates, Ph.D., Chicago, 1962, Distinguished Senior Research Scientist, George Perkins Marsh Institute — sustainability of the biosphere, climate impact assessment, and nature/society theory

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

B.L. Turner II, Ph.D. Wisconsin, 1974, Distinguished Research Professor — human-environment geography, land-change science, global environmental change

EMERITI FACULTY:

Martyn J. Bowden, Professor Emeritus
 Susan Hanson, Distinguished University Professor Emerita
 Douglas L. Johnson, Professor Emeritus
 Duane S. Knos, Professor Emeritus
 William A. Koelsch, Professor Emeritus
 Lawrence A. Lewis, Professor Emeritus
 Robert C. Mitchell, Professor Emeritus
 Henry J. Steward, Professor Emeritus

MOUNT HOLYOKE COLLEGE

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1904

DEGREES OFFERED: B.A.

GRANTED 9/1/00-8/31/14: 268 Bachelors

MAJORS: 47

CHAIR: Thomas Millette

DEPARTMENT ADMINISTRATIVE ASST: Rhodaline Forjwuor

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Thomas Millette, Professor of Geography, Department of Geology and Geography, Mount Holyoke College, 50 College St., Clapp Laboratory #304, South Hadley, Massachusetts 01075-6419. Telephone (413) 538-2278. Fax (413) 538-2239.

E-mail: rforjwuo@mtholyoke.edu.

Internet: <https://www.mtholyoke.edu/acad/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 2,250 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

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 Certificate

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 a certificate in Geo-Information Science. Each program combines a strong academic geography background with applied fields in regional studies, physical geography, travel, 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.

We combine 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; Regional development and planning and Meteorology and climatology, and cartography. We train our students to be top scientists as well as concerned global citizens. Faculty and students 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 physical geography laboratories and the Digital Geography Laboratory (DGL), a geo-computing facility housing digitizing equipment, and an extensive collection of mapping and analytical software. The DGL is regarded as one of the best academic geography-based computer labs in the U.S.

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

UNDERGRADUATE: Applications may be obtained from The Admissions Office, Salem State University, Salem, MA 01970, (978) 542-6200. S.A.T. Scores are required.

GRADUATE: Applications may be obtained from The Division of Graduate Education, Salem State University, Salem, MA 01970, (978) 542-6300 GRE Scores are required.

FINANCIAL AID: Inquiries to the 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:

William L. Hamilton, Ph.D., Oregon State, 1980, Professor — computer assisted cartography, quantitative methods, GIS, digital image processing, physical
John T. Hayes, Ph.D., UCLA, 1986, Associate Professor — climatology, global change, GIS, modeling, physical, environmental impact assessment, resource management
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, 2004, Professor — tourism development, resource management, Latin America, Canada
Marcos Luna, Ph.D., University of Delaware, 2007, Professor — sustainability, resource management, environmental justice, GIS
Stephen Matchak, Ph.D., North Carolina at Chapel Hill, 1982, Professor — tourism, cultural, landscape, New England
Keith A. Ratner, Ph.D., Denver, 2000, Professor — urban and regional planning, GIS, United States, transportation
Steven Silvern, Ph.D., Wisconsin at Madison, 1995, Professor — sustainability, Native Americans, environmental justice, political geography
Stephen S. Young, Ph.D., Clark, 1997, Professor — biogeography, remote sensing, physical, Asia

PART-TIME FACULTY:

Arthur A. Francis, B.S., Salem State, 1979, Lab Meteorologist

STAFF:

Kym Pappathanasi, B.A., Vermont, 1991, Systems Manager — Digital Geography Laboratory

EMERITUS FACULTY:

Richard T. Anderson, Ed.D., Boston, 1983, Professor — economic, marketing, geographic education, world regions
Laurence E. Goss, Jr., Ph.D., Washington at Seattle, 1973, Professor — urban and regional planning, tourism development, Europe
Theodore S. Pikora, Ph.D., Boston, 1973, Professor — recreation, tourism, research methods

WESTFIELD STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING

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 9/2015 to 8/2016: Majors 25 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 and Regional Planning (GARP), 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 GARP 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, sustainability, 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 GARP 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 and Chair — Physical Geography, Quantitative Methods, Site Planning Studio, Tourism Planning
Marijoan Bull, Ph.D., AICP, Salve Regina University, 2008, Associate Professor — Regional and Urban Planning, Housing, and Land Use, Legal Issues, World Regional Geography
Brian Conz, Ph.D., UMass Amherst, 2006, Associate Professor — 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.

WORCESTER STATE UNIVERSITY

DEPARTMENT OF EARTH, ENVIRONMENT AND PHYSICS

DEGREES OFFERED: B.S. in Geography, B.S. in
Environmental Science

GRANTED 2016: 12 (3 in Geography)

MAJORS: Geography: 41; Environmental Science: 62

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:
www.worcester.edu

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

*Timothy L. Cook, Ph.D., University of Massachusetts, 2009, Associate
Professor* — sedimentary processes, Quaternary environmental
change

Allison L. Dunn, Ph.D., Harvard University, 2006, Associate 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

*Alexander R. Tarr Ph.D., University of California, Berkeley, 2016,
Assistant Professor* — Urban Geography, Food Politics, Critical
GIS, Social & Racial Justice

MICHIGAN

CENTRAL MICHIGAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1901

DEGREES OFFERED: B.A., B.S., M.S. (Geographic
Information Science)

GRANTED: 2015-2016 Year: Bachelors - 24, Masters - 5

MAJORS: 76

CHAIR: Mark Francek

DEPARTMENT ADMINISTRATIVE ASST: Nancy L.
Bauer

GRADUATE COORDINATOR: Brian Becker

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Brian Becker, Department of Geography, Central Michigan
University, 296A Dow Science Bldg., Mt. Pleasant, Michigan 48859.
Telephone (989) 774-3323. Fax (989) 774-2907. Email:
becke1b@cmich.edu Web: www.geo.cmich.edu.

PROGRAMS AND RESEARCH FACILITIES:

UNDERGRADUATE: The Department offers majors and minors in
Geography and a major in Environmental Studies. A Geography major
can pursue a specialization in one of the three concentrations:
Geographic Information Sciences (GISci), Environmental and Land
Use Planning, and Geospatial Analysis of the Environment. Minors
exist for Geography and Geographic Information Sciences. The
department also has a long standing teacher preparation program.

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,
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.
The graduate curriculum prepares students for professional careers in
public and private sectors as well as for entering Ph.D. programs.
Faculty research focuses include: geographic information services,
wetland remote sensing, cartographic design, spatial cognition, spatial
modeling, land use analysis, spatial statistics, transportation, China,
and Latin America.

The department manages two instructional laboratories with state-of-
the-art computers and specialized peripheral devices as well as
extensive series of advanced GPS and surveying equipment from
Trimble and Sokkia. 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.

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, and Calkins, and student travel Scholarship
Awards.

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.

FACULTY:

Barbara J. Andersen, Ph.D., University of Idaho, 2017, Lecturer —
urban and regional planning, environmental geography,
landscape history, alternative transportation

*Brian L. Becker, Ph.D., Michigan State University, 2002, Professor
and Graduate Coordinator* — 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 and Interim Chair — earth science education, soils, physical geography.

Marcello Graziano, PhD, University of Connecticut 2014, Assistant Professor & Member of The Institute for Great Lakes Research — economic geography, energy geography, blue growth, mixed-methods, participatory economic development.

Benjamin Heumann, Ph.D., University of North Carolina at Chapel Hill, 2011, Assistant Professor and Director of CMU Center for Geographic Information Science — remote sensing, GIS, biogeography, landscape ecology, ecological modeling, wetlands

Stacey Kerr, PhD, University of Georgia, 2016, Assistant Professor — geography education, gender geography, cultural geography, qualitative research

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 — 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, Assistant Professor — 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 Interim Associate Vice President of Enrollment Management — 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 — 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: Undergraduate 162; Graduate 121

GRANTED 8/15/16-05/30/17: Bachelors 25; Masters 29; Certificates 8

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: rsambrook@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:

ACADEMIC PLAN: 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, A.B.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, PhD. University of Tennessee Knoxville, 2016, Assistant Professor — Cultural/Historical Geography, historic interpretation, memory studies, race and racial justice. American South, critical pedagogy
- Christopher A. Gellase, Ph.D., University of Wisconsin – Madison, 2012, Assistant Professor — Hydrogeology, Hydrology, Hydromechanical Modelling.
- Robert Jones, PhD, 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
- Zachary Moore, Ph.D., Texas State University, 2008, Associate Professor — K-16 geographic education, cultural/human geography, social justice issues, environmental geography, historical geography
- John Oswald, Ph.D., University of Texas at Austin, 2013, Assistant 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.
- Katherine Ryker, Ph.D., North Carolina State University, 2014, Assistant Professor — Geoscience Education, Sedimentology, Stratigraphy, GIS
- 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 — G.I.S., remote sensing, environmental geography
- Xining Yang, PhD. 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.

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. Seven undergraduate courses are listed in the curriculum, and three of them are currently offered online as writing intensive courses to students across the globe: *World Regional Geography*, *Cultural Geography*, and the *Regional Geography of the U.S. and Canada*. 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. 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. 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.

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

Geography Faculty:

M. S. DeVivo, Professor — leadership, history of geography, historical geography, geopolitics, African wildlife conservation and community development

GRAND VALLEY STATE UNIVERSITY

**DEPARTMENT GEOGRAPHY AND SUSTAINABLE
PLANNING**

DATE FOUNDED: 2000

DEGREES OFFERED: B.A. in Geography; B.S. in
Geography

GRANTED 9/1/14-8/15/15: 10

MAJORS: 65

MINORS: 20

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
- Geography with emphasis in Geospatial Technology
- Geography with emphasis in Urban and Regional Planning
- Geography with emphasis in Environment and Global
Development

The department also offers minors in Geographic Information Systems
(GIS), Sustainable Urban and Regional Planning, and the Geography
Education at the secondary level, and undergraduate certification
programs in GIS Technology and Sustainable Urban and regional
Planning.

The Department offers a wide selection of geography and urban and
regional planning courses. Particular strengths are 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.

Elena Lioubimtseva, Ph.D., Moscow State University, 1994, Professor
— climate change, human vulnerability and adaptations, arid
environments, Russia and Central Asia.

Kin M. PhD, 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.

Frank Wash, MPA, Grand Valley State University 2002, AICP —
urban planning, land-use planning.

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 9/2/15-8/18/16: 22 Bachelors, 6 Masters, 7 PhD

STUDENTS IN RESIDENCE: 103 Majors, 7 Masters, 41 PhD

NOT IN RESIDENCE: 2 Masters, 3 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

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, Assistant 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

Sarah Nicholls, PhD, Texas, 2002, Associate Professor — recreation geography

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

Randall J. Schaetzl, PhD, Illinois, 1987, Professor — soil geomorphology, plant geography, Quaternary studies, physical

Ashton Shortridge, PhD, UC-Santa Barbara, 2000, Professor — GIS

Igor Vojnovic, PhD, Toronto, 1997, Professor — urban, economic

Rachel A. White, PhD, Penn State, 2014, Assistant Professor — Cognitive GIScience, geovisualization, remote sensing

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

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

Dorothy K. Hall PhD, Maryland 1980, Adjunct Professor — remote sensing of snow, glaciers and ice sheets, lake ice and sea ice

Sarah L. Hession PhD, Michigan State, 2011, Adjunct Assistant Professor — 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

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

Morris O. Thomas, MA, Michigan State, 1969, Visiting Professor — U.S., world regional, physical

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 9/1/15–8/31/16: 66 Bachelors

MAJORS: 301

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: eegs@nmu.edu. Internet: www.nmu.edu/eegs. Facebook: <https://www.facebook.com/NMUEEGS/>.

PROGRAMS AND RESEARCH FACILITIES: The undergraduate program offers majors in Earth Science; Environmental Studies and Sustainability; Environmental Science; Geomatics; Secondary Education in Earth Science; Secondary Education in Geography. 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, and an on-campus Outdoor Learning Area.

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

Admission Requirements:

See <http://www.nmu.edu/bulletin1617/admission-requirements-and-application-procedures>.

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

Richard Eathorne, M.A., Northern Michigan University, 1977, Assistant Professor — human geography, economic geography, regional (Latin America), environmental 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

Matthew J. Van Grinsven, Ph.D., Michigan Technological University, 2015, Assistant Professor — physical geography, soils, hydrology, carbon cycling, biogeosciences

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 available in Geospatial Techniques; General

Minor in Geography; Geography Minor for Teacher

Certification

DEGREES GRANTED (Or Expected) 9/1/16 – 8/31/17: 11

MAJORS: 33 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, Paleocology

Julie L. Commerford, Ph.D., Kansas State University, 2016, Visiting Assistant Professor — biogeography, paleoenvironmental change, GIS

John Grolle, Ph.D., Michigan State University, 1995, Associate Professor — Physical Geography, Sub-Saharan Africa, Geography of Development

Sara Beth Keough, Ph.D., University of Tennessee, 2007, Professor — human/cultural geography, urban geography, Canada, West Africa, qualitative methods

Andrew Miller, Ph.D., University of Cincinnati, 2010, Associate Professor — GIScience, Natural Hazards, Crime Mapping

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

GRANTED 9/1/15-8/31/16: Bachelors: 21 in Geography, 0 in Community & Regional Planning, 6 in Tourism & Travel, 7 Masters, 4 certificates

STUDENTS IN RESIDENCE: 121 Majors (79 in Geography, 33 in Tourism & Travel, 9 in Community & Regional Planning), 7 in GISci Certificate, and 25 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, and a Graduate Certificate in Geographic Information Science. In the B.S. Geography degree, students may opt for concentrations in general geography, environmental analysis and resource management, geographic information science or teaching of geography. 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.A. 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 ten hours of core courses (Geographic Research, Professional Skills, 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 Techniques. 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 Department has 6 computer laboratories for teaching/learning and research to support GIS, Physical 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 (HReAM), 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 undergraduates geography 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. Applications for financial assistantship submitted to the Department of Geography. Graduate assistants are provided office space, as are other graduate students insofar as possible.

FACULTY:

Kathleen Baker, Ph.D., Michigan State, 2002, Associate Professor & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — geographic information systems, physical geography, geospatial information processing, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods agricultural and biogeography

Matthew Borr, M.A. Western Michigan University, Instructor — geographic information systems, physical geography

Stephen R. Cameron, ABD, Michigan State, 2007, Instructor — Latin America & land cover change, regional geography, geospatial techniques

Lisa DeChano, 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, Associate Professor — geographic information systems, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods

Michael Gutowsky, M.A. Western Michigan University, Instructor — geographic information systems, physical geography, political geography, remote sensing, regional geography

Lucius Hallett IV, Ph.D., Kansas, 2007, Associate Professor — human geography, tourism and travel, culinary geography and food networks, regional geography, agricultural geography, agritourism

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

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

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

Lei Meng, Ph.D., Texas A&M University, 2009, Assistant Professor — land-atmospheric interactions, meteorology and climatology, geo-hydrology & engineering geology, soil physics

Benjamin Ofori-Amoah, Ph.D., Simon Fraser, 1990, Professor, Department Chair & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — economic geography, economic development, urban and regional planning, geographic information systems, Africa

Joseph P. Stoltman, Ed.D., Georgia, 1971, Professor — geographic education, cultural geography, cartographic visualization

Gregory Veeck, Ph.D., Georgia, 1988, Professor — economic geography, agricultural geography, China, qualitative methods, research methods in geography, agritourism, political geography

Jessica Wesel, M.A. Western Michigan University — environmental 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 systems

ADJUNCT FACULTY:

Michelle Metro-Roland, PhD, Indiana University, 2008 — cultural and urban geography, landscape, tourism, semiotics

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:

Kathleen Baker, Ph.D., Michigan State, 2002, Associate Professor & Acting Director, W.E. Upjohn Center for the Study of Geographical Change — geographic information systems, physical geography, geospatial information processing, global positioning systems, computer mapping, surveying techniques, remote sensing, geospatial techniques, spatial analysis, quantitative methods agricultural and biogeography

Gregory Anderson, B.S., Western Michigan — geographic information system analysis

Kevin Agema, B.S., Western Michigan — geographic information system analysis

MINNESOTA

GUSTAVUS ADOLPHUS COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1952

DEGREES OFFERED: B.A.

GRANTED 8/22/16-8/22/17: 10 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 Geography Department cultivates a holistic understanding of human-environment relationships; a critical awareness of environmental and global change; and knowledge of the world's diverse regions. We seek to play a major role in the College's mission of providing an education that "is both interdisciplinary and international in perspective" while simultaneously modeling effective, just engagement with local communities. Geography courses are intellectually stimulating: students are challenged to new understandings of the world around them while developing deeper values of community, service, and justice. We encourage curiosity, problem-solving, collaboration, reflection, and strong oral and written communication. 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, and 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, IDRISI, 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:

Parvathy Binoy, M.A., Syracuse University, 2009, Visiting Assistant Professor — environmental justice, international development, South Asia
Tyler Grupa, M.S., Minnesota State University, 2016, Visiting Instructor — GIS, remote sensing, water resources
Jeff La Frenierre, Ph.D., Ohio State University, 2014, Assistant Professor — physical geography, GIS, mountain geography, water resources, cryosphere, climate change
Anna Versluis, Ph.D., Clark University, 2008, Associate Professor and Chair — human-environment, political ecology, Haiti, remote sensing, disasters
Joaquín Villanueva, Ph.D., Syracuse University, 2013, Assistant Professor — urban geography, political geography, Europe, legal geography

ITASCA COMMUNITY COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1999

DEGREES OFFERED: Associate in Science in Geography/Geographic Information Systems (60 credits—mostly online); GIS Professional Certificate (16 credits—entirely online).

DEGREES GRANTED 9/1/14 – 8/31/15: 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. 218-322-2364 Timothy.Fox@itascacc.edu. <http://www.itascacc.edu/academics/area-of-study/gis/>

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Academic Plans: <http://www.itascacc.edu/> | Academics | Programs & Majors | Geography & GIS.

Application for Admission: <http://www.itascacc.edu/onlinechecklist>

Financial Aid: <http://www.itascacc.edu/finaid>

FACULTY:

Timothy Fox, Program Coordinator, Geography/GIS/Sciences Faculty
Michael LeClaire, GIS Faculty

Kim Nelson, GIS Faculty
Kenny Tapp, GIS Faculty
Erin Mason, GIS Faculty
Richard Bohannon, Geography Faculty

MACALESTER COLLEGE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

DEGREES OFFERED: B.A.

GRANTED 9/1/16-8/31/17: 36 Bachelors

MAJORS: 119

CHAIR: Holly R. Barcus

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. Fax: 651.696.6116. 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 service learning 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. The department hosts the NGS-sponsored Minnesota Alliance for Geographic Education.

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 79 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
David A. Lanegran, Ph.D., Minnesota, 1970, Professor Emeritus
Kelsey McDonald, Ph.D., Minnesota, 2013, Visiting Assistant Professor — medical, GIS, and quantitative analysis
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
Jerry Pitzl, Ph.D., Minnesota, 1974, Professor Emeritus
Laura J. Smith, Ph.D., Minnesota, 2004, Associate Professor — Urban economic, North America, Native Americans, and statistical methods

Daniel Trudeau, Ph.D., Colorado, 2006, Associate 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: 9/1/15-8/31/16: 35 Bachelors, 6 Masters

STUDENTS IN RESIDENCE: 120 Majors, 26 Masters

NOT IN RESIDENCE: 10 Masters

CHAIR: Donald A. Friend

DEPARTMENT OFFICE MANAGER: Carol Reedstrom

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: carol.reedstrom@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; economic, political, urban and historical geography; and earth and atmospheric sciences. Regional emphases include North America – especially the American West and South, Latin America, the Caribbean, Europe, 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 and others. Both labs are networked at high speed to departmental servers with 30 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.

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 or MPA "professional skills" courses. A capstone project and/or internship are required.

FACULTY:

Donald A. Friend, Ph.D., Arizona State, 1997, Professor — physical, geomorphology, mountain environments, conservation
Woo Jang, Ph.D., Georgia, 2012, Associate Professor — transportation, spatial analysis & modeling, GIScience, GPS
Phillip Larson, Ph.D., Arizona State, 2013, Assistant 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
Ginger Schmid, Ph.D., Texas State, 2004, Associate Professor — soils, geographic education, physical
Forrest D. Wilkerson, Ph.D., Texas State, 2004, Associate Professor — field methods, biogeography, geomorphology, American West, Minnesota
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., BS-LS/MS (Bachelor of Science Land Surveying/Mapping Science)

GRANTED 1/1/2015 to 1/1/2016: 40 Bachelors (various degree programs), 1 Masters

MAJORS: 100 declared majors in the various degree programs

CHAIR: David L. Wall

DEPARTMENT ADMINISTRATIVE ASST: Barbara Hartkopf

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, <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/remotely 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, an MS in Geography-Tourism Development, a GIS Graduate Certificate, as well as a B.S. degree in Land Surveying/Mapping Sciences (accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>), a B.A. in Travel/Tourism, a B.A. in Planning and Community Development and a 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, 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, Assistant 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
Chukwunyere Ugochukwu, Ph.D., Jackson State University, 2004, Associate Professor — planning, urban design, preservation
David L. Wall, Ph.D., University of Iowa, 1990, Professor — economic, urban, Latin America
Kyle Ward, Ph.D., Indiana State University, 2007, Associate Professor — social studies education
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 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.

(Geography); B.A., B.S. (Urban Studies); M.GIS; M.A., Ph.D. (Geography)

GRANTED 7/1/15-6/30/16: 180 B.A. /B.S., 2 M.A., 16 M.GIS, 5 Ph.D.

STUDENTS IN RESIDENCE: 653 B.A. /B.S.; 3 M.A.; 36 M.GIS; 36 Ph.D.

NOT IN RESIDENCE: 12

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: geog-dgs@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 up-to-date computing, cartography/GIS, and physical geography laboratories, support for tree-ring analysis, soil characterization, and paleoenvironmental reconstruction, and 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 Institute 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 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; *Cartography*: symbolization; scale problems and generalization; multimedia cartography; cartographic design; digital cartographic production; spatial visualization; history of cartography; *Geographic Information Science*: spatial data handling methods; exploratory spatial data analysis; design of data systems; GIS and society; *Climatology*: climate variability; climate modeling; temperature and precipitation climatology; wind climatology; paleoclimates; climate change; *Cultural Studies of the Environment*: society-environment relations; cultural and urban landscape analysis/ interpretation; cultural memory and place; political ecology; qualitative methods of geographic research; *Cultural Geography*: new cultural geography; landscape and memory; politics of place and identity; cultures of nationalisms; race, ethnicity and sexuality; postcoloniality; migration and transnational cultures; *Economic Development*: regional inequalities; local development initiatives; problems of development in Africa, Asia and Latin America; *Feminist Geography*: social theory; planning history and urban theory; gender, sexuality and the city; feminist methods; *Geographic Education*: cognitive development and geographical learning; environmental education; *Geography of the Developing World*: development geography, political geography and agrarian change; *Historical Geography and Regional Analysis*: public land policy; Scandinavia; Europe; Russia and environs; the European Union; Latin America; the Islamic world; U.S. and Canada; *Land Use and Environmental Planning*: environmental risk assessment; environment quality; geographic research in city and regional planning; *Physical Geography*: paleoenvironments; water resources; environmental change; population geography; processes and impacts of international migrations; *Regional Economic Development*: political economy; development theory and the state; *Society-Environment Relations*: cultural studies of the environment; political ecology; environmental justice; science studies; *Geographical Thought and Practice*: social and cultural theory; society and space; history and philosophy of geography; feminist theory; *U.S. and Canadian Studies*: rural geography; historical geography of North America; minority settlements in America; American metropolitan evolution; *Urban Geography*: New Urbanism; public urban landscapes; culture of cities; transportation and land use; real estate; American cities; urban and regional economic analysis; feminist perspectives on the city.

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.)* — Based on a combination of undergraduate and, if appropriate, graduate grade point averages; scores (for graduates of U.S. institutions) on the Graduate Record Examination that are less than five years old; 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://cla.umn.edu/mgis/program/master-geographic-information-science>

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:

- Bruce P. Braun, Ph.D., University of British Columbia, 1996, Professor* — society-environment relations, political ecology, social and cultural theory, cultural studies of the environment
- 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
- Dodge, S., Ph.D., University of Zurich, 2011, Assistant professor* — GIScience, movement analysis and modeling, spatiotemporal analytics, agent-based simulation, geographic visualization, movement ecology, movement-environment interactions.
- Vinay K. Gidwani, Ph.D. UC-Berkeley, 1997, Professor* — development economics; agrarian/environmental studies
- Kathryn Grace, Ph.D. UC-Santa Barbara, 2008, Assistant 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, Associate 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, Women's Studies* — social geography and political ecology of health; women's health in historical and geographical perspective; U.S., India
- William Craig, Ph.D., Minnesota, 1980, Associate Director, Center for Urban and Regional Affairs, co-director of MGIS Program* — geographic information systems, public policy analysis
- Jeff Crump, Ph.D., University of Nebraska-Lincoln, 1989, Associate Professor, Housing Studies* — housing and patterns of urban development
- Timothy J. Griffis, Ph.D., McMaster University, 2000, Professor, Soil, Water and Climate* — boundary layer climatology, biometeorology, land-atmosphere interactions
- Lawrence M. Knopp, Jr., Ph.D., Iowa, 1989, Director, Interdisciplinary Arts & Sciences, University of Washington Tacoma* — urban, political, gender, sexuality, social theory
- 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
- Ann R. Markusen, Ph.D., Michigan State, 1974, Professor, Planning and Public Affairs, Humphrey Institute of Public Affairs* — urban and regional economic development, urban and regional planning
- Richa Nagar, Ph.D., Minnesota, 1995, Professor, Women's Studies* — development studies, gender studies, South Asia, East Africa, geographic perspectives on women, socialist geography
- Hari Osofsky, J.D., Yale, 1998, Associate Professor and 2011 Lampert Fesler Research Fellow, University of Minnesota Law School* — Climate change, clean energy, environmental justice, law and 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
- *Joseph E. Schwartzberg, Ph.D., Wisconsin, 1960, Professor Emeritus* — South Asia, political, historical cartography, history of 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 Emeritus — medical, Latin America, geographic education

MGIS FACULTY:

For a listing of MGIS faculty, see:
<https://cla.umn.edu/mgis/people/faculty>

MISSISSIPPI

UNIVERSITY OF SOUTHERN MISSISSIPPI

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

DATE FOUNDED: 1912

GRADUATE PROGRAM FOUNDED: 1966

DEGREES OFFERED: B.S. (emphasis areas in GIT and sustainable development); M.S.; and Ph.D. in Geography;
 Certificate in Geographic Information Technology

STUDENTS: 111 Majors, 28 Master's, 4 Doctorates

CHAIR: David Cochran

DEPARTMENT ADMINISTRATIVE ASST: Candice Beavers

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Geography and Geology, 118 College Drive # 5051, The University of Southern Mississippi, Hattiesburg, Mississippi 39406-0001. Telephone (601) 266-4729. Fax (601) 266-6219. Visit us on the Web at www.usm.edu/geography-geology or by email at Candice.Carter@usm.edu.

PROGRAMS AND RESEARCH FACILITIES:

DEGREE PROGRAMS: The Geography program at The University of Southern Mississippi offers the only baccalaureate, master's and Ph.D. degrees in geography in the state of Mississippi. The program provides the opportunity to emphasize cultural geography, geospatial techniques/analysis, regional studies and international development, sustainable development, land-use and land-cover change, nature-society relationships, physical geography (especially biogeography, geomorphology and climate change), coastal studies, environmental analysis/resource management/conservation, hazards (especially hurricanes) and the geography of the South.

The bachelor's program provides the full range of geographical instruction appropriate to a globally literate education. The master's program accents breadth of geography, as well as concentrated education and training in cultural systems, geospatial techniques, remote sensing, physical geography, area studies, natural hazards and field research. The department offers the full range of courses for undergraduate majors at both the Hattiesburg and Gulf Coast (Long

Beach) campuses. The University of Southern Mississippi and geography offer strong academic and research support for Gulf South and lowland South studies. The doctoral program is tailored to a wide range of interests compatible with faculty strengths and research. The department also offers a certificate in Geographic Information Technology.

All concentrations emphasize fieldwork, the application of technical skills, and the development of research capability in a particular concentration of geography. Programs are well-balanced by staff specialties in a variety of systematic and regional areas. The faculty has a strong focus upon international research/field programs in the Caribbean, Central America, and Gulf of Mexico, as well as Great Britain and Europe.

AFFILIATIONS: Resources and facilities at Southern Miss are ample and varied. The department maintains teaching and research facilities at the University's Gulf Coast Geospatial Center on the Gulf Park campus and a research association with the U.S. Army Corps of Engineers Waterways Experiment Station in Vicksburg. The department houses a GIS/RS lab, is actively involved in the Enterprise for Innovative Geospatial Science (EIGS), and is home to the Southern Miss Center for Geospatial Studies. The Geo-Informatics and Hazards Research Laboratory (GHRL) is also housed within the department. Geography maintains a strong alliance with the University's departments of Coastal Sciences, Biology, Anthropology, History, Marine Science and Economic Development. The department works closely with The Nature Conservancy's Caribbean Basin Program for GIS development and data management.

FACILITIES: Geography maintains space in Walker Science Building situated on the main campus in Hattiesburg. The department supports state-of-the-art GIT and mapping labs, a palynology/biogeography lab, a geomorphology lab, a sedimentology lab, a groundwater hydrology lab, the Dendron tree ring lab and a 3-D visualization cave at Stennis. The department also maintains a collection of digital imagery, a superb map collection, and the University's library houses an atlas collection and maintains an impressive collection of geographical publications and journals.

ACADEMIC PLAN, ADMISSION REQUIREMENTS AND FINANCIAL AID:

UNDERGRADUATE: Candidates must be accepted by University Admissions. Degree requirements are 124 hours including 36 hours in geography. The certificate in Geographic Information Technology (GIT) is 15 hours. The department periodically offers online GIS and mapping courses. The University of Southern Mississippi is on the semester system.

GRADUATE: Candidates must be accepted by the University's Graduate School. Admission to the departmental graduate programs is based on GPA, GRE scores, letters of recommendation, the experience record of the student, and compatibility of interests with those of the faculty. Departmental graduate assistantships are for nine months and include health benefits and a waiver of all tuition fees. University grants-in-aid, several internships (NASA, NOAA, DEVELOP, CHL) and fellowships are also available. Center for Higher Learning (CHL) Geospatial research assistantships are a cooperative agreement with the University's Stennis research site. See updates on the Department's Web page (www.usm.edu/geography-geology). Graduate Coordinator — Grant Harley — Grant.Harley@usm.edu.

GEOGRAPHY FACULTY:

Jerry O. 'Joby' Bass, Ph.D., Texas, 2003, Associate Professor — cultural, historical, U.S. South, repeat photography and Middle America (Gulf Park campus)

Greg Carter, Ph.D., (Botany), Wyoming, 1985, Professor — remote sensing, barrier islands, vegetation and coastal systems, environmental change (Gulf Park campus)

David M. Cochran, Ph.D., Kansas, 2005, Associate Professor — political ecology, hazards, tropical cyclones, Caribbean, and Gulf of Mexico (Hattiesburg campus)

Clifton 'Skeeter' Dixon, Ph.D., Texas A&M, 1988, Associate Professor — cultural, frontier settlement studies and land use, coastal ethnogeography, hurricanes, Mexico and Central America (Hattiesburg campus)

Frank Heitmüller, Ph.D., Texas, 2009, Associate Professor — fluvial and coastal geomorphology, sedimentology, Gulf South coastal plain (Hattiesburg campus)

David H. Holt, Ph.D., Arkansas, 2002, Associate Professor — dendrochronology, climatology, GIS, environmental change, Europe (Gulf Park campus)

Mark M. Miller, Ph.D., Arizona, 1988, Professor — regional development, tourism, digital video, ethnogeography and Caribbean (Hattiesburg campus)

George T. Raber, Ph.D., South Carolina, 2004, Professor — Geographic Information Systems, physical and environmental remote sensing, hurricane impacts and land use/land cover change (Hattiesburg campus)

Carl 'Andy' Reese, Ph.D., Louisiana State, 2003, Professor — biogeography, palynology, environmental change, coastal geography and geomorphology

EMERITI FACULTY:

Jesse O. McKee, Ph.D., Michigan State, 1972, Distinguished Professor Emeritus of Geography

Kenneth J. Panton, Ph.D., Kings College, University of London, 1982, Professor Emeritus of Geography

Robert W. Wales, Ph.D., Kansas, 1973, Professor Emeritus of Geography

MISSOURI

NORTHWEST MISSOURI STATE UNIVERSITY

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

DATE FOUNDED: Geography 1970; combined 2012

DEGREES OFFERED: B.A. and B.S. Geography; B.S. Geographic Information Science; 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. Liberal Arts and Sciences; B.A. Philosophy; B.S.Ed. Social Science; M.S.Ed. Teaching History

DEGREES GRANTED 9/1/15-8/31/16: 13 Bachelors; 16 M.S. GIScience; 9 Graduate GIScience Certificates

MAJORS: 44 in Geography/GIScience; 23 Masters in GIScience; 17 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 and environment/resource management.

The department offers an online Master of Science degree in Geographic Information Science. The degree program focuses on applications of GIS in research and industry. Students may earn a graduate certificate in GIS by taking a subset of courses required for the Masters degree.

ACADEMIC PLAN AND ADMISSION REQUIREMENTS: Bachelor's degrees in geography require 31-37 credit hours and a minor, depending on the major emphasis and degree. The comprehensive major in geographic information science requires 55 credit hours. Minors offered by the department require 18-28 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 5 hours of thesis credit. The non-thesis research option requires completion of 33-36 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. 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, Assistant 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, Assistant 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, Assistant 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, Lecturer

Robert Voss, Ph.D., Nebraska-Lincoln, Assistant Professor

Humanities

Dawn Gilley, Ph.D., Missouri-Columbia, Associate Professor

Philosophy

James Eiswert, Ph.D., University of Leuven, Associate Professor

Richard Field, Ph.D., Southern Illinois at Carbondale, Associate Professor

Political Science

Kimberly Casey, Ph.D., Missouri-St. Louis, Assistant Professor

Luke Campbell, Ph.D., Kansas, Assistant Professor

Jessica Gracey, Ph.D., Missouri-St. Louis, Assistant Professor

Brian Hesse, Ph.D., London School of Economics and Political Science, Professor

David Jerome, Ph.D., Arkansas-Fayetteville, Assistant 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 8/21/15-5/31/16: 25 Bachelors, 5 Masters

STUDENTS IN RESIDENCE: 75 Majors, 14 Masters

CHAIR: Michael Urban

DEPARTMENT ADMINISTRATIVE ASSISTANT: Dina Nichols

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Department of Geography, University of Missouri-Columbia, 303 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, and 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, and neotectonics

TECHNICAL STAFF:

Timothy Halthcoat, M.S., Missouri-Columbia, 1987, Director, Geographic Resources Center (GRC) and MSDIS; Deputy Director, Center for Geospatial Intelligence — Spatial data analysis, digital image processing, conflation, error mapping

Martin Wills, B.Sc. (Hons) Environmental Science, Manchester Metropolitan University, UK, 1997, Internet Administrator — website design and maintenance

MONTANA

UNIVERSITY OF MONTANA

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1956

GRADUATE PROGRAM FOUNDED: 1965

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

GRANTED 9/1/15- 8/31/16: 17 Bachelors, 4 Masters

STUDENTS IN RESIDENCE: 64 Majors, 16 Masters

CHAIR: David Shively

DEPARTMENTAL ADMINISTRATIVE ASSOCIATE:

Angela Melton-Paisley

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. Internet: <http://hs.umn.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers baccalaureate and graduate degrees with or without options, focusing on Mountain Environments, Community and Environmental Planning, and Geospatial Technologies and

Perspectives/GIS. The Bachelor of Arts program is designed to provide students with an integrative, liberal-arts education, while the Bachelor of Sciences offers a stronger footing in mathematics and sciences (STEM). The B.A. is offered with option in Community and Environmental Planning, and the B.S. can be pursued with option 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 Arts is offered without option (general geography) and the Master of Science is offered without option, with option in Cartography and GIS, and with option in Community and Environmental Planning. Geography graduate program with or without options give students the opportunity to pursue one of the following tracks: a thesis track, a professional paper track, or a non-thesis (exam and portfolio) track. The choice of tracks offers graduate students much flexibility in matching their graduate education with their career goals. Credits vary by option and track, typically 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://hs.umn.edu/geography/>.

Geography's Geospatial Research and Teaching (GReaT) Laboratories are comprised of a 24-seat teaching classroom and a 15-seat student-use lab. A comprehensive selection of GIS software is available, including ArcGIS, ENVI, Erdas, Idrisi, PCIGeomatica, TransCAD, GeoDa, Feature Analyst, LiDAR Analyst, Sketchup Pro, MapViewer, Surfer, Grapher, 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 three-week winter session in January; two five-week and one ten-week summer sessions; as well as specialized short-course sessions.

Prospective undergraduate students should consult *The University of Montana 2016-2017 Catalog* or contact Admissions and New Student Services at <http://admissions.umn.edu/>, for information regarding admission requirements.

Graduate applications must be accompanied by official transcripts, three letters of recommendation, official GRE or TOEFL 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 March 1st for Fall Semester Admission and TA consideration. To be considered for a teaching assistantship, applications must include a letter stating interest in and describing qualifications for a TAship. Applications for admission may be considered after March 1st based on available capacity. Information regarding the graduate application procedure is available on The University of Montana's Graduate School website, <http://www.umn.edu/grad/>.

The Department of Geography has several graduate teaching assistantships that carry a stipend and remission of tuition. The department is also allotted several part-time positions for undergraduate students through the university's work-study program. Opportunities for employment related to faculty research or consulting

projects are increasingly available. Information regarding other potential sources of financial assistance can be obtained from the Financial Aid Office <http://www.unt.edu/finaid/>

FACULTY:

- T.H. Diep Dao, Ph.D., North Carolina at Charlotte, 2013, Assistant Professor* — Geographical Information Science (GIScience), spatial analysis and modeling, spatial data mining, geocomputation, GPS-based positioning and navigation
- Rick Graetz, Doctorate of Honorary Letters, Montana, 2004, Lecturer* — Montana, mountains, North America
- Sarah J. Halvorson, Ph.D., Colorado, 2000, Professor* — health, gender, water resources, mountain environments, hazards, qualitative methods, Asia, Africa
- Ulrich Kamp, Dr. rer. nat. (Ph.D.), Technical University of Berlin, 1999, Professor* — high-mountain geography, quaternary, geomorphology, glaciology, environmental and climate change, natural hazards, river restoration, remote sensing, Middle East, South Asia, South America, Europe
- Anna E. Klene, Ph.D., Delaware, 2005, Associate Professor* — climate, cryosphere, global change, remote sensing and GIS, Arctic and mountain geomorphology
- Kevin G. McManigal, M.S., Montana, 2011, Lecturer* — cartography, GIS, remote sensing, mountain geography, glaciology
- Christiane von Reichert, Ph.D., Idaho, 1992, Professor* — migration, economic geography of rural areas, transportation, quantitative methods, socio-demographic analysis, Europe
- David D. Shively, Ph.D., Oregon State, 1999, Professor and Chair* — community and environmental planning, water resources management, hazards, North America
- Thomas Sullivan, Ph.D., Louisiana State, 2010, Visiting Assistant Professor* — social and cultural geography, urban/neighborhood planning, sustainable transportation, place and identity studies, American West
- Christiane von Reichert, Ph.D., Idaho, 1992, Professor and Chair (2013-2016)* — 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:

- Donald Alford, Ph.D., Colorado-Boulder, 1973*
- Heather Almquist, Ph.D., Lund (Sweden), 1994*
- Kyle Balke, M.S., Montana, 2010*
- Laura Becerra, Ph.D., Montana, 2015*
- Claudia Carr, Ph.D., Chicago, 1977*
- Rory Cowie, Ph.D., Colorado-Boulder, 2014*
- Faith Ann Heinsch, Ph.D., Texas A&M, 2002*
- Zachary A. Holden, Ph.D. Idaho, 2008*
- Ia Iashvili, Ph.D., Tbilisi State, Georgia, 1998*
- Irena Mrak, Ph.D., Ljubljana, Slovenia, 2009*
- Leah Samberg, Ph.D., Santa Cruz, 2011*
- Fernando Sánchez-Trigueros, Ph.D., Rovira i Virgili, Spain, 2013*
- Tamara Wall, Ph.D., Montana, 2007*
- Hans Zuuring, Ph.D. Iowa State, 1974*

NEBRASKA

UNIVERSITY OF NEBRASKA - KEARNEY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1960

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

GRANTED 5-15-14 – 5-15-15: 10 Bachelors

MAJORS: 28

CHAIR: Jason Combs

DEPARTMENT ADMINISTRATIVE ASST: Valerie Vierk

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Jason Combs, Department of Geography, University of Nebraska-Kearney, 203 Copeland Hall, Kearney, Nebraska 68849. Telephone (308) 865-8355. E-mail: combsjh@unk.edu. Internet: <http://www.unk.edu/academics/geography/index.php>.

PROGRAMS AND RESEARCH FACILITIES:

The department provides a well-rounded undergraduate major and minor in geography, including a B.S. degree emphasizing GIScience and an interdisciplinary Environmental Science minor. A teaching subject endorsement in geography is also available for students seeking education degrees. Department curriculum aims toward a broad yet integrated perspective on the discipline. The University of Nebraska-Kearney emphasizes undergraduate research and geography students have numerous opportunities for independent projects and to work closely with faculty on research initiatives. The department is located on the second floor of Copeland Hall. GIScience facilities include a ten-PC instructional lab equipped with adequate server storage, large-format scanner, ArcGIS, Erdas Imagine, Adobe Illustrator, SPSS, and Microsoft Office software. Additional PCs are available to support student and faculty research. Other equipment includes mapping-grade GPS units, a commercial-grade Gidding's probe with dedicated truck, spectra radiometer, soil moisture probe, evapotranspiration gage, water quality monitoring system, and portable and permanent weather stations. The department also houses a collection of historic air photos covering Nebraska and has an active Gamma Theta Upsilon chapter.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Semester system, including four, five, and eight week summer terms. Additional information on admission and financial aid can be obtained by writing the Office of Admissions, University of Nebraska-Kearney, Kearney, Nebraska 68849 or consulting the University web site at <http://www.unk.edu/index.php>.

FACULTY:

- John Bauer, Ph.D., Kansas 2006, Professor* — cultural, North America, cartography, GIS
- Vijendra Boken, Ph.D., University of Manitoba 1999, Professor* — remote sensing, agriculture, water resources
- Paul Burger, Ed.D., Oklahoma State University 1997, Professor* — GIS, economic, population, political
- H. Jason Combs, Ph.D., University of Nebraska 2000, Professor and Chair* — cultural, human, urban
- Jeremy Dillon, Ph.D., University of Kansas 2002, Professor* — soils, geomorphology
- Nathan Eidem, Ph.D., Oregon State University 2011, Lecturer* — GIS, environmental
- Matthew Engel, Ph.D., University of Nebraska 2007, Lecturer* — human, cultural, world regional

UNIVERSITY OF NEBRASKA- LINCOLN

GEOGRAPHY AND SPATIAL SCIENCE

DATE FOUNDED: 1906

GRADUATE PROGRAM FOUNDED: 1906

DEGREES OFFERED: BA, BS, MA, PhD

DEGREES GRANTED 2016-2017: 16 Bachelors, 3 Masters

STUDENTS: 42 Majors, 21 Masters, 9 PhD

DEPARTMENT CHAIR: Paul Hanson

GRADUATE CHAIR: Elizabeth Walter-Shea

FOR INFORMATION CONTACT: Geography and Spatial Science, School of Natural Resources, University of Nebraska-Lincoln, 3310 Holdrege St., Lincoln, NE 68583-0973. Telephone: (402) 472-7762. Fax: (402) 472-2946 E-mail: phanson2@unl.edu
Internet: <http://geography.unl.edu>
AND <http://snr.unl.edu/climatespatial/#>

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 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; (3) *Natural Resources*. Students can pursue interdisciplinary studies in geomorphology, conservation biology, water resources, natural hazards, climatology and related areas in conjunction with faculty of the School of Natural Resources; and, (4) *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 Hardin Hall, a modern research and classroom facility that also houses other units of the School of Natural Resources. The facility includes specialized laboratories and several nationally-recognized research centers including the Center for Advanced Land Management Information Technologies (CALMIT), the High Plains Regional Climate Center (HPRCC) and the National Drought Mitigation Center (NDMC). 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, the Department of Agronomy and Horticulture 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. Research assistantships may be available through the various Centers within the School of Natural Resources. 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:

Douglas M. Amedeo, PhD, Iowa, 1967, Professor Emeritus — spatial theory, quantitative analysis, environment and behavior, diffusion
J. Clark Archer, PhD, Iowa, 1974, Professor — political, settlement, computer cartography, 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
John Carroll, PhD, North Dakota, 1989, Director of SNR and Professor — population biologist
Kenneth Dewey, PhD, Toronto, 1973, Professor — climate variations, severe weather
Anatoly A. Gitelson, PhD, IRT, 1972, Professor Emeritus — remote sensing of water quality, vegetation and the atmosphere
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
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
Merlin P. Lawson, PhD, Clark, 1973, Professor Emeritus, Geosciences — climate change, climate reconstruction, remote sensing
Katherine Nashleas, PhD, Nebraska, 2005, Lecturer — human geography, ethnic studies, Africa, human dimensions of natural resources
Donald C. Rundquist, PhD, Nebraska, 1977, Professor Emeritus — remote sensing, geographic information systems (GIS)
Robert H. Stoddard, PhD, Iowa, 1966, Professor Emeritus — human/social, field techniques; South Asia
Brian D. Wardlaw, 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
Arthur I. Zygielbaum, PhD, Nebraska 2009, Research Associate Professor — remote sensing of vegetation, GIScience

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 AT OMAHA

DEPARTMENT OF GEOGRAPHY-GEOLOGY**DATE FOUNDED:** 1958**GRADUATE PROGRAM FOUNDED:** 1965**DEGREES OFFERED:** B.A., B.S., M.A.**GRANTED 9/1/15-8/31/16:** 36 Bachelors, 3 Masters**STUDENTS IN RESIDENCE:** 111 Majors, 69 Masters**NOT IN RESIDENCE:** 6 Masters**PROGRAM DIRECTOR:** Rex Cammack**DEPARTMENT ADMINISTRATIVE ASST:** Brenda Todd**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Chair, Graduate Program Committee, Department of Geography-Geology, University of Nebraska at Omaha, Omaha, Nebraska 68182-0199. Telephone (402) 554-2662. Fax (402) 554-3518. Web www.unomaha.edu/geogeo/.

PROGRAM 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 \$13,030 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.unomaha.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.unomaha.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
- James J. Hayes, Ph.D., Indiana University, Bloomington, 2008, Assistant Professor* — remote sensing, landscape ecology, human-environment interaction, impacts of development and land change on ecological systems.
- 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

TECHNICAL STAFF:

- Paul Hunt, M.A., University of Nebraska at Omaha, 2009, Coordinator* — Cartography and GIS.

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; Ph.D. in Geography

GRANTED 9/1/16-8/31/17: 8 Bachelors, 1 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 44 Majors, 5 Masters, 14 Ph.D.

CHAIR: Jill S. Heaton

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, and Cartography). Our approach encourages problem solving that utilizes spatial reasoning and the analysis of questions at multiple spatial scales: local, regional and global.

The Department of Geography houses a dendrochronology laboratory and palynology laboratory for paleoclimate reconstruction, the Office of the State Climatologist and UNR weather station, an extensive map collection, and equipment for field studies focusing on mountain environments, climatology, 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 is comprised of the full range of programs and facilities found in land-grant institutions. The Knowledge Center at the University contains an excellent journal collection.

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, 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.

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 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, Assistant Professor* — conservation biogeography; ecoclimatology; landscape ecology and remote sensing
- Scott D. Bassett, D.Des., Landscape Architecture and Environmental Planning, 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, Associate 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 Csank, PhD, — paleoclimatology, isotope geochemistry, dendrochronology and plant-climate interactions
Jill S. Heaton, PhD, Oregon State University, 2001, Associate Professor — arid land ecology, GIS, spatial statistics
Stephanie McAfee, PhD, Arizona, 2009, Assistant Professor — climatology, climate services, high-latitude geography
Scott A. Mensing, PhD, UC Berkeley, 1993, Professor — paleoecology, Quaternary studies, field methods
Kerri Jean Ormerod Ph.D., Geography, University of Arizona, Tucson, 2015, Assistant Professor — Environmental governance, drought hazards, socio-cultural components of risk perception, urbanization, sanitation, infrastructure, and common sense
Paul F. Starrs, PhD, UC Berkeley, 1989; Regents & Foundation Professor of Geography, Past-Editor Geographical Review — natural resources, cultural, Mediterranean landscapes, Nevada and the American West, historical
Scotty Strachan, MS, University Nevada, Reno, 2010, Research Faculty — dendrochronology, environmental monitoring, great basin climatology water resources

ADJUNCT 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 — 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
Kenneth Nussear, PhD — distributional limitations of plants and animals, desert ecology, physiological ecology, conservation biology
Anna Klimaszewski-Patterson, PhD — Paleoecology, 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, Ph.D — GIS Coordinator at Truckee Meadows Regional Planning Agency
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 9/16-6/17: 32 Bachelors

MAJORS: 80

CHAIR: Susanne Freidberg

DEPARTMENT ADMINISTRATOR: Kelly Palmer

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Professor Susanne Freidberg, 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, cartography 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 on in the local area, the department sponsors a foreign study 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:

Jonathan W. Chipman, Ph.D., University of Wisconsin-Madison, 2001 — Remote Sensing, GIS, Spatial Analysis & Modeling
Julie L. Commerford, Ph.D., Kansas State University, 2016, Visiting Assistant Professor — biogeography, paleoecology, vegetation-fire-climate interactions, grasslands
Joshua J. Cousins, Ph.D., University of Michigan, 2016, Postdoctoral Fellow — Political ecology, urban geography, water resources, resource governance, sustainability
James T. Dietrich, Ph.D., University of Oregon, 2014, Neukom Fellow — Remote sensing, fluvial geomorphology, GIS, environmental monitoring
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
Coleen A. Fox, Ph.D., University of Oregon, 2000, Senior Lecturer — Southeast Asia, political ecology, water resources
Susanne Freidberg, Ph.D., Berkeley, 1996, Professor — Agro-food, political ecology, science and technology studies, development
Christopher S. Galletti, Ph.D., Arizona State University, 2015, Postdoctoral Fellow — Remote sensing, global change, urban environments, GIS
Garnet L. Kindervater, Ph.D. (scheduled), University of Minnesota, 2017, Lecturer — Political & Cultural Geography, catastrophe and Human Security, Nature/Society in the Anthropocene, History of Modern Thought, Contemporary Critical Theory, Continental Metaphysics
Katharine H. Kindervater, Ph.D., University of Minnesota, 2015, Society of Fellows — War/violence, science & technology, political & historical geography
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
Greta M. Marchesi, Ph.D., University of California, Berkeley, 2016, Postdoctoral Fellow — 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

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
Stephanie A. Spera, Ph.D., Brown University, 2016, Neukom Postdoctoral Fellow — Land use change, remote sensing, global environmental change, Brazil, spatial analysis
Jonathan M. Winter, Ph.D., Massachusetts Institute of Technology, 2009, Assistant Professor — Climate Impacts on Water Resources & Agriculture, Climate Variability and 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 — Dendrochronology, biogeography, climatology, field methods, feminism & science
David T. Lindgren, Ph.D., Boston, 1969, Professor — 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 complementing 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 complemented 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, and 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

DATE FOUNDED: 1968

DEGREES OFFERED: B.A.

GRANTED 9/1/15-8/31/16: 19 Bachelors

MAJORS: 38

CHAIR: Mary Stampone

DEPARTMENT ADMINISTRATIVE ASST: Ginny Bannon

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Mary Stampone, Chair, Department of Geography, University of New Hampshire, 102 Huddleston Hall, 73 Main Street, Durham, New Hampshire 03824-2541. Telephone (603) 862-1719. Fax (603) 862-4362. E-mail: mary.stampone@unh.edu. Internet: <http://www.unh.edu/geography/>

PROGRAMS AND RESEARCH FACILITIES:

The department offers an undergraduate program exclusively. The program provides students a solid foundation in geography that enables them to pursue a variety of careers or enter graduate school.

Students are taught primarily in small classes, allowing opportunity for close contact with faculty. Emphasis is placed on individual work, particularly in upper division courses. Students are encouraged to confer frequently with faculty regarding courses, research, internships, and career opportunities.

To earn a bachelor of arts in geography, students must complete ten geography courses—five core courses in world regional geography, human geography, physical geography, and geographic information systems; four courses in one of three areas of concentrations; plus one elective. Geography majors must choose a concentration in human geography, environmental geography, or geotechniques. In addition to the core courses, classes are offered in urban geography, political geography, economic geography, weather and climate, landforms, natural hazards, field methods, remote sensing, and other areas. Regional courses are offered on New England, United States and Canada, Latin America, the Middle East, and China.

Faculty are currently engaged in research projects about globalization in the Middle East, immigration in New England, climate change in New England, Chinese capital and labor in global production networks, and fisheries management.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Application for admission to the Geography program and for financial aid should be directed to the Admissions Office, Grant House, University of New Hampshire, Durham, New Hampshire. College Entrance Examination Board Scholastic Test scores required.

FACULTY:

Jennifer F. Brewer, Ph.D., Clark, 2007, Associate Professor — human-environment interactions, political ecology, common property institutions, environmental governance, fisheries, adaptation to environmental change
Blake Gumprecht, Ph.D., Oklahoma, 2000, Associate Professor and Chair — urban, cultural, historical, North America, New England
Tu Lan, Ph.D., North Carolina, 2014, Assistant Professor — economic geography, global production networks, transnational migration and entrepreneurship, critical theory, China, Italy
Maingi Solomon, Ph.D., West Virginia University, 2015, Lecturer — human-environment interactions, political economy of agrarian systems, environmental conflict in Africa
Mary D. Stampona, Ph.D., Delaware, 2009, Associate Professor and New Hampshire State Climatologist — climate, climate monitoring and modeling, cryosphere
Russell Congalton, Ph.D., Virginia Polytechnic, 1984, Professor, Department of Natural Resources and the Environment — remote sensing, GIS, spatial data analysis, natural resources

EMERITI FACULTY:

Robert L.A. Adams; Ph.D., Clark

NEW JERSEY

ROWAN UNIVERSITY

DEPARTMENT OF GEOGRAPHY, PLANNING & SUSTAINABILITY

DATE FOUNDED: 1970

DEGREES OFFERED: 4 Baccalaureate degree programs
(See below)

GRANTED 9/1/16 – 8/31/17: 49 Bachelors

MAJORS: 192

CHAIR: Patrick Crumrine

DEPARTMENT ADMINISTRATIVE ASST: Laura Ruthig

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Patrick Crumrine, Department of Geography, Planning & Sustainability, Robinson Hall, 201 Mullica Hill Rd., Rowan University, Glassboro, New Jersey 08028. Telephone (856) 256-4812. Fax (856) 256-4670 E-mail: hasse@rowan.edu. Internet: www.rowan.edu/geography

PROGRAMS AND RESEARCH FACILITIES: The Department offers four baccalaureate degree programs, nine minors and two 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 concentrations include: Geoscience, Environmental 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 and Sustainable Urbanism 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 & ENVIRONMENT FACULTY:

Zachary Christman, Ph.D., Clark University, 2010, Assistant Professor — landscape change, GIS, remote sensing, vulnerability, health

Patrick Crumrine, Ph.D., University of Kentucky, 2003, Associate Professor — aquatic ecology, community ecology, conservation biology

John Hasse, Ph.D., 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

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

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

Denyse Lemaire, Ph.D., Free University of Brussels, 1992, Professor — glaciology, geology, environmental science

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 9/1/15-8/31/16: 23 Bachelors, 0 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 40 Majors, 1 Masters, 41 Ph.D.

CHAIR: Robin Leichenko

GRADUATE DIRECTOR: Laura Schneider

DEPARTMENT ADMINISTRATIVE ASST: Cleo Bartos

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Undergraduate: Office of 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. Internet: geography.rutgers.edu.

PROGRAMS AND RESEARCH FACILITIES: 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 State Climatologist, and maintains close ties with a number of interdisciplinary units across the university including the Center for Urban Policy Research, the Institute of Marine and Coastal Sciences, the Center for Historical Analysis, the Center for Cultural Analysis, Centers for African, Latin American, Latino and Hispanic Caribbean, South Asian and European Studies, 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 mixture of fellowships and teaching assistantships. All application materials must be received by January 15 for admission the following academic year.

FACULTY (members of core department and graduate program):

D. Asher Ghertner, Ph.D., 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, India

Robin Leichenko, Ph.D., Pennsylvania State, 1997, Professor — economic geography, climate change vulnerability, human dimensions of global environmental change

Asa Rennermalm, Ph.D., Princeton, 2007, Associate Professor — physical geography, hydrology, climatology, Arctic region, Greenland ice sheet

David A. Robinson, Ph.D., Columbia, 1984, Professor, N.J. State Climatologist — climatology, cryosphere, regional climates, physical geography

Kevon Rhiney, Ph.D., University of the West Indies, 2010, Assistant Professor — global environmental change, social and environmental justice, food security, small developing countries, Caribbean

Laura C. Schneider, Ph.D., Clark, 2004, Associate Professor — land change science, biogeography, remote sensing, GIS, and Latin America

Richard Schroeder, Ph.D., 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, GIS

GRADUATE FACULTY (members of graduate program only):

Gail M. Ashley, Ph.D., British Columbia, 1977, Professor — quaternary, sedimentology, glacial geomorphology, environmental planning
James DeFilippis, Ph.D., Rutgers, 2000, Associate Professor — community development, housing policy, immigration, labor
Michael R. Greenberg, Ph.D., Columbia, 1969, Professor — environmental health and risk analysis, nuclear waste management
Heidi Hausermann, Ph.D., Arizona, 2010, Assistant Professor — agrarian change, political ecology, land-use/land-cover change
H. Briavel Holcomb, Ph.D., Colorado, 1972, Professor — urban redevelopment, inequalities, tourism, cyberspace
David M. Hughes, Ph.D., California-Berkeley, 1999, Professor — environmental anthropology, landscape, extractive industries, Africa, Caribbean
Robert W. Lake, Ph.D., Chicago, 1981, Professor — urban and political geography, environmental politics, planning and social theory
Richard G. Lathrop, Ph.D., Wisconsin-Madison, 1988, Professor — remote sensing, geographic information systems, landscape ecology
Melanie McDermott, Ph.D., California-Berkeley, 2000, Visiting Scholar — human ecology, political ecology, community forestry, climate change
Pamela McElwee, Ph.D., Yale, 2003, Associate Professor — biodiversity, conservation, climate change, environmental change, political ecology
Kathe Newman, Ph.D., City University of New York (CUNY), 2001, Associate Professor — urban politics, urban revitalization, gentrification
Karl F. Nordstrom, Ph.D., Rutgers, 1975, Professor — coastal geomorphology and management, environmental restoration
Karen M. O'Neill, Ph.D., California-Los Angeles, 1998, Associate Professor — environmental policy, water, state building, experts, organizations
Frank J. Popper, Ph.D., Harvard, 1972, Professor — land use, environmental and regional policy, natural resources management
Edward Ramsamy, Ph.D., Rutgers, 2001, Associate Professor — development, social theory, race, culture and identity, Southern Africa
Thomas Rudel, Ph.D., Yale, 1977, Distinguished Professor — land use change, sustainable development, environmental sociology, Latin America
Mi Shih, Ph.D., Rutgers, 2010, Assistant Professor — land development, international urbanization, social protests and citizenship in China
David Tulloch, Ph.D., Wisconsin-Madison, 1997, Associate Professor — geo-spatial technologies; environmental and land-use planning
Lyna Wiggins, Ph.D., California-Berkeley, 1981, Associate Professor — GIS, planning methods, computer applications in planning
Ming Xu, Ph.D., California-Berkeley, 2000, Associate Professor — ecosystem ecology, remote sensing, modeling

AFFILIATED FACULTY AND STAFF:

Carrie Mott, Ph.D., University of Kentucky, 2016, Instructor — feminist political geographies, race, justice, social movements, pedagogies
Paul O'Keefe, Ph.D., West Virginia University, 2015, Instructor — Development Geography, Political Ecology, Africa
Michael Siegel, M.L.S., Rutgers, 1983, Cartographer

EMERITUS FACULTY:

Robert M. Hordon
Bonnie McCay
J. Kenneth Mitchell
Joanna Regulska
Peter O. Wacker

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1992

DEGREES OFFERED: B.S. Geography, Masters of Applied Geography

GRANTED 9/1/16-5/31/17: 21 Bachelors, 8 Masters

STUDENTS IN RESIDENCE: 57 Majors, 25 Masters

DEPARTMENT HEAD: Dr. Carol L. Campbell

DEPARTMENT SECRETARY: Susan DeMar

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, New Mexico 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 (two distinct concentrations in Geographic Information Science and Technologies (GIS&T) and Human Environment Relationships) and a Master of Applied Geography. We emphasize GIS&T, geomorphology, biogeography, landscape ecology, arid environments, U.S.-Mexico border, water policy, transportation geography, remote sensing, environmental analysis, cultural geography, and the 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 an excellent 30-seat geospatial teaching classroom.

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 (LTER), 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 at admissions.nmsu.edu/contact-us/ or gradadmissions.nmsu.edu/admissions/. A variety of scholarships and fellowships are available through the department 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 AND PART-TIME FACULTY:

Christopher P. Brown, Ph.D., San Diego State University, 1998, Associate Professor — U.S. Mexico border, water resource management, political ecology, GIS
Micheala Buenemann, Ph.D., Oklahoma, 2007, Associate Professor — arid environments, landscape ecology, GIS, remote sensing
Carol J. Campbell, Ph.D., UCLA, 2005, Associate Professor — biogeography, remote sensing, landscape ecology, Human-environment
Robert J. Czerniak, Ph.D., Colorado, 1979, Professor Emeritus — land use, community development, urban geography, transportation planning
Michael N. DeMers, Ph.D., Kansas, 1985, Professor — GIS, landscape ecology, geographic education
Daniel P. Dugas, Ph.D., Oregon-Eugene, 1993, Assistant Professor — geomorphology, physical geography, Quaternary environments, soils
John B. Wright, Ph.D., California-Berkeley, 1990, Professor Emeritus — cultural geography, environmental conservation, American West, New Mexico

UNIVERSITY OF NEW MEXICO

DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1970

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

CERTIFICATE OFFERED: Graduate Certificate in Law, Environment, and Geography

GRANTED 9/1/2015-8/31/16: 12 Bachelors, 13 Masters

STUDENTS IN RESIDENCE: 79 Majors, 29 minors, 27 Masters

CHAIR: K. Maria D. Lane

FOR FURTHER INFORMATION WRITE TO: Department of Geography & Environmental Studies, Bandelier West Room 224, MSC01-1110, 1 University of New Mexico, Albuquerque, New Mexico 87131-0001. Telephone (505) 277-5041. Fax (505) 277-3614. E-mail: geography@unm.edu. Internet: <http://geography.unm.edu/>

PROGRAMS AND RESEARCH FACILITIES: The geography department at UNM offers a B.A., B.S., and M.S. in geography and is one of UNM'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:

Melinda Harm Benson, J.D., University of Idaho College of Law, 1998, Associate Professor — environment & natural resource management, legal geography, social/ecological systems
Ronda L Brulotte, Ph.D., University of Texas, Austin, 2006, Associate Professor — tourism geography, critical heritage studies, indigeneity, Latin America
John N Carr, Ph.D., University of Washington, 2007; J.D., University of Texas, 1993, Associate Professor — urban geography, legal geography, theories of globalization
Chris S. Duvall, Ph.D., University of Wisconsin Madison, 2006, Associate Professor — human-environment geography, biogeography, cultural ecology
Scott M. Freundsuh, Ph.D., State University of New York at Buffalo, 1992, Professor — spatial cognition, cartography and geovisualization, geographic information systems and science
Constantine Hadjilambrinos, Ph.D., University of Delaware, 1993, Associate Professor — environmental policy, energy resources, natural resource policy, environmental studies
K. Maria D. Lane, Ph.D., University of Texas, 2006, Associate Professor — environmental knowledge, historical geography, Southwest U.S., geography of science
Yan Lin, Ph.D., Texas State University, 2014, Assistant Professor — Geographic Information Science and public health
Caitlin L. Lippitt, Ph.D., UC Santa Barbara and San Diego State University, 2013, Assistant Professor — biogeography, remote sensing of vegetation, fire ecology
Christopher D. Lippitt, Ph.D., UC Santa Barbara and San Diego State University, 2012, Assistant Professor — remote sensing, geographic information science, time-sensitive geographic information
Tema Milstein, Ph.D., University of Washington, 2007 — environmental communication, human-environment geography, nature tourism
Lindsay A. Smith, Ph.D., Harvard University, 2008, Assistant Professor — medical geography, migration studies, feminist geography, Latin America
Benjamin Warner, Ph.D., Arizona State University, 2014 — water governance, development geography, Latin America, political economy

EMERITUS FACULTY:

Elinore M. Barrett, Ph.D., University of California Berkeley, 1970, Professor Emeritus — cultural-historical, Latin America
Olen Paul Matthews, Ph.D., University of Washington, 1980; J.D., University of Idaho College of Law, 1975, Professor — environmental management, public lands, water resources, water law
Stanley A. Morain, Ph.D., University of Kansas, 1970, Professor Emeritus — biogeography, remote sensing

Jerry L. Williams, Ph.D., University of Oregon, 1977, Associate Professor Emeritus — urban, land use planning, Southwest

ADJUNCT FACULTY:

Daniel Arreola, Ph.D., University of California, Los Angeles, 1980 — cultural geography, US-Mexico borderlands

Karl Benedict, Ph.D., University of New Mexico, 2004 — geospatial data infrastructure, applied GIS, geodatabases, data fusion, interoperability

Xi Gong, Ph.D., Texas State University, 2016 — Geographic Information Science, big data, environmental health

Joni Palmer, Ph.D., University of Colorado, 2012 — urban

geography, cultural geography, geovisualization, and public art

Shawn Penman, Ph.D., University of New Mexico, 2002 — GIS, emergency management, fire mapping, interactive web mapping

Kim Seidler, M.S., University of New Mexico, Lecturer — urban planning, land use management

Cody Wiley, M.S. University of New Mexico, 2007 — biogeography, human-environment geography

NEW YORK

BINGHAMTON UNIVERSITY, STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1945

GRADUATE PROGRAM FOUNDED: 1966

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

GRANTED 9/1/16 - 8/31/17: 30 Bachelors, 21 Masters

STUDENTS IN RESIDENCE: 115 Majors, 40 Masters

CHAIR: Eugene Tetley-Fio

PROGRAM COORDINATOR: Brendan McGovern

DEPARTMENT SECRETARY: Rita Carr

FOR FURTHER INFORMATION WRITE TO: Graduate Admissions, Binghamton University, P.O. Box 6000 Binghamton, New York 13902-6000. Telephone (607) 777-2151. Internet: www.binghamton.edu/grad-school.

Geography Department (607) 777-2755. Fax (607) 777-6456. Internet: www.geography.binghamton.edu for placements and other information.

Graduate Program Director: Dr. John W. Frazier frazier@binghamton.edu. Mailing address: Dr. John Frazier, Department of Geography, P.O. Box 6000, Binghamton, NY 13902-6000

PROGRAMS AND RESEARCH FACILITIES: The M.A. degree in Geography may be earned by following one of five tracks (a non-thesis option is available in all tracks):

- **Track 1: General Geography**-This program provides disciplinary foundation along classical liberal arts lines that can lead to interdisciplinary work in areas such as racial/ethnic geographies, conservation, economic development, and international studies.
- **Track 2: Cartography and Geographical Information Systems**-This program educates students as geographical spatial

analysts, with emphasis on cartography, remote sensing, and geographic information systems. Among the essential components of the program are theory, research methods, and advanced statistics. The objective of this track is career preparation in the specified area. To fulfill this goal, practical experience obtained from internships and field research is integrated into the formal curriculum. This track also provides the option of pursuing the Ph.D. degree at many institutions.

- **Track 3: Environmental and Resource Management**-This program educates students in physical environmental systems, with particular emphasis on the integration of the environmental and institutional aspects of planning. Among the essential components of this concentration are geographic techniques, environmental concerns, community involvement, and practical experience through internship programs. As with Track 2, graduates from this program might work for planning agencies or consulting firm, as well as pursue an advanced degree.
- **Track 4: Urban Planning and Applied Geography** -This program encompasses urban analysis and planning, as well as retail geography, site selection and market analysis, with emphasis on the integration of the institutional, environmental and urban-economic aspects of both public and private planning. Essential components of the program are geographic techniques, urban development, retail geography, community involvement, GIS applications, seminars in urban planning, and practical experience through internship programs. As with Track 2, graduates from this program might work for corporations or agencies, or pursue an advanced degree.
- **Track 5: MA in Urban-Environmental Sustainability**-This program emphasizes the importance of the socio-political-cultural environments of various groups. Theories of sustainability science and applications are stressed.

A list recent students' placement (employment, PhD Programs) is available on our website. Departmental facilities include Geographic Information System (GIS), remote sensing/air photo, physical geography, and student/faculty research laboratories. The laboratories consist of 80 networked microcomputers and 12 GPS receivers, scanners, and plotters are also available. The Department also has a map library, classrooms, and research library within our custom renovated, state-of-the-art building. The Department founded, and provides national leadership in, two conferences, **Race/Ethnicity and Place**, and **The Applied Geography Conferences**.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: For information on admissions and financial aid, contact the Office of Admissions, PO Box 6000, Binghamton, NY 13902 (607-777-2171).

A number of options are available to students that major in geography. A "general" major is provided within a liberal arts context. Also, more specialized majors and minors are available in the areas of computer applications in human-environmental analysis, environmental and resource management, urban/regional planning, urban economic/retailing, and American urban perspectives. Six courses are required for a minor. Ten courses are required for the major.

FIVE YEAR BA/MASTER'S PROGRAM: The program is designed for exceptional Binghamton University students who wish to complete both the BA and MA degrees in five years. Students in the program receive a BA at the end of the 4th year and an MA at the end of the program (year 5). The requirements for completion of the combined BA/MA degree are identical to those for completion of two separate degrees, however, because 16 credits of coursework taken for the master's degree (500 level courses) are taken while studying for

the undergraduate degree, students are able to complete the course requirements for the BA in four years and the additional course requirements for the MA degree in one additional year.

Graduate: Admission requirement: Bachelor's degree, or its equivalent, and a reasonable background in geography. The department may require up to five courses of undergraduate work without credit to make up undergraduate deficiencies. Graduate assistantships are offered. Teaching and research assistantships are available to qualified candidates. Scholarships to cover tuition are also awarded. Apply on-line at: www2.binghamton.edu/grad-school/.

FACULTY:

Mark A. Blumler, Ph.D., UC Berkeley, 1992, Associate Professor, Director of Graduate Studies — Biogeography, Conservation, Early Agriculture, Environmental History
Chengbin Deng, Ph.D., University of Wisconsin-Milwaukee, 2013, Assistant Professor — Remote Sensing, GIS, Cartography
John W. Frazier, Ph.D., Kent State, 1976, Professor and SUNY Distinguished Professor (also, Director of GIS Core Facility) — Urban and Racial/Ethnic Geographies, Applied geography, Applications of Geographic Information Systems
Milton Harvey, Ph.D., University of Durham, England, 1966, Research Professor — Regional Analysis, Behavioral Geography, Methodology
Louisa Holmes, Ph.D., University of Southern California, 2013 Assistant Professor — Medical Geography, Health Research
Norah F. Henry, Ph.D., Kent State, 1976, Associate Professor — Medical, Social Geography
Shin-Yi Hsu, Ph.D., UCLA, 1967, Professor Emeritus — Cartography, Remote Sensing and GIS, East Asia
Brendan Lavy, Ph. D., University of Texas, San Marcos, 2017, Visiting Assistant Professor — Natural Hazards, Resource Management
Burrell E. Montz, Ph.D., University of Colorado, 1980, Professor Emerita — natural hazards, resource management/planning
Jay Newberry, Ph.D., Michigan State University, 2011, Assistant Professor — Urban, Race and Ethnicity, Immigration
Mark E. Reisinger, Ph.D., Indiana University, 2001, Associate Professor and Undergraduate Director — Economic, Urban Planning, Population and Globalization
Aondover Tarhule, Ph. D, 1997, McMaster University, Canada — International research on climate and hydrology interactions, especially related to drought impacts in Africa.
Eugene Tettey-Fio, Ph.D., Kent State, 1996, Associate Professor and Chair — GIS, retail geography, urban and racial/ethnic geographies
Nicolay P Timofeeff, Ph.D., Columbia University, 1967, Associate Professor Emeritus — Physical Geography, Quantitative Geography, Computer graphics
Qiusheng Wu, Ph.D., University of Cincinnati, 2015, Assistant Professor — Geotechnologies, Physical Environment
Wan Yu, Ph. D., Arizona State University, 2015, Assistant Professor — Asian Migration, Qualitative Methods

ASSOCIATES:

Kevin Heard, MA Binghamton, 2002, Associate Director of GIS Core Facility — GIS
Brendan McGovern, MA Binghamton, Professional Staff — Human Geography, Cultural Geography
Lucius S. Willis, MA Binghamton, 1982, Professional Staff — Computer Cartography, Geographic Information Systems

PART-TIME FACULTY:

Frank Evangelisti, BA, SUNY- Buffalo, Environmental Design, APA, Chief Planner Broome County, New York, Adjunct Lecturer — Urban and Regional Planning
Erin Heard, MA Binghamton, 2003, Adjunct Lecturer — Physical Geography

Bruce Oldfield, MA Binghamton 1988, Adjunct Lecturer — Weather and Climate

Mary Beth Willis, MA, Binghamton, 1983, Adjunct Lecturer — Cultural Geography

Jennifer Yonkoski, MA, Binghamton, 2003, Senior Transportation Planner, Binghamton Metropolitan Transportation Study, Adjunct Lecturer — Urban Planning

Sara Zubalsky-Peer, MA Binghamton, 2013 — Urban Planning

COLGATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DEGREES OFFERED: B.A.

CHAIR: Peter Klepeis

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tracy Piatti

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Peter Klepeis, Department of Geography, Colgate University, 13 Oak Drive, Hamilton, NY 13346. Telephone (315) 228-7534. E-mail pklepeis@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
Peter J. Klepeis, B.A., Colgate University, M.A., Ph.D., Clark University, Professor of Geography, Chair of the Department of Geography
Ellen Percy Kraly, B.A., Bucknell University, M.S., Johns Hopkins University, Ph.D., Fordham University, William R. Kenan Jr. Professor of Geography and Environmental Studies

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
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

HOFSTRA UNIVERSITY

DEPARTMENT OF GLOBAL STUDIES AND GEOGRAPHY

DATE FOUNDED: 1935 (Geography), 2008 (Global Studies)

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

GRANTED 9/1/16-8/31/17: 32 Bachelors

MAJORS: 112 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. The department's thematic strengths are GIS/maps, cultural, economic, urban, transportation, and critical geographies.

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 who would like to combine GIS with a second major or minor in the natural or applied sciences. The BS major requires advanced courses in GIS, applied methods, statistics, and natural science, and may include remote sensing, cartographic design, and computer science. Students can also pursue a minor in Geography, Geography with a specialization in GIS, a joint minor in Computer Science and GIS or a minor in Global Studies. The department offers a wide selection of geography courses, balancing offerings in thematic and regional geography. 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 s.h. of Global Studies and Geography credits while visiting ten or more European countries. The department annually awards the Inaba Memorial Scholarship, of approximately \$7,000, 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 ESRI ArcGIS, QGIS, ENVI, Mapbox, and Adobe graphic design software is available for use by students and faculty on the Hofstra network and in our Department computer 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 s.h. 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. 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, mid-sized, 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, critical data studies, 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, cultural geography, geographies of children and youth, child labor
Linda Longmire, Ph.D., CUNY, 1988, Professor — Global Studies Program — human rights, human trafficking, 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:

Hewan Girma, MA, Fordham, 2006, Adjunct Instructor — Africa, migration, economic development, medical 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 — Asia, economic geography, environment
Valarie Rizzuto, MA, Hunter College, 2013, Adjunct Instructor — Remote Sensing, regional geography
Timothy Smith, EDD., Rutgers University, 1968, Adjunct Professor — Europe
James Wiley, Ph.D., Rutgers University, 1991, Adjunct Professor — Economic geography, Latin America and the Caribbean

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 (undergrad); Advanced Certificate in GISc (graduate level); Certificate in Earth Science (for educators).

DEGREES GRANTED 9/1/15 – 8/31/16: 3 B.A.; 7 B.S.; 6 MS-GISc; 2 Certificates

STUDENTS IN RESIDENCE: 58 undergraduate majors; 40 graduate students; 6 Certificate students.

CHAIR: Yuri Gorokhovich (Chair); Juliana Maantay (Vice Chair, and 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/2015-2017/Undergraduate-Bulletin> (undergrad); and <http://www.lehman.edu/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 or GEH 490 Internship in Geography or 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. The Environmental Science major includes concentrations in Geospatial Analysis and Environmental Modeling.

B.A. - Major in Earth Science (30-credits). This program is recommended for teacher education students, and consists of 26 credits in required courses, plus one four credit Earth Science elective.

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 3 or 4 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).

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. Jim Biles, EES Executive Officer, at (212) 817-8241 or email: jbiles@gc.cuny.edu

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Admission to the undergraduate major programs in the EECS 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 accepted through the "Apply Yourself" online process, which can be accessed at <https://app.applyyourself.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 EECS 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 Gorokhovitch, 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, Assistant Professor; Ph.D., Clark University — GIS and spatial analysis, global environmental change and vulnerability assessment, remote sensing

Hari Pant, Assistant 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:

Jennifer Brisbane, Adjunct Assistant Professor; Ph.D., CUNY Graduate Center — Historical GIS, environmental justice, spatial analysis, programming for GIS, mobile GIS application development

Gretchen Culp, Adjunct Assistant Professor; Ph.D., CUNY Graduate Center — Cartography, color vision confusion, visualization of public health data, and urban geography

Glen Johnson, Associate Professor, CUNY School of Public Health; Ph.D., Penn State University — Geo-spatial aspects of health, environmental and community-level social determinants of health outcomes, quantitative methods

Andrew Maroko, 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

Holly Porter-Morgan, Adjunct Associate Professor; Ph.D., CUNY Graduate Center — Biogeography, ecology, spatial analysis, conservation, GIS, biogeographic and computational models

EMERITUS FACULTY:

William Bosworth, Ph.D., Princeton University — Demographic analysis, urban social issues

Frederick Shaw, Ph.D., Harvard University — Oceanography, marine paleontology, stratigraphy

SUNY BUFFALO STATE

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1965

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

GRANTED 8/31/14-8/31/15: 51 Bachelors

CHAIR: Kelly M. Frothingham

DEPARTMENT ADMINISTRATIVE ASST: Patty Korta

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Kelly M. Frothingham, 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: frothikm@buffalostate.edu. Internet: <http://geography.buffalostate.edu/>.

PROGRAMS AND RESEARCH FACILITIES:

The Department offers two undergraduate degrees, a B.A. in Geography and a B.S. in Urban and Regional Planning. The Geography B.A. has four concentrations: Meteorology and Climatology; Environmental Geography; Economic Geography and Development; and GIS. 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 both 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 with local agencies and consulting firms and independent research.

The Department's environmentally-oriented undergraduate programs are 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 business and technical communication. Students in the M.S. also intern with environmental agencies and graduates of the program 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

Camille A. Holmgren, Ph.D., University of Arizona, 2005, Associate Professor — physical geography, Quaternary paleoecology, paleoclimatology, biogeography, global change

Jason C. Knight, Ph.D., AICP, University at Buffalo, 2013, Assistant 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

Vernan G. Vermette, M.S., McMaster, 1986, Lecturer — physical geography, human geography, urban geography, geography of Europe

William F. Wieczorek, Ph.D. University at Buffalo, 1988, Research Professor — health and human services geography, GIS, spatial analysis, research methods

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

Mary Rossi, M.S., SUNY Buffalo State, 1998, Lecturer — New York State geography, physical and urban geography

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 - COLLEGE AT GENESEO

DEPARTMENT OF GEOGRAPHY**DATE FOUNDED:** 1965**DEGREES OFFERED:** B.A.**GRANTED 9/1/16-8/31/17:** 36 Bachelors**MAJORS:** 102**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. Internet: 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 Aagesen, 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, Assistant Professor — physical, biogeography, GIS

Darrell A. Norris, Ph.D., McMaster, 1976, Professor — historical, developing world, Pacific Rim, cultural landscape, political, trade area analysis

David Robertson, Ph.D., U of Oklahoma, 2000, Associate 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

I. Ren Vasiliev, Ph.D., Syracuse, 1996, Professor — cartography, cultural, United States, statistics

SYRACUSE UNIVERSITY

DEPARTMENT OF GEOGRAPHY**DATE FOUNDED:** 1931**GRADUATE PROGRAM FOUNDED:** 1926**DEGREES OFFERED:** B.A., M.A., Ph.D.**GRANTED 9/1/15 - 8/31/16:** 21 Bachelors, 1 Masters, 3 Ph.D.**STUDENTS IN RESIDENCE:** 64 Majors, 11 Masters, 15 Ph.D.**NOT IN RESIDENCE:** 2 Masters, 8 Ph.D.**CHAIR:** Jamie Winders**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 builds on almost a century of distinguished achievement. Our location within the nation's top school of public policy, the Maxwell School, ensures that geographers can address both the real-world policy implications and the scholarly meaning of their research. Interdisciplinary links are not limited to the Maxwell School, as both 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 geographic information and analysis that are applied in a wide array of regions, places, and landscapes. Recent graduate students have conducted 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 addresses 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. Research in this area 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, natural sciences. Some of the sub-fields our faculty engage with include 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, environmental mapping and its societal impacts, 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. Graduate students have use of our Physical Geography Research Laboratory, which is equipped for a variety of soil and sediment analyses and includes a Sedigraph 5120 for particle size analysis.

GIS and Geospatial Technologies: Faculty in this focus have a range of research and teaching interests, including 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 geographic information systems. 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, public participation GIS for community action, the geodesign framework for architectural design and urban planning, and the history of cartographic innovation. Graduate students train and conduct research in both our *Geographic Information and Analysis Laboratory* and the *Integrated Spatial Dynamics Laboratory*, funded by a Major Research Instrumentation grant from NSF.

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 all 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. In all of these, 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 made more intensive. 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 an outstanding training for a public sector career. (58 credit hours are required; information upon request.) Study in our physical geography/environment 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 (the 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 or 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. Jane Read, Undergraduate Director (jaread@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 — scores from the TOEFL. 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. Tom Perreault, Graduate Director (taperea@maxwell.syr.edu).

FACULTY:

- Jacob Bendix, Ph.D., Georgia, 1992, Associate Professor, Adjunct Associate Professor, SUNY-ESF* — biogeography, geomorphology, human impacts on vegetation and land forms, media and environmental issues
- Peng Gao, Ph.D., University of Buffalo, 2003, Professor* — 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* — 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
- Susan W.S. Millar, Ph.D., Rutgers, 1995, Associate Professor* — physical geography, periglacial geomorphology, microclimatology, Arctic environmental science
- 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
- Thomas A. Perreault, Ph.D., University of Colorado at Boulder, 2000, Professor and Graduate Director* — political ecology, environment and development, social movements, Latin America
- Jane M. Read, Ph.D., Louisiana State, 1999, Associate Professor and Director of Undergraduate Studies* — 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, Assistant Professor* — Community geography, geographic information systems, participatory GIS, participatory action research, public health geography, qualitative research methods
- David J. Robinson, Ph.D., London, 1967, DellPlain Professor of Latin American Geography* — Latin American development, colonialism, historical, the Internet
- 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
- John Western, Ph.D., UCLA, 1978, Maxwell Professor of Teaching Excellence* — social, cultural, urban, France, Southern Africa
- 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 and Chair* — race/ethnicity, urban/social geography, immigration, 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.
- 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
- Beverley 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
- Weissman, Evan, Ph.D., Geography, Syracuse University, 2012, Assistant Professor, Food Studies, Syracuse University* — Alternative Food Networks; Urban Agriculture; Political Economy of Agro-Food; Urban Political Ecology

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, Emeritus Professor* — comparative urbanization, urban housing, Canada
- 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

UNITED STATES MILITARY ACADEMY

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL ENGINEERING

DATE FOUNDED: 1802

DEGREES OFFERED: B.S.

GRANTED 08/01/16-08/31/17: 28 Bachelors of Geography
MAJORS: 97 Geographers; 74 Geospatial Information
Science; 280 total

CHAIR: Colonel Wiley C. Thompson, Ph.D.

DEPARTMENT ADMINISTRATIVE OFFICER: Ms.
Mary Ellen DeLuca Kreder

FOR CATALOG AND FURTHER INFORMATION WRITE TO: COL Andrew Lohman, Geography Program Director,
Department of Geography and Environmental Engineering, United
States Military Academy, West Point, New York 10996-
1695. Telephone (845) 938-2930. Fax (845) 938-3339.
E-mail: Andrew.Lohman@usma.edu.
Internet: <http://www.usma.edu/gene/SitePages/Home.aspx>.

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 to 12 geography courses in addition to the Academy's 30-course core curriculum (that includes a physical geography course). 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 Army installations, and GIS-based studies. Additionally, cadets may participate in cultural immersion trips to locations such as Israel, Uganda, Ethiopia, 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 twenty 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 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:

Joshua Borrell, M.S., University of Montana, 2000, Instructor (Geography) — geology, physical geography
John A. Brockhaus, Ph.D., Idaho, 1986, Professor — GIS, forestry, photogrammetry, remote sensing
Michael A. Butkus, Ph.D., Connecticut, 1997, Professor — environmental engineering
Nicholas Cosmas, M.A., University of Hawaii, Manoa, 2012, Assistant Professor (Geography) — political geography, Asia
Philip J. Dacunto, Ph.D., Stanford University, 2013, Associate Professor & Academy Professor — environmental engineering
Ran Du, M.S.E., Johns Hopkins, 2014, Instructor — environmental engineering
Elizabeth Dzwonczyk, M.S., Pennsylvania State University, 2016, Instructor — medical geography, physical geography
John Dzwonczyk, M.S., Pennsylvania State University, 2016, Instructor — economic geography, energy, physical geography
Ian Irmischer, Ph.D., University California, Santa Barbara, 2016, Assistant Professor, Geospatial Information Science — GIS, physical geography
Adam J. Kalkstein, Ph.D., Arizona State University, 2008, Associate Professor (Geography) — climatology, physical geography
Mindy Kimball, Ph.D., Arizona State, 2014, Assistant Professor & Academy Professor — environmental science
Darren Kerr, M.S., Oregon State, 2015, Instructor — photogrammetry, physical geography
Richard L. Knox, M.A., Texas, 2013, Assistant Professor (Geography) — geomorphology
Lauren A. Koban, M.S., University of North Carolina, 2014, Instructor — environmental science
David J. Leydet, M.S., Oregon State University, 2016, Instructor — geomorphology, physical geography
Andrew D. Lohman, Ph.D., Illinois, 2009, Associate Professor (Geography), Academy Professor, & Geography Program Director — human geography, political geography, military geography
Jon C. Malinowski, Ph.D., North Carolina-Chapel Hill, 1995, Professor (Geography) — cultural geography, environmental perception, geography of childhood, spatial behavior, Asia
Erick V. Martinez, M.E. University of Florida, 2016, Instructor — environmental engineering
Dave McCarthy, M.S., Akron, 1996, Instructor (Geography) — physical geography
John M. Melkon, II, MPA, Texas A&M, 2005, Director, Center for the Study of Civil-Military Operations (CSCMO) — civil-military operations
Christopher Nixon, M.S., Naval Postgraduate School, 2012, Instructor (Geography) — meteorology, physical geography
Luke T. Plante, M.S., Columbia University, 2016, Instructor — environmental engineering
Gabe Powell, M.S., University of Mississippi, 2016, Instructor, Geospatial Information Science — geology, physical geography
Charles Ouellette, M.S., Cornell University, 2016, Instructor — environmental engineering
Christopher E. Oxendine, Ph.D., George Mason, 2013, Assistant Professor — GIS
Joel Radunzel, M.S., Syracuse, 2015, Assistant Professor (Geography) — historical geography, cartography
Mark Read, Ph.D., Penn State, 2014, Deputy Department Head & Assistant Professor (Geography) — environmental geography, physical geography, military geography
Amy Richmond, Ph.D., Boston University, 2005, Associate Professor (Geography) — physical geography, environmental geography, energy, environmental economics
Richard F. Rogers III, M.S., Stanford University, 2014, Instructor — environmental engineering

James A. Sturm, M.S., Missouri University of Science & Technology, 2004, Instructor (Geography) — physical geography
Mark A. Smith, Ph.D., Wisconsin - Madison, 2002, Assistant Professor & Academy Professor — environmental engineering, environmental science
Jeffrey A. Starke, Ph.D., Wisconsin-Madison, 2011, Associate Professor & Academy Professor — environmental engineering
Wiley C. Thompson, Ph.D., Oregon State, 2008, Department Head & Associate Professor (Geography) — environmental geography, hazards, physical geography, military geography
Jared Ware, M.Sc., Cranfield University, 2002, Instructor — GIS, remote sensing
Wallen, Benjamin, PE, PMP, Ph.D., Colorado School of Mines, 2016, Assistant Professor — environmental engineering
Richard L. Wolfel, Ph.D., Indiana, 2001, Associate Professor (Geography) — cultural geography, Europe, Russia, political geography, social geography, quantitative methods
David C. Zgonc, M.S., Carnegie Mellon University, 2014, Instructor — environmental engineering

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., AND M.R.P.

GRANTED 9/1/15-8/31/16: 8 Bachelors, 26 Masters

STUDENTS IN RESIDENCE: 132 Majors, 61 Masters

CHAIR: Catherine T. Lawson

ADMINISTRATIVE MANAGER: Marcia Catrambone

DEPARTMENT SECRETARY: Rebecca Griffin

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. Fax (518) 442-4742.
 E-mail: geog@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 Department has close ties with local, regional and state agencies, and numerous undergraduate and graduate internship opportunities are available. Several of the faculty have strong international research programs, notably in China, Russia, Latin America and Africa. 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.

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, 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 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. Departmental faculty participate in doctoral supervision for students with compatible interests through Ph.D. programs in Information Science, Sociology, and Earth and Atmospheric Sciences.

State of the art instructional and laboratory facilities are available to students. The GIS Lab runs a full complement of GIS, remote sensing, image processing and statistical software. The Remote Sensing and Image Analysis Labs contain workstations, peripheral devices and an extensive collection of air photography and satellite images. The Planning Studio offers dedicated project workspace and facilities for computer-aided design and production of technical reports. The Integrated Undergraduate Physical Geography Laboratory includes a Geochemistry Laboratory fully equipped for analysis of air, water and soil samples, and the Mohawk Climatological Observatory, with a professional Weather-Monitor meteorological station. The University Libraries have extensive holdings in geography and planning, and major collections are also available at the New York State Library.

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:

- Carlos Balsas, Ph.D. University of Massachusetts-Assistant Professor* — Community Development and Neighborhood Planning, Sustainable Transportation Planning, Urban Revitalization, International Planning
- 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
- Melissa Currie, Ph.D. University of North Carolina, Assistant Professor* — Community Planning and Social Justice, Urban open space and the impacts of the built environment on health.
- Youqin Huang, Ph.D., University of California, Los Angeles, 2001, Associate 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, Associate Professor* — physical climatic change, Quaternary paleogeography, soils
- 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, and 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
- John S. Pipkin, Ph.D., Northwestern University, 1974, Distinguished Service Professor* — urban, urban design, American cultural landscapes, quantitative methods
- Joseph A. Sarfoh, Ph.D., University of Cincinnati, 1976, Associate Professor (Primary Appointment in Africana Studies)* — regional development, resource management, Africa

ADJUNCT FACULTY:

- Alison Bates, MRP UAlbany, SUNY*
- Elisabeth Egetemeyr, Ph.D. UAlbany SUNY, 2007* — Human Geography
- Todd M. Fabozzi, MRP, UAlbany-SUNY, 1994* — regional planning, GIS, regional growth analysis
- Rocco A. Ferraro, MCRP, Ohio State, 1975, AICP* — 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
- Jacqueline, Ledermann, MA Diplomacy and International Relations, Seton Hall University*
- Sean Maguire, MPA, AICP, UAlbany SUNY 2014* — Economic Development Planner and Project Manager
- Neusa McWilliams, Ph.D., UC Berkeley 1996* — Urban Geography
- Christopher J. O'Connor, UAlbany-SUNY, 2002* — GIS, Water Resources, Flood Hazards

- Jeffrey S. Olson, MA, SUNY-Empire State, 1993* — bicycle and pedestrian transportation planning
- Roy Anurupa, 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*
- S. Thyagarajan, MCRP, Ohio State, 1963, AICP* — comprehensive planning, site planning, growth management, Site planning, community planning, waterfront planning

UNIVERSITY AT BUFFALO (UB), THE STATE UNIVERSITY OF NEW YORK

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1962

GRADUATE PROGRAM FOUNDED: 1963

DEGREES OFFERED: BA, BA/MA, MA, MS, and PhD in Geography; BS and MS in Geographic Information Science; BA and MA in International Trade

GRANTED 9/1/15-8/31/16: Geography: 15 Bachelors, 2 MA, 3 MS, 7 PhD; Geographic Information Science: 0 Bachelors, 13 MS; and International Trade: 58 Bachelors, 5 MA

STUDENTS: 151 Majors, 61 Masters, 49 PhD

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 in 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, and this 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 degrees (BA, MA, and combined BA/MA, PhD concentration) offer 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 departmental 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: <http://admissions.buffalo.edu/apply/index.php> or write to the

Office of Admissions, 12 Capen Hall, University at Buffalo, Buffalo, NY 14260-1660 or email: ub-admissions@buffalo.edu. Telephone (888) UB-ADMIT or (716) 645-6900.

Undergraduate Financial Aid: For information, please see <http://admissions.buffalo.edu/costs/index.php> or write to Student Response Center, 232 Capen Hall, University at Buffalo, Buffalo, New York 14260. Telephone (866) 838-7257 or (716) 645-2450.

For Honors Program and Presidential Scholarships: <http://honors.buffalo.edu/prospective/scholarships.php> or write to University Honors Program, University at Buffalo, 214 Talbert Hall, Buffalo, NY 14260. Telephone (716) 645-3020.

Graduate Admissions: For information, please see website for required materials and deadlines:

<http://www.buffalo.edu/cas/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. For detailed information on financial aid offerings, please visit the above website.

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 Canada-United States Trade Center (CUSTAC; www.buffalo.edu/cas/geography/custac.html) has a mission to conduct applied and policy-oriented research on the evolving nature of Canada-US commercial relations including trade, capital investment, border management, and regulatory conditions. CUSTAC is uniquely positioned to conduct new research on international trade and investment, and the social, environmental, and economic development impacts associated with trade and investment patterns and policies.

The Department of Geography has a diverse faculty in terms of disciplinary focus, composition, and real-world experience. The department has 19.5 faculty that can be grouped into the following specializations: Earth Systems Science, Geographic Information Science, International Trade, 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 are 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/UC 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., North Carolina-Chapel Hill, 1991, Professor — individual-based epidemiological modeling, inter-operable 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

Trina Hamilton, Ph.D., Clark University, 2006, Associate Professor — corporate social and environmental responsibility, global governance, international trade

Geoffrey Jacquez, Ph.D., SUNY Stony Brook, 1989, Professor — medical geography, spatial analysis, exposure assessment

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 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

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., Sydney, 1971, UB Distinguished Professor — fluvial geomorphology

David M. Mark, Ph.D., Simon Fraser, 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, 1968, Professor — fluvial geomorphology

VASSAR COLLEGE

DEPARTMENT OF EARTH SCIENCE AND GEOGRAPHY

DATE FOUNDED: 1920

DEGREES OFFERED: B.A.

GRANTED in 2017: 16 Bachelors

MAJORS: 37

CHAIR: Mary Ann Cunningham

DEPARTMENT ADMINISTRATIVE ASSISTANT: Lois Horst

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
- Harvey K. Flad, Ph.D., Syracuse University, 1973, Professor Emeritus* — Cultural, social, historical landscapes, environmental assessment and planning, North America, Africa, Central Asia
- 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

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 9/1/15-8/31/16: 33 Bachelors, 12 Masters

STUDENTS IN RESIDENCE: 41 B.S. Geography, 5 B.A. Geography, 29 Atmospheric Science, 9 GIS, 24 Planning, 15 Masters

CHAIR: Burrell Montz

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. Scott Curtis (curtisw@ecu.edu). View website at <http://www.ecu.edu/geog/>.

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 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; 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, hydrology lab, and three labs devoted to G.I. Science and 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. 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
- 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
- Holly M. Hapke, Ph.D., Syracuse, 1996, Associate Professor* — social theory, rural development, fisheries, field methods, South Asia
- Robert Howard, M.A., East Carolina University, 2015, Research Associate* — Web-based GIS
- 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
- 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 — GIS applications, computer cartography, ESRI-certified
Thad Waskiewicz, Ph.D., Arizona State University, 1996, Professor — terrestrial processes and forms, GIS applications
Yong Wang, Ph.D., Santa Barbara, 1992, Professor — remote sensing, GIS, image processing and analysis technology, wetland modeling
Mulatu Wubneh, Ph.D., Florida State University, 1976, Professor — regional planning, planning techniques, capacity building
Wei Yang, Ph.D., University of Georgia, 2015, Assistant Professor — GIS, spatial statistics

ADJUNCT FACULTY:

Thomas R. Allen, Ph.D., UNC Chapel Hill, 1995, Professor — GIS, RS, environmental change and ecological modeling, coastal
Heather Ward, Ph.D., East Carolina University, Adjunct Assistant Professor — coastal resources management

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 (2015-2016): 36 B.A. (majors; plus 53 minors), 1 M.A., 5 Ph.D.

STUDENTS IN RESIDENCE: 89 Majors, 108 Minors, 40 M.A. /Ph.D.

NOT IN RESIDENCE: 4 M.A. /Ph.D.

CHAIR: Michael Emch

DEPARTMENT ADMINISTRATIVE STAFF: Barbara Taylor; Nell Phillips; Daniel Warfield

FOR FURTHER INFORMATION CONTACT: Banu Gökarişel, Director of Graduate Studies, Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3220. Telephone: (919) 843-5835. Fax: (919) 962-1537. E-mail: banug@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:

Xiaodong Chen, Ph.D., Michigan State, 2010, Assistant 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

Jason Davis, Ph.D., University of California, Santa Barbara, 2010, Assistant Professor — international migration, child well-being & education, population, environmental change, Latin America, statistical methods

Paul Delamater, Ph.D., Michigan State, 2012, Assistant Professor — medical, spatial analysis, GISci

Michael Emch, Ph.D., Michigan State 1998, Chair and Professor — medical, GISci, population-environment, South Asia

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

Christian Lentz, Ph.D., Cornell University, 2010, Assistant Professor — development, nature-society relations, agrarian studies, Southeast Asia

Jun Liang, Ph.D., University of Cincinnati, 2001, Instructor and GIS technician — spatial modeling, cartography, GISci, Remote Sensing

Scott L. Kirsch, Ph.D., Colorado, 1997, Associate Professor — historical, cultural, and political geography, science & technology studies

Charles E. Konrad, Ph.D., Georgia, 1993, Associate Professor — climatology, meteorology

Nina Martin, Ph.D., University of Illinois at Chicago, 2008, Associate Professor — urban geography, global cities, civil society, migration

Aaron Moody, Ph.D., Boston, 1994, Associate Professor — GISci/remote sensing, biogeography

Elizabeth Olson, Ph.D., Colorado, 2005, Associate Professor — Development and Inequality, Religion, Global Studies, Moral Geographies

John Pickles, Ph.D., Pennsylvania State, 1983, Earl N. Phillips Distinguished Professor of International Studies — globalization, political economy, post-socialism, social theory and geographic thought, Europe

Diego Riveros-Iregui, Ph.D., Montana State, 2008, Assistant Professor — Ecohydrology, watershed hydrology, biogeochemistry, land-atmosphere interactions, tropical hydrology, climate and land use cover change

Sara Smith, Ph.D., Arizona, 2009, Associate Professor — social, South Asia, India

Conghe Song, Ph.D., Boston, 2001, Professor — remote sensing, ecosystem modeling, land use/land cover change, GISci

Gabriela Valdivia, Ph.D., Minnesota, 2005, Associate Professor — political ecology, critical resource geography, environmental governance, Latin America

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 Kopec

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 7/1/16-6/30/17: 41 Bachelors, 10 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 300 Undergraduate Majors
56 Masters, 28 Ph.D.

NOT IN RESIDENCE: 33 Undergraduate Majors, 2 Masters, 1 Ph.D.

CHAIR: Craig J. Allan

DEPARTMENT ADMINISTRATIVE ASSISTANT:
Teresa Cleveland

FOR ADMISSIONS SEE: <http://graduateschool.uncc.edu/future-students/admissions>. International students should also see <http://graduateschool.uncc.edu/future-students/admissions/international-applicants>

FOR PROGRAM INFORMATION SEE:
<http://www.geoeearth.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: William Garcia wjgarcia@uncc.edu; Geography Undergraduate Coordinator: Jamie L. Strickland jstrickl@uncc.edu; Meteorology Undergraduate Coordinator: Terry Shirley trshirle@uncc.edu; Earth Sciences MS Coordinator: Scott Hippensteel shippens@uncc.edu; Geography MA Coordinator: Eric Delmelle Eric.Delmelle@uncc.edu; Geography Ph.D. Director: Heather Smith heatsmit@uncc.edu

PROGRAMS AND RESEARCH FACILITIES:

In 2006, the Department of Geography and Earth Sciences initiated a new Ph.D. program in Geography and Urban Regional Analysis focused on two interconnected research themes: multi-scalar analysis and GIScience. Pairing technology and theory 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 a strong, applied Master of Arts program in Geography. There are four areas of specialization within the M.A. in Geography. These include concentrations in GIScience and technology, location analysis and urban 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 department also offers an M.S. degree in Earth Sciences which offers multiple options for interdisciplinary training and research, particularly for students interested in meteorology and geology.

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. in Geography program, 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, their 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 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 and Arc GIScience, Arc/Info and ERDAS Imagine software, and modern computer cartographic facilities. The Department also houses the Center for Applied Geographic Information Science and this research unit offers a number of research assistantship opportunities.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: UNC Charlotte operates on the semester system. Admission requirements for the 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: www.admissions.uncc.edu

Graduate Geography: Departmental graduate assistantships are awarded on a competitive basis to qualified students, and we also strive to provide summer support for qualified students. Doctoral assistantships currently carry stipends of at least \$14,000 and can include healthcare insurance, and a tuition waiver through the Graduate School. Masters assistantships have a competitive stipend of at least \$10,000. 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. Application forms can be downloaded from the Graduate School's website <https://gradadmissions.uncc.edu/>.

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. Applications for assistantships should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission for the Fall Semester should be received by July 1. Financial aid is possibly available for students who enter in the Spring semester as well. Prospective graduate students are encouraged to visit the Department.

Graduate Earth Sciences: Departmental graduate assistantships are awarded on a competitive basis to qualified students, and we also strive to provide summer support for qualified students. Masters assistantships have a competitive stipend of at least \$10,000. 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. Application forms can be downloaded from the Graduate School's website <https://gradadmissions.uncc.edu/admissions-info/international-applicants/>.

An official transcript of all previous academic work is required, plus scores from the general aptitude section of the Graduate Record Examination. An undergraduate Earth Sciences, Geology or Meteorology degree is preferred but not required. Those students who are deficient in the basic concepts and methods in their chosen field of study will be required to take prerequisite coursework. Applications for assistantships should be received by February 15th. Awards are announced as soon after April 1 as possible. Applications for admission for the Fall Semester should be received by July 1. Financial aid is possibly available for students who enter in the Spring semester as well. Prospective graduate students are encouraged to visit the Department.

FULL AND PART-TIME FACULTY:

Craig J. Allan, Ph.D., York University, 1992, Professor and Department Chair — 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
Robert Boyer, Ph.D., University of Illinois Urbana Champaign, 2013, Assistant Professor — environmental planning and sustainability
Harrison S. Campbell, Ph.D., Illinois at Urbana-Champaign, 1994, Professor and Department Associate Chair — economic geography, regional development, regional analysis
Jacapo Canello, Ph.D., The University of Queensland, 2014, Assistant Professor — economic geography, globalization
Gang Chen, Ph.D. University of Calgary 2010, Assistant Professor — Remote Sensing, Human-environmental interactions
Sandra Clinton, Ph.D., University of Washington 2001, Research Assistant Professor — river ecology, urban ecosystems and sustainability
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 and Coordinator of the Geography Master's Program — 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 and atmospheric observation,
M.C. Eppes, Ph.D., University of New Mexico, 2002, Professor — soils, paleoenvironments
Patricia Fall, Ph.D., University of Arizona, 1988, Professor — Biogeography, paleoecology, human impact on ancient environments

Sarah Gagné, Ph.D. Carlton University 2009, Associate Professor — Urban Ecology

William J. Garcia, ABD, Ph.D. Candidate, University of Cincinnati. Senior Lecturer/Lab Coordinator — early amphibian evolution, Paleozoic biogeography

Laurie Garo, M.A., University of Wisconsin-Madison, 1984, Lecturer — cartography, GIS applications

William W. Graves, Ph.D., University of Georgia, 2000, Associate Professor — economic, urban, transportation

Colleen Hammelman, Ph.D. Temple University, 2016, Assistant Professor — Urban agriculture, sustainability, ecological gentrification, migration, gender

Scott P. Hippensteel, Ph.D., University of Delaware, 2000, Associate Professor and Coordinator of the Earth Sciences Master's Program — environmental geology, marine environments

Colleen Hammelman, Ph.D. Temple University 2016 — Urban Geography, Urban Food System Security

Brian Magi, Ph.D. University of Washington Seattle 2006, Associate Professor — biogeophysical modeling, atmospheric sciences, global change

Céline Martin, Ph.D., Université Henri Poincaré, Nancy 1, 2009, Assistant Professor — Igneous and Metamorphic Petrology

Isabelle Nilsson Ph.D. University of Toledo, 2015, Assistant Professor — Regional development, industry/firm location behavior, transportation, policy

Valerie S. Reynolds, Ph.D., University of Tennessee Knoxville, 2005, Lecturer — Geology

Jacob (Jack) Scheff, Ph.D. University of Washington, 2014, Assistant Professor — Hydroclimate 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., Université Catholique de Louvain, 1988, Knight Distinguished Professor of Public Policy — geographic information science and transportation, industrial, location theory

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
Alfred W. Stuart
Wayne A. Walcott

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1940

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

DEGREES GRANTED 9/1/15 – 8/31/16: 18 Bachelors, 10 Masters, 2 Doctoral

MAJORS: 66 Undergraduate, 17 Master, 22 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, 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, 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: www.uncg.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers an undergraduate program with 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 purposes of the program are to contribute an important dimension to the university student's liberal education and to provide practical training in geographic methods 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, 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.

Students pursuing the M.A. in Applied Geography can choose from one of three areas of emphasis:

1. Urban Planning, Transportation and Regional Economic Development. This area includes work in urban and economic development applied to metropolitan and regional areas on a variety of scales, including issues of transportation, tourism, demographics, political boundaries, and business site selection. Departmental specialties include North America, Europe, and Asia.

2. Earth Science and Natural Resource Management. This area includes departmental specializations in climatology, dendroecology, hydrology, geomorphology, soils, and environmental assessment. Fieldwork opportunities are an integral extension of classwork.

3. Geographic Information Science. This area comprises the techniques and research focus of cartography, geographic information systems, and remote sensing including work in statistics, computational modeling, and visualization.

The Ph.D. in Geography began in fall 2004. The PhD program centers on a research-oriented application of geographical concepts to solving

real-world problems. The degree culminates in one of two projects: the traditional dissertation, or a three article option. Concentration is in one of the three areas outlined above. 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 <http://admissions.uncg.edu/apply-applications.php>. You can apply online or download a PDF paper application. Applications for the Master's in Applied Geography and the Ph.D. in Geography are located at <https://grs.uncg.edu/apply-online>.

FACULTY:

Ricky L. Bunch, Ph.D., South Carolina, 2000, Professor — Geographic Information Science, 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
Corey M. Johnson, Ph.D., Oregon, 2008, Associate Professor and Department Head — Regional development, 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
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
P. Daniel Royall, Ph.D., Tennessee, 1997, Associate Professor — Geomorphology, soils, water resources, quaternary environments
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

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., B.S. in Environmental Studies; B.S. in Geography (tracks in Community and Urban Development, Environmental Geography, Geographic Education); Undergraduate Minor in Geospatial Technologies, Geography; M.A., M.S. in Geography; Graduate Certificate in Geographic Information Science

GRANTED 7/1/15-6/30/16: 7 Bachelors, 4 Masters, 25 GISc

STUDENTS IN RESIDENCE: 30 Majors, 11 Masters

NOT IN RESIDENCE: 24 GISc

CHAIR: Gregory Vandenberg

GRADUATE DIRECTOR: Douglas Munski

GISc DIRECTOR: Enru Wang

DEPARTMENT ADMINISTRATIVE ASST: Cindy Purpur

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.vandenberg@und.edu. Internet: <http://arts-sciences.und.edu/geography/>.

PROGRAMS AND RESEARCH FACILITIES:

UND awards a Bachelor of Science degree with a Major in Geography with three options: community and urban development, environmental geography, and geographic education (36 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, business, finance, anthropology, Indian studies, recreation and tourism 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 <http://www.go.und.edu/>.

Graduate: Entering graduate students must have completed an undergraduate major and hold a Bachelors degree in geography 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
Michael A. Niedzielski, Ph.D., Ohio State, 2009, Associate Professor — transportation, urban land use, GIS
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

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 6/1/15-5/31/16: 14 Bachelors, 5 Masters, 2 Ph.D.

STUDENTS IN RESIDENCE: 48 Majors, 13 Masters, 26 Ph.D.

NOT IN RESIDENCE: 14 Masters, 10 Ph.D.

CHAIR: Scott Sheridan

GRADUATE COORDINATOR: David Kaplan

UNDERGRADUATE COORDINATOR: Jennifer Mapes

DEPARTMENTAL SECRETARY: Mary Lou Church

GRADUATE SECRETARY: Tracee Young

FOR FURTHER INFORMATION:

<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 offers B.A., M.A., M.G.I.S., and Ph.D. degrees. We offer comprehensive and relevant curricula at all levels and have major research specialties in hazards and health; race, ethnicity, and place; urban ecology and sustainability; political ecology; water resources; climatology and meteorology; social media; GIS; community development and planning; social justice; and memory and violence. While preparing our students with a strong theoretical base, our approach is very applied, utilizing state-of-the art geospatial technologies to understand these complex human-environment interactions.

The baccalaureate degree program offers a major and a minor in geography. In addition, minor programs are available in Climatology, GIS, and Urban Studies and Planning. The Master of Arts degree emphasizes the acquisition of application-oriented research skills as well as expertise in the major subfields of geography. The Master of GIS degree is fully online and offers specialized training in Cyber GIS, Environmental GIS, and GIS and Health. The Ph.D. program is individually designed for each student who wishes to conduct research in selected areas of faculty specialization. Current graduate faculty research interests include: climate and weather; cultural landscapes; ethnicity, race, and nationalism; GIS techniques and applications; health and hazards; human-environmental systems; memory and violence; urban planning; social justice; social network analysis; water resources; the regional specialties of North America, sub-Saharan Africa, east and southeast Asia, and Europe. Research facilities include a 1.7 million volume library, the University map collection (over 200,000 sheets), and university and statewide on-line 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, 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 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.

Interdisciplinary minor and certificate programs in Geographic Information Science, Urban Studies and Planning, and Climatology 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 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. degree, and thirty-two for the M.G.I.S. degree. Sixty semester hours beyond the Masters degree are required for the Ph.D., with thirty of these credits assigned to the dissertation. Applications are especially encouraged from qualified students representing all minority groups, the physically disabled, and women.

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 University, 2011, Assistant Professor (Ashtabula Campus) — hydrology, environmental geology, hydrogeology, environmental geography

Andrew Curtis, Ph. D., State University New York Buffalo, 1995, Professor — GIS and public/clinical health, hazards, crime, GIS analysis, geospatial field techniques, research methods

Jacqueline Mills Curtis, Ph.D., Louisiana State University, 2005, Associate Professor — post-disaster environments, maternal child health (MCH), geospatial techniques

Mary Ann Haley, Ph.D., Kent State University, 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 University, 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., University of Southern California, 2009, Assistant Professor and Undergraduate Coordinator — small towns, sustainability, planning, community economics, visualization and interactive mapping

Keith Muller, Ph.D., Wisconsin-Milwaukee, 1987, Associate Professor (Trumbull Campus) — agriculture, population, rural settlement, Brazil, Latin America

Mandy J. Munro-Stasiuk, Ph.D., Alberta, 1999, Professor and Associate Provost — glacial environments, remote sensing, geoarchaeology, karst environments

Rebecca P. Parylak, Ph.D., Texas State - San Marcos, 2009, Associate Professor — physical geography, climatology, precipitation trends

Christopher W. Post, Ph.D., University of Kansas, 2006, Associate Professor (Stark Campus) — cultural landscape, historical geography, North America, commemorative justice, company towns

Thomas W. Schmidlin, Ph.D., Cornell, 1984, Professor — weather and climate, natural hazards and disasters, severe weather

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., University of Kansas, 2007, Associate Professor (Salem Campus) — sub-Saharan Africa, urban geography, cultural geography

Kelly Turner, Ph.D., Arizona State University, 2013, Assistant Professor — sustainable urban planning, institutional analysis, environmental decision-making and management, urban ecology, water resources

James Tyner, Ph.D., Southern California, 1995, Professor — Political, population, gender and race

Emariana Widner, Ph.D., Texas State - San Marcos, 2009, Associate Professor — Biogeography, urban ecology, environmental geography, computational modeling

Xinyue Ye, Ph.D., Associate Professor — GIS, computational social science, open source spatial econometrics, crime analysis

MIAMI UNIVERSITY OF OHIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1906

GRADUATE PROGRAM FOUNDED: 1929

DEGREES OFFERED: Certificate in GIScience, A.B. in

Geography, A.B. in Urban and Regional Planning, M.A.

GRANTED 9/1/15-8/31/16: 22 Bachelors, 4 Masters

STUDENTS IN RESIDENCE: 71 Geography and Urban & Regional Planning Majors, 10 Masters

CHAIR: Bruce D'Arcus

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:* Marcia England, 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 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 2014-2015 stipends are \$15,273 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, \$13,473 is received during the nine-month academic year and the balance of \$1,800 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 (\$638 for 2015-2016). *Grants-in-aid:* Tuition.

FACULTY:

Bruce D'Arcus, Ph.D., Syracuse, 2001, Associate Professor and Chair — political and cultural geography, social theory, public space
Amelie Davis, Ph.D., Purdue University, 2009, Assistant Professor, Geography & Institute for the Environment & Sustainability — human-environment interactions, environmental sustainability, land change science, ecosystem services, environmental land use planning, environmental justice, landscape ecology, GIS, urban systems, agricultural systems
Hays Cummins, Ph.D., Texas A&M, 1984, Professor — reconstruction of past ecological communities in marine systems and understanding ecological change, particularly the impacts of global change on coral reefs
Marcia England, Ph.D., Kentucky, 2006, Associate Professor — Access to public space, media and popular culture, geographies of the body, reproductive geographies

Bartosz Grudzinski, Ph.D., Kansas State, 2014, Assistant Professor — human-environmental interactions, watershed processes, and land use impacts on aquatic ecosystems
Mary C. Henry, Ph.D., Arizona, 2002, Associate Professor — biogeography, remote sensing, fire ecology, landscape ecology
Ziyang Jiang, Ph.D., Clark University, 2010, Assistant Professor, Middletown campus — land change science, GIS, remote sensing
John K. Maingi, Ph.D., Arizona, 1998, Associate Professor — remote sensing, GIS, and forest ecology
Jessica McCarty, Ph.D., University of Maryland, College Park, 2009, Assistant Professor — geospatial science and technology, remote sensing, land-cover/land-use change, fire emissions, agriculture and food security, climate
Kimberly E. Medley, Ph.D., Michigan State, 1990, Professor — ecological and cultural biogeography, conservation, gender analysis, landscapes
Roxanne Ornelas, Ph.D., Minnesota, 2007, Associate Professor, Department of Geography — Indigenous peoples geographies, human rights, public policy, environment, and feminist theory
David L. Prytherch, Ph.D., Arizona, 2003, Professor — urban, political, and cultural geography; urban planning & sustainability; Europe and 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, Hamilton campus — 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, and Sub-Saharan Africa

VISITING/ADJUNCT FACULTY:

Susan Jakubowsky, Ph.D., University of Cincinnati, 2014, Visiting Assistant Professor — civic engagement, legal geography, public space

AFFILIATED FACULTY AND STAFF:

Robbyn Abbitt, MS, University of Idaho, 1999, GIS Coordinator, GISP — natural resource management, conservation, local land use planning, water resources and 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
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; M.S., Ph.D. in Atmospheric Sciences

GRANTED 2015-2016: 2 M.A. in Geography, 2 M.S. in

Geography, 8 Ph.D. in Geography & Atmospheric Sciences

UNDERGRADUATE MAJORS: 568

CHAIR GEOGRAPHY: Morton E. O'Kelly

GRADUATE STUDIES CHAIR: Becky Mansfield

GRADUATE PROGRAM COORDINATOR: Caitlin Naber

UNDERGRADUATE STUDIES CHAIR: Mat Coleman

UNDERGRADUATE ADVISOR: Nancy Coscia

DIRECTOR ATMOSPHERIC SCIENCES: Alvaro Montenegro

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Professor Becky Mansfield (Graduate Studies Chair, 614-247-7265 email: mansfield.32@osu.edu; Professor Mathew Coleman (Undergraduate Studies Chair, 614-292-9686, email: coleman.373@osu.edu); Professor Alvaro Montenegro (Director, Atmospheric Sciences Program, 614-688-5451, e-mail: 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, E-mail: geography@osu.edu; Department Website: www.geography.osu.edu; Department Facebook Page: www.facebook.com/OSUGeography; Department Twitter: @OSUGeog

PROGRAMS AND RESEARCH FACILITIES: The programs of study at The Ohio State University focus on geography from conceptual and theoretical perspectives. The program is also strongly oriented towards the analysis of geographical problems. The department has chosen to specialize in selected areas in depth, with subfields in Urban, Regional, and Global Studies; GIS and Spatial Analysis; Atmospheric and Climatic Studies; and Environment and Society. Methodologically these include both quantitative and qualitative approaches as well as applied studies and the use of geographic information systems. Overall the program is intended to be flexible enough to provide the geographer with an appropriate background to undertake a career in academia, private industry, consulting firms, and government or research institutes. 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:

The study of Urban, Regional and Global Studies is a specialty in which The Ohio State University has excelled for many years. The Center for Urban and Regional Analysis, headed by Professor Harvey J. Miller, offers many new opportunities for faculty and graduate students to interact with each other and perform research. Research interests in this area include geographies of power, spatialities of difference, urban transportation, accessibility and mobility, dynamics of local and global economies, and critical research practices. Urban research focuses on identity politics and urban struggle, the governance of neoliberal life, geopolitics of the new immigration policy, patterns of daily spatial mobility, and gender issues in urban and transportation geography.

The primary focus of the GIS and Spatial Analysis core group is theoretical issues of GIScience and GIS applications to theoretical and substantive research questions. A common theme throughout much of the work in this area is the application of GIS-based spatial analysis

and modeling. Applications of work being done include hub and spoke network analysis in air transportation, retail and interaction models, time geography, dynamics of crime, population growth, public health, social media, volunteered geographic information (VGI), as well as the role of GIS in gender research. Work is being done on new information technologies (IT) and individual access to them, on human cyberspatial cognition and behavior, as well as on network topology and accessibility of the internet.

The Atmospheric and Climatic Studies group specializes in work on all atmospheric spatial and temporal scales including involvement with observational, statistical, and modeling work. Current work includes synoptic-scale diagnostic studies of high latitude moisture budgets, large-scale modeling of climatic impacts on the Greenland and Antarctic ice sheets, and the role of ocean-atmosphere interactions in Arctic climate variability. Paleoclimatic work focuses on reconstruction of Earth's past climates from chemical and physical records within ice sheets and ice caps, including efforts to understand past behavior of the monsoons, sea ice, and even volcanic history. Other large-scale efforts examine synoptic type climatological variability over the U.S. and the role of sunshine variability on mean temperatures. On smaller scales, focus is on prediction of peak hurricane intensities, the dynamics of melting glaciers, and climate simulation. The department houses the office of the State Climatologist and several faculty are affiliated with the Byrd Polar and Climate Research Center.

These cores are linked in the Environment and Society concentration, which integrates human and physical geography approaches to focus on human-environment interactions. Faculty investigates these links at multiple scales in varied settings. Recent research topics include human dimensions of global environmental change and its impacts; reconstruction of past environmental change; political ecology of tropical and temperate forests; environment-development issues in Latin America; and environmental health issues.

Research is supported by an excellent library system housing 3.8 million volumes, 2.3 million microforms and 200,000 sheet maps. Current serial subscriptions number 28,000 and include virtually all journals of value in geographic research. A computer-based library circulation system, accessible from student offices, provides access to catalog data and availability of materials as well as literature searches. The department supports laboratories for work in cartography, GIS, weather analysis, and spatial analysis. The atmospheric sciences laboratory maintains one of the most popular computer weather servers in the country, available at <http://twister.sbs.ohio-state.edu>, providing national and local forecasts, satellite and Doppler radar imagery, and other products. A large number of meteorological instruments and recording devices are available for boundary layer climate studies. Computer facilities include the State of Ohio Supercomputer Center's Cray S, an IBM mainframe, various departmental PCS and workstations, and the Center for Mapping. The Center for Urban and Regional Analysis (CURA) is housed within the Geography Department. CURA serves as a catalyst for interdisciplinary research on urban and regional topics, as a resource for data and analysis, and as a link for outreach to the Columbus community.

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 Climatic Studies, Physical Geography, and Spatial Analysis; BS Atmospheric Sciences; BS Geographic Information Science; and BA Social Sciences Air Transportation. The courses within each major comprise the minimum 30 credit hours required for any major program, and students must earn at least a C- in each course. 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 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. Admission Requirements: Minimal grade point average of 3.0 (A=4.0) or equivalent for all applicants. All applicants must take the Graduate Record Examination. While there is no required score for admission, competitive applicants will score in the 75th percentile or above on the combined verbal and quantitative sections, and a 3.5 or above on the analytical writing. Foreign applicants must also take the TOEFL and achieve a score above 88 for admission. Financial Aid: Teaching and research associateships 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 13th (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 — 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, Associate 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 Eitlinger, 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
Jialin Lin, Ph.D., SUNY-Stony Brook, 2001, Associate Professor — global climate change, climate modeling and climate dynamics
Desheng Liu, Ph.D., UC-Berkeley, 2006, Associate 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)
Edward J. Malecki, Ph.D., Ohio State, 1975, Professor — urban, rural and regional development, economic, technological change
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, and geo-spatial modeling
Kendra McSweeney, Ph.D., McGill, 2000, Professor — cultural and political ecology, rural livelihoods, demography, conservation and 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, Assistant 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 — economic, land use change
Morton O'Kelly, Ph.D., McMaster, 1981, Professor and Chair — 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
Daniel Sui, Ph.D., University of Georgia, 1993, Distinguished Professor of Social & Behavioral Sciences and Chair — GIScience, urban geography, geographic thought, social media, public health
Steven Quiring, Ph.D., University of Delaware, 2005, Professor — climatology, hydroclimatology, synoptic climatology, climate data analytics
Joel Wainwright, Ph.D., Minnesota, 2003, Professor — development, social theory, political ecology
Max Woodworth, Ph.D., UC-Berkeley, 2013, Assistant Professor — urban China, Taiwan, neoliberalism
Ningchuan Xiao, Ph.D., Iowa, 2003 — GIScience, spatial analysis, geovisualization and cartography, spatial decision support systems

EMERITUS FACULTY:

William V. Ackerman, Professor Emeritus
A. John Arnfield, Professor Emeritus
Emilio Casetti, 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
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 7/1/15-6/30/16: 42 Bachelors, 10 Masters

STUDENTS IN RESIDENCE: 170 Majors, 23 Masters

CHAIR: James M. Dyer

ADMINISTRATIVE SPECIALIST: Patti Malloy

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: 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: dyer@ohio.edu. Internet: www.ohio.edu/geography

PROGRAMS AND RESEARCH FACILITIES:

Ohio University offers undergraduate students either a B.A. or a B.S. degree. In addition to the Geography major, undergraduate students may choose to follow one of several structured programs for a more specialized degree. These include Environmental Geography, Meteorology, Geographic Information Science (GIS), Environmental Pre-Law, Urban Planning and Sustainability, and Globalization & Development. The department also offers both undergraduate and graduate certificates in Geographic Information Science. Admission requirements are listed on the Ohio University web page (www.ohio.edu); information about programs of study can be found on the department's web page.

The department grants the M.A. and M.S. degrees with a thesis and a non-thesis option. Faculty strengths include physical (biogeography, geomorphology, climatology, meteorology), sustainable planning and resource management, urban, development studies, globalization, feminist/gender geography, agriculture/land use, cultural-historical, population, and applied information technology (cartography, remote sensing, GIS). The department maintains strong ties with the Environmental Studies, International Studies (Latin America, Asia, Africa), and Women's, Gender, and Sexuality Studies programs. Graduate Catalog information and online application forms can be accessed from the Graduate College web site at www.ohio.edu/graduate/.

Departmental facilities supporting undergraduate and graduate research include a Geographic Technologies Laboratory supporting advanced information technologies, instruction in GISc and automated mapping. A remote sensing facility supports teaching and research in digital image processing. The Scalia Laboratory for Atmospheric Analysis supports teaching and research in climatology, meteorology, and forecasting. Other laboratory facilities include Carl Ross Geomorphology Research Laboratory, and the Long-Term Social and Ecological Research Laboratory. Ohio University's Alden Library and the OhioLINK catalog provide students access to an extensive number of journals in geography and allied fields, books, and maps.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND

FINANCIAL AID: Academic Plan: semesters. Admission Requirements for Graduate Study: Baccalaureate degree in geography or a related field and a grade point average of 3.0 (4.0 scale), Graduate Record Examination scores, letters of recommendation and personal statement of interest. Financial Aid: Graduate Assistantships are available on the basis of individual merit. These provide full remission of tuition and a stipend of approximately \$12,850 for the nine-month academic year. Research assistant positions are available through faculty research grants. One graduate appointment is an associate in weather observations and forecasting. Assistantships typically are granted for a second year upon successful completion of the first year of study. The financial assistance application deadline is February 1.

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 and Chair* — 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., University of Oklahoma, 2013, Assistant Professor* — observations of formation and evolution of tornadoes, supercell thunderstorms, radar studies, severe weather climatology, mesoscale meteorology
- Brad D. Jokisch, Ph.D., Clark University, 1998, Associate Professor* — cultural/political ecology agriculture, population, migration, Latin America
- Yeong-Hyun Kim, Ph.D., Syracuse University, 1998, Associate Professor* — globalization, economic geography, urban geography, Asia
- James K. Lein, Ph.D., Kent State, 1986, Professor* — environmental assessment, land resource analysis, applied physical, remote sensing, GIS
- Amy Lynch, Ph.D., University of Pennsylvania, 2013, Assistant Professor* — land use and environmental planning, green infrastructure, sustainable community strategies and indicators
- 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* — physical geography, geomorphology, Quaternary studies, paleolakes, arid lands, 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, Assistant Professor* — environment and development, land tenure systems, rural livelihood and coping strategies, African drylands
- Elizabeth 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 of Geography and Women's and Gender Studies* — gender and development, social geographies, informal sector, Argentina

AFFILIATED FACULTY:

- Ana Mojica Myers, M.A., Ohio University, 2009, Visiting Instructor* — cartography
- Scott Reinemann, Ph.D., Ohio State University, 2013, Visiting Instructor* — meteorology, paleoclimatology, biogeography
- Michael Hollingsworth, J.D., The College of William & Mary, Visiting Assistant Professor* — environmental law

OHIO WESLEYAN UNIVERSITY

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

DATE FOUNDED: 1951

DEGREES OFFERED: B.A., Geography; Geology;
Environmental Studies; Environmental Science; Urban
Studies

GRANTED 9/1/16-8/30/17: 42 Geography; 30 Geology; 61
Environmental Studies

MAJORS: 15 Geography, 10 Geology, 35 Environmental
Studies

CHAIR: Barton Martin

DEPARTMENT ADMINISTRATIVE ASST: Kathy Boger

FOR CATALOG AND 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 globalism and the global south; 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, and a GIS computer lab for the exclusive use of majors. 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:

Nathan Amador, Ph.D., Penn. State, 2014, Assistant Professor of Geography — climate, weather, glaciers, remote sensing

Karen H. Fryer., Ph.D., Illinois, 1986, Professor of Geology — 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, vulcanology, mineralogy, petrology, economic geology

Jennifer Mokos, Ph.D., Vanderbilt, 2017, Visiting Assistant Professor of Geography — urban geography, economic geography, political ecology, social justice

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, and World Regional Geography. All of 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, Associate Degree in Geography, Applied
Associate Degree in Geospatial Technology

CHAIR: Dona Fletcher

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 introductory human, regional, physical geography courses as well as geography of the Middle East. Our offerings in GIS include introduction to GIS, cartography, and advanced spatial analysis. 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 service learning projects, internships, field trips, and one-on-one mentoring.

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, Courseview Campus Center (Mason, OH), Englewood Learning Center, Huber Heights Learning Center, Preble county Learning Center, and Wright-Patterson Air Force Base 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:

Jacqueline Housel, Ph.D. State University of New York at Buffalo, 2007, Associate Professor of Geography and GIS — GIS, urban geography, race and ethnicity
Mohsen Khani, MA, University of Western Michigan, 1992, Professor of Geography — political and physical geography

ADJUNCT FACULTY:

Adanna Ariyo, MA.
Tom Harner, GIS Coordinator at Miami Valley Regional Planning Commission
Lance Lemonges, PhD, University of Florida

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.

GRANTED 2015-2016: 5 Bachelors, 2 Masters, 4 Ph.D.

STUDENTS IN RESIDENCE: 17 Majors, 21 Masters, 17 Ph.D.

NOT IN RESIDENCE: 6 Masters, 5 Ph.D.

CHAIR: Patrick L. Lawrence

ASSISTANT TO THE DEPARTMENT CHAIR: Tammy Golkiewicz

FOR FURTHER INFORMATION WRITE TO: Daniel J. Hammel, 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 (c/o Department of Geography and Planning).
E-mail: Dan.hammel@utoledo.edu
Internet: 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 sculpture 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.

MA Program: The program is on the semester system. All students must complete a minimum of 36 hours of approved study including a two-semester hour thesis. There is a comprehensive examination for admittance to candidacy. Also required is either appropriate supervised teaching assistant experience or a planning internship. 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) and 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.

PhD Program: Spatially Integrated Social Science—A program designed around the application of geographic information 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.

FACULTY:

Bhuiyan M. Alam, Ph.D., 2005, Florida State University, Associate 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 — 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 and Planning

Patrick L. Lawrence, Ph.D., 1996, University of Waterloo, Professor and Chair — Environmental and ecosystem planning, environmental applications in remote sensing, coastal and shoreline management land use/growth management, natural resource 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 — Cultural, Asia, Architecture and Ideology, Informal Economics

Neil Reid, Ph.D., 1991, Arizona State University, Professor — Industrial Geography, Economic Geography, Economic Development

M. Beth Schlemper, Ph.D., 2000, University of Wisconsin-Madison, Associate Professor — Cultural and Historical, Human Geography

Sujata Shetty, Ph.D., 2002, University of Michigan, Associate Professor — Urban Planning

Yanqing Xu, Ph.D., 2014, Louisiana State University, Assistant Professor — GIS, Medical/Health Geography

EMERITI FACULTY:

Eugene N. Franckowiak, Ph.D., Michigan, 1973, Professor Emeritus and Research Professor — Cartography, Latin America especially Andean America, environmental perception

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

Donald W. Lewis, Ph.D., Ohio State, 1966, Professor Emeritus — Neighborhood revitalization, environmental planning and resource management, Anglo-America

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)

GRANTED AY 2015-2016: 11 Bachelors, 6 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 38 Majors, 8 Masters, 22
Ph.D.

HEAD: Dale R. Lightfoot

DEPARTMENT ADMINISTRATIVE ASST: Sharon
Elliott

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Emily Williams, Graduate Secretary, 337 Murray Hall, Oklahoma State University, Stillwater, Oklahoma 74078-4073.
Telephone (405) 744-6250. Fax (405) 744-5620.

E-mail: emily.c.williams@okstate.edu. Web: www.geog.okstate.edu.

PROGRAMS AND RESEARCH FACILITIES: Programs of study lead to bachelors, masters and doctoral degrees in Geography, the

bachelor of science in Geospatial Information Science, and the bachelor of arts in Global Studies. The Department also sponsors students in the university's interdisciplinary Environmental Science M.S. and Ph.D. program. Students can earn a Certificate in Geographic Information Systems concurrently with their graduate or undergraduate degree in geography. Coursework is oriented toward problem solving skills and techniques and considerable leeway is granted the student with respect to the selection of course offerings within and outside the Department. Students may generalize, or develop plans of study to accommodate specialties in one of the Department's three areas of emphasis: (1) *Resource Management*: Faculty interests focus on agriculture, transportation, atmospheric/surface modeling, outdoor recreation management, soils, water, and the economics and policy of resource allocation and use. The application of GIS methodologies in addressing resource management problems is especially encouraged. (2) *Cultural and Historical Geography*: The Department has a longstanding tradition of research in cultural geography. Areas of faculty expertise include the geography of sport, language, traditional technology, and Native Americans. Faculty are also involved in research projects related to historic preservation, urban history, geoarchaeology, and cultural and political ecology. (3) *Urban and Transportation Geography*: The Department has long supported studies in the cultural and economic impact of urban places and the development and structure of urban places in the Great Plains and American South. Faculty interests in transportation focus on the economic impacts of transportation infrastructure and the development of transport/logistics databases and end-user transport applications of GIS. Specialized degree plans are available in the following tracks: (1) Outdoor Recreation and Resource Management; (2) People, Place, Society; (3) Global Studies; and (4) Environmental Change and Sustainability. The Certificate in Geographic Information Systems can be added to any of these degree options.

Research and travel experience give faculty strength in several geographic regions, especially Central Asia, Australia, Latin America, and the Middle East. Two international journals are edited by Department faculty: the *Journal of Cultural Geography* and the *Journal of Central Asian Studies*. In addition to academic careers, the Department's applied orientation prepares students for careers in government, business, and industry. Internship opportunities are available in both the private and public sectors.

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. Two campus centers are managed by the Department: the OSU Cartography Service, a full-service production cartography facility, and the Center for Applications of Remote Sensing which includes UAV/UAS equipment and expertise for remote sensing instruction 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 in a near-real-time GIS environment. The Department's computer facilities are equipped with 32 instructional computers, a large format color scanner, 11x17 color printer, and two large format color printers capable of E-size printing. These labs are available for digital cartography (Adobe Illustrator, Corel Draw), the Global Positioning System (Trimble's Pathfinder Office), geographic information systems (ESRI's ArcGIS - ArcInfo), and remote sensing (ERDAS, ENVI, IDRISI, and AgiSoft 3-D modeling).

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 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. Students can also elect to earn a certificate in Geographic Information Systems (GIS) or a minor in Geography.

Graduate: The Department offers the M.S. and Ph.D. degrees in geography. We maintain specialties in resource management, cultural and historical geography, and urban and transportation geography. Specific plans of study are tailored to individual student interests within these specialties. The M.S. degree usually requires two academic years (four semesters) and admission is predicated on submission of academic transcripts, GRE scores, and letters of reference from persons familiar with the student's academic performance and potential. 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. In addition to the M.S. requirements, the Ph.D. degree requires a minimum of 60 credit hours. Admission requirements include a completed M.S. degree or equivalent and demonstration of research potential through the completion of a M.S. thesis or equivalent. The Departmental Graduate Committee accepts admissions applications throughout the year and will render decisions on admission and/or funding as soon as practical.

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 can be obtained by writing to the department.

Financial Aid: Masters teaching and research assistantships carry monthly stipends of \$1,203.00 and Doctoral Teaching Associate and research positions carry a monthly stipend of \$1,553.00. All assistantships include a waiver of out-of-state tuition, plus all tuition waived 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.

FACULTY:

Brad A. Bays, Ph.D., Nebraska, 1996, Associate Professor — historic preservation, historical GIS, Native Americans, agricultural history, Great Plains, Oklahoma
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
Amy E. Frazier, Ph.D., University at Buffalo, 2013, Assistant Professor — remote sensing, landscape ecology, natural resource management, human-environment interactions, spatial analysis
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

Peter Kedron, Ph.D., University at Buffalo, 2012, Assistant Professor — new industrial landscapes, sustainability, renewable energy, regional economic development, foreign direct investment, spatial analysis

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

Adam J. Mathews, Ph.D., Texas State, 2014, Assistant Professor — GIS, remote sensing, unmanned aerial vehicles, lidar, wine

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 Vadajne, 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. Winkle, 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

STAFF AND AFFILIATED FACULTY:

Clay Barrett, M.S., Oklahoma State, 2015, GIS Specialist/Cartography Service

Michael P. Larson, M.S., Oklahoma State, 2003, Coordinator, 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

UNIVERSITY OF CENTRAL OKLAHOMA

DEPARTMENT OF HISTORY AND GEOGRAPHY

DATE FOUNDED: 1968

DEGREE OFFERED: B.A.

GRANTED 1/1/16-12/31/16: 6

MAJORS: 25

CHAIR: Patricia Loughlin

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/la/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 and less formal occasions.

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, Associate Professor — population geography, political geography, cultural geography, migration, Europe
Brad W. Watkins, Ph.D., Oklahoma State, 2007, Professor — applied GIS, historical GIS, cultural geography, historical geography, American Indians, North America, Oklahoma

ADJUNCT AND EMERITI FACULTY:

Shannon Hall, Ph.D., University of Oklahoma, 2015, Lecturer — physical geography, biogeography, environmental conservation, Africa
Kenny L. Tapp, M.S., University of Oklahoma, Adjunct — severe storms, geotechniques, regional climatology, science education

OREGON

CHEMEKETA COMMUNITY COLLEGE

SOCIAL SCIENCE PROGRAM

DATE FOUNDED: 1970

DEGREES OFFERED: A.A. Geography

SOCIAL SCIENCE PROGRAM DEAN: Don Brase

PROGRAM ADMINISTRATIVE ASSISTANT: Angie Ross

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Social Science Program, Chemeketa Community College, 4000 Lancaster Dr. NE, Salem, OR 97305. (503) 399-5051, 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, Natural Hazards, Middle East, U.S. & Canada, World Regional

ADJUNCT FACULTY:

Megan Cogswell, M.S., Oregon State University — Cultural, Economic
Lori Cole, M.A., California State University-Chico — Cultural

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: Earth Science (Geography Option)
 B.S.; Geography M.A, M.S., Ph.D.

DIRECTOR OF GEOGRAPHY: Julia A. Jones

DEPARTMENT ADMINISTRATIVE ASST: Stacey Schulte

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: stacey.schulte@oregonstate.edu
 Internet: <http://ceoas.oregonstate.edu/students/>

PROGRAMS AND RESEARCH FACILITIES: Undergraduate students can obtain an option in Geography as part of the Earth Sciences major. The option includes coursework in physical geography, geography of resources, planning and hazards; GIScience and regional geography/globalization, as well as field experiences and training in basic geographic techniques.

Graduate studies and research in Geography include three areas of excellence:

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, geospatial intelligence, 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.

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.

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, GIScience capable computer classrooms, enhanced digital projection classrooms, and remote sensing, GIS, geovisualization and geospatial intelligence 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 non-thesis 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:

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, Instructor — geographic information systems and sustainability
Michael E. Campana, PhD, Arizona, 1975, Professor — hydrology, transboundary water resource issues, water allocation and availability
Steve Cook, PhD, University of Florida, 1995, Senior Instructor — environmental sustainability
Hannah Gosnell, PhD, Colorado, 2000, Associate Professor — land use, biodiversity, conservation, water resources
Demian Hommel, PhD, Oregon, 2009, Instructor — cultural geography, natural hazards
Shireen Hyrapiet, PhD, Oklahoma State, 2012, Instructor — political ecology, disaster management, cultural geography
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, Assistant Professor — geospatial analysis and remote sensing
Anne Nolin, PhD, UC Santa Barbara, 1993, Professor — remote sensing, snow and ice in the climate system
Mary V. Santelmann, PhD, Minnesota, 1988, Associate 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
James Watson, PhD, University of California-Santa Barbara, 2011, Assistant Professor — complex adaptive social-ecological systems (expected to start date fall 2017)
Aaron T. Wolf, PhD, 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
Bo Zhao, PhD, Ohio State University, 2015, Assistant Professor — geovisualization

GEOGRAPHY COURTESY FACULTY:

Christopher Daly, PhD, Oregon State University, 1994, Professor — climate mapping, PRISM
Jim Graham, PhD, Colorado State University, 2006, Assistant Professor (Humboldt State University) — GIS, geospatial programming

Sean Fleming, PhD, University of British Columbia, 2004, Assistant Professor — hydroclimatology
Gordon Grant, PhD, Johns Hopkins, 1986, Professor (US Forest Service PNW Station) — fluvial geomorphology
Steven W. Hostetler, PhD, Oregon, 1988, Associate Professor, Research (USGS) — regional climate modeling, hydrology
Sarah Shafer, PhD, Oregon, 2000, (Project Chief, USGS) — species and ecosystem response to projected future climate change
Denis R. White, MA, Boston University, Research Assistant — geographic analysis and synthesis
Dawn Wright, PhD, UC Santa Barbara, 1994, Professor — geographic information systems and spatial analysis, marine geography, informatics and cyberinfrastructure, geographic information science in higher education

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 9/1/2014-8/31/2015: 30 Bachelors, 8 Masters, 28 GIS grad certificates (18 Geography Minor, 17 GIS Minor)

STUDENTS IN RESIDENCE: 167 Majors, 32 Masters, 61 GIS grad certificates (60 Geography minors, 88 GIS minors, 8 Water Resource minors)

CHAIR: Heejun Chang, Ph.D.

DEPARTMENT ADMINISTRATOR: Seyra Croy

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:

Environmental Geography and Natural Resource

Management: The examination of environmental change and human influences on natural resources; conservation, cultural and political ecology, environmental ethics and resource management are also department interest areas.

Spatial Analysis, Data Representation, and Technology: 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 Geography: The natural environment of the earth as a set of interrelated systems. Geographic specialties include hydrology and water resources, climatology, 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, cultural and political ecology, 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, Europe, 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:

Sona Andrews, Ph.D., Arizona State University, 1981, Provost and Vice President for Academic Affairs, Professor of Geography
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 peoples and environments, pastoralism, highland Asia, American West, cultural ecology
Teresa L. Bulman, Ph.D., University of California-Davis, 1990, Professor — research in geography education; teaching in climate and water resources
Heejun Chang, Ph.D., Pennsylvania State University, 2001, Professor and Chair — hydrology and water resources, climate change impact assessment, hydrologic ecosystem services, stream restoration, visual spatial analysis, GIS applications in hydrology and water resources
Britt Crow-Miller, Ph.D., University of California, Los Angeles, 2013, Assistant Professor — environmental politics, development, political ecology, water resources, China
Jiunn-Der (Geoffrey) Duh, Ph.D., University of Michigan, 2004, Associate Professor — geographic information systems theory and application, remote sensing, land use and land cover change
Andrés Holz, Ph.D., University of Colorado, Boulder, 2009, Assistant Professor — forest dynamics, disturbance ecology, climate-fire-human relationships
Martin Lafrenz, Ph.D., University of Tennessee, 2005, Associate Professor — 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
Hunter Shobe, Ph.D., University of Oregon, 2005, Assistant 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) — behavioral geography, geographic information science, 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 — Research interests: 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:

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 Emeritus — 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.

GRANTED 9/1/15-8/30/16: 59 Bachelors, 7 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 117 Majors, 15 Masters, 33 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 both B.A. and B.S. degrees in geography. The undergraduate program requires coursework in human, physical, regional geography, and geographic information 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

Christopher Bone, Ph.D., Simon Fraser, 2009, Associate Professor — geographic information system science, spatial analysis and modeling

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

Mark A. Fonstad, Ph.D., Arizona State, 2000, Associate Professor — geomorphology, hydrology, remote sensing, environmental simulation

Daniel G. Gavin, Ph.D., Washington, 2000, Associate Professor and Department Head — biogeography, paleoecology

Leigh Johnson, Ph.D., UC Berkeley, 2011, Assistant Professor — political ecology, development, economic geography

Amy K. Lobben, Ph.D., Michigan State, 1999, Professor — cartography, spatial cognition and abilities, GIS, neuroimaging

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 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

Hedda R. Schmidtke, Ph.D., University of Hamburg, 2005, Assistant Professor — geographic information science, scale

Lucas 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

IUP – INDIANA UNIVERSITY OF PENNSYLVANIA

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING

DATE FOUNDED: 1928

GRADUATE PROGRAM FOUNDED: 1958

DEGREES OFFERED: B.A., B.S. (Regional Planning and Social Science Education), M.S.

GRANTED 9/1/16-8/31/17: 35 Bachelors, 10 Masters

NUMBER OF STUDENTS: 130 Majors, 22 Masters

CHAIR: John E. Benhart, Jr.

DEPARTMENT SECRETARY: Melissa Bair

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Ms. Melissa Bair, Admissions Information, Dept. of Geography and Regional Planning, IUP, Indiana, PA 15705. Telephone (724) 357-2250. Fax: (724) 357-6479. Email: mbair@iup.edu. Internet: www.iup.edu/georegionalplan/

PROGRAMS AND RESEARCH FACILITIES: Department faculty and the institution are dedicated to quality personalized education. Emphasis is placed on student-faculty interaction on research and community projects. Programs are designed to prepare geographers to enter government service, business or industry, including water resource management, utility infrastructure systems, and local planning studies. Planners are prepared for positions in local, regional and state agencies. Social science educators are prepared for secondary schools. All programs focus upon the tools,

techniques, and substance of the field. Graduates experience a high rate of placement success in planning offices, engineering firms, and for government agencies following graduation.

Undergraduates major in geography or regional planning with track specializations available in environmental, economic, GIS/cartography, land use planning, or general geography. Internships are encouraged. Education majors begin clinical experience in the sophomore year.

The department offers M.S. student tracks in regional planning, GIS/cartography, or environmental planning. Selected courses in related fields, independent research, and internship credits may be applied toward a Masters degree. Thesis and non-thesis options are available. A portfolio is required of non-thesis students.

The department maintains multiple facilities that support instruction and research in geospatial techniques and planning analysis/design: The Geospatial Lab is designed to train students using cartography, geographic information systems (GIS), remote sensing, and computer aided drafting (CAD) hardware and software, including ESRI ArcGIS 10 (University Site License), ERDAS Imagine, IDRISI, MapInfo, and MiniCAD/Vectorworks applications. The Planning Lab/Studio interactive spaces support planning design and analysis applications where students have access to the Adobe Creative Suite, Google SketchUp, AutoCAD and other platforms for articulating designs, analysis and ideas. The Department also retains equipment for teaching students advanced environmental data collection and analysis techniques, including a GPS base station, Trimble GeoXT, GeoXH and R-8 global positioning system (GPS) units, a Nikon Total Station survey instrument, EcoSeeker DataLogger water monitoring devices, and a Davis Vantage Pro 2 Weather Station with real-time reporting capabilities.

Recent faculty research papers and publications have examined resource extraction patterns and impacts in Pennsylvania, planning policy and implementation in rural communities, economic development, Eastern Europe, Africa, environmental planning, geographic information systems applications, regional input-output analysis, cultural landscapes, and geographic education. Departmental faculty serve in various capacities in the Association of American Geographers, Pennsylvania Planning Association, Pennsylvania Geographical Society, and the National Council for Geographic Education. Faculty play a fundamental role in state GIS projects. Student employment is often available for student participation in faculty research.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

UNDERGRADUATE: IUP has two 14-week semesters during the regular academic year and two five-week sessions in the summer. Information on admission should be requested from the Admissions Office, IUP, Indiana, PA 15705. IUP's Financial Aid Office runs a program which has been recognized nationally for its excellence. IUP has been recognized in *Barron's*, *The New York Times* Education Editor, and *Changing Times Magazine* for offering quality education at an affordable cost. Geography Department-specific scholarships for secondary education, combined programs in geography and mathematics, and performance are offered. Geography or Planning students scoring above 1150 on SAT may be eligible for tuition waivers.

GRADUATE: The graduate program is open to qualified students holding a bachelor's degree from an accredited college or university. Graduate Record Examination scores are required for admission. Students anticipating application should strive for a 3.0 QPA or better in the junior and senior years. Graduate assistantships, employment opportunities, and loans comprise the financial aid packages. Assistantships and employment are available in the Department and various research offices at IUP.

FACULTY:

John E. Benhart, Jr., Ph.D., Tennessee, 1995, Professor — GIS, conservation, land use, urban, transportation
Donald W. Buckwalter, Ph.D., Tennessee, 1988, Professor — economic development, regional, map and photo development, retail, transportation, former Soviet Union
Sudeshna Ghosh, Ph.D., Cincinnati, 2013, Assistant Professor — economic development, community planning, planning methods and analysis
Richard J. Hoch, Ph.D., West Virginia, 2005, Associate Professor — land use planning, regional economic development, environmental planning, remote sensing, GIS
Calvin O. Masilela, Ph.D., Virginia Polytechnic, 1989, Professor — Africa, land use policy, planning theory, urban planning, planning techniques
Brian W. Okey, Ph.D., University of Guelph, 1999, Professor — environmental, water resources
Kevin J. Patrick, Ph.D., North Carolina, 1995, Professor — economic, urban, transportation, cartography
Christopher Schaney, Ph.D., West Virginia, 2010, Assistant Professor — energy, environmental, remote sensing
Gail S. Sechrist, Ph.D., Louisiana State, 1986, Professor — cultural-historical, U.S. and Canada, religion
Robert P. Sechrist, Ph.D., Louisiana State, 1986, Professor — cartography, spatial diffusion, GIS
Jennifer Smith, Ph.D., West Virginia University, 2015, Assistant Professor — developing world urbanization and development, land use/land cover analysis, remote sensing
D. Whit Watts, Ph.D., Virginia Polytechnic, 1995, Assistant Professor — land use planning, design, theory, land use law
Stacey Patrick, Ph.D., Kent State, 2016, Instructor — cultural geography, political geography

EMERITI FACULTY:

Robert B. Begg
Joseph Bencloski
Susan E. Forbes
Thomas G. Gault
Vincent P. Miller, Jr.
Ruth I. Shirey
Leonard P. Tepper
Charles E. Weber

KUTZTOWN UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1961

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

Environmental Science/Geography

GRANTED 7/01/10 - 12/17/16: 67 B.A. degrees, 3 B.S. degrees

MAJORS: 53

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 laboratory is a state-of-the-art facility where students may work with the major GIS, remote sensing, and business graphics software packages. Research opportunities include major urban areas, unique rural cultures, 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 at the Kutztown University Department of Geography. It is in place 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, Assistant 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 6/1/16-5/31/17: 38 Bachelors, 47 Masters, 10 Ph.D.

STUDENTS IN RESIDENCE: 115 undergraduate majors, 230 undergraduate minors, 5 M.S., 52 Ph.D., 2 postdoctoral scholars

NOT IN RESIDENCE: 241 CPGIS and MGIS, 423 GEOINT, 105 GEOAPP, 22 RS

HEAD: Cynthia Brewer

DEPARTMENT ADMINISTRATIVE ASST: 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 1) urbanization; governance, population and environment; justice, ethics and diversity; 2) food security and human health; social processes and networks; geospatial big data analytics; and 3) environmental change and prediction; environmental decision making and thinking spatially; spatial modeling and remote sensing.

The department hosts three major research centers. *The GeoVISTA Center* (with affiliate labs ChoroPhronesis, GeoInformatics and Earth Observation, and Friendly Cities) 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 US. *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

The Department of Geography benefits from close ties to the University Office of Global Programs, the Penn State Institutes of Energy and the Environment (PSIEE), 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. We participate in dual-degree and intercollege graduate programs in Women's, Gender, and Sexuality Studies; Ecology; Climate Science, and African Studies. 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: 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 nineteen 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 general geography (B.A. or B.S.); B.S. options in Geographic Information Science and Physical/Environmental Geography; B.A. options in Human Geography and Nature/Society Geography. The program offers minors in Geography and Geographic Information Systems, and the geography faculty supervise interdisciplinary minors in Climatology, Environmental Inquiry, Informational Science and Technology for Earth and Mineral Sciences, and Watersheds/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/undergraduate-program-information 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 (GIS), Remote Sensing and Earth Observation (RS), and Geospatial Intelligence (GEOINT) 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 (CPGIS) is an 11-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 lack formal education in technologies and methods associated with remote sensing, image analysis, and terrain modeling. The graduate certificate program in Geospatial Intelligence (GEOINT) is a 14-credit program for current and aspiring analysts whose responsibilities include planning for emergencies, coordinating responses to natural and human-induced disasters, and planning and conducting military operations. The Master of GIS (MGIS) degree is a 35-credit program for those who aspire to leadership in the GIS profession. The certificate and MGIS programs follow an accelerated schedule of five ten-week terms per year. 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: www.worldcampus.psu.edu/gep

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. The department participates in interdisciplinary graduate programs in African studies, ecology, human dimensions of natural resources and the environment, and women's, gender, and sexuality 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 two-semester stipend plus tuition and fees. Fellowships and employment opportunities are available. A thesis or two research papers are 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 also offered. Detailed information about the graduate programs is available at www.geog.psu.edu/graduate-program-information/future-graduate-students

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:

- Clio M. Andris, Ph.D., MIT, 2011, Assistant Professor* — social networks, urban planning, spatial analysis & GIS, interpersonal relationships, institutions, telecommunications, human movement
- Jennifer Baka, Ph.D., Yale, 2012, Assistant Professor* — energy geography, political-industrial ecology, environmental governance, biofuels and hydraulic fracturing
- 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
- Robert P. Brooks, Ph.D., Massachusetts, 1980, Professor of Geography, Ecology, and Earth and Environmental Systems Institute; Director of Penn State Riparia* — ecology, conservation, and restoration of wetlands, streams, and riparian areas, wetland wildlife, landscape ecology
- Andrew M. Carleton, Ph.D., Colorado, 1982, Professor of Geography* — satellite climatology, synoptic climatology, climate dynamics, human impacts on climate, polar climates
- Guido Cervone, Ph.D., George Mason University, 2005, Associate Professor of Geography and Geoinformatics* — remote sensing, environmental hazards, geoinformatics, social media, spatial statistics, complex economic systems
- Robert G. Crane, Ph.D., Colorado, 1981, Professor; Associate Vice Provost for Global Programs* — climatology, regional scale climate change, African climates
- Lorraine Dowler, Ph.D., Syracuse, 1997, Associate Professor* — social theory, cultural geography, gender, qualitative methods
- Roger M. Downs, Ph.D., Bristol, 1970, Professor* — behavioral, environmental cognition, geography education
- William E. Easterling, Ph.D., North Carolina, 1984, Professor; Director for the NSF Directorate for Geosciences* — environmental change, agricultural systems, climate, renewable natural resources, land use
- Christopher Fowler, Ph.D., University of Washington, 2007, Assistant Professor* — urban and economic geography, demographics, poverty
- Joshua F. J. Inwood, Ph.D., University of Georgia, 2007, Associate Professor* — social and racial dimensions of human vulnerability, global ethics
- Brian King, Ph.D., University of Colorado-Boulder, 2004, Associate Professor* — development, conservation, Southern Africa, cultural and political ecology, health, livelihoods, justice
- Alexander Klippel, Ph.D., Bremen, 2003, Associate Professor* — 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; Director of GeoVISTA Center* — geographic information science: visual analytics, geovisualization, cartography, geocollaboration, spatial cognition, human-centered systems
- Lise K. Nelson, Ph.D., University of Washington, 2000, Associate Professor of Women's, Gender, and Sexuality Studies and Geography* — qualitative methods, political and feminist geography, neoliberal globalization, citizenship belonging and identity, Mexico and the United States, migration and labor
- Bronwen Powell, Ph.D., McGill University, 2012, Assistant Professor* — social, cultural and environmental drivers of diet quality and food security, relationships between biodiversity and human nutrition
- Anthony Robinson, Ph.D., Penn State, 2008, Assistant Professor, Director of Online Geospatial Education Programs* — geographic visualization, cartography, visual analytics
- Erica A. H. Smithwick, Ph.D., Oregon State, 2002, Associate Professor of Geography, Ecology, and Earth and Environmental Systems Institute* — landscape ecology, ecosystem ecology, biogeochemistry, fire ecology

- Alan H. Taylor, Ph.D., Colorado, 1987, Professor of Geography and Ecology* — disturbance and climate effects on vegetation, landscape ecology, biogeography, biological conservation, environmental management, fire ecology, paleoecology
- Kimberley A. Thomas, Ph.D., Rutgers, 2015, Assistant Professor of Geography* — environment and society, resource governance and environmental politics, water politics, international development
- Melissa W. Wright, Ph.D., Johns Hopkins, 1997, Professor of Geography and Women's, Gender, and Sexuality Studies (WGSS); Department Head, WGSS* — social theory, feminist theory, political economy, Mexico-U.S. border, qualitative methods
- 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*
- Rodney A. Erickson, Ph.D. University of Washington, 1973*
- Deryck W. Holdsworth, Ph.D., British Columbia, 1981*
- Peirce F. Lewis, Ph.D., Michigan, 1958*
- Donna J. Peuquet, Ph.D., SUNY Buffalo, 1977*
- Lakshman Yapa, Ph.D., Syracuse, 1969*
- Brent Yarnal, Ph.D., Simon Fraser, 1982*

RESEARCH AND AFFILIATE FACULTY:

- Neil Brown, Ph.D., Penn State, Research Associate, Office of the Vice Provost for Global Programs; Program Director, Parks and People South Africa; dual-title Assistant Professor of Geography* — development of curricula, assessment and evaluation tools for learning in non-conventional environments, nutritional ecology, environmental and social implications of herbivore centered systems
- Larry Gorenflo, Ph.D., University of California, Santa Barbara, 1985, Professor of Landscape Architecture and Geography* — biodiversity conservation, cultural ecology, East Africa, Latin America, Southeast Asia
- Stephen A. Matthews, Ph.D., Wales, 1990, Professor of Sociology, Anthropology, Demography, and Geography; Director, Graduate Program in Demography* — demography, health and well-being, geographic information systems, multi-method research
- Mike Nassry, Ph.D., Virginia Tech, Research Associate, Riparia* — wetland hydrology, wetland condition assessments, climate change impacts on wetland structure and function
- Hari M. Osofsky, Ph.D., University of Oregon, Dean of Penn State Law and the School of International Affairs; Distinguished Professor of Law; Professor of International Affairs and Geography*
- Linda Pickle, Ph.D., Johns Hopkins, 1977, Adjunct Professor* — geovisualization, spatial statistical analysis, cancer epidemiology
- Denice Wardrop, Ph.D., Penn State, 1997, Senior Scientist; Associate Director of Riparia; dual-title Professor of Geography and Ecology* — landscape ecology, wetland plant communities, effects of human disturbance on wetland ecosystems, wetland condition assessment

ONLINE PROGRAM FACULTY, DUTTON E-EDUCATION INSTITUTE:

- Todd Bacastow, Ph.D., Penn State, 1992, Professor of Practice; Lead faculty, Graduate Certificate in Geospatial Intelligence and Professional Master of Homeland Security Geospatial Intelligence Option* — GIS, geospatial intelligence, geospatial analytic methods
- Ryan Baxter, M.S., Penn State, 1999, Senior Research Assistant* — geographic information systems, cloud and server technology, environmental applications

Dennis Bellafore, Ph.D., University of Pennsylvania, Senior Lecturer — geospatial intelligence, business, location analysis
Justine Blanford, Ph.D., Imperial College, Senior Research Associate, dual-title Associate Professor of Geography — spatial analysis, spatial and temporal ecology of disease
James Detwiler, M.S., University of Delaware, 1999, Senior Lecturer — GIS programming and customization, climatology, distance education
Adrienne Goldsberry, M.S., UC-Santa Barbara, Senior Lecturer; GIS Certificate Program Advisor — geographic information systems, urban planning, distance education
Adrienne Gruver, M.S., Penn State, 2009, Lecturer — cartography, geographic information systems
Fritz Kessler, Ph.D., University of Kansas, 1999, Senior Research Associate; dual-title Associate Professor of Geography — projections, datums, coordinate systems, cartography
Elizabeth King, M.Ed., Penn State, 2003, Senior Lecturer — geographic information systems, adult education, problem-based learning
Douglas A. Miller, Ph.D., Penn State, 1999, Senior Scientist; Director, Center for Environmental Informatics, Earth and Environmental Systems Institute; dual-title Professor of Geography — remote sensing, geographic information science, landscape ecology, soils, geomorphology
Karen Schuckman, MGIS, Penn State, Senior Lecturer — remote sensing, geospatial technology, photogrammetry
Jim Sloan, M.S., Senior Lecturer — geographic information systems, spatial databases, cartography
Gregory A. Thomas, Ph.D., Indiana University of Pennsylvania, 2014, Lecturer; Assistant Director, Geospatial Intelligence programs — intelligence analysis, law enforcement
Michelle Zeiders, M.S., Shippensburg University, Lecturer — geographic information systems, spatial databases, environmental applications

Additional part-time faculty teaching in Penn State geospatial online programs listed at http://gis.e-education.psu.edu/we_are/faculty

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 09/01/14-08/31/15: 22 Bachelors in Geography and Urban Studies; 39 Bachelors in Environmental Studies; 5 Masters of Arts in Geography and Urban Studies; 1 Master of Professional Science in GIS; 6 Ph.D. in Geography and Urban Studies

STUDENTS IN RESIDENCE: 167 Majors; 2 M.A.; 19 Professional Science Masters in GIS; 22 Ph.D.

CHAIR: Melissa R. Gilbert

DEPARTMENT ADMINISTRATIVE ASST: Maggie Cogswell

FOR FURTHER INFORMATION WRITE TO: Program Coordinator, Department of Geography and Urban Studies, 308 Gladfelter Hall, Temple University, Philadelphia PA 19122.

Telephone (215) 204-7692. E-mail: guses@temple.edu. Internet: www.temple.edu/cla/gus

PROGRAMS AND RESEARCH FACILITIES: The department offers a Ph.D. and Masters 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 Undergraduate and Graduate 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 an 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 new degree 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, 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 Chmara-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, and green Christianity

Roman Cybriwsky, Ph.D., Pennsylvania State, 1972, Professor — urban-social geography, world cities, neighborhood change and development, cultural geography, Pacific Asia, Ukraine

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, Assistant Professor and Graduate Chair — 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

Robert J. Mason, Ph.D., Rutgers, 1986, Professor — environmental policy, land use planning and growth management, parks and protected areas, hazards and risk, tourism, Japan, Asia

Michele Masucci, Ph.D., Clark, 1987, Professor and Vice Provost 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

Ariane Middel, Ph.D., Kaiserslautern, 2008, Assistant Professor — urban climate, microclimate, human biometeorology, heat mitigation, climate change adaptation and mitigation, modeling and simulation, urban form and design, urban sustainability, geovisualization

David Organ, Ph.D., Berkeley, 1995, Assistant Professor of Instruction — historical geography, urban geography and African American Studies

Hamil Pearsall, Ph.D., Clark, 2009, Assistant Professor — 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, Assistant Professor and Director of Environmental Studies — metropolitan planning and governance in the U.S. and Latin America, environmental planning, land use and growth management, urban politics, management of mega-cities

Rickie Sanders, Ohio State, 1981, Professor — urban social geography, geographic education/under-represented groups, environment and development

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, Assistant 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

Elizabeth L. Sweet, Ph.D., 2000, University of Illinois at Chicago, Assistant Professor of Instruction — immigration, economic development, gender violence, diversity issues in community development

Sandra Zupan, Ph.D., University of Wisconsin-Milwaukee, 2010, Assistant Professor of Instruction — neoliberal urban governance, local economic development, community organizations, labor-community coalitions, economic justice, environmental justice, urban sustainability, Rust Belt

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

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: 7 Bachelors

MAJORS: 22

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/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, is also available and has over 50 majors. The department arranges internships with local 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. A course in cartography, three "core" geography classes, 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 strongly recommended, 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 technology. 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, energy, Europe, popular music

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

Staff — physical, climatology, environmental, natural hazards, water resources

Mary Pfau Lavine, PhD, Pittsburgh, 1976, 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 8/22/16-8/22/17: 21 Bachelors

CHAIR: Francis A. Galgano Jr.

DEPARTMENT ADMINISTRATIVE ASST: Ms. Angelina Fondaco

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Dr. Francis A. Galgano, Department of Geography and the Environment, Villanova University, 800 Lancaster Ave., G67 Mendel Hall, Villanova, Pennsylvania 19085-1699. Telephone (610) 519-3337/3336. Fax (610) 519-3338.

E-mail: francis.galgano@villanova.edu.

Internet: <http://www.villanova.edu/arts/sci/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 inaugural class for its new MS in Environmental Science began during the fall 2016 semester. 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 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 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 and offers a GPS certification program.

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 and Chair — physical geography, geomorphology, coastal geomorphology, military geography, environmental geography

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 and Graduate Program Director — environmental science, coral reef biogeochemistry

Stephen M. Strader, Ph.D., Northern Illinois University, 2016, Assistant Professor — meteorology

Melanie A. Vile, Ph.D., Notre Dame, 2005, Assistant Professor — ecology

Nathaniel Weston, Ph.D., University of Georgia, 2005, Associate Professor — environmental science, biochemistry, coastal ecosystems, climate change

WEST CHESTER UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND PLANNING

DATE FOUNDED: 1935

DEGREES OFFERED: B.S. Urban & Environmental Planning; B.A. in Geography; M.S. in Geography; B.A. in Elective Social Studies Education; Master of Urban & Regional Planning

POST BACCALAUREATE CERTIFICATES OFFERED: Geographic Information Systems (GIS), GIS Online, Urban and Regional Planning

GRANTED 9/1/16-8/31/17: 26 Bachelors, 8 Masters, 10 Certificates

STUDENTS IN RESIDENCE: 102 Undergraduate Majors, 31 Masters students

NOT IN RESIDENCE: 5 Masters

CHAIR: Dorothy Ives Dewey

DEPARTMENT ADMINISTRATIVE ASST: Heather MacQueen

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Dorothy Ives Dewey, Department of Geography and Planning, West Chester University, West Chester, Pennsylvania 19383. Telephone (610) 436-2746. Department telephone (610) 436-2343. Fax (610) 436-2889. E-mail: divesdewey@wcupa.edu. Internet: www.wcupa.edu/geography.

PROGRAMS AND RESEARCH FACILITIES:

Geography and Planning at West Chester, housed in the College of Business and Public Management, offers undergraduate majors and minors in planning, geography and geographic information systems (GIS). Graduate students are offered two Masters Degree programs, and certificates in Geographic Information Systems and Urban and Regional Planning.

Undergraduate: Undergraduate majors may complete either a B.S. in Urban and Environmental Planning or a B.A. in Geography with an option to specialize in one of four specific areas of interest: (1) General Geography, (2) Geographic Information Systems (GIS), (3) Environmental, (4) Elective Social Studies Education. All degree options include an emphasis on applications of geospatial technologies and provide comprehensive backgrounds in planning and/or geography as a field of study. Students are encouraged to apply their knowledge and skills through directed internship experiences prior to graduation.

Graduate: Graduate programs include the Master of Urban and Regional Planning (MURP) and an M.S. in Geography. There are two certificate programs.

The M.S. in Geography develops skills and expertise for problem solving in such areas as land use planning, demographic research, conservation of natural resources, urban environmental analysis, economic development, and GIS. It is a 33-hour thesis or non-thesis program. Internships are possible in both Masters programs.

The Master of Urban and Regional Planning prepares students for careers in urban planning or a related profession. The program emphasizes environmental planning, economic development planning and land use. Geospatial technologies are fully integrated throughout the program. The program has been designed around the accreditation standards of the Planning Accreditation Board (PAB).

The Certificate in Geographic Information Systems consists of four courses that teach the use of technologies of Geographic Information Systems (GIS) and Global Positioning Systems (GPS). These technologies are prominent workplace tools, which are widely used in

public and private sectors today. All four courses can be counted towards a M.S. in Geography and/or the Master of Urban and Regional Planning.

The Certificate in Urban and Regional Planning consists of six courses that teach a variety of subject areas in planning including transportation, environmental, land use and housing. The certificate can be earned separately, or as a component of a Master of Public Administration degree.

The Department's facilities in a new Business & Public Management Center include two GIS laboratories and a Planning Studio with Arc/GIS suite of programs including online resources as well as software and extensions and ESRI's Business Analyst. GIS applications are continuously updated. Facilities also include global positioning system (GPS) hardware and software, large format plotters, and extensive collections of maps, air photos, and other imagery.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The University operates on the semester system. In addition to the fall and spring semesters there are two five-week summer sessions and a three-week winter session. Admission decisions are based on evaluations of transcripts, work experience, and letters of recommendation. Some assistantships and other types of financial aid are available.

FACULTY:

Gary W. Coutu, Ph.D., Texas A&M, 2001, Associate Professor — GIS, watershed delineation and analysis, remote sensing applications
Joy A. Fritschle, Ph.D., Wisconsin-Madison, 2007, Professor — biogeography, environmental planning, GIS
Megan Heckert, Ph.D., Temple University, 2012, Assistant Professor — GIS, urban environmental, sustainability
Dorothy Ives Dewey, Ph.D., Pennsylvania, 1996, Professor — land use planning, economic development planning, housing, GIS
Matin Katirai, Ph.D., Louisville, 2009, Assistant Professor — business GIS, public health GIS, urban planning
James P. Lewandowski, Ph.D., Ohio State, 1991, Professor — urban/economic, international trade, quantitative methods, GIS
Joan M. Welch, Ph.D., Boston, 1990, Professor — biogeography, conservation, sustainability

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., and Ph.D.

GRANTED (CALENDAR YEAR 2016): 19 Bachelors, 7 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 51 Majors, 25 Masters, 26 Ph.D.

CHAIR: Caroline Nagel

GRADUATE PROGRAM COORDINATOR: Mr. Capers Stokes

FOR CATALOG AND FURTHER INFORMATION WRITE TO: 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. Jean Ellis, jtellis@mailbox.sc.edu. For more information about the department and to request graduate application materials 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 sciences, physical geography, nature and society studies, and human geography focused on space, place, inequality and identity. In addition to considerable expertise in a variety of regions in the United States, the department also has international regional expertise in the Middle East, South America and Europe.

Geographic Information Sciences in the department encompasses an understanding of cartography and geovisualization, remote sensing of the environment, spatial analysis and data mining, spatial high-performance/cloud computing, and geographic information systems (GIS). GIScience faculty conduct research that addresses basic questions in geographic technologies as well as applications of geospatial technologies to problems in hazards, public health, population studies, landscape ecology, geomorphology, and environmental change.

Physical geographers in our department investigate patterns and processes associated with the atmosphere, biosphere, hydrosphere, and lithosphere and explore the nature and causes of their natural variability and change. Specialized expertise includes climatology and meteorology, fluvial and aeolian geomorphology, hydrology, biogeography and landscape ecology. Many of our physical geographers utilize geospatial technologies in their work.

Nature and Society specialists in the department focus on understanding the patterns and processes of human-environmental interactions. The increasing complexity of coupled natural and human systems necessitates an integrative perspective for understanding local to global environmental transformations and changing human security. Our faculty specialize in a range of relevant areas, including political ecology; human dimensions of global change; risks, vulnerability, and hazards; and resource use and management.

Space, Place, Identity and Inequality are the focus of several human geographers in the department. At the core of the research of this group is a critical approach to understanding how people construct their identity and inequality across scales and locations. The theory-building and empirical research of this group focuses on the spatiality of economic, cultural, social, and political power.

The department offers Ph.D., M.A., M.S., B.A., and B.S. degrees focused on these thematic areas. The Ph.D. program prepares students for high-level careers in the geographic profession. Ph.D. graduates are prepared for positions in governmental agencies, corporations, and businesses, as well as for careers as college or university faculty members. 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 for students with interests in human and regional geography, whereas the M.S. degree is for students with interests in physical/environmental and technical geography, including geographic information science. The department offers the B.A. and B.S. degrees in Geography with concentrations in physical/ environmental, human/economic, and geographic information science. The internship program allows advanced undergraduates and graduate students to acquire on-the-job experience to enhance their professional development and to smooth the transition from university to career settings. 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 the newly emergent field of hazard vulnerability science. 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 and related 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 GISciences Research Lab, the Earth Surface Patterns and Processes Lab Complex, the Beach and Dune Processes Laboratory, and the South Carolina Applied Landscape Ecology Lab. The department is a founding member of the University Consortium for Geographic Information Science (UCGIS) and has extensive computer resources. These include over 100 computers with ArcGIS, ERDAS, and other state-of-the-art software. With 11 web and data servers (SQL-based), the department has extensive web development and deployment infrastructure. In addition, we have an extensive and well-maintained collection of GPS instruments (Trimble Pro-XR), reflectorless total stations (Leica), hand-held radiometer, high resolution color plotters, scanners, and slide-making equipment. The department employs a full-time systems analyst and is home to the Campus GIS Coordinator, who provides training and technical support to an extensive interdisciplinary research community.

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. Additional coursework can be taken in two specialized concentrations (physical/environmental, geographic information science) or by completing a general geography degree that consists of courses selected from across the curriculum in conjunction with a student's advisor. All faculty are actively involved in the undergraduate program, so virtually all aspects of the field are represented in lower division and upper division courses. Cognate and minor arrangements exist with several professional schools (Business Administration, Journalism, Public Health, etc.) and with other units in the College of Arts and Sciences, such as the School of Earth, Ocean, and Environment, Media Arts, Political Science, and Global Studies.

GRADUATE: Academic Plan: The Doctoral program has a core requirement of 9 semester hours. Additional electives (12 semester hours) are focused on courses to support the student's research interests. Each student works closely with an advisor to determine the coursework necessary to complete a satisfactory dissertation. Twelve semester hours of doctoral research are required. All doctoral students will serve as an instructor or teaching assistant for at least one course. The Masters degree programs require a minimum of 31-37 semester hours of graduate work. 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 work in other University departments. Specialization in the M.A. and M.S. programs is normally attained by writing a thesis in addition to at least 25 semester hours of coursework. Prior to the start of the fall semester, the department sponsors a required regional field excursion for all entering graduate students.

Admissions Requirements: In support of an application, a student is 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. For the doctoral program, a master's degree is required. For the masters programs, the Department prefers but does not require an applicant to have an undergraduate major in geography; it does, however, require evidence of the intellectual ability to perform graduate-level work, and students with deficient backgrounds in geography may be required to complete remedial work. Please see the department webpage for application deadlines.

Financial Aid: Graduate assistantships carry stipends of \$12,500-\$13,500 for the academic year. Fellowships are available on a highly competitive basis for up to \$21,500 per academic year and are renewable for up to three 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* — culture and politics of resource use and environmental change in the Middle East, environment and development
- 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, natural resources
- Kirstin Dow, Ph.D., Clark, 1996, Professor* — human dimensions of global environment change, environmental/climate hazards, vulnerability, and adaptation
- Jean T. Ellis, Ph.D., Texas A&M, 2006, Associate Professor* — geomorphology, aeolian and coastal sediment transport, coastal management, applied science
- Diansheng Guo, Ph.D., Pennsylvania State, 2003, Associate Professor* — geographic information science, spatial data mining, geocomputation
- Conor Harrison, Ph.D., North Carolina, 2014, Assistant Professor* — social impacts of energy and infrastructure, economic geography
- 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
- L. Allan James, Ph.D., Wisconsin-Madison, 1988, Professor* — geomorphology, surface hydrology, water resources, Quaternary science
- David Kneas, Ph.D., Yale, 2014, Assistant Professor* — environmental anthropology in Latin America, science and technology studies
- John A. Kupfer, Ph.D., Iowa, 1995, Professor* — biogeography, landscape ecology, public land management, spatial analysis, GIScience
- Zhenlong Li, Ph.D., George Mason University, 2015, Assistant Professor* — spatial high-performance/cloud computing; big data management, processing and analysis; environmental modeling and simulation
- Amy Mills, Ph.D., Texas, 2004, Associate Professor* — cultural landscapes and historical memory, urban cultures, place and identity, gender and urban space, nationalism and modernity, Middle East
- Jerry Mitchell, Ph.D., South Carolina 1998, Research Associate 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., University of Colorado, 1998, Associate Professor* — migration, transnationalism, identity, citizenship, Arab immigrants
- Cuizhen (Susan) Wang, Ph.D., Michigan State University, 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
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**DATE FOUNDED:** 1967**GRADUATE PROGRAM FOUNDED:** 1974**DEGREES OFFERED:** B.S., M.S. Geography; B.S.

Geographic Information Sciences; Ph.D. in Geospatial
Science and Engineering

GRANTED 1/1/16-12/31/16: 12 Bachelors, 4 Masters**STUDENTS IN RESIDENCE:** 54 Majors, 28 Masters**NOT IN RESIDENCE:** 8 Masters**HEAD:** George W. White**DEPARTMENT ADMINISTRATIVE ASST:** Delora
Bennett**FOR CATALOG AND FURTHER INFORMATION WRITE**

TO: Darrell Napton, Graduate Program Coordinator, Department of
Geography, 406 Wecota Hall Annex- Box 506, South Dakota State
University, Brookings, South Dakota 57007. Telephone (605) 688-
4511. E-mail: George.White@sdstate.edu.
Internet: <http://www.sdstate.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, and minors in Geographic Information Sciences and
Geography, which are offered at both the undergraduate and graduate
levels. An undergraduate certificate in Geographic Information
Sciences also is available. Many of the department's courses are
offered online. The geography major and 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. It is a government depository and has a full complement of
USGS topographic maps and South Dakota Fire Insurance Maps. 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:

Yanan Li, Ph.D., University of Tennessee, 2015, Assistant Professor —
geomorphology, dendroclimatic analysis
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
Bruce Millett, Ph.D., South Dakota State University, 2004, Instructor
— 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, and North America
David Roy, Ph.D., Cambridge University, 1994, Professor — physical,
remote sensing, land use land cover change
Jamie Spinney, Ph.D., McMaster University, 2011, Assistant
Professor — urban geography, urban and regional planning,
geomatics
Robert Watrel, Ph.D., Nebraska, 2001, Associate Professor —
cartography, political, Great Plains
George W. White, Ph.D., University of Oregon, 1994, Professor and
Head — world regional, political, culture, ethnicity, and identity
formation, Europe, geographic thought
Xiaoyang Zhang, Ph.D., Associate 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:

Norman Bliss, Ph.D., Associate Professor, EDC, University of Pennsylvania, 1978
Erin Hogan Foubert, Ph.D., Associate Professor, University of Nebraska, 1997
Alisa Gallant, Ph.D., Associate Professor, EDC, Colorado State University, 1997
Dean B. Gesch, Ph.D., Assistant Professor, EDC, South Dakota State University, 2006
Chandra P. Giri, Ph.D., Associate Professor, EDC, Asian Institute of Technology-Bangkok
Rachel Headley, Ph.D., Assistant Professor, The Pennsylvania State University, 2003
Robert W. Hill, M.S., Instructor, South Dakota State University, 2003
Lauri B. Sohl, M.S., Instructor, South Dakota State University, 2002
Gray Tappen, M.A., Assistant Professor, University of Kansas, 1981
Limin Yang, Ph.D., Professor, EDC, University of Nebraska, 1994

The following are Research Scientists at the Geospatial Sciences Center of Excellence (GSCE) at South Dakota State University.

Geoffrey Henebry, Ph.D., Professor, University of Texas at Dallas, 1989, GIScCE, Interim Co-Director
Thomas Loveland, Ph.D., Professor, EDC, University of California-Santa Barbara, 1998
David Roy, Ph.D., Professor, Cambridge University, 1994
Gabriel Senay, Ph.D., Associate Professor, EDC, Ohio State University, 1996
James Vogelmann, Ph.D., Professor, Indiana University, 1983
Mike Wimberly, Ph.D., Professor, Oregon State University, 1999
Xiaoyang Zhang, Ph.D., Associate Professor, University of London, 1999

TENNESSEE

MIDDLE TENNESSEE STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES

DATE FOUNDED: 1964

DEGREES OFFERED: B.S. Geosciences; Master of Science in Professional Science (MS-PS)

GRANTED: (B.S.) Spring/Summer/Fall 2016: 32

STUDENTS IN RESIDENCE: 86 Majors (undergraduate)
18 MS-PS

CHAIR: J. Warner Cribb

FOR CATALOG AND FURTHER INFORMATION:

Catalog: catalog.mtsu.edu; Undergraduate Admissions: admissions@mtsu.edu, 615-898-2233. Graduate Admissions: graduate@mtsu.edu, 615-898-2840. Department of Geosciences: 615-898-2726; Fax: 615-898-5592; E-mail: Karen.Wolfe@mtsu.edu; Internet: mtsu.edu/geosciences.

PROGRAMS AND RESEARCH FACILITIES: The B.S. in Geosciences has emphases in Physical Geography and Geology. Within these major emphases are career tracks (patterns) designed to provide the student with exceptional career opportunities. In the Physical Geography emphasis, the two career tracks are Physical Geography, and Geographic Techniques (primarily GIS, remote sensing, and cartography). The Geology emphasis has three career tracks: Geology, Earth Science, and Earth Science for Teachers. Three undergraduate minors are offered: Physical Geography, Remote Sensing, and Geology/Earth Science. Two graduate minors

are offered: Physical Geography, and Earth Science/Geology. The Master of Science in Professional Science, which is certified as a Professional Science Master's degree, has three career tracks: GIS, Environmental Geosystems, and General Geoscience.

Departmental programs are supported by the Geosciences Student Computer Laboratory and the Ralph O. Fullerton Laboratory for Spatial Technology. The student computer laboratory is equipped with high-end workstations, scanners and printers. The Ralph O. Fullerton Laboratory for Spatial Technology has 15 high-end workstations, 42-inch-wide Calcomp scanner, 42-inch-wide HP Designjet printer/plotter, network storage system, survey-grade Trimble GeoExplorer GPS equipment, and photogrammetrically-calibrated digital cameras. Software packages include ESRI ArcGIS, ERDAS Imagine, ENVI, PhotoModeler Scanner photogrammetry program, eCognition, LP360 Lidar analysis program, and Trimble Pathfinder Office. The Ralph O. Fullerton Laboratory for Spatial Technology also serves as the headquarters for the MTSU-Geospatial Research Center. Also available are small-format aerial photography platforms, and virtual reality equipment.

Students can gain practical experience in the use and application of geospatial techniques through a variety of sponsored research and production projects, and internships.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Middle Tennessee State University is on the semester plan. Admissions requirements are listed in the current catalog, which may be obtained as indicated above. Financial aid information may be obtained from mtsu.edu/financial-aid.

FACULTY:

Jeremy W. Aber, Ph.D., Kansas State University, 2012, Assistant Professor — GIS, cartography, small-format aerial photography, virtual geographics, video games
Mark J. Abolins, Ph.D., California Institute of Technology, 1999, Professor — structural geology, tectonics
Patricia Boda, Ph.D., University of Minnesota, 2008, Associate Professor — GIS, cartography, environmental issues and concerns, sustainability, biogeography
J. Warner Cribb, Ph.D., Ohio State University, 1993, Department Chair, Professor — mineralogy, igneous petrography
Racha El Kadiri, Ph.D., Western Michigan University, 2014, Assistant Professor — hydrology, hydrogeology, remote sensing, GIS, natural hazards, data mining
Clayton D. Harris, Ph.D., Indiana University, 1992, Associate Professor — sedimentology, oceanography, environmental geology
James A. Henry, Ph.D., University of Kansas, 1978, Professor — physical geography, climatology/meteorology, remote sensing, regional geomorphology of the United States
Melissa Lobegeier, Ph.D., James Cook University, 2001, Associate Professor — paleontology, marine geology
Henrique G. Momm, Ph.D., University of Mississippi, 2008, Director, MTSU-Geospatial Research Center, Assistant Professor — remote sensing, GIS, watershed physical processes, machine learning, geoinformatics, geomorphometry
Ronald L. Zawislak, Ph.D., University of Wyoming, 1980, Professor — geophysics, structural geology, mathematical and computer techniques in geology

LECTURERS AND ACADEMIC PROFESSIONALS:

Alan Brown, M.S., Illinois State University, 2002, Lecturer — hydrogeology, field work, vertebrate paleontology
Laura R. Collins, M.S., Mississippi State University, 2005, Lecturer — Earth science, geology
Michael W. Hiatt, M.S., University of Kentucky, 1995, Lecturer and Earth Science Lab Coordinator — Earth science, geology
Zada Law, M.A., University of Wisconsin, 1980, Director, Ralph O. Fullerton Laboratory for Spatial Technology — GIS

EMERITI FACULTY:

Ralph O. Fullerton, Ed.D., Indiana University, 1971
 Burton W. Bordine, Ph.D., Louisiana State University, 1974

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 8/22/15-8/22/16: Earth Sciences 20 Bachelors, 18 Masters, 5 Geographic Information System Certificates, 5 Ph.D.

CHAIR: Dr. Daniel Larsen

DEPARTMENT ADMINISTRATIVE ASSOC.: Ms. Julia Crutchfield

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Ms. Julia Crutchfield, Department of Earth Sciences, University of Memphis, Johnson Hall 111, Memphis, TN. Telephone (901) 678-2177. Fax (901) 678-2178. E-mail: jscrtchf@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, Assistant 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 tectonic, Geomorphology, Hazards
 David Dye, Ph.D., Washington University, St. Louis, 1980, Professor — Archaeology
 Arleen Hill, Ph.D., University of South Carolina, 2002, Associate Professor — Hazards, Nature-Society Interaction, Spatial Analysis
 Julie Johnson, Ph.D., Florida International University, 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 Ozdenrol, Ph.D., Louisiana State University, 2000, Associate 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
 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 7/1/2015-06/30/2016: 26 Bachelors, 10 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 102 Majors, 7 Masters, 29 Ph.D.

NOT IN RESIDENCE: 2 Masters, 7 Ph.D.

HEAD: Derek H. Alderman

ASSOCIATE HEAD: Ronald V. Kalafsky

DIRECTOR OF GRADUATE STUDIES: Micheline van Riemsdijk

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 Burchfiel 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
Henri D. Grissino-Mayer, Ph.D., Arizona, 1995, Professor — global change, biogeography, dendrochronology, climatology, forest ecology, quantitative methods
Sally P. Horn, Ph.D., UC, Berkeley, 1986, Professor — biogeography, quaternary environments, Latin America

Yingjie Hu, Ph.D., University of California - Santa Barbara, 2016, Assistant Professor — GIScience, geospatial semantics, spatial data mining, information retrieval

Ronald V. Kalafsky, Ph.D., SUNY at Buffalo, 2002, Professor — economic geography

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, Associate 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, Assistant 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, Associate Professor — environmental modeling, integrated environmental assessment

Francoise Micheline van Riemsdijk, Ph.D., Colorado, 2008, Associate Professor — population, migration, urban, gender, qualitative methods

Robert A. Washington-Allen, Ph.D., Utah State University, 2003, Assistant Professor — biogeography, complex systems, landscape ecology, pastoralism, remote sensing, spatial modeling

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, 1986, GIS Labs Manager — applied GIS, web mapping, environmental science, hazards, coastal science, field methods

ADJUNCT FACULTY:

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

Matthew Heric, Ph.D., Virginia Tech, 1996, Adjunct Assistant Professor — GIS, remote sensing, cultural modelling, 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

Dali Wang, Ph.D., NY Rensselaer Polytechnic Institute, Adjunct Assistant Professor — environmental engineering

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

TARLETON STATE UNIVERSITY

DEPARTMENT OF SOCIAL SCIENCES – GEOGRAPHY PROGRAM

DATE FOUNDED: 2016

DEGREES OFFERED: B.S. in Geography/Geographic Information Systems

MAJORS: 5 Undergraduate Geography/GIS

CHAIR/PROGRAM COORDINATOR: Dr. Kelly Lemmons and Dr. Opeyemi Zubair

PROGRAM ADMIN. ASSISTANT: Jeannie Vazquez

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Department of Social Sciences, Box T-0660, Tarleton State University, Stephenville, Texas 76402. Telephone (254) 968-9021. Fax (254) 968-9784. E-mail: lemmons@tarleton.edu. Internet: <http://www.tarleton.edu/degrees/bachelors/bs-geographic-information-systems/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Social Sciences at Tarleton State University offers undergraduate majors in Geography/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 in 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, and 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

ADJUNCT FACULTY:

Connie Brownson, M.S., Texas State University — Human Geography, Military Geography

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 9/1/15-8/31/16: 38 Bachelors, 8 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 296 Majors, 24 Masters, 23 Ph.D. Geography, Geographic Information Sciences and Technology, Environmental Studies and Spatial Sciences Majors, Masters, Ph.D.

NOT IN RESIDENCE: 5 B.S., 5 M.S., 8 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: kelrod@tamu.edu. Web: <http://geography.tamu.edu/>. Online catalog can be obtained from Admissions, at <http://catalog.tamu.edu/>. An application is available on line at 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 *Geography Education* program emphasizes research on how geography is taught and learned. Topics include

spatial learning, effective use of information technology, assessment, and institutional factors in geography education. 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 with an option in Geographic Information Science that requires 24 units of directed electives in addition to the requirements of the Major. 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:

Michael Bishop, Ph.D., Indiana State University, 1987, Professor & Haynes Chair 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, and predictability studies

Christian Brannstrom, Ph.D., Wisconsin, 1998, Professor and Associate Dean for Undergrad and Faculty Affairs — political/cultural ecology, historical geography, agriculture, Latin America

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 — synoptic climatology, surface-atmosphere interactions, climate change

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, Assistant Professor — GIS, CyberGIS, GIS Programming & Algorithms, Spatial Databases, HealthGIS (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 — fluvial geomorphology, lowland rivers, spatio-temporal modeling, human impact on fluvial systems

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).

Wendy Jepson, Ph.D., UCLA, 2003, Professor — land-use and land-cover change, political ecology, economic geography, water resources, environmental justice, Latin America

Andrew G. Klein, Ph.D., Cornell, 1997, Professor and Undergraduate Program Director — remote sensing, GIS, glacial geomorphology, cryosphere, hydrology

Charles W. Lafon, Ph.D., Tennessee, 2000, Professor and Assistant Department Head — biogeography, vegetation dynamics

Julie Loisel, Ph.D., Lehigh University, 2012, Assistant Professor — climate change ecology, paleoclimate reconstructions, high-latitude ecosystem dynamics, peatland carbon cycling, global biogeochemical cycling.

Kathleen O'Reilly, Ph.D., Iowa, 2002, Associate Professor and Graduate Director — political/cultural ecology, gender, water resources, South Asia, queer studies

Wendy W. Patzewitsch, Ph.D., Texas A&M University, 2007, Instructional Assistant Professor — historical geography, Texas water resources

Erik Prout, Ph.D., Louisiana State, 2001, Instructional Assistant Professor — cultural and political geography

David P. Rechless, Ph.D., Penn State University, 2015, Assistant Professor — including climate change, cartography, and hazards

E. Brendan Roark, Ph.D., California, Berkeley, 2005, Associate Professor and Director of Environmental Programs — paleoceanography, geochemistry, earth system sciences, corals, deep-sea corals

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 — studying human-environment geography, examining natural hazards impacts on society through the use of vulnerability and resilience assessments, GIS and spatial statistics

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:

Jeremy Johnson, Ph.D., Texas A&M University, 2016, Visiting Assistant Professor — geography and reaction and tourism

John Lauerermann, Ph.D., Clark University, 2015, Visiting Assistant Professor — urban/economic geography, political economy, urban policy

Jim Norwine, Ph.D., Indiana State, 1971, Regents Professor, Texas A&M University-Kingsville, Kingsville, TX — climate, philosophy of geography

Thor Ritz, Ph.D., Syracuse University, 2016, Visiting Assistant Professor — GIS applications, focus on race, colonial struggle, and sovereignty

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 9/1/15-8/15/16: 7 Bachelors

MAJORS: 30 majors

CHAIR: Ben Tillman

DEPARTMENT ADMINISTRATIVE ASSISTANT: Dana Summers

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Benjamin F. Tillman, Department Geography, TCU Box 297280, Fort Worth, Texas 76129. Telephone (817) 257-4377. Fax (817) 257-5650. 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, and GIS. Students may select additional courses from a menu of regional and topical 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 www.tcu.edu.

FACULTY:

Ashley Coles, Ph.D., University of Arizona, 2013, Assistant Professor — human-environment interactions, hazards, development, science and technology studies, and 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

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, Ph.D. in Geographic Information Science, Ph.D. in Geographic Education

GRANTED 9/1/15-8/31/16: 210 Bachelors, 23 Masters, 5 Ph.D.

STUDENTS IN RESIDENCE: 664 Majors, 63 Masters, 57 Ph.D.

CHAIR: Alberto Giordano

ASSOCIATE CHAIR: Ronald Hagelman

PROGRAM COORDINATORS: Brian

Cooper, Undergraduate Program Coordinator; Stella LoPachin, Staff Undergraduate Administrative Assistant; Yongmei Lu, Graduate Program Coordinator; Allison Glass, Staff Graduate 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 Stella LoPachin (SL15@txstate.edu), Staff Undergraduate Administrator; 3) about Graduate programs: Yongmei Lu (YL10@txstate.edu), Graduate Program Coordinator, or Allison Glass (AM13@txstate.edu), Staff Graduate 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. Assistantships for Master's degree students are awarded on a competitive basis and currently pay a minimum of \$13,097 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 \$26,000 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

Sarah Blue, Ph.D. UCLA, 2004, Associate Professor — Latin America, population, migration, qualitative methods

Richard G. Boehm, Ph.D., Texas at Austin, 1975, Professor and Jesse H. Jones Distinguished Chair of Geographic Education — geographic education, economic

David R. Butler, Ph.D., Kansas, 1982, Texas State University Regents' Professor — geomorphology, natural hazards, mountain environments and environmental change, biogeography

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, internet GIS, GIS based-modeling, GIScience programming

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, uncertainty and change in human-environment systems

Rebecca Davio, Ph.D., Texas at Austin, 2001, Assistant 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, Latin America, nature and heritage tourism, qualitative methods

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

Lawrence E. Estaville, Ph.D., Oklahoma, 1984, Professor — ethnic, business, geographic education

Alberto Giordano, Ph.D., Syracuse, 1999, Professor and Chair — cartography, historical GIS, Holocaust and genocide, spatial applications of forensic anthropology

Ronald Hagelman, III, Ph.D., Texas State, 2001, Associate Professor and Associate Chair — environmental, hazards and disaster, historical, land management and conservation, urban environment/agriculture

Colleen Hiner, Ph.D., California at Davis, 2012, Assistant Professor — environmental management, cultural ecology, urban-rural fringe, qualitative methods

Donald A. Huebner, Ph.D., Texas at Austin, 2002, Senior Lecturer — Texas, environmental management, field methods, quantitative methods

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, Assistant Professor — geographic education, geospatial technologies for education, assessment in geography

Jason Julian, Ph.D., North Carolina, 2007, Associate Professor — water resources, environmental services, fluvial geomorphology

Neil Kucera, J.D., Houston, 1986; M.A.G., Texas State, 2001, Lecturer — environmental law, energy and resource management

Lofius, Tim, 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 — GIScience, urban and regional studies, crime, health, China and East Asia

Kimberly Meitzen, Ph.D., South Carolina, 2011, Assistant Professor — fluvial processes, geomorphology, river basin management, biogeography

Oswaldo Muniz, Ph.D., Tennessee, 1991, Professor — geographic education, Latin America, online learning methods, global collaboration, international flows

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 — nature/society analysis, urban, cultural

Alexander Savelyev, Ph.D., Pennsylvania State, 2015, Assistant Professor — geovisualization of textual information, social media, cartography

Michael Solem, Ph.D., Colorado at Boulder, 1999, Research Professor — geographic education

John P. Tiefenbacher, Ph.D., Rutgers, 1992, Professor — hazards, human dimensions of wildlife, environmental problems, Mexico borderlands, States of the Former Soviet Union, air quality

Christi Townsend, Ph.D., Texas State, 2012, Senior Lecturer — physical, research methods, world

Dolores van der Kolk, Ph.D., Texas at Austin, 2016, Senior Lecturer — geology, structural geology

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

GRANTED 9/1/15-8/31/16: 50 Bachelor's, 11 Master's (Geography)

STUDENTS IN RESIDENCE: 129 Bachelor's, 33 Master's (Geography)

CHAIR: Paul F. Hudak

DEPARTMENT ADMINISTRATIVE ASSISTANT: Tami Deaton

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.

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 submitted by January 31 are assured consideration for all available funding opportunities.

FACULTY:

Waqar Ahmed, Ph.D., Clark University, 2007, Assistant 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 — geoarchaeology; soils geomorphology; fluvial processes; paleoenvironments
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 and Chair — environmental monitoring and remediation; geologic hazards; wetlands; water resources
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, Assistant Professor — global environmental change; terrestrial ecosystems; biogeochemistry; environmental services
Murray D. Rice, Ph.D., University of Saskatchewan, 1995, Associate 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, Associate Professor — paleozoology; conservation ecology; zooarchaeology; environmental archaeology

ADJUNCT FACULTY:

Johnny Byers, M.S., University of North Texas, 2008 — earth science; environmental archaeology

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: 09/01/14-08/31/15: 108 Bachelors, 5 Masters, 5 Ph.D.

STUDENTS: 340 Majors, 10 Masters, 19 Ph.D.

CHAIR: Sheryl Luzzadder-Beach

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@utexas.utexas.edu Internet: <http://www.utexas.edu/cola/depts/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 beginning in Fall 2016, 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 1 January.

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, Assistant 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* — #2- Soil and Agricultural Systems; Geomorphology; Water; Environmental Change; Paleoclimates, and Geoarchaeology.
- Karl W. Butzer, D.Sc., Bonn, 1957, Raymond C. Dickson Centennial Professor of Liberal Arts* — Cultural Ecology; Applied Geomorphology; Environmental History; Colonial Mexico; Spain; Near East; Australia
- 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
- Francisco L. Pérez, Ph.D., UC-Berkeley, 1985, Professor* — Mountain Geocology; Geomorphology; Vegetation Ecology; Soils
- 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
- Leo E. Zonn, Ph.D., Wisconsin-Milwaukee, 1975, Professor* — Representation and Media, Especially Cinema; Geographies of Popular Culture

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 and 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
- Bjorn Sletto, Ph.D., Cornell University, Associate Professor at The University of Texas at Austin School of Architecture, Affiliated Faculty* — Geographic Information Systems; Latin American Planning and Development; Participatory Planning; Environmental and Social Justice, Social Theory
- Frederick Steiner, PhD Pennsylvania, 1986, Professor and Dean at the University of Pennsylvania School of Design, Affiliated Faculty* — Environmental Impact Assessment; Landscape Analysis and Landscape Architecture Theory
- 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)*

UNIVERSITY OF TEXAS AT SAN ANTONIO

DEPARTMENT OF POLITICAL SCIENCE AND GEOGRAPHY

DATE FOUNDED: 1977

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

GRANTED: 9/1/16 - 5/31/17: 15 B.A., 4 M.A. (program implemented fall 2014)

STUDENTS: 40 majors; 15 minors; 20 Masters

CHAIR: Daniel Engster

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. Website: <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.embark.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:

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

SOUTHERN UTAH UNIVERSITY

DEPARTMENT OF PHYSICAL SCIENCE

DATE FOUNDED: 1897 (Geography courses first offered circa 1989)

DEGREES OFFERED: Undergraduate Minor in Geography, Undergraduate Minor in Geography Teacher Education, Certificate in Geographic Information Systems, Bachelor of Arts in Engineering Technology CAD/GIS Emphasis, Bachelor of Science in Engineering Technology CAD/GIS Emphasis, Associate of Applied Science in CAD/CAM (GIS emphasis)

GRANTED: 3 AAS in CAD/CAM, 5 GIS Certificates (2015-2016), 7 GIS Certificates (2016-2017), 1 BS Engineering Technology CAD/GIS Emphasis

STUDENTS IN RESIDENCE: 5 Geography minors, 22 GIS Certificate-seeking students, 5 CAD/GIS majors.

CHAIR: J. Ty Redd

DEPARTMENT ADMINISTRATIVE ASSISTANT:

Rhonda Riley

FOR FURTHER INFORMATION CONTACT: Paul R. Larson, Ph.D., Professor of Geography/GIS, 351 West University Boulevard, Cedar City, Utah 84720. Telephone 435-865-8244. Fax 435-865-8051. Email larson_p@suu.edu. Internet: <http://suu.edu/cose/physci/geosciences/geography.html>

PROGRAMS AND RESEARCH FACILITIES: Southern Utah University offers the full spectrum of Geography courses beginning with introductory world regional, human, physical geography (with lab), and intro GPS. Upper division courses include Remote Sensing, Weather and Climate, Political Geography, Geomorphology, environmental Geography, Cartography, Intro GIS, Geography of Utah, Geography of North America, Advanced GIS, and Teaching Methods in Geography. The SUU GIS Laboratory consists of a teaching laboratory with 32 workstations with a fully mediated teacher's station, and an advanced lab with 10 workstations. Software includes ArcGIS 10.3 with all extensions, several GPS software packages (Pathfinder, Trimble, etc.) and ERDAS Imagine. Students, faculty, and researchers from across campus have access to a CalComp 50" digitizer, a Contex 54" color scanner, a 42" HP plotter, a Trimble centimeter-grade GPS base station, 56 Trimble handheld GPS units, and 6 Garmin GPS units. The GIS Lab Internship program maintains a five-year \$500,000 agreement with the U.S. Forest

Service which hires 2-6 interns per year, a ten-year agreement with Bryce Canyon National Park which hires 1-2 interns per year, and other agencies which hire an additional 3-6 interns annually. Finally, we would like to mention our world-class outdoor laboratory. SUU is located within four hours of seven national parks, several national monuments, national forests, and state parks.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: The university uses a semester system. First-time students (graduating high school within five years prior to attendance) are admitted to SUU using an admission index (see <http://suu.edu/prostu/admissionindex.html>). Students with an admission index of 90 or higher will be admitted to Southern Utah University. To ensure student success, students whose English ACT score is less than 17 will be required to take ENGL 1000 with ENGL 1010. Students whose Mathematics ACT score is less than 18 will be required to take the math placement test at entrance and the appropriate math course based on the test results. These courses must be completed within the first three semesters of attendance. Students with an admission index below 90 are encouraged to contact the Admissions Office (<http://www.suu.edu/prostu/>) concerning their opportunity for admission into SUU. Financial aid information is available at <http://www.suu.edu/ss/financial/>.

GEOGRAPHY FACULTY:

Paul R. Larson, Ph.D., University of Utah, 1996, Associate Professor of Geography/GIS — physical geography, world regional geography, human geography, remote sensing, weather and climate, political geography, geomorphology, environmental geography, cartography, intro GIS, geography of Utah, geography of North America, geography teaching methods.

David J. Maxwell, M.Sc., 2005, Manchester Metropolitan University — GIS, remote sensing, GPS.

UNIVERSITY OF UTAH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1947

GRADUATE PROGRAM FOUNDED: 1948

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

(Geography); Geographic Information Science M.S.

GRANTED 9/15-8/16: 27 Bachelors, 6 Masters, 2 Ph.D., 2 GIS.MS.

STUDENTS IN RESIDENCE: 123 Bachelors, 28 Masters, 16 Doctoral

NOT IN RESIDENCE: 0 Bachelors, 3 Masters, 1 Doctoral

CHAIR: Andrea Brunelle

DEPARTMENT ADMINISTRATIVE OFFICER: Lisa Clayton

GRADUATE SECRETARY: Pam Mitchell

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

University of Utah, Department of Geography, 332 South 1400 East, Room 217, Salt Lake City, Utah, 84112. Telephone (801) 581-8218. Fax (801) 581-8219. 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 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 \(UGH\) Lab](#) 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 Paleoecology Lab](#) are two paleoecology 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 stratigraphic, 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 \$18,000 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, Assistant Professor — past and present climate change, paleoecology, environmental modeling, data mining and analysis
- [Andrea Brunelle](#), Ph.D., *University of Oregon*, 2002, Professor and Chair — paleoecology, disturbance (fire and beetle) history, climate change
- [Thomas J. Cova](#), Ph.D., *University of California-Santa Barbara*, 1999, Professor — environmental hazards, human-environmental systems, emergency management, transportation, and geographic information science
- [Philip E. Dennison](#), Ph.D., *California-Santa Barbara*, 2003, Professor and Director of Graduate Studies — remote sensing of vegetation, hyperspectral, multispectral, and lidar remote sensing, wildfire and climate, vegetation disturbance, and 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 and hydrology
- [George F. Hepner](#), Ph.D., *Arizona State*, 1979, Professor and Director of Undergraduate Studies — land resource analysis, geographic information analysis, geospatial analysis of terrorism
- [Andrew M. Linke](#), Ph.D., *University of Colorado-Boulder*, 2013, Research 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, and snow science

- [Richard Medina](#), Ph.D., *University of Utah*, 2009, Assistant 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, and fire history from local to global scales
- [Summer Rupper](#), Ph.D., *University of Washington-Seattle*, 2007, Associate Professor — 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, Assistant Professor — medical/health geography, aging, health disparity, healthcare accessibility, environmental exposure, GIScience, spatial modeling
- [Ran Wei](#), Ph.D., *Arizona State University*, 2013, Assistant Professor — GIScience, urban and environmental planning, spatial analysis, spatial optimization, high-performance computing, infrastructure and transportation system, land use decision making
- [Yehua Dennis Wei](#), Ph.D., *UCLA*, 1998, Professor — economic/urban geography, regional and sustainable development, globalization and global cities, land use, GIS, spatial analysis, China

AUXILIARY FACULTY:

- [Robert T. Argenbright](#), Ph.D., *UC-Berkeley*, 1990, Associate Professor — Lecturer - Russia, historical, political, and urban geography
- [Jordan A. Clayton](#), Ph.D., *University of Colorado*, 2005, Adjunct Assistant Professor — field methods, hydrology, geomorphology
- [Larry L. Coats](#), M.S., Adjunct Assistant Professor — quaternary sciences
- [Elizabeth Dudley-Murphy](#), Ph.D., Adjunct Associate Professor — world regional/cultural geography, geography of Latin America, human geography, introduction to GIS
- [Timothy Edgar](#), M.S., *Utah*, Assistant Professor (Lecturer) — Energy/natural resources, sustainability, spatial statistics, remote sensing, GIS and geocomputation
- [Jack Hamilton](#), Ph.D., *Columbus University*, 1991, Adjunct Associate Professor — energy, environment and 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 and 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., Adjunct Assistant Professor — cartography, resource conservation, urban environmental geography

EMERITUS FACULTY:

- [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

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: B.S. Geography, M.S. Geography
HEAD: Christopher Lant

FOR FURTHER INFORMATION WRITE TO: Becky Hirst,
 Department of Environment and Society, 5215 Old Main Hill, Logan
 UT 84322-5215. Telephone: (435) 797-3781. Fax: (435) 797-4048. E-
 Mail: envs.info@usu.edu. Website: <http://www.qcnr.usu.edu/envs/>.

PROGRAMS AND RESEARCH FACILITIES:

The program in Geography is part of the S.J. & Jessie E. Quinney College of Natural Resources. Research centers on relationships between humans and the natural environment, including applications of spatial-analytical tools. Undergraduate students in Geography choose from two emphasis areas (described below): Human-Environment Geography and Geographic Information Science. Human-Environment Geography provides a broad overview of the relationships between humans and their environments across different cultures, economies, and geographic locations around the globe. Special attention is given to human-environment relations and environmental issues in the Global South, within the context of world systems.

Geographic Information Science assists students in gaining a solid foundation of GIS-related skills, with application to human-environment geography and to a variety of natural resource and environmental domains.

Graduate students work directly under the mentorship of human-environment geography faculty or affiliated faculty, with largely open programs of study. Graduate coursework is determined by students, in consultation with their supervisory committees, to meet their research and training goals.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Graduate admission requirements: interests in the field coincident with those of the Department, min. 3.2 GPA over last 60 credits, and 40th percentile for GRE scores; application requires transcripts, three letters of recommendation, GRE results, TOEFL (international students); Financial Aid: graduate research and teaching assistantships may be available, with remission of out-of-state portion of tuition if at 0.5 FTE.

ENVIRONMENT AND SOCIETY FACULTY:

Jacopo Baggio, PhD, Univ. of East Anglia, 2011, Assistant Professor — networks, social-ecological system modeling and analysis — jacopo.baggio@usu.edu
Shannon Belmont, MS, Univ. of Minnesota, 2009, Lecturer — GIS, water resources research
Roslynn Brain, PhD, Florida, 2008, Associate Professor and Extension Specialist — sustainable communities, pro-environmental behavior change, non-formal teaching techniques — roslynn.brain@usu.edu
Mark Brunson, PhD, Oregon State, 1991, Professor — social-ecological systems, human dimensions of ecological disturbance and invasion, restoration ecology — mark.brunson@usu.edu

Emily Burchfield, PhD, Vanderbilt Univ., 2017, Assistant Professor — quantitative tools to explore political, ecological and distributional dimensions of climate change and adaptation — emily.burchfield@usu.edu
Steven Burr, PhD, Penn State, 1994, Associate Professor and Extension Specialist — outdoor recreation and nature-based tourism — steve.burr@usu.edu
Layne Coppock, PhD, Colorado State, 1985, Professor — range ecology and management, international development, systems analysis — layne.coppock@usu.edu
Joanna Endter-Wada, PhD, California-Irvine, 1987, Professor — natural resource and environmental policy, water management and planning, human ecology — joanna.endter-wada@usu.edu
Nat Frazer, PhD, Georgia, 1983, Professor — STEM education, sustainability, science literacy, interaction of politics, religion and science — nat.frazer@usu.edu
Peter Howe, PhD, Penn State, 2012, Assistant Professor — human-environment geography, vulnerability and adaptation to climate change and natural hazards — peter.howe@usu.edu
Christopher Lant, PhD, Univ. of Iowa, 1988, Professor and Head — food-energy-water systems, ecosystem services, environmental policy — chris.lant@usu.edu
Christopher Monz, PhD, Colorado State, 2001, Professor — recreation ecology, outdoor recreation and wilderness management — chris.monz@usu.edu
Claudia Radel, PhD, Clark, 2005, Associate Professor — international development, migration, smallholder farming systems, political ecology, feminist geography: Latin America, sub-Saharan Africa — claudia.radel@usu.edu
Charles Romesburg, PhD, Pittsburgh, 1971, Professor — environmental decision-making, natural resources research methods and survey sampling, bioethics — charles.romesburg@usu.edu
Robert Schmidt, PhD, California-Davis, 1986, Associate Professor — wildlife policy and human dimensions, wildlife damage management — robert.schmidt@usu.edu
Jordan Smith, PhD, North Carolina State Univ., 2011, Assistant Professor — outdoor recreational behavior and environmental change — jordan.smith@usu.edu
Joseph Tainter, PhD, Northwestern 1975, Professor — social conflict in environmental issues, human responses to climate change and environmental degradation, human uses of energy and resources — joseph.tainter@usu.edu

GEOGRAPHY FACULTY IN AFFILIATED DEPARTMENTS:

Colin Flint, PhD, Colorado, 1995, Professor, Political Science — geopolitics, political geography, peace and conflict studies — colin.flint@usu.edu
Sarah Null, PhD, California-Davis, 2008, Associate Professor, Watershed Sciences — water resources, water temperature, climate change, modeling — sarah.null@usu.edu
R. Douglas Ramsey, PhD, Utah, 1989, Professor, Wildland Resources — remote sensing, GIS, landscape ecology, spatial analysis — doug.ramsey@usu.edu

WEBER STATE UNIVERSITY

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1933

DEGREES OFFERED: B.S., B.I.S.

GRANTED 5/31/16-5/31/17: 15 Bachelors

MAJORS: 61

CHAIR: Bryan Dorsey

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Eric Ewert, Chair, Department of Geography, Weber State

University, Ogden, Utah 84408-1210. Telephone (801) 626-6197. E-mail: cewert@weber.edu.

PROGRAMS AND RESEARCH FACILITIES:

The Bachelor's degree in geography can be earned by following one of ten emphases in systematic geography, geography teaching, geographic technology, urban & regional planning, environmental studies, global studies, Asian studies, Latin American studies, European studies, or American ethnic studies. Many courses in cognate fields may be taken for credit as geography or interdisciplinary electives. Department facilities and resources include a Computer Cartography Laboratory, equipped with ArcGIS 10, remote sensing, and a map library. The department's computer lab consists of networked PCs, laptops, printers, scanners, and projection systems. GPS units and various data collection instruments are used during field course work. Students and faculty utilize numerous software programs in their studies, including ESRI ArcGIS 10, SPSS 17.0, Microsoft Office, and Novell Office suites. Students also have access to the University's many Learning Support Center Labs which also contain ArcGIS 10, SPSS, and the Office software. The department's map collection includes thousands of topographic, geologic, thematic, and specialty maps. The map library is a part of Weber State University's Stewart Library, a U.S. Geological Survey map repository.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Semester system. The bachelor's degree requires 120 total hours. The geography major and the geography teaching major require 36 hours in geography. The geography emphasis within the bachelor of integrated studies program requires 18 hours. Financial aid and scholarships are available through the University, the College of Social Science, and the Department of Geography.

FULL-TIME FACULTY:

Daniel Bedford, Ph.D., Colorado, 1997, Professor — arctic, alpine, climatology, Europe
Jeremy Bryson, Ph.D., Syracuse, 2010 Assistant Professor — environment and society, urban, American West, Asia, city and regional planning
Bryan Dorsey, Ph.D., Colorado, 1996, Professor — environment and society, land use planning, Africa, physical, world regional
Eric Ewert, Ph.D., Idaho, 2003, Professor — economic, American West, urban, cartography, GIS, Latin America
Jesse Morris, Ph.D., Utah, 2011, Instructor — physical, biogeography, forest disturbances, social-ecological systems, U.S. and Europe
Alice Mulder, Ph.D., Colorado 2003, Associate Professor — physical, world regional, U.S., Canada, gender, environmental issues
Julie Rich, D.Phil., Oxford, 2003, Professor — physical, quaternary, holocene, weather, climate, arid lands, Utah, world regional

PART-TIME AND AFFILIATED FACULTY:

Rick Ford, Ph.D., UCLA, 1997, Professor (Geosciences) — geomorphology, quaternary environments, meteorology
Klaus Gurgel, ABD, Syracuse, 1978, Adjunct Instructor — physical, world regional, history of geographic thought, Utah
Kim Hadfield, M.Ed., Utah State, 1982, Adjunct Instructor — physical, world regional, U.S., Canada
Mike Hernandez, Ph.D., Utah, 2003, Associate Professor (Geosciences) — GIS, remote sensing
Paul Richards, M.S., Oregon State, 1991, Adjunct Instructor — physical, world regional, climatology, economic

VERMONT

UNIVERSITY OF VERMONT

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

DEGREES OFFERED: B.A.

GRANTED 9/1/14-8/31/15: 12 Bachelors

STUDENTS IN RESIDENCE: 83 Geography Majors; 33

Geography Minors; 48 Geo-spatial Technologies Minors

CHAIR: Lesley-Ann Dupigny-Giroux

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. Fax (802) 656-3042. E-mail: geography@uvm.edu. World Wide Web <<http://www.uvm.edu/~geograph>>.

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 40,000 in a metropolitan area of 150,000. 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 and Chair — physical geography, climatology, remote sensing, GIS, hazards, drought, land-surface interactions, climate education, Northeastern North America, Vermont. Vermont State Climatologist

Cheryl Morse, Ph.D., University of British Columbia, 2006, Assistant Professor — social geography, rural studies, human-environment interactions, Vermont

T. Harlan Morehouse, ABD, University of Minnesota, 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

Beverley Wemple, Ph.D., Oregon State, 1998, Associate Professor — physical geography, geomorphology, water resources, GIS, quantitative methods

ADJUNCT AND EMERITI FACULTY:

Pierre Deslauriers, Ph.D., Université de Montréal, 1998, Adjunct Lecturer — metropolitan dynamics, rural-urban fringe, geography and literature, Canada

Marla Emery, Ph.D., Rutgers, 1998, Adjunct Associate Professor — political ecology, traditional ecological knowledge, alternative economic theory, northeastern North America

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

Catrina MacKenzie, Ph.D., McGill University, 2012, Adjunct Lecturer — political ecology, conservation, sustainability, Africa

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

DEGREES OFFERED: B.A. and B.S. in Geography; Minors in Geography and in Geographic Information Systems; 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, and Geospatial Intelligence (Available as a partially online program), Data Journalism

GRANTED 9/1/16-5/31/17: 15 Ph.D. in Earth Systems and Geoinformation Sciences, 11 M.S. in Geographic and Cartographic Sciences, 1 M.S. in Earth Systems Sciences, 13 M.S. in Geoinformatics and Geospatial Intelligence, 24 B.A./B.S. in Geography, 2 B.S. in Global and Environmental Change

MAJORS (2016-2017): 74 Geography; 7 Global and Environmental Change; 50 Geographic and Cartographic Sciences, 35 Geoinformatics and Geospatial Intelligence; 2 Earth Systems Science; 83 Earth Systems and GeoInformation Sciences, 17 Graduate Certificates

CHAIR: Anthony Stefanidis

DEPARTMENT MANAGER: Samantha Cooke

FOR FURTHER INFORMATION: <http://cos.gmu.edu/ggs>, 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. Additionally, GGS and the Department of Environmental Science & Policy (ESP) jointly offer a B.S. in Global & Environmental Change. 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, 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, Computing and Applications, Center for Intelligent Spatial Computing for Water/Energy Science, and the Center for Geospatial Intelligence), has state-of-the-art research facilities to support research and instruction. The Department also offers three graduate certificates in Geographic Information Science, Geospatial Intelligence, and Remote Sensing & Earth Image Processing, 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 a minimum combined math and verbal GRE score of 270/340 along with a GPA of 3.5 or higher on a 4.0 scale.

The Graduate Certificates in Geographic Information Sciences and in Remote Sensing & Earth Image Processing each require 15 hours; while the Certificate in Geospatial Intelligence requires 18 hours of course work. As noted above this certificate is available as a fully online program beginning Fall 2014. See <http://masononline.gmu.edu/programs/geospatialintelligencegraduatecertificate/>. 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, spatio-temporal information modeling and management, geospatial information systems, optical remote sensing, photogrammetry
- Patricia Boudinot, A.B.D., University of Dijon, France, Instructor* — human dimensions of natural disasters, cultural geography
- 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
- Kevin Curtin, Ph.D., University of California - Santa Barbara, 2002, Associate Professor and Associate Dean, COS* — GIS, transportation, network analysis, location science, Colombia
- 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., Westfälische Wilhelms Universität Münster, Germany, 2002, Associate Professor* — geoinformatics
- Barry N. Haack, Ph.D., University of Michigan, 1977, Professor* — physical, environmental, remote sensing, development
- Paul R. Houser, Ph.D., University of Arizona, 1996, Associate Professor and co-Director of the Center for Intelligent Spatial Computing for Water/Energy Science* — global hydrology, water cycle dynamics, land surface
- Timothy Leslie, Ph.D., Arizona State University, 2007, Associate Professor and Associate Chair* — Urban-economic development, spatial statistics, health geography
- Dieter Pfoser, Ph.D., Alborg University, 2000, Associate Professor* — Spatial and spatiotemporal databases, Graph algorithms - shortest-path computation, map matching, crowdsourcing geospatial data, volunteered geographic information
- John J. Qu, Ph.D., Colorado State University, 1997, Professor and co-Director of EastFIRE Lab* — remote sensing, fire sciences, atmospheric sciences, Earth data computing and GIS applications
- Matt Rice, Ph.D., University of California-Santa Barbara, 2005, Assistant Professor* — geographic information science, geovisualization
- Anthony Stefanidis, Ph.D., The Ohio State University, 1993, Professor and Chair, Director of Center for Geospatial Intelligence* — 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
- 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, Associate 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, spatial web portal, geographical object storage systems
- Ruixin Yang, Ph.D., University of Southern California, 1990, Associate Professor* — geosciences, data analysis, data mining, data information systems
- Andreas Zufle, Ph.D., Ludwig Maximilians Universität München, Germany, 2008, Assistant Professor* — data sciences, crowdsourcing, geospatial data modeling

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**DEPARTMENT OF INTEGRATED SCIENCE AND TECHNOLOGY****DATE FOUNDED:** 1970**DEGREES OFFERED:** B.A., B.S.**GRANTED 9/1/15-8/31/16:** 55 Bachelors**STUDENTS IN RESIDENCE:** 215 Majors**PROGRAM COORDINATOR:** Dr. Mace Bentley**DEPARTMENT ADMINISTRATIVE ASST:** Cindi Wilson**FOR CATALOG AND FURTHER INFORMATION WRITE TO:**

Cindi Wilson, Integrated Science and Technology, Geographic Science Program, James Madison University, MSC 4302, Harrisonburg, Virginia 22807. Telephone (540) 568-2799. Fax (540) 568-8741. E-mail: wilsoncf@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, solve problems, and make a difference in the world. Our program offers a unique, holistic approach: the geographical perspective. Geography emphasizes the examination of the environmental and human processes that shape our planet and our lives; how humans interact with their environment; and, how place matters to environmental, economic and cultural issues.

Geography is a bridge between the social sciences (human geography) and the natural sciences (physical geography). More than this, geography trains students in 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 examined and addressed very effectively by the geographical approach.

Students in the Geographic Science program select one or both of the following concentrations: Applied Geographic Information Science (AGIS) and/or Environmental Conservation, Sustainability and Development (ECSD). Facilities include four state-of-the-art computer laboratories used for instruction, research, and applied work. The 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, PCI Geomatica, Trimble Pathfinder Office, eCognition, R, SPSS 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, 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 Benzinger, 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

Mike Deaton, Ph.D., Virginia Tech, 1980, Professor — spatial analysis, statistics, systems modeling

Joy Ferenbaugh, Ph.D., Texas Tech, 2007, Assistant Professor — wildlife management, anthropogenics on ecosystems

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

Maria Papadakis, Ph.D., Indiana, 1991, Professor — population geography, energy and environment, economic development

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

EMERITI FACULTY

Joseph Eneedy, Ph.D., Kent State, 1972 — North America geography and 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)**GEOGRAPHY DEGREES GRANTED 6/1/16-5/31/17:** 19 Bachelors**GEOGRAPHY STUDENTS IN RESIDENCE:** 91 Bachelors; 3 Masters**DEPARTMENT CHAIR:** Jonathan Leib**DEPARTMENT ADMINISTRATIVE ASSISTANT:** LaToya Dixon

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.

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
Peter Anderson, Ph.D., Utah, 1994, Lecturer — physical, biogeography, natural heritage conservation
Thomas Chapman, Ph.D., Florida State, 2007, Associate Professor — cultural, 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

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
Donald Zeigler, Ph.D., Michigan State, 1980, Professor Emeritus — urban, Middle East, Latin America

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 9/1/16-8/31/17: 33 B.A. Geography, 27 Certificates in GISc, 4 M.S. Geospatial Analysis

MAJORS: 30

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 and a capstone research project typically completed through an internship. The department's strengths are enhanced by its involvement with interdisciplinary programs in International Affairs, American Studies, Environmental Science, Urban 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, Assistant 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, Assistant Professor — GIScience, spatial epidemiology, web-based GIS

UNIVERSITY OF RICHMOND

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT

DATE FOUNDED: 2008

DEGREES OFFERED: B.A.

CHAIR: Todd Lookingbill

DEPARTMENT ADMINISTRATIVE ASST: Nancy Propst

FOR CATALOG AND FURTHER INFORMATION WRITE TO: Dr. Todd Lookingbill, Department of Geography and the Environment, University of Richmond, #311 Carole Weinstein

International Center, Richmond, Virginia 23173. Telephone (804) 289-8265. Fax (804) 484-1577. E-mail: looking@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) geographical 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 Geographic Club.

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, Latin America and the Caribbean
Kimberley Browne, M.S., George Mason University, 1993, Director of the Spatial Analysis Lab and Professor of Practice — GIS, human geography, Middle East
Todd R. Lookingbill, Ph.D., Duke University, 2003, Associate Professor and Chair — 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 — conservation and development, political ecology, Amazonia, borderlands, cartography

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

DEPARTMENT OF GEOGRAPHY FOUNDED: 1935

GRADUATE PROGRAM FOUNDED: 1983

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

GRANTED 6/01/15 - 5/31/16: 19 Bachelors, 10 Masters

STUDENTS IN RESIDENCE: 69 majors, 28 Masters

NOT IN RESIDENCE: 28 Masters

CHAIR: John Bowen

DEPARTMENT SECRETARY: Monica Reece-Bruya

FOR CATALOG AND FURTHER INFORMATION WRITE TO: John Bowen, 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.

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 and Chair — 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 — 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

George Macinko, Ph.D., University of Michigan, 1961 — environmental studies, land use, resource geography

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

UNIVERSITY OF WASHINGTON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1935

GRADUATE PROGRAM FOUNDED: 1935

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

GRANTED 10/1/15-9/1/16: 98 Bachelors, 21 Masters (2 in-residence M.A., 14 online M.GIS), 7 Ph.D.

STUDENTS IN RESIDENCE: 233 Majors, 39 Masters (8 M.A., 33 M.GIS), 25 Ph.D.

NOT IN RESIDENCE: 1 M.A., 5 Ph.D.

CHAIR: Lucy Jarosz

DEPARTMENT ADMINISTRATOR: Sharon Frucci

FOR FURTHER INFORMATION CONTACT: James Baginski, 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 jbag@uw.edu. Comprehensive information on the department is available at: <https://geography.washington.edu/>. Information about our Professional Master's Program in Geographic information Systems and Sustainability Management is available through the website, <http://www.gisonline.uw.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, as well as Master of Geographic Information Systems for Sustainability Management. www.gisonline.uw.edu/. 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:

Undergrad: 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 MA 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>
Note: The MGIS for Sustainability Management is administered through Professional and Continuing Education, and has a separate, stand-alone admission process:
<http://www.gisonline.uw.edu/admissions/>

FACULTY:

- Luke Bergmann, Ph.D. 2012, Minnesota, Assistant Professor* — Nature-Society relations; political economy; globalization; complexity; critical GIS and geovisualization; China
- Christine Biermann, Ph.D. 2014, Ohio State University, Assistant Professor* — political ecology, biodiversity conservation, nature and race, critical physical geography
- Michael Brown, Ph.D., British Columbia, 1994, Professor* — urban, political and health geography, sexuality, urban politics, political theory
- Kam Wing Chan, Ph.D., Toronto, 1988, Professor* — China, urbanization, migration, labor, development, and the *hukou* system
- Mark Ellis, Ph.D., Indiana, 1988, Professor* — immigration, internal migration, race and ethnicity, labor markets
- Sarah Elwood, Ph.D. Minnesota, 2000, Associate Professor* — relational poverty, visibility, critical geographies of technology, mixed methods
- Kim England, Ph.D., Ohio State, 1988, Professor* — urban, social, political and feminist geographies, work and employment, care work, the home, critical social policy, social and feminist theories
- Steve Herbert, Ph.D., UCLA, 1995, Professor and Director of Law, Societies & Justice* — political geography, law and law enforcement, environmental regulation, qualitative methods
- Lucy Jarosz, Ph.D., UC, Berkeley, 1990, Professor and Chair* — political ecology of agriculture; critical food studies; hunger and poverty; post-colonial, and feminist theory, qualitative methodology, North America
- Victoria A. Lawson, Ph.D., Ohio State, 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., 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; HIV, 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
- Katharyne Mitchell, Ph.D., UC, Berkeley, 1993, Professor* — urban, comparative studies of migration, education and philosophies of immigrant education, social theory, Europe and Pacific Rim
- Timothy L. Nyerges, Ph.D., Ohio State, 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
- Matthew Sparke, Ph.D., British Columbia, 1996, Professor, Jackson School of International Studies, Adjunct Professor, Global Health* — globalization, global health, political and economic geography, social theory including post-colonial, Marxist, feminist and anti-racist theory

- Suzanne Davies Withers, Ph.D., UCLA, 1992, Associate Professor* — population geography and spatial demography, longitudinal and quantitative methods, residential mobility & migration, urban housing, and property rights
- Megan Ybarra, Ph.D. UC, Berkeley, 2010, Assistant Professor* — nature-society relations; postcolonial theory; political ecology; transnational migrations; Latin America

EMERITI FACULTY:

- William B. Beyers, Ph.D., Washington, 1967, Professor Emeritus* — regional science, economic geography, geography of producer services, regional analysis, geography of the Pacific Northwest
- Richard L. Morrill, Ph.D., 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, and Middle East Studies Program, Jackson School of International Studies and core faculty Urban Ecology

AFFILIATED AND ADJUNCT FACULTY:

- 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, and 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
- Kathleen Braden, Affiliate Professor (also Department of Geography, Seattle Pacific University)* — Russian studies, resources and technology
- Richard Conway, Affiliate Associate Professor* — regional economic modeling
- 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, and Social Justice, Latin America, the Pacific Rim, and the Pacific Northwest, Minority Student Access to Graduate Education, Undergraduate and Graduate Student Retention Strategies, and 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)* — the cultural politics of the environment, political economy of development, the post-colonial state, Africa
- Michael Goodchild, Affiliate Professor (also Professor Emeritus and Research Professor, University of California Santa Barbara)* — geographic information science, spatial analysis, and 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, Geographic Information Systems (GIS), State-society relations and 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; feminisms; 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 Acting Associate Director of the School of Environmental and Forest Sciences, Associate Professor, Remote Sensing and Geospatial Analysis Laboratory (RSGAL), College of the Environment, University of Washington) — GIS, Forestry, Remote Sensing, Environmental Conservation

Britta Ricker, Adjunct Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma) — health geographies, GIScience, mobile technologies for spatial data collection

James Thatcher, Assistant Professor (also Assistant Professor, Urban Studies, University of Washington Tacoma) — GIScience, software studies, political ecology, and urban studies

WESTERN WASHINGTON UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL STUDIES – GEOGRAPHY PROGRAM

DATE FOUNDED: 1952

GRADUATE PROGRAM FOUNDED: 1964

DEGREES OFFERED: BA in Geography, MA in
Environmental Studies and Geography

COMBINED MAJORS: BA in Geography/Social Sciences,
BAE Geography-Elementary Education

CERTIFICATES OFFERED: Geographic Information
Science

MINORS OFFERED: Geography, Disaster Risk Reduction,
Environmental Studies, Geographic Information Science,
Sustainable Design

CHAIR: Gigi Berardi

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>

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, Associate 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, and Pacific Rim

Kate Darby, Ph.D., Arizona State University, 2010, Assistant Professor — environmental justice, urban ecology, global food policy, technology and society

Aquila Flower, Ph.D., University of Oregon, 2013, Assistant Professor — climatic variability, human land use patterns, natural disturbances in shaping forest ecosystem dynamics

Stefan Freelan, M.S., Western Washington University, 2003, GIS Specialist

Nabil Kamel, Ph.D., University of California, Los Angeles, 2004, Assistant 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, and growth management.

Michael J. Medler, Ph.D., University of Arizona, 1997, Associate Professor — GIS and remote sensing, landscape ecology, biogeography, natural resources management and policy

Jean O. Melious, J.D., Harvard, 1984 Professor — environmental policy and 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 Assistant 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 Assistant 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, Associate Professor — Cultural-historical geography, political ecology, Canada

Nick Stanger, Ph.D., University of Victoria B.C. Canada 2014 Assistant 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, and European geography

Thomas A. Terich, Ph.D., Oregon State, 1973, Professor Emeritus — physical geography, coastal management, natural hazards

Wendy Walker, M.S., Florida State, 1976, Senior Instructor — education, interpretation, curriculum

Grace Wang, Ph.D., University of Minnesota 1997, Associate Professor — natural resource policy, multicultural perspectives, resource management

Nicholas Zaferatos, Ph.D., Washington, 1996, Professor — environmental planning, tribal planning

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. At the graduate level, the M.A. is non-thesis track and the M.S. is thesis track. 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 urban and regional planners, GIS analysts, environmental specialists, tourism professionals, teachers, 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. 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:

Kevin Law, Ph.D., The Ohio State University, 2006 — Atmospheric Science

James M Leonard, Ph.D., University of Cincinnati, 2001 — Economic/Industrial Geography, GIS, Historical Geography

Anita Walz, Ph.D., University of Maryland, 2002 — Environmental Studies, GIS

Vacancy to be filled 2017

Vacancy to be filled 2017

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: Donna Titus

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>.

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

PROGRAMS AND RESEARCH FACILITIES:

The Geography Program within the Department of Geology and Geography offers degrees 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 for Globalization and Development and GISci. 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 16 tenure track faculty, one Teaching Assistant Professor, one Professor Post-Doctoral Fellow/Clinical Professor Fellow, and several active 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 sq.ft. 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, geoarchaeology, environmental impact assessment, historical geography
Amy E. Hessl, 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, geoarcheology
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

WISCONSIN

UNIVERSITY OF WISCONSIN- EAU CLAIRE

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

DATE FOUNDED: 1947

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

GRANTED 9/15-5/16: 42 Bachelors

MAJORS: 143

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), a geospatial certificate, 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. The department has 143 majors, 15 minors, and graduates over 30 majors annually.

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
Jeff DeGrave, Ph.D., University of Minnesota, Lecturer — human, Latin America, Russia and Eastern Europe
Douglas Faulkner, Ph.D., Wisconsin, 1994, Professor — environmental, physical, geomorphology, fluvial
Sean Hartnett, Ph.D., Wisconsin, 1989, Professor — cartography, computer graphics, historical
Christina Hupy, Ph.D., Michigan State, 2006, Associate Professor — biogeography, GIS, remote sensing
Joseph Hupy, Ph.D., Michigan State, 2005, Associate Professor — physical, military geography, human-environment, UAS
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
Garry Running, Ph.D., Wisconsin, 1997, Professor — geomorphology, soils, physical, environmental
Daniel Strouthes, Ph.D., Yale, 1994, Assistant Professor — cultural anthropology, North American Indians, anthropology law
Ingolf Vogeler, Ph.D., Minnesota, 1972, Professor — rural, underdevelopment, United States, Third World
Ryan Weichelt, Ph.D., Nebraska, 2008, Associate Professor — human, quantitative methods, urban, economic, political, conservation
Cyril Wilson, Ph.D., Indiana State, 2011, Assistant 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-MADISON

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1928

GRADUATE PROGRAM FOUNDED: 1928

DEGREES OFFERED: B.A., B.S., M.S. (Geography, Cartography & Geographic Information Systems), Ph.D. (Geography), Capstone Certificate in GIS

GRANTED 09/01/2015 - 08/31/2016: 44 Bachelors, 9

Masters, 7 Ph.D.s, 23 Certificates

STUDENTS IN RESIDENCE: 123 Majors, 10 Masters, 50 Ph.D.s, 21 Certificates

NOT IN RESIDENCE: 62 MS-Cart/GIS (GIS Dev - Prof MS), 8 Ph.D.s

CHAIR: Prof. Lisa Naughton

DEPARTMENT ADMINISTRATOR: Jacqueline Wild

FOR FURTHER INFORMATION WRITE TO: Graduate Program Director, Department of Geography, 160 Science Hall, The University of Wisconsin, 550 N. Park St., Madison, Wisconsin 53706-1491.

Telephone (608) 262-2138 (Department), (608) 262-3861 (Graduate Office). Fax (608) 265-3991.

E-mail: gradschool@geography.wisc.edu.

Internet: www.geography.wisc.edu/.

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography offers a full range of baccalaureate and graduate degrees. At the graduate level, the Department offers Master's Degrees in geography and in cartography/GIS, the Ph.D. in geography and a one-year professional certificate degree in GIS. The research and teaching interests of the faculty cover all major areas of geographic study, including geographic thought and theory, historical, cultural, urban-economic, political, global and regional studies, political economy, cultural ecology, environmental history, conservation, soils, geomorphology, biogeography, climatology, water resources, cartography, geovisualization, remote sensing and geographic information systems. Our graduate degree programs are built around a relatively small amount of required coursework so as to allow students flexibility in designing programs that meet their particular interests. The department encourages interdisciplinary work. It plays an active role in the university's area study programs, such as African Studies, Asian Studies, Southeast Asian Studies, European Studies, Russian, East European and Central Asian Studies, and Ibero-American studies, as well as in interdisciplinary programs like Urban and Regional Planning and Landscape Architecture, Environmental Studies, Water Resources, International Studies, and an informal program in Quaternary Studies.

Located in historic Science Hall beside Lake Mendota on the beautiful University of Wisconsin-Madison campus, the Department of Geography offers an unusual variety of facilities for graduate study and research. Also, conveniently within the department we have the Geography Library which holds over 70,000 volumes and electronic resources and the Arthur H. Robinson Map Library. The Department is home to a large Cartographic Laboratory, the Wisconsin State Cartographer's Office, and maintains Soils and Geomorphology Laboratories and a wide variety of field equipment to support the program in physical geography. A fully equipped Computer Laboratory is available for student work in quantitative analyses, advanced graphics and geographic information systems. A Computer Instructional Facility provides a state of the art learning environment for its courses in quantitative methods, cartography, and GIS. The multi-volume and award winning History of Cartography Project is also housed in Science Hall. A collegial atmosphere in which students work closely with faculty and peers is encouraged, yet, we simultaneously value the initiative of independent scholarship. An important part of departmental life occurs on Friday afternoons, when the entire department gathers to attend invited lectures delivered by visiting scholars, as well as by colleagues from within the department and the university. The Department also actively promotes the professional development of its students.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Undergraduate: Semester plan. The department offers both B.A. and B.S. degrees in geography, and in cartography and GIS. The geography degrees require a specialization in one of the following areas: physical, people-environment interaction, human, or cartography/GIS.

Graduate: Semester plan. The Master's programs require a minimum of 30 credits of coursework and the successful defense of a thesis, and are normally completed in four semesters. The Ph.D. program requires a minimum of 51 credits of coursework, the completion of a minor and certification of a research skill, such as statistics or a foreign language. Admission to the Master's degree program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0, but applicants with less than 3.5 GPA should have particularly strong letters of recommendation and/or Graduate Record Exam scores. Applicants are expected to have a strong background in the

social or physical sciences, or the humanities, but not necessarily in geography. Applicants to the Ph.D. program must have a Master's degree in geography or a related field. All application materials must be received no later than December 15th, to be considered for financial aid.

Certificate: Semester Plan. The GIS Certificate program requires a set core curriculum of 15 credits, an additional elective (3/4 credits), and a 2-credit internship. Admission to the GIS Certificate program requires a bachelor's degree with a minimum undergraduate grade point average of 3.0. Undergraduate degrees can be in any of the social or physical sciences, or the humanities. No previous experience in geography is necessary. No GRE scores are required.

Financial aid: The majority of our graduate students are funded. In many cases, the department is able to offer long-term guarantees of financial assistance, usually five years for students who are starting with a Master's (2 years of funding) and planning on completing a Ph.D. (3 years of funding); and three years for those entering the Ph.D. program directly. The academic year stipend for a teaching assistant currently ranges from \$12,956 to \$18,067 (depending on level of appointment and teaching experience), plus benefits and remission of tuition. The Department also employs students as project assistants, who either assist staff members in their research or perform work in departmental laboratories and offices. The academic year stipend for a Project Assistant currently ranges from \$12,956 to \$18,067 (depending on level of appointment) plus benefits and remission of tuition. University Fellowships are available through a competitive program administered by the Graduate School. The department nominates its best applicants for these awards, which includes stipend, benefits, and remission of tuition. Advanced Opportunity (Minority) Fellowships are also available. Students in the GIS Certificate and Online Professional Masters in GIS Development programs are not eligible for University funding.

FACULTY:

Samer Alatout, Ph.D., Cornell, 2003, Associate Professor, Affiliate — environmental change, social theories of power and government, Foucault, theories of border, biopolitics, environmental conflict (water resources and the politics of identity), Palestine/Israel and the US/Mexico

Anna Vemer Andrzejewski, Ph.D., University of Delaware, 2001, Professor, Affiliate — American art, American material and visual culture, and North American vernacular architecture and landscape history

Waltraud A.R. Brinkmann, Ph.D., Colorado, 1973, Professor, Emerita — climatology, climate variations, Great Lakes, natural hazards

Ian G. Baird, Ph.D., British Columbia, 2008, Associate Professor — political ecology, upland peoples in mainland Southeast Asia, Lao Studies, human-environment relations, co-management of natural resources, development studies, post-colonial studies, social movements, social theory, identities, boundaries

James E. Burt, Ph.D., UCLA, 1980, Professor, Emeritus — climatology, quantitative methods, GIS

Martin T. Cadwallader, Ph.D., UCLA, 1973, Professor, Emeritus — urban, economic, quantitative analysis

Eric C. Carson, Wisconsin, Associate Professor, Affiliate — quaternary geology and fluvial geomorphology

William Cronon, Ph.D., Oxford 1981, Frederick Jackson Turner and Vilas Research Professor — environmental history, environmental studies, North America (also History, Environmental Studies)

William Denevan, Ph.D., UC-Berkeley, 1963, Carl O. Sauer Professor, Emeritus — cultural ecology, historical, humid tropics, Latin America

Samuel F. Dennis, Jr., Ph.D., Pennsylvania State University, 2000, Associate Professor, Affiliate — landscape, health and well-being, social dimensions of environmental design at all scales, children, youth and families and the built environment, community design, planning and development, nature-based play and education

Daniel F. Doepfers, Ph.D., Syracuse, 1972, Professor, Emeritus — social change and social geography of Third World cities, historical, Southeast Asia, China

Greg Downey, Ph.D., John Hopkins, Professor and Dean of College of Letters & Science, Affiliate — history and geography of information/communication technology and labor

Song Gao, Ph.D., UC-Santa Barbara, 2017, Assistant Professor — GIScience, place-based GIS, geospatial big data analytics, high-performance geo-computation, cartography and geovisualization

Holly Gibbs, Ph.D., Wisconsin, 2008, Associate Professor — land-use change, globalization, tropical deforestation, carbon emissions, bioenergy (also Environmental Studies)

Qunying Huang, Ph.D., George Mason, 2011, Assistant Professor — spatial high-performance/grid/cloud computing, cyberinfrastructure, big data mining, social media/networks, large-scale environmental modeling and simulation

Robert Kaiser, Ph.D., Columbia, 1988, Professor and Chair — political and cultural geography, power, place-making and identification practices, b/ordering space, de- and re-territorialization, East-Central Eurasia

Ken Keefover-Ring, Ph.D., Colorado, 2008, Assistant Professor — biogeography, chemical ecology, plant secondary chemical variation, plant-animal interactions, herbivory, pollination, volatile organic compounds, allelopathy, plant competition, analytical chemistry, terpenoids, phenylpropanoids (also Botany)

Jenna M. Loyd, Ph.D., UC-Berkeley, 2005, Assistant Professor — critical geography, public health, urban studies

Erika Marin-Spiotta, Ph.D., UC-Berkeley, 2006, Associate Professor — biogeochemistry, biogeography, land-use change, physical geography, people-environment

Joseph A. Mason, Ph.D., Wisconsin, 1995, Professor — soils, geomorphology, paleoenvironments

Sarah A. Moore, Ph.D., Kentucky, 2006, Assistant Professor — urban geography, postcolonial studies and development, space and social theory

Phillip C. Muehrcke, Ph.D., Michigan, 1969, Professor, Emeritus — cartographic thought and communication, cartographic visualization

Lisa Naughton, Ph.D., Florida, 1996, Professor — wildlife ecology, political ecology, tropical agriculture, sub-Saharan Africa, Latin America

Kristopher N. Olds, Ph.D., University of Bristol, 1996, Professor — urban, economic, globalization, higher education, Pacific Rim

Robert C. Ostergren, Ph.D., Minnesota, 1976, Professor, Emeritus — cultural, historical, Europe, North America

Mutlu Ozdogan, Ph.D., Boston University, 2004, Associate Professor, Affiliate — land-use/land-cover conversion, climate change

Morgan Robertson, Ph.D., Wisconsin, 2004, Associate Professor — political ecology, U.S. water policy, environmental markets

Robert E. Roth, Ph.D., Pennsylvania State University, 2011, Associate Professor — cartography, geovisualization, and geovisual analytics

Robert D. Sack, Ph.D., Minnesota, 1970, Clarence J. Glacken and Bascom Professor, Emeritus — political, economic, spatial analysis, geographic thought

Annemarie Schneider, Ph.D., Boston University, 2005, Associate Professor, Affiliate — urbanization, land use change, global environment change, remote sensing and GIScience

Yi-Fu Tuan, Ph.D., UC-Berkeley, 1957, J.K. Wright and Vilas Professor, Emeritus — cultural, attitudes toward environment

Matthew Turner, Ph.D., UC-Berkeley, 1992, Professor — environmental change, cultural ecology, political economy, pastoralism, Africa

Thomas R. Vale, Ph.D., UC-Berkeley, 1973, Professor, Emeritus — biogeography, natural resources, landscape and landscape change, American West

David Ward, Ph.D., Wisconsin, 1963, Chancellor, Emeritus and Professor, Emeritus — historical, urban, social, North America and Europe

Jack Williams, Ph.D., Brown University, 1999, Professor — global environmental change, paleoclimate, climate-vegetation interaction, palynology (pollen analysis)

Keith Woodward, Ph.D., Arizona, 2007, Associate Professor — social theory, geographies of affect, social movements and social change

Stephen Young, Ph.D., Washington, 2010, Assistant Professor, Geography and International Studies — political-economy, development, globalization, South Asia (also International Studies)

A Xing Zhu, Ph.D., Toronto, 1994, Professor — GIS, machine learning, remote sensing, environmental modeling and natural resource management

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 9/1/15-8/31/16: 14 Bachelors, 3 Masters, 3 Ph.D.

STUDENTS IN RESIDENCE: 59 Majors, 18 Minors, 10 GIS Minors, 23 GIS Certificates, 2 Masters, 17 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: choiw@uwm.edu Web: 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:

Entrance and general requirements for the *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.

Entrance and general requirements for the *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 Domelly, Ph.D., Trinity College, 1998, Associate Professor — environmental indicators, climate change, plant and animal phenology, environmental assessment

Glen Fredlund, Ph.D., Kansas, 1992, Associate Professor — biogeography, soils, geomorphology

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 Sciarto, 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, Assistant Professor — economic geography, urban geography, entrepreneurship, regional innovation systems, urban planning, urbanization

EMERITUS FACULTY:

Michael Day, D. Phil., Oxford, 1978, Professor Emeritus

Donn Haglund, Ph.D., Pennsylvania, 1958, 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 & URBAN PLANNING

DATE FOUNDED: 1928

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

GRANTED 9/1/15-8/31/16: 13 Bachelors

MAJORS: 25

CHAIR: Colin J. Long

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: <http://www.uwosh.edu/geography>

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 and Urban Planning 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 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 6 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 48 credit hours, 24 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, Assistant Professor — nature-society geography, environmental governance and knowledge, science and technology studies, biogeography, North American resource management

Mark W. Bowen, Ph.D., University of Kansas, 2011, Associate Professor — soils and stratigraphy, water resources and wetland ecology, geomorphology, paleoclimate

Mamadou Y. S. Coulibaly, Ph.D., Southern Illinois University, 2006, Associate Professor — Geographic information science, water resources

John A. Cross, Ph.D., University of Illinois, 1979, Professor — natural hazards, agriculture, United States and Canada

Angela G. Subulwa, Ph.D., University of Kansas, 2009, Associate Professor — refugees, cultural geography, geopolitics, development, Sub-Saharan Africa

Colin J. Long, Ph.D., University of Oregon, 2003, Professor — paleoecology, fire history, climate change

Edward V. Miller, Ph.D., University of Illinois at Chicago, 2011, Assistant Professor, Director of Urban Planning program — suburbs and exurbs, gentrification, public participation GIS, urban historical geography, public-private partnership

Kazimierz J. Zaniewski, Ph.D., University of Wisconsin-Milwaukee, 1987, Professor — cartography, population, ethnicity, Europe

UNIVERSITY OF WISCONSIN- PLATTEVILLE

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1959

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

GRANTED 1/1/16-12/31/16: 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. Web: 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, Assistant 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, Assistant Professor — gender geography

UNIVERSITY OF WISCONSIN- RIVER FALLS

DEPARTMENT OF GEOGRAPHY AND GEOGRAPHIC INFORMATION SCIENCE

DATE FOUNDED: 1966

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

GRANTED 9/5/16-5/21/17: 2 Bachelor Degrees

MAJORS: 15

CHAIR: Charles Rader

DEPARTMENT ASSOCIATE: Kathryn Possehl

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Chair, Department of Geography, University of Wisconsin-River Falls, 410 S. 3rd St., River Falls, Wisconsin 54022-5001. Telephone (715) 425-3264. Fax (715) 425-0611 E-mail: geography@uwrf.edu. Internet: www.uwrf.edu/geog.

PROGRAMS AND RESEARCH FACILITIES: The University of Wisconsin-River Falls is a campus of 6000 students located adjacent to the Minneapolis-St. Paul metropolitan area. The Department of Geography offers a major and minor in liberal arts, a minor in education, and a minor in GIS/Cartography. Majors require a minimum of 36 semester credit hours and minors, 21 semester credits. From a wide range of undergraduate courses students may emphasize physical geography, especially weather and climate, cultural/historical geography of North America, or cartography and geographic information systems (GIS). The physical geography program focuses applied coursework. The GIS/Cartography program is developed from eight cartography and GIS courses offered within the department, as well as from courses in general engineering, environmental science, computer information systems, and art. Advanced students often are employed through internships with local agencies and corporations. A

GIS lab is supported by the department. This facility is fully integrated into the curriculum and received a major upgrade summer 2017. Equipment and software include 27 workstations, large and small format color printers, scanners Trimble and Garmin GPS units, ArcGIS, TerrSet, Q-GIS, Adobe Creative Cloud, MS Office, and SPSS.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester system. Contact the Admissions Office for application materials and the Office of Financial Assistance for information on financial aid. Geography students may find work in the GIS Lab or with individual faculty.

FACULTY:

Ruth Baker, Ph.D. candidate, University of Minnesota, 2012, Assistant Professor — physical geography

Mathew Dooley, Ph.D., University of Nebraska, 2006, Professor — cartography, geographic information systems, landscape analysis

John Heppen, Ph.D., Louisiana State University, 1998, Professor — political, historical, social, spatial analysis, United States

Charles Rader, Ph.D., Michigan State, 1995, Professor — geographic information systems, cartography, people/environment

UNIVERSITY OF WISCONSIN- STEVENS POINT

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

DATE FOUNDED: 1950

DEGREES OFFERED: B.S.

GRANTED: 9/1/15-8/31/16: 35 Bachelors

MAJORS: 79

CHAIR: David Ozsvath

ACADEMIC DEPARTMENT ASSOCIATE: Mary Clare Sorenson

FOR CATALOG AND FURTHER INFORMATION CONTACT:

Chair, Department of Geography and Geology, University of Wisconsin-Stevens Point, Wisconsin 54481. Telephone 715-346-2629. Fax 715-346-3372. E-mail: geoggeol@uwsp.edu. Internet: www.uwsp.edu/geo/.

PROGRAMS AND RESEARCH FACILITIES: Students can major in either geography or geoscience and may select from minors in earth science, geology, environmental geography, or GIS and spatial analysis. The GIS and spatial analysis minor provides students in related disciplines a strong background in geographic-based techniques. Qualified seniors are encouraged to culminate their degree activities with an internship. Cooperative agreements with both local and state agencies provide intern opportunities for majors. An affiliated GIS Center affords students applied research opportunities and assistantships.

The department maintains several special facilities. Large GIS, remote sensing, and cartographic laboratories house an extensive array of contemporary equipment, including fifty workstation PCs, specialized Web, SDE and ArcGIS internet servers and several dedicated departmental servers for thematic and reference mapping, GIS analysis, remote sensing interpretation, and Internet resource site development. Available computer peripherals include color laser printers, large format printers (42"), large (52") and small format scanners, digital cameras, field tablets, iPad's, and broad access to the Internet and the university's computer network. Students may have an opportunity to add to the department's Web page, and Internet reference materials. Cartographic and GIS instruction is facilitated by a sizeable software collection: Surfer, MapViewer, ArcGIS (and all associated ESRI products), ERDAS Imagine, Map Publisher,

CorelDRAW, and Vue 11. All Adobe software is also maintained by the Department including Flash, Director, Premiere, Photoshop, Dreamweaver, InDesign, and Illustrator. Field equipment includes real-time and post-processing decimeter GPS units, a GPS base station, PDA's, portable field computers, tree core borers, stream current meters, soil sieves, and a stream current table. Several multimedia and GIS laboratories contain digital equipment and specialized software (e.g. Camtasia Studio) for developing Web-based materials and interactive multimedia products. The Map Center is an official depository for U.S. Geological Survey topographic maps and the National Geospatial Intelligence Agency. Several specialized map series, in both analog and digital form, are also housed within the Center.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: *Academic Plan*—Semester system. *Admissions Requirements:* Contact the Admissions Team, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin 54481, 715-346-2441. *Financial Aid:* Contact Office of Student Financial Aid, University of Wisconsin-Stevens Point, Wisconsin 54481, 715-346-4771.

FACULTY:

Kevin P. Hefferan, Ph.D., Duke University, 1992, Professor — structural geology, tectonics, physical geology, field geology, earth materials

Neil C. Heywood, Ph.D., University of Colorado, 1989, Professor — environmental hazards, biogeography, field skills, outdoor recreation, environmental change

Samantha W. Kaplan, Ph.D., University of Wisconsin-Madison, 2003, Associate Professor — Quaternary studies, climatology, paleoecology, sedimentary geology, environmental change

Timothy T. Kennedy, Ph.D., University of Wisconsin-Madison, 2014, University of Wisconsin-Madison, Assistant Professor — GIS education, remote sensing, land change science, PPGIS

Christine A. Koeller, M.S., University of Wisconsin-Stevens Point, GIS Faculty Associate — mobile GIS, environmental science, field research

Eric J. Larsen, Ph.D., Oregon State University, 2001, Professor — remote sensing, digital image processing, physical geography

Karen A. Lemke, Ph.D., University of Iowa, 1988, Professor — physical geography, geomorphology, quantitative methods

Douglas A. Miskowiak, M.S., University of Wisconsin-Madison, GIS Education Specialist — GIS, GeoDesign, PPGIS

Ismaila Odogba, Ph.D., University of Louisville, 2009, Associate Professor — urban and regional planning, global political economy, land use, comparative urban development, quantitative methods

David L. Ozsvath, Ph.D., Binghamton University, 1985, Professor — hydrogeology, geochemistry, environmental geology

Keith W. Rice, Ph.D., University of Kansas, 1989, Professor — cartography, environmental GIS, map animation, map visualization, mobile GIS

Michael E. Ritter, Ph.D., Indiana University, 1986, Professor — physical geography, distance education, climatology

Lisa J. Theo, ABD, University of Wisconsin-Madison, Instructor — urban/economic geography, historical geography, environmental history, tourism geography, quantitative methods

UNIVERSITY OF WISCONSIN- WHITEWATER

DEPARTMENT OF GEOGRAPHY, GEOLOGY & ENVIRONMENTAL SCIENCE

DATE FOUNDED: 1963

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

GRANTED 6/1/15 - 5/31/16: 43 Bachelors

MAJORS: 43 Geography, 118 Environmental Science

CHAIR: Dr. Peter Jacobs

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. Internet: jacobsp@uwv.edu
Web: <http://www.uwv.edu/cis/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 either Geography or Geology. In addition to minors in both geography, GIS, and geology, two interdisciplinary minors, Environmental Studies and Urban and Area Development, are also housed and administered in the department. The department houses and administers an interdisciplinary Environmental Science major that relies on many courses in physical geography, geology, GIS, and resource management.

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).

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 and large Warren and Rose Fischer Scholarship program for Education majors minoring in Geography. This scholarship program assists students who meet the appropriate education and geography criteria. The Fischer Scholarship is renewable each semester as long as students remain in good academic standing and until the appropriate degree is conferred. The Folkerth Scholarship is also available to recognize an outstanding geography major committed to and effective at promoting geography and working with other students and faculty. Some students are paid as research assistants on faculty research grants. Paid and for credit internships with public agencies and private firms are available to geography majors as well. In addition, 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, Assistant 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, Associate Professor — Political Ecology, Environmental Geography, Private Land Conservation
John Frye, PhD, University of Georgia, 2011, Associate Professor — Climatology, Meteorology
Rex Hanger, PhD, Berkeley, 1992, Associate Professor — Paleontology, Stratigraphy, Sedimentology, Oceanography
Peter Jacobs, PhD, UW-Madison, 1994, Professor & Chair — Geomorphology, Soils
Margo Kleinfeld, PhD, Kentucky, 2005, Associate Professor — 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, Assistant 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
David Travis, PhD, Indiana, 1994, Professor & College Dean — Satellite Meteorology, Synoptic Climatology, Mesoscale Climate Change
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

WYOMING

UNIVERSITY OF WYOMING

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1966

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

GRANTED MAY 2017: 9 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 52 Majors, 16 Masters

NOT IN RESIDENCE: 8 Masters

CHAIR: William J. Gribb

DEPARTMENT ADMINISTRATIVE ASST: Ms. Sue Benson

FOR CATALOG AND FURTHER INFORMATION WRITE

TO: Geography, Dept. 3371, 1000 E. University Ave., University of Wyoming, Laramie, Wyoming 82071. Telephone (307) 766-3311. E-mail: geographydept@uwyo.edu. Internet: www.uwyo.edu/geography

PROGRAMS AND RESEARCH FACILITIES: M.A. program in geography emphasizes human; physical; geographic information systems; and environment and resource management, with a particular focus on the Great Plains/Rocky Mountain region. A specialized M.A. program with a focus on Water Resources is also offered. M.P. program in planning emphasizes rural and small town planning and

environmental planning. Curricula are individually tailored, but include at least two skills from among the following: quantitative or qualitative methods, field techniques, remote sensing, and geographic information systems. The Department is connected with the Wyoming Geographic Information Sciences Center (WyGISC); the director of WyGISC holds a faculty appointment in the Department of Geography. The Department is also affiliated with three other research facilities, the Wyoming Center for Environmental Hydrology and Geophysics (WyCHEG), the Roy J. Shlemon Center for Quaternary Studies, and the Ruckleshaus Institute. Internships are available for all facets of the Department.

Physical Geography: Centers on biogeography, climatology (particularly in climate variability), geomorphology, process geomorphology including hydrology, and landscape ecology—especially pertaining to the Rocky Mountain area. Laboratory facilities both within the department and across campus provide opportunities for training in advanced techniques. Courses in allied disciplines are encouraged.

Spatial Analysis, Information, and Display: Offers training in field techniques, mapping, GIS, GPS, remote sensing, web-based mapping and drone technologies. Courses in allied disciplines are encouraged.

Natural Resource Management: Provides training in resource management in such areas as land use planning, wildlife management, water resources, and the impact of development on environmental values. Courses in geography and related fields provide an interdisciplinary framework.

Human Geography: Examines spatial and historical context of human systems, processes, behavior, cultural landscapes and forms of geographic organization. Courses in allied disciplines are encouraged.

Planning: Offers training in small town/rural areas, natural resources, land use and environmental planning leading to the Master in Planning degree. Interdisciplinary in content, it involves various colleges and departments and prepares individuals as community, or environmental planning directors in rural and mountain states.

The Department also accepts qualified applicants in biogeography or related ecology areas for the University's Ph.D. Program in Ecology. In addition, the Department accepts qualified applicants interested in hydrology and water resources for the University's Ph.D. Program in Water Resources.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

Academic Plan- M.A., M.P. Plan A, with Thesis or Plan B, with two professional 2sciences or the humanities accepted. Deficiencies remedied during the graduate program.

*Financial Aid-*full-time masters' level Graduate Assistantships, pay \$12,078 plus remission of tuition and fees. Graduate assistantships include both teaching and research assistantships. Applicants for the Ph.D. in Ecology or Water Resources should meet the same standards as for the masters' program and hold a masters' degree. The Ph.D. assistantship stipend for a full-time doctoral student is \$16,785 plus tuition and fees remission.

FACULTY:

Shannon Albeke, Ph.D., University of Georgia, 2010, Joint Wyoming Geographic Information Science Center/Geography, Associate Research Scientist — spatial ecological data processing and analysis

Yi Ling Chen, Ph.D., Rutgers University, 2000, Joint Global and Area Studies/Geography, Associate Professor — neoliberalism, housing policies, and gender

Nicholas E. Crane, Ph.D., The Ohio State University, 2014, Assistant Professor — political economy of cities, social movements, collective memory, youth culture and young people's politics, the Americas, qualitative methodology and research design.

William J. Gribb, Ph.D., Michigan State, 1982, Professor and Chair — land resource planning, rural community planning, cultural ecology, computer cartography/GIS

Jeffrey C. Hamerlinck, Ph.D., University of Colorado - Boulder, 2010, Joint Wyoming Geographic Information Sciences Center/Geography, Research Scientist and Director — geographic information science, spatial decisions support systems, land resource planning

Paddington Hodza, Ph.D., West Virginia University, 2007, Joint Wyoming Geographic Information Science Center/Geography, Associate Research Scientist — appreciative GIS, geovisualization, social spatial media, and geo-spatial web applications

Carl J. Legleiter, Ph.D., University of California Santa Barbara, 2008, Adjunct Associate Professor — geomorphology, remote sensing, water resources

Thomas Minckley, Ph.D., University of Oregon, 2003, Associate Professor — conservation and natural resources, biogeography, and paleoecology

Zoe Pearson, Ph.D., The Ohio State University, 2016, Global and Areas Studies, Adjunct Assistant Professor — feminist geography, political ecology, Latin American

Jacqueline J. Shinker, Ph.D., University of Oregon, 2003, Associate Professor — climatology, climate change and variability, drought, water resources and paleoclimatology

Gerald R. Webster, Ph.D., University of Kentucky, 1984, Professor — political, urban, human geography, and planning

Chen Xu, Ph.D., Texas A&M, 2010, Assistant Professor — volunteered geographic information, big geospatial data analytics, social media, and GISc

John L. Allen, Ph.D., Clark, 1969, Professor Emeritus — historical, history of geography, environmental studies, landscape change, American West

William L. Baker, Ph.D., Wisconsin-Madison, 1987, Professor Emeritus — biogeography, landscape ecology, natural resources, conservation, remote sensing, GIS

Ronald Beiswenger, Ph.D., Michigan, 1972, Professor Emeritus — natural resource conservation, geographic education, biogeography

Thomas Buchanan, Ph.D., Illinois, 1979, Professor Emeritus — quantitative methods, research design, social behavior, natural resource management

Deborah D. Paulson, Ph.D., Hawaii, 1992, Professor Emeritus — human ecology, land use and management, international development, sustainable agriculture

CANADA

ALBERTA

UNIVERSITY OF ALBERTA

DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

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

GRANTED 7/1/2015-6/30/2016: 90 B.Sc., 26 B.A., 23 Masters, 12 Ph.D.

STUDENTS IN RESIDENCE: 494 Majors (Science and Arts), 69 Masters, 65 Ph.D.

NOT IN RESIDENCE: 5 Masters, 10 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. Minimum course requirements comprise 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. A thesis is required of all graduate students. There are no formal foreign language requirements. A one year course-based MSc program in Integrated Petroleum Geoscience is a joint program between the Departments of Earth and Atmospheric Sciences and Physics. Course requirements are 8 core courses and 4 optional courses. A one-year or two-year course-based MSc program in Urban and Regional Planning is offered

The Department houses laboratories, computing systems and field equipment to support research in various disciplines including Geomorphology, Sedimentology, Geochemistry, Petrology, Climatology, Biogeography, GIS and Remote Sensing. Analytical equipment and facilities relevant to these fields include 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 including ground and ice penetrating radar systems, GPS and Total Station surveying systems, ice coring drill, borehole inclinometer, field portable gamma spectrometer and fluorometer, numerous dataloggers and sensors for measurement of microclimatic, meteorological, hydrological and hydrochemical data, and vibracoring/percussion systems for lake sediment coring. Available Unix and PC-based computing systems provide PCI and Envi image processing software, ARC-INFO and IDRISI GIS, ERADAS, as well as specialized modeling software to support the multi-disciplines. The department also houses the Earth Observation Systems Laboratory (EOSL), and the Centre for Earth Observation Science (CEOS) which brings together scientists from Computing Science, Engineering and Earth and Atmospheric Sciences, as well as the Community, Health and Environment Research Centre (CHE). Facilities for scanning, digitizing, color printing and photogrammetry are available.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: There are two regular semesters: September-December and January-April. Intersession courses are 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 Atmospheric Sciences, Environmental Earth Sciences, Geology, Paleontology and Urban Planning. A B.A. program is offered in Human Geography and Urban Planning (Major/Minor only). For additional information, see our website at <http://www.ualberta.ca/eas>; E-Mail - EAS.Inquiries@ualberta.ca

An Industrial Internship Program enables students to combine 8 to 16 months of work experience in related fields with their academic training

Graduate - 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

DATE FOUNDED: 1961

GRADUATE PROGRAM FOUNDED: 1961

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

GRANTED 1/1/15-12/31/15: 83 Bachelors, 19 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE (2015): 366 Majors, 58 Masters, 28 Ph.D.

HEAD: Dr. John Yackel

GRADUATE PROGRAM ADMINISTRATOR: Paulina Medori

FOR DETAILED INFORMATION EMAIL: geograd@ucalgary.ca or check website at <http://www.geog.ucalgary.ca/>.

CURRENT ADDRESS: 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, 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 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, and are enhanced by three full-time technicians. 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 work of the Van Horne Institute for International Transportation & Regulatory Affairs, the World Tourism Education and Research Centre, the Institute for Advanced Policy Research, 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:
<http://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: Geography Majors 56, Urban and Regional Studies 22, Archaeology/Geography 28, Remote Sensing 3, Environmental Science 133, Masters 35, Ph.D. 12

CHAIR: Stefan W. Kienzle

DEPARTMENT ADMINISTRATIVE ASST: Deb Bullock

FOR FURTHER INFORMATION CONTACT: Dr. Stefan W. Kienzle, 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: geography.chair@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 PhD. 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 — 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 — remote sensing, texture analysis, terrain modeling

Chris Hopkinson, Ph.D., 2002 Wilfred Laurier University CAIP Research Chair — Research Interests: 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 Kienzle, Ph.D. Heidelberg, 1993, Professor and Coordinator of Environmental Science — 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

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 9/1/15-8/31/16: 121 Bachelors, 7 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 417 Majors, 9 M.A., 16 M.Sc., 28 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) 782-3718. Fax (778) 782-5841.

E-Mail: geog_info@sfu.ca

Internet: <http://www.sfu.ca/geography/>

PROGRAMS AND RESEARCH FACILITIES: The Department of Geography is a founding department of the Faculty of Environment.

- Undergraduate Program:** Undergraduate students at Simon Fraser University may specialize in one of three broad realms: Human Geography, Physical Geography, and Spatial & Geographic Information Science. For students with primary interests in **Human Geography**, the department offers a mainstream BA, with emphases on social and urban themes or on economic and resource issues. There is also a separate BA with a strong environmental dimension: the Environmental Specialty major. Additionally, students may enroll in a cross-disciplinary Certificate in Urban Studies. Three concentrations in the **Physical Geography** BSc are available: (1) *Biogeophysical Science* exposes students to a broad range of environmental science courses that address geomorphology, climatology, hydrology, soils, and biogeography; (2) *Geoscience* is similarly broad-ranging but specifically targets the academic requirements needed to apply for registration as a Professional Geoscientist; (3) *Physical Geography and Spatial Information Science* gives students the opportunity to focus on the linkages between *Earth System Science* and *Spatial Information Systems*. **Spatial & Geographic Information Science** at Simon Fraser encompasses remote sensing, cartography, GIScience, spatial data analysis, and geovisualization. All students include SIS coursework within their BA or BSc degrees (see above) and may supplement their chosen degree with a Certificate in Spatial Information Science. Also available is an independent BSc in Geographic Information Science, offered in cooperation with the School of Computing Science. For more information on the undergraduate program, 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 spatial 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: landscape ecology, climate science, geomorphology, and soil science; geographic/spatial information science, and geovisualization and remote sensing; health geography, political geography, urban geography, economic geography, cultural geography, social theory, political economy, and tourism.

For information on these specializations, faculty members, and detailed information concerning all aspects of the graduate program, please visit the departmental website, <http://www.sfu.ca/geography/graduate-studies.html>, and/or contact the Department.

GRADUATE ADMISSION REQUIREMENTS AND

FINANCIAL AID: Admission Requirements: Generally, admission to the Graduate Program is in the Fall semester, and applications should be complete by January 15 of the admission year. **Masters candidates** should have an undergraduate grade point average of 3.25. Candidates for the Masters 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 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
- Alex Clapp, Ph.D., UC-Berkeley, 1993, Professor* — economic geography, resource conservation, forest policy
- 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
- Alison Gill, Ph.D., Manitoba, 1982, Professor* — coastal tourism, resort development, secondary homes, tourism in mountain communities
- 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, Associate Professor — urban environmental and pragmatic philosophy and public participation, urban sustainable development, social learning, public policy

Paul Kingsbury, Ph.D., *Kentucky*, 2003, Associate Professor — cultural geography, psychoanalysis, social theory, paranormal cultures

Jason Leach, Ph.D., *University of British Columbia*, 2014, Assistant Professor — hydrology, water quality, fluvial science

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, paleoglacialology

John Pierce, Ph.D., *London School of Economics*, 1976, Professor — economic and rural geography, research methodology

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

LIMITED TERM LECTURERS

John Irwin, PhD, *British Columbia*, 2004 — Sustainable development and resource planning, economic and transportation geography

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

ADJUNCT FACULTY:

Stuart C. Aitken, Ph.D., *Western Ontario*, 1985 — children and youth, families and communities, qualitative methods, critical theory, critical GIS, urban, film and media

Steve Cumming, Ph.D., *University of British Columbia*, 1997 — boreal ecology, fire ecology, spatial simulation, conservation planning

Michael Eby, B.A.Sc., *University of British Columbia*, 1985 — climate modelling, carbon cycle feedbacks, climate change longevity

Nathan Gillet, D. Phil., *Oxford*, 2002 — climate change modelling and attribution

Michael Goodchild, Ph.D., *McMaster*, 1965 — geographic information science and systems

Andy Jonas, Ph.D., *The Ohio State University*, 1989 — urban political geography, regionalism, labour geography, scale

Ray Kostaschuk, Ph.D., *McMaster*, 1984 — fluvial hydrology, geomorphology

Meg Krawchuk, Ph.D., *Alberta*, 2007 — landscape ecology, pyrogeography, biogeography, conservation science

Victoria Lawson, Ph.D. *Ohio State University*, 1986 — relational poverty studies, feminist geography

Olav Lian, Ph.D., *Western Ontario*, 1997 — quaternary sedimentology and stratigraphy, glacial geology, geomorphology and geochronology

Nicholas Menzies, Ph.D., *University of California, Berkeley*, 1988 — Forest resources management in China, community-based resources management, environmental history, history of botany in China

Christiana Miewald, Ph.D., *University of Kentucky*, 2000 — food security, urban agriculture, gender and sexuality, gentrification

Byron Miller, Ph.D., *Minnesota*, 1995 — space and social movements, urban politics, urban governance and governmentality, politics of urban and regional sustainability, socio-spatial polarization

Lenore Newman, Ph.D., *York University*, 2004 — food security, sustainable cities, culinary geography, nature/culture interface

Ronan Paddison, Ph.D., *University of Aberdeen*, 1969 — urban democratic processes, making of inclusive public spaces

Janet Sturgeon, Ph.D., *Yale*, 2000 — human geography of contemporary Asia

Mary Thomas, Ph.D., *Minnesota*, 2002 — feminist and urban geography, girlhood studies, incarceration

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

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

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 9/1/15-8/31/16: 142 Bachelors, 16 Masters, 4 Ph.D.

STUDENTS: 17 Minors, 517 Majors, 36 Masters, 70 Ph.D.

HEAD: Marwan Hassan

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:

M.A., M.Sc., Ph.D. 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).

The Department participates actively in many interdisciplinary programs: Asian Studies, Community and Regional Planning, Comparative Literature, Hydrology, International Relations, Remote Sensing, Resource Management Science, Sustainable Development, Urban Studies, and Women's Studies. Field studies include ongoing projects in the Western Arctic and Cordilleran regions of Canada and special projects in Latin America and Asia.

A guide to graduate studies in Geography is available at this website: <http://www.geog.ubc.ca/graduate/>

Other Facilities - In department: extensive map and air photo holdings of B.C.; geomorphological, biogeographical, and climatological laboratories; modern computer network and GIS laboratories; office space for graduate students.

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* - The Honours program required an average of 72%. 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* - Scholarships: UBC Graduate Support Initiatives are available for superior students and all applicants are automatically considered for these scholarships. The University of British Columbia also provides some Four Year Doctoral Fellowships (4YF). Under this program, UBC ensures its best students are provided with financial support of at least \$22,000 per year for the first four years of their PhD studies and the first two years of their Master degree studies.

NSERC, SSHRC, and CIHR scholarships are tenable at UBC. Students should consult these organizations' web-sites for application procedures. Teaching assistantships with competitive stipends are available from September to April.

FACULTY:

Karen J. Bakker, Ph.D., Oxford, 1999, Professor, 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

Loch Brown, Ph.D., Sussex, 2007, Senior Instructor — development, collective action, associational dynamics, political ecology, West Africa

Andreas Christen, Ph.D., Basel, 2005, Associate Professor — land-atmosphere interactions, carbon cycle, urban climatology

Michelle Daigle, Ph.D., Washington, 2015 — Indigenous geographies of dispossession, resistance and resurgence, Indigenous feminism, settler colonialism, Indigenous water governance, food sovereignty

Jessica Dempsey, Ph.D. British Columbia, 2011, Assistant Professor — political ecology, economic geography, feminist science studies, and increasingly, green finance

Simon D. Donner, Ph.D., Wisconsin, 2002, Associate Professor — climatology, biogeochemistry, hydrology, aquatic ecology, climate policy

Brett C. Eaton, Ph.D., British Columbia, 2004, Associate Professor — fluvial geomorphology, sediment transport, aquatic habitat, impacts of hydropower generation

Matthew D. Evenden, Ph.D., York, 2000, Professor — environmental history, historical, water and Canada

James F. Glassman, Ph.D., Minnesota, 1999, Professor — development, third world urbanization, economic, political, Southeast Asia

Derek 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 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

Dan 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

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, Africa and Southeast Asia

David F. Ley, F.R.S.C.; Ph.D., Pennsylvania State, 1972, Professor, Canada Research Chair — immigration, gentrification, housing markets, urban social geography

Ian McKendry, Ph.D., Canterbury, 1985, Professor — air pollution meteorology, aerosol science, synoptic climatology

Siobhán R. McPhee, Ph.D., Dublin, 2012, Instructor — labour geography, migration, workplace inequalities, emerging global cities, Ireland, Middle East

R. Dan Moore, Ph.D., Canterbury, 1984, Professor — forest hydrology, hydroclimatology, snow and glacier hydrology, riparian processes, physical water quality

Jamie 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, government policy and statecraft, economic regulation and governance

Geraldine Pratt, Ph.D., British Columbia, 1984, Professor — feminist geography, Filipino transnationalism, geographies of film, performance

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, social policy, quantitative methods; housing

EMERITI FACULTY:

Michael J. Bovis, Ph.D., Colorado, 1974, Associate Professor Emeritus — geomorphology, landslides

Michael Church, F.R.S.C.; Ph.D., British Columbia, 1969, Professor Emeritus — geomorphology

Richard Copley, M.A., UC, Berkeley, 1961, Senior Instructor Emeritus — cultural/historical, East Asia

Ken Denike, Ph.D., Pennsylvania, 1973, Assistant Professor Emeritus — urban, quantitative methods, transportation

David W.C. Edgington, Ph.D., Monash, 1986, Professor — economic, urban economic, Japan, Asia Pacific

R. Cole Harris, O.C.; F.R.S.C.; Ph.D., Wisconsin, 1964, Professor Emeritus — historical, Canada

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

John K. Stager, Ph.D., Edinburgh, 1962, Professor Emeritus — Canadian Arctic

Graeme Wynn, F.R.S.C.; Ph.D., Toronto, 1974, Professor — historical, environmental, Canada, New Zealand

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

GEOGRAPHY PROGRAM

DATE FOUNDED: 1994

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

GRANTED 9/1/15 – 8/31/16: 3 Bachelors, 3 Masters

STUDENTS IN RESIDENCE: 10 Masters, 7 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

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:

José Pablo Baraybar, M.A., Grenoble, 2012 — forensic anthropology; criminal justice; memorialization

Matthew Beedle, Ph.D., UNBC, 2013 — glaciology; climatology; remote sensing; science communication

Eric Grunsky, Ph.D., Univ. of Ottawa, 1988 — remote sensing and image processing; statistical/numerical methods in the Earth Sciences

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

UNIVERSITY OF THE FRASER VALLEY

DEPARTMENT OF GEOGRAPHY and the ENVIRONMENT

DATE FOUNDED: 1992

DEGREES OFFERED: B.A., Geography; B.Sc., Physical Geography

BA GRANTED 5/1/15-4/30/16: 25 Majors, 6 Extended Minors, 13 Minors, 2 Honours

BSc GRANTED 5/1/15-4/30/16: 8 Majors, 1 Minors, 1 Honours

STUDENTS IN RESIDENCE BA: 59 Majors, 16 Minors, 9 Extended Minors, 1 Honours

STUDENTS IN RESIDENCE BSc: 18 Majors, 6 Minors

HEAD: Steven Marsh

DEPARTMENTAL ADMINISTRATIVE ASSISTANT: Sarah McLean

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Steven Marsh, Head, Department of Geography and the Environment, 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: steven.marsh@ufv.ca Internet: www.ufv.ca/geography/.

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 Woods Hole World Rivers Group.

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
Garry Fehr, Ph.D., Guelph, 2007, Associate Professor — International Development, Political Ecology, Social/ Cultural Geography
Claire Hay, M.Sc., Alberta, 1998, Associate Professor — Geomorphology, Regional Geography, Geographic Techniques
Jonathan Hughes, Ph.D., Simon Fraser, 2002, Associate Professor — Biogeography, Paleocology, Dendrochronology, Paleoseismology
Olav B. Lian, Ph.D., Western Ontario, 1997, Associate Professor — Quaternary Sedimentology, Stratigraphy, Paleoenvironments, Geochronology, Paleocology 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

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

LIMITED TERM FACULTY

Mariano Mapilli, Ph.D, British Columbia, 1997 — Resource Management and Environmental Studies
Terah Sportel, Ph.D., Guelph, 2013 — International Development, Political Ecology, Labour Geography, Agrarian Change, Sustainable Livelihoods

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

POST-DOCTORAL FELLOWS

Christina Neudorf, Ph.D., Wollongong (Australia), 2012, Hakai Scholar — Luminescence Dating, Geochronology
Lisa Powell, Ph.D., University of Texas-Austin, 2013 — Agricultural land conservation, resource communities

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 1/1/16-12/31/16: 148 Bachelors, 10 M.Sc., 2 M.A., 8 Ph.D.

STUDENTS IN RESIDENCE: 550 Majors, 22 Masters, 21 Ph.D.

NOT IN RESIDENCE: 15 Masters, 26 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, conserving critical species and their habitats, empowering the "binners" in Victoria, BC and Sao Paulo, Brazil through community-engaged research, to critical assessments of political systems. 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 Geomorphology, 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, Water, Innovation and Global Governance, 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 B.A. and B.Sc. 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 B.Sc. 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 B.Sc. 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 M.A., M.Sc., and Ph.D. degrees. A B.A. or B.Sc. 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 > 575 or IELTS > 6.5) to demonstrate language competency proficient to proceed with graduate studies. Overseas 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 Ph.D. degree. Program entry is usually September for the Winter Session (divided into two terms: September-December, and January-April). Students may also enter the program in January or May.

The Department offers University of Victoria Fellowships of up to \$15,000 (M.A., M.Sc., Ph.D.) for a 12-month period to students of high academic standing who are registered full-time. Most students are offered funding from a variety of sources, including: Scholarships, Fellowships, Entrance Awards, Research Assistantships, and Teaching Assistantships. Additional summer stipends are also available. Typically, academic supervisors cover research expenses from their research grants. 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 or landed-immigrant students. More information on admissions, tuition, awards, and other requirements is available online from the Faculty of Graduate Studies (web.uvic.ca/gradstudies). Further details on the Geography Graduate School program at UVic is available at: <http://www.uvic.ca/socialsciences/geography/graduate/index.php>.

FACULTY:

David Atkinson, Ph.D., Ottawa, 2000, Associate Professor — storms and coastal zones, weather extremes, icefield meteorology, weather/human interactions, Arctic

Chris Bone, Ph.D., Simon Fraser, 2011, Assistant Professor — GIS, spatial analysis, complex systems modeling and artificial intelligence

Rosaline Canessa, Ph.D., Victoria, 1997, Associate Professor — coastal management, marine protected areas, GIS decision support, geovisualization

Denise Cloutier, Ph.D., Guelph, 2000, Professor — healthy aging, integrated models of service delivery for older adults, vulnerable populations, long-term care service trajectories

Maycira Costa, Ph.D., Victoria, 2000, Associate Professor — remote sensing, primary productivity, coastal waters, benthic habitats, wetlands

Christopher Darimont, Ph.D., Victoria, 2007, Associate Professor — conservation ethics, ecosystem-based harvest management, Indigenous geographies, marine-terrestrial interactions, wildlife ecology

Teresa Dawson, M.A., Oxford, 1992, Teaching Professor — human geography, geographic education, feminist geography, experiential learning

Philip Dearden, Ph.D., Victoria, 1978, Professor — protected areas, conservation, marine, Southeast Asia

David Duffus, Ph.D., Victoria, 1988, Associate Professor — conservation, wildlife, marine

Johannes Feddema, Ph.D., Delaware, 1991, Professor — human systems in Earth System models, water balance climatology, urban climatology

Mark S. Flaherty, Ph.D., McMaster, 1985, Professor — small-holder aquaculture, food security, poverty alleviation in developing nations

Jutta Gutberlet, Ph.D., Tübingen, 1990, Professor — development geography, waste studies, global/local waste governance, sustainable livelihoods, ecological and social economy, participatory action research (PAR), global South

Michael Hayes, Ph.D., McMaster, 1989, Professor — social geographies of health from a life-course perspective, health inequities and urban structure, social gradients in health outcomes, disability and public policy

Dennis E. Jelinski, Ph.D., Simon Fraser, 1990, Professor — landscape ecology, biogeography, wildlife ecology, conservation, terrestrial-marine interactions

Eva Kwohl, Ph.D., Bremen, 2013, Assistant Professor — coastal geomorphology, turbulence, flow structures

Michele-Lee Moore, Ph.D., Wilfrid Laurier, 2011, Associate Professor — global/local water governance, river basin management, social-ecological resilience, social innovation; transnational networks

K. Olaf Niemann, Ph.D., Alberta, 1988, Professor — remote sensing, geomorphology

Ian J. O'Connell, Ph.D., Victoria, 2003, Teaching Professor — geomatics

Aleck Ostry, Ph.D., British Columbia, 1998, Professor — health geography, social determinants of health, geography of food security and nutrition, Aboriginal people's health

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

Terry Prowse, Ph.D., Canterbury, 1981, Professor — cold regions hydrology, impacts of climate change on water resources, hydro-ecology of river systems, hydro-climatology

CindyAnn Rose-Redwood, Ph.D., Penn State, 2007, Assistant Teaching Professor — urban social geography, immigrant geographies, geographies of higher education, international student experiences

Reuben Rose-Redwood, Ph.D., Penn State, 2006, Associate Professor — urban historical geography, cultural landscape studies, politics of mapping, geographies of higher education, history of geographical thought

Randall Scharien, Ph.D., Calgary, 2010, Assistant Professor — Arctic sea ice variability and climate change, remote sensing with synthetic aperture radar, radar polarimetry

Dan J. Smith, Ph.D., Alberta, 1985, Professor — geomorphology; dendrochronology

Simon Springer, Ph.D., British Columbia, 2009, Associate Professor — anarchist geographies, geographies of violence and non-violence, political and development geographies, political economy of Southeast Asia

ONTARIO

BROCK UNIVERSITY

DEPARTMENT OF GEOGRAPHY AND TOURISM STUDIES

DATE FOUNDED: 1964

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

GRANTED 9/1/15-8/31/16: 67 Bachelors

MAJORS: 167 (Geography); 84 (Tourism)

CHAIR: Christopher Fullerton

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/geography/.

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.

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:

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, music, Pakistan, road construction and social change, political ecology

Daryl Dagesse, Ph.D., Guelph, 2006, Associate Professor — periglacial geomorphology, soil physics

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 Jollineau, Ph.D., Waterloo, 2003, Associate Professor — geospatial approaches to vineyard management, wetland ecosystems, water resources management and environmental sustainability

Phillip Gordon Mackintosh, Ph.D., Queen's, 2001, Associate 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 — 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, Assistant 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 9/1/15-8/31/16: 73 Bachelors, 4 M.A., 9 M.Sc., 7 Ph.D.

STUDENTS IN RESIDENCE: 381 Majors, 9 M.A., 22 M.Sc., 25 Ph.D.

NOT IN RESIDENCE: M.A., M.Sc., 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 Physical Geography (4yr Honours); BA Combined (4yr Honours)
- BSc Physical Geography (4yr Honours); BSc Combined (4yr Honours)
- BA Geomatics (4yr Honours); BSc Geomatics (4yr Honours)
- BA Environmental Studies (3yr General; 4yr Honours)

Graduate Programs

The Department's M.A., M.Sc. and Ph.D. programs encourage students to integrate perspectives from the biophysical and social sciences.

M.A. research themes include: (1) *Society/environment interactions* – rural and resource development, environmental impact assessment, human response to environmental change, gender and environments, sustainable community; and (2) *Political economy of geographical change* – globalization, industrial and community restructuring, territorial identities, environmental geopolitics, environmental conflict and democracy, the developing world, cultures, resources, rural development, gender.

M.Sc. research themes focus on *Processes of environmental change* – cold regions, climate-ground interactions, soil resources, quaternary environments. Students may specialize in biogeography, hydrology, geomorphology, microclimatology, glaciology, and permafrost processes.

Geomatics research themes include: remote sensing, GIS, computer-assisted cartography, and spatial analysis. Geomatics applications to other thematic areas and disciplines can be taken either as an M.A. or a M.Sc. depending on research focus.

The Ph.D. 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.

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 Earth Observation and Mapping, Natural Resources Canada, and other government agencies.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID:

M.A./M.Sc. programs: Admission requires at least B+ (77%) average in Honours Geography or equivalent program. Candidates with other qualifications may be accepted into a qualifying year. Fall term entry is the norm.

Ph.D. program: Admission requires at least A- (80%) average in a Master's Geography program or equivalent. Students commence their program in September.

Financial assistance: Graduate scholarships and assistantships for qualified students. Funding is available for two years at the Masters level and four years at the Ph.D. level for qualified students. The department and university also offer several awards and bursaries to assist with graduate studies.

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 09/01/2015-11/21/2016: 143 Bachelors

STUDENTS IN RESIDENCE: 48 Masters, 46 Ph.D.

DIRECTOR: Dr. Bruce Newbold

DEPARTMENT ADMINISTRATOR: Marge Geroux

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Graduate Admin, 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 plus) 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 \$11,118.80 Teaching Assistantship and \$ \$11,740.00 Department Scholarship; candidates for M.A. or M.Sc. without external scholarship will receive: \$11,118.80 Teaching Assistantship and \$9,740.00 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

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

Luc Bernier, Ph.D., McMaster, 2007, Assistant Professor — geomicrobiology, environmental geochemistry

Vera A. Chouinard, Ph.D., McMaster, 1987, Professor — urban political economy

Sean Carey, Ph.D., McMaster, 2000, Professor — cold weather

Alan P. Dickin, D.Phil., Oxford, 1981, Professor — geology

Carolyn H. Eyles, Ph.D., Toronto, 1986, Professor — glacial sedimentology

Richard S. Harris, Ph.D., Queen's, 1981, Professor — social/political geography

Sang Tae Kim, Ph.D., McGill University, 2006, Assistant 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

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)

Suzanne Mills, Ph.D., Saskatchewan, 2007, Assistant 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 9/1/15 - 8/31/16: 82 Bachelors, 67 Masters, 6 Ph.D.

STUDENTS IN RESIDENCE: 311 Majors, 96 Masters, 42 Ph.D.

NOT IN RESIDENCE: 11 Masters, 16 Ph.D.

HEAD: Warren Mabee

DEPARTMENT MANAGER: Kathy Hoover

FOR CATALOG AND FURTHER INFORMATION WRITE TO: 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: Agarwal, Andrew, Cameron, Castleden, Collins, Davidson, Donald, Godlewska, Gordon, Holmes, Hovorka, Kobayashi, Lovell, Meligrana, Mullings, 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, Treitz

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: Chen, Danby, Godlewska, Scott, Treitz

FACULTY:

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, Associate 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

Joyce Davidson, Ph.D., Edinburgh, 2001, Associate Professor — emotional geographies, gender and embodiment, mental health and illness, feminism and geography

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

Alice Hovorka, Ph.D., Clark University, 2003, Professor and Director of Environmental Studies — animal geographies, gender and environment, urban geography, Southern Africa

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

W. George Lovell, Ph.D., Alberta, 1980, Professor — historical, cultural, Latin America

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

Beverley 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

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

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

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

Gerald Hodge, Ph.D., MIT, 1965, Professor Emeritus — regional planning, seniors planning, community planning

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

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 7/1/15-6/30/16: 45 Bachelors (GA), 48 Bachelors (EUS), 25 Masters (MSA)

STUDENTS IN RESIDENCE: 259 Majors (GA), 312 Majors (EUS), 31 Masters (MSA)

CHAIR: Claus Rinner

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 (MAsc., 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: 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

Larry Fullerton, MA, York (Canada), 1970 — demography, recreation

Sutama Ghosh, PhD, York (Canada), 2006 — immigration and settlement, transnationalism, race and racism

Tony Hernandez, PhD, Manchester, 1998 — GIS, marketing geography, geodemographics, commercial activity

Hersch Jacobs, PhD, Toronto, 1976 — geography of food, rural, analysis of risk

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

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 — sustainable development planning, landscape ecology, global change, spatial analysis

Stephen Swales, MA, Calgary, 1982 — 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

UNIVERSITY OF GUELPH

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1966

GRADUATE PROGRAM FOUNDED: 1968

DEGREES OFFERED: BA, BSc, BSc (Env), MA, MSc, PhD

GRANTED 2015-2016: 22 Bachelors, 15 Masters, 1 PhD

STUDENTS IN RESIDENCE: 335 Majors, 48 Masters, 12 PhD

NOT IN RESIDENCE: 3 PhD, 3 Masters

CHAIR: John Smithers

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 **\$17,330** in Semesters 1 to 3 and **\$11,330** 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 \$17,500 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:

Lorne P. Bennett, PhD, Ottawa, 1989, Associate Professor — physical geography, biophysical processes, wildlife dynamics
Aaron A. Berg, PhD, California Irvine, 2003, Professor — physical geography, hydrology and 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
Noella J. Gray, PhD, Duke, 2009, Associate Professor — political ecology, marine conservation
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
Richard G. Kuhn, PhD, Alberta, 1987, Associate Professor — resource management, environmental assessment, nuclear fuel waste disposal
John B. Lindsay, PhD, Western Ontario, 2005, Associate Professor — GIS and spatial analysis, hydro-geomorphology, and digital terrain analysis
Janet E. Mersey, PhD, Wisconsin, 1984, Associate Professor — GIS, cartography, remote sensing, resource management
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 Keddle, 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 TORONTO

DEPARTMENT OF GEOGRAPHY AND PLANNING
DATE FOUNDED: 1935

DEGREES OFFERED: B.A., B.Sc., M.A., M.Sc., Ph.D.
 Geography; M.Sc. Planning; Ph.D. Planning

GRANTED 9/1/15 - 8/31/16: 696 Bachelors, 13 Masters, 10 Ph.D Geography; 29 M.Sc.Planning; 3 Ph.D. Planning

STUDENTS IN RESIDENCE: 42 Masters, 13 Ph.D.

CHAIR AND GRADUATE CHAIR: Virginia Maclaren
ADMINISTRATIVE ASST: Yvonne Kenny

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 \$16,500 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, Assistant 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
- 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, Associate 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 urban 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* — Geographic IS, remote sensing, fluvial geomorphology
- Glenn Brauen, Ph.D., Carleton University, YEAR, Assistant Professor, Teaching Stream* — cybertopographic 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, Assistant 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, Associate 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., Universite de Montreal, 2000, Associate Professor* — economic geography, entrepreneurship, technology transfer
- Richard J. DiFrancesco, Ph.D., McMaster, 1995, Associate Professor* — urban economic and environmental economics, Canadian North
- 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
- Meric S. Gertler, F.R.S.C.; Ph.D., Harvard, 1983, Goldring Professor of Canadian Studies* — economic development in city-regions, innovation systems, comparative capitalisms
- 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
- Ju Hui Judy Han, Ph.D., Berkeley, 2009, Assistant Professor — religion and secularisms, travel and mobilities, gender and sexuality, urban political geography, East Asia (Korea)
- L. D. Dany 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
- Thembela Kepe, Ph.D., Western Cape, South Africa, 2002, Associate 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
- Jason Kovacs, Ph.D., University of Waterloo, 2009, Assistant Professor — Cultural planning and public art, heritage conservation, monuments and public memory, cultural tourism
- Nicole Laliberté, Ph.D., Pennsylvania State, 2013, Assistant Professor, *Teaching Stream* — anti-oppression pedagogies, feminist geopolitics, critical geographies of development, militarization
- Igor Lehnherr, 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
- Minelle Mahtani, Ph.D., University College, London, 2000, Associate Professor — critical "mixed race" theory, women of colour in geography and planning, media and minority representation, geographies of media, diversity and inclusion in pedagogy in geography
- Deborah McGregor, Ph.D., Toronto, 2000, Associate Professor — traditional environmental knowledge, First Nations and land/environment issues, Aboriginal environmental and resource management, Aboriginal health/education, sustainable forest management, water management and first nations
- 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
- Raj 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, Assistant 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 and 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
- Vincent B. Robinson, Ph.D., Kent State, 1978, Associate Professor — geographic information science, ecological modeling, spatial analysis
- 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, Associate 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, Assistant 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

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, and spatial optimization

Kathi Wilson, Ph.D. Queens, 2000, Professor — health geography and First Nations studies

Jun Zhang, Ph.D. Minnesota, 2007, Assistant 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

Gunter H. K. Gad, Ph.D., Toronto, 1976, Professor Emeritus — office location and business linkages, urban historical

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

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., and Ph.D., Ph.D.-Water

GRANTED 9/15-8/31/16: 130 Bachelors, 50 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 638 Bachelors; 85 Masters, 54 Ph.D.

NOT IN RESIDENCE: 9 Masters, 3 Ph.D.

CHAIR: Richard Kelly

DEPARTMENT ADMINISTRATIVE MANAGER: Susie Castela

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Associate Chair Undergraduate Studies, Geography Program: Dr. Merrin Macrae. E-mail: mmacrae@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. Brent Doberstein. E-mail: bdoberst@uwaterloo.ca

Department of Geography and Environmental Management, University of Waterloo, [200 University Avenue West](http://200.UniversityAvenueWest), Waterloo, Ontario, Canada N2L 3G1. Telephone (519) 888-4567, ext. 32433. E-mail: geogchair@uwaterloo.ca Internet: <https://uwaterloo.ca/geography-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; Earth System Science; Geomatics; Development and Environment. 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 in the joint program who are registered at the University of Waterloo. The total number of students registered in the joint program is 103 Masters, 85 Ph.D. in residence and 12 Masters, 5 Ph.D. not in residence.

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: <http://geograd.uwaterloo.ca/>

FACULTY:

Jean Andrey, Ph.D., Waterloo, 1989, Professor — transportation, climatic hazards
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
Judith Cukier, Ph.D., Waterloo, 1996, Associate Professor — tourism, gender and development, marine parks, Southeast Asia, Caribbean
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 — Ph.D., 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

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

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

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., University of 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

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

Gorety Dias, Ph.D., Guelph, 1998, Assistant Professor — life cycle assessment (LCA) and social and environmental issues in supply chains

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

Bryan Grimwood, Ph.D., Carleton, 2012, Assistant Professor — Geographies of nature-based travel, tourism, outdoor recreation, and leisure; Tourism ethics and environmental responsibility; Arctic tourism, livelihoods, and special places; Community-based participatory research; Experiential education and outdoor learning

Keith Hipel, Ph.D., Waterloo, 1975, Professor — the 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.

Ed Jernigan, Ph.D., MIT, 1975, Professor — Perception in the broadest sense, in particular vision and image processing, pattern recognition, non-linear and adaptive systems; More generally, systems thinking and design as knowledge integration

Jane Law, Ph.D., New Brunswick, 2000, Associate Professor — GIS and spatial analysis methodologies and their applications in public health

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, 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

Dawn Parker, Ph.D., University of California at Davis, 2000, Associate Professor — Development of integrated socio-economic and biophysical models of land-use change; Agent-based modeling; Complexity theory; Geographic information systems; Environmental and resource economics

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

Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor — collective decision making

Andrea Scott, Ph.D., Waterloo, 2008, Assistant Professor — using data to improve model predictions

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

Jason Thistlethwaite, Ph.D., Waterloo, 2011, Assistant Professor — climate change governance, private governance, corporate social responsibility, insurance, risk management

Bryan Tolson, Ph.D., Cornell, 2005, Associate Professor — Advanced methods for environmental simulation model development and subsequent use in environmental decision-making; Environmental simulation model calibration, optimization, sensitivity and uncertainty analysis, particularly methods for computationally expensive simulation models.

UNIVERSITY OF WESTERN ONTARIO

DEPARTMENT OF GEOGRAPHY

DATE FOUNDED: 1938

GRADUATE PROGRAM FOUNDED: 1946

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

GRANTED 9/1/15-8/31/16: 17 Bachelors, 37 Honors

(Total), 10 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 62 - 4-Yr B.A., 8 - 3-Yr

B.A., 71 Honors, 29 Masters, 38 Ph.D.

CHAIR: Dan Shrubsole Ph.D.

DEPARTMENT ADMINISTRATIVE OFFICER: Barbara Thomas

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 (M.A., M.Sc. and Ph.D.): The programs emphasize training in research leading to Masters or Ph.D. 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 Ph.D. students complete an approved research proposal prior to registering for the thesis. Ph.D. 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, M.Sc. and Ph.D. programs in Geography (Environment and Sustainability) are offered in conjunction with departments in the Faculty of Science and Faculty of Engineering.

MA and Ph.D. programs in Geography (Migration and Ethnic Relations) are offered in conjunction with Departments in the Faculties of Social Science, and Arts and Humanities.

M.Sc. and Ph.D. programs in Geography (Planetary Science and Exploration) are offered in conjunction with the Centre for Planetary Space and Exploration.

MA, M.Sc. and Ph.D. 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. Ph.D. 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 Assistant for more information.

FACULTY:

Godwin Arku, Ph.D., McMaster, 2005, Associate Professor — urban development
Peter E. Ashmore, Ph.D., Alberta, 1985, Professor — fluvial geomorphology
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
Belinda Dodson, Ph.D., Cambridge, 1990, Associate Professor — development, gender, Southern Africa
Rick Fehr, Ph.D., York, 2010, Assistant Professor — historical relations with First Nations and Canadians
Jason Gilliland, Ph.D., McGill University, 2001, Professor — urban development, children's health
Milford B. Green, Ph.D., Ohio State, 1980, Professor — economic, transportation
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
Isaac Luginaah, Ph.D., McMaster, 2002, Professor — medical, environment health relationships, Canada Research Chair
Jacek Malczewski, Ph.D., Poland, 1987, Professor — economic
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
Micha Pazner, Ph.D., California, 1986, Associate Professor — geographic information systems
Chantelle Richmond, Ph.D., McGill, 2007, Associate Professor — aboriginal health, environmental health. CIHR Early Researcher.
Dan Shrubsole, Ph.D., Waterloo, 1989, Professor and Chair — resources management
C. Christopher Smart, Ph.D., McMaster, 1983, Professor — hydrology, geomorphology
L. Graham Smith, Ph.D., Waterloo, 1982, Associate Professor — resources management
Philip J. Stooke, Ph.D., Victoria, 1988, Associate Professor — cartography, space exploration
James A. Voegt, 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 9/1/15-8/31/16: 46 Masters, 12 Ph.D.

STUDENTS IN RESIDENCE: 103 Masters, 85 Ph.D.

NOT IN RESIDENCE: 12 Masters, 5 Ph.D.

DIRECTOR: Dr. Steven Roberts, Wilfred Laurier University

GRADUATE PROGRAM ADMINISTRATOR: Jennifer
Drowns, Wilfred Laurier University

FOR FURTHER INFORMATION WRITE TO: The Director's
Office, Wilfred 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 MSc/M.A./M.E.S. - (1) the Thesis MSc/M.A./M.E.S. and (2)
the Research Paper M.A./M.E.S. Requirements for the Thesis
MSc/M.A./M.E.S. are five graduate courses and a thesis. Requirements
for the Research Paper M.A./M.E.S. are eight graduate courses and a
research paper. For the Ph.D. (after the M.A./M.E.S./MSc. degree),
course requirements vary with the background and needs of the
candidate. A dissertation is mandatory. Under special circumstances, a
M.A./M.E.S./MSc. 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

Jennifer Baltzer, Ph.D., Toronto, 2005, Associate Professor —
functional basis of plant species distributions, forest ecosystems
including tropical, temperate and boreal forests

Judy Bates, Ph.D., York, 1997, Associate Professor — local labour
markets, gender, self-employment

Alison Blay-Palmer, Ph.D., Waterloo, 2003, Assistant 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, Associate Professor —
coastal geomorphology, physical geography

Barbara Carmichael, Ph.D., Victoria, 1991, Professor — tourism,
recreation, economic development

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

Judith Cukier, Ph.D., Waterloo, 1996, Associate Professor — tourism,
gender and development marine parks, Southeast Asia,
Caribbean

Peter Deadman, Ph.D., Arizona, 1997, Associate Professor — GIS,
resource and environmental management

Jody F. Decker, Ph.D., 1989, York, Associate Professor — native
issues, medical, cultural, historical, women's and environmental
health issues

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, Associate 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 and 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
- Alex Lata, Ph.D., York, 2005, Associate Professor* — environmental citizenship; environmental justice; political ecology; Latin American politics; Chile: environment, energy, resources, indigenous peoples
- Ellsworth LeDrew, Ph.D., Colorado, 1976, University Professor* — climatology, remote sensing
- 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
- Robert McLeman, Ph.D., Guelph, 2005, Associate Professor* — human dimensions of environmental change
- Robert Milne, Ph.D., Wilfrid Laurier, 2003, Assistant Professor* — landscape ecology, environmental monitoring, ecotourism
- Bruce Mitchell, Ph.D., Liverpool, 1969, Professor* — natural resources, water management
- Clare Mitchell, Ph.D., Waterloo, 1986, Associate Professor* — rural, local economic development, retail
- David Morris, Ph.D., Waterloo, 2010, Assistant Professor* — influence of human activities on the conservation of plant genetic diversity
- Alison Mountz, Ph.D., British Columbia, 2003, Associate Professor* — Migration and political geography, struggles over border enforcement, asylum, and detention.
- Brenda Murphy, Ph.D., Guelph, 2001, Associate Professor* — Community vulnerability and capacity in the management of both natural and technological risks and disasters
- 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
- 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, Assistant 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
- Bob G. Sharpe, Ph.D., York, 1990, Associate Professor* — social, economic, development, GIS
- D. Scott Slocombe, Ph.D., Waterloo, 1990, Professor* — resource and environmental management, systems approaches, sustainability, ecosystem and landscape management and assessment
- Micheal 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* — 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
- 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, Associate 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, Associate 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
- 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
- Goretty Dias, Ph.D., Guelph, 1998, Assistant Professor* — life cycle assessment (LCA) and social and environmental issues in supply chains
- 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
- Bryan Grimwood, Ph.D., Carleton, 2012, Assistant Professor* — Geographies of nature-based travel, tourism, outdoor recreation, and leisure; Tourism ethics and environmental responsibility; Arctic tourism, livelihoods, and special places; Community-based participatory research; Experiential education and outdoor learning

- Keith Hipel, Ph.D., Waterloo, 1975, Professor* — the 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.
- Ed Jernigan, Ph.D., MIT, 1975, Professor* — Perception in the broadest sense, in particular vision and image processing, pattern recognition, non-linear and adaptive systems; More generally, systems thinking and design as knowledge integration
- Jane Law, Ph.D., New Brunswick, 2000, Associate Professor* — GIS and spatial analysis methodologies and their applications in public health
- 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, 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
- Dawn Parker, Ph.D., University of California at Davis, 2000, Associate Professor* — Development of integrated socio-economic and biophysical models of land-use change; Agent-based modeling; Complexity theory; Geographic information systems; Environmental and resource economics
- 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
- Vanessa Schweizer, Ph.D., Carnegie Mellon, 2010, Assistant Professor* — collective decision making
- Andrea Scott, Ph.D., Waterloo, 2008, Assistant Professor* — using data to improve model predictions
- 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
- Jason Thistlethwaite, Ph.D., Waterloo, 2011, Assistant Professor* — climate change governance, private governance, corporate social responsibility, insurance, risk management
- Bryan Tolson, Ph.D., Cornell, 2005, Associate Professor* — Advanced methods for environmental simulation model development and subsequent use in environmental decision-making; Environmental simulation model calibration, optimization, sensitivity and uncertainty analysis, particularly methods for computationally expensive simulation models

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 9/1/15-8/31/16: 8 Masters, 8 Ph.D.

STUDENTS IN RESIDENCE: 304 Majors (Undergraduate),
38 Masters, 38 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: Tarmo Rimmel, 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 — 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, Associate 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

William Found, Ph.D., University of Florida, 1966, Professor Emeritus — landscape analysis, program implementation and evaluation, environmental management, Caribbean islands

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 — 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 Rimmel, 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

J. David Wood, Ph.D., Edinburgh, 1962, Professor Emeritus — frontiers; settlement; landscape transformation; Ontario; conservation

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 9/1/16-5/30/17: 136 Bachelors, 3 Diplomas, 28 Masters

STUDENTS IN RESIDENCE: 1146 Specializations and Majors, 101 Masters, 8 Diplomas, 12 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.

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, 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 Graduate Program Director (M.Sc.) — 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 — Mapping narratives, Cinematic cartography, Geomedia and the geoweb
Collard, Rosemary, Assistant Professor — Critical geographies, Political ecology and economic geography, Wildlife trade and management
De la Lata, Sylvano, 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
Freeman, James, Assistant Professor (LTA), Undergraduate Program Director (Geography) — urban social, cultural and economic geography of Latin America. Rio de Janeiro Mega-events
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 and Graduate Program Director (MEnv) — 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 — Climate change, Global climate modeling
Mulrennan, Monica E., Associate Professor and Chair — 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, Restaurant in Montreal, Gravestones in Iceland and the Caribbean

Patterson, Zachary, Associate Professor — Modeling of transportation, Land-use and their linkages
Rantisi, Norma, Professor — 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
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 9/1/15-8/31/16: 104 Bachelors, 14 Masters, 7 Ph.D.

STUDENTS IN RESIDENCE: 24 Honors, 168 Majors, 169 Minors, 42 Masters, 44 Ph.D.

CHAIR: Nigel Roulet

DEPARTMENT GRADUATE COORDINATOR: Elisa H. David

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.geog.mcgill.ca.

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:

Lea Berrang Ford, Ph.D., Guelph, 2006, Associate Professor — socio-ecological determinants of health
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
James Ford, Ph.D., Guelph, 2006, Associate Professor — integration of social, physical, and health sciences, and indigenous knowledge in climate change vulnerability & adaptation research
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
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, and land system 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, and 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
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 6/1/15-5/31/16: 26 Bachelors, 23 Masters, 1 Ph.D.

STUDENTS IN RESIDENCE: 15 Majors, 26 Masters, 12 Ph.D.

STUDENTS NOT IN RESIDENCE: 22 Masters, 13 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 study at the Université de Montréal is highly internationalized and draws 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 and urbanization; 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, the Geography library and the 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 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 work place.

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 or two professional written reports. 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
Christopher Bryant, Ph.D., London School of Economics, 1970, Full Professor (retired) — 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) — Southeast Asia, Agriculture and environment
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 services

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 — population; metropolitan areas; spatial analysis
Patricia Martin, Ph.D., University of Colorado, 1997, Associate Professor — development, gender, political violence, Latin America
Liliane Perez, Ph.D., University of Victoria, 2011, Assistant Professor — GIScience; complexity theory; forest dynamics
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, Assistant Professor — Canada Research Chair — Atmospheric biogeosciences in High Latitudes
Benoit St-Onge, Ph.D., Université de Montréal, Adjunct Professor — Remote sensing, forestry
Julie Talbot, Ph.D., McGill, 2010, Assistant Professor — biogeography, environmental change, modeling
Rémy Tremblay, Ph.D., Université d'Ottawa, 2000, Adjunct Professor — social and cultural geography, tourism

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 09/2015 – 08/2016 : 54 Bachelors, 23 Masters, and 3 Doctoral degrees

STUDENTS IN RESIDENCE 09/2015 – 08/2016 : 52 Specializations, 52 Masters and 31 Doctoral students

CHAIR: Lynda Bellalite

DEPARTMENT ADMINISTRATIVE ASSISTANT: Marcel Laperle

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

Goze Bertin Bénié, PhD, Laval University (1987), Full Professor — health and epidemiology, agricultural geomatics, natural disasters, civil protection

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), Associate 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), Associate 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 INSTITUCION: Pública, académica

ACTIVIDAD PRINCIPAL DE LA ASOCIACION:

Investigación

FECHA DE FUNDACION: 1947

SITIO WEB: <http://geografia.institutos.filo.uba.ar/>

PARA MAS INFORMACION CONTACTAR: Jorge Oscar Blanco, Director, Puán 480 - 4°1406 - Ciudad Autónoma de Buenos Aires Argentina, Teléfono: 54-11-4432-0606, Fax: 54-11-4432-0121, interno 169 iigeo@filo.uba.ar

MISION 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 Secretaría Académica. Son miembros del Comité: el Director, la Secretaría Académica, el Director del Departamento y los representantes de: investigadores, becarios, estudiantes investigadores y no docentes. Los miembros del Comité son elegidos por sus representantes 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 nuclean 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.

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.

Grupo de Investigación y desarrollo en la Enseñanza de la Geografía – Indegeog 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 Cultura, naturaleza, territorio. De reciente formación, constituye, a partir de preocupaciones surgidas respecto de los procesos 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.

MIEMBROS: El Instituto cuenta actualmente con cerca de 100 integrantes, entre los que se encuentran investigadores con diversos grados de formación, becarios, tesisistas 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 15 títulos en su haber, algunos de los cuales están digitalizados. La segunda publicación activa es la revista electrónica “Transporte y Territorio”: <http://revistascientificas.filo.uba.ar/index.php/rtt>, fundada en 2009, de la cual ya se han editado 11 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. En agosto de 2011 se publicó el N°1 del “Boletín Electrónico”, con el objetivo fundamental de difundir las actividades y la producción del Instituto y estrechar los lazos con la comunidad académica, profesional, política, y con la sociedad en general.

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/a/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. ArcIms.

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 DEL SUR

DEPARTAMENTO DE GEOGRAFIA y TURISMO

FECHA DE FUNDACION: 1956

TITULOS OFRECIDOS de POSGRADO: Doctorado en Geografía y Magíster 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: 1682

Alumnos

CANTIDAD DE ALUMNOS DE DOCTORADO y de MAESTRIA: 72 Alumnos

DIRECTORA DEL DEPARTAMENTO: Mg. Stella Maris Visciarelli

SECRETARIA ACADÉMICA DEL DEPARTAMENTO: Mg. Cecilia Rodríguez

DIRECTOR DEL PROGRAMA DE POSGRADO PARA DOCTORADO: Dr. Roberto Bustos Cara

DIRECTORA DEL PROGRAMA DE POSGRADO PARA MAESTRÍA: Dra. Alicia Campo

SECRETARIA DE POSGRADO: Dr. Jorge O. Gentili

SECRETARIA DE EXTENSIÓN: Lic. María Paula Michalijos

PARA MÁS INFORMACIONES, FAVOR DE ESCRIBIR A: LIC. 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 InterésRegional-), 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 tesis.

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.

Tecnicatura 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

Bustos, Roberto Nicolas—Desarrollo Territorial y Geografía Regional Argentina

Campo, Alicia Maria—Geografía Física

Caramelli, Sabrina Maricel—Turismo y Organización de los Servicios Turísticos

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

Garritz, Eduardo Julio—Geografía Urbana

Geraldi, Alejandra—GIS y Teledetección

Gil, Valeria—Congresos y Convenciones

Gil, Verónica—Geografía Física

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

Melo, Walter—Cartografía Náutica

Minervino, Mario Roberto—Patrimonio Histórico y Cultural

Monachesi, Alejandra—Gestión Ambiental y Metodología de la Investigación Rural

Perez, María Ines—Técnicas y Metodología de la Investigación en Geografía

Piccolo, María Cintia—Hidrografía y Oceanografía

Prieto, María Natalia—Didáctica y Práctica de la Geografía

Rodriguez, Cecilia—Planeamiento Turístico

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

Uboldi, Julio Alberto—GIS y Teledetección

Vaquero, Maria Del Carmen—Planificación Turística y Geografía de los Recursos Turísticos
Visciarelli, Stella Maris—Geografía América y Oceanía y Geografía Turística
Zingoni Segatori, Jose María—Gestión del Patrimonio Urbano

UNIVERSIDAD NACIONAL DE MAR DEL PLATA

FACULTAD DE HUMANIDADES DEPARTAMENTO DE GEOGRAFÍA

DATE FOUNDED: 1991

DEGREES OFFERED: Profesorado en Geografía,
Licenciatura en Geografía

MAJOR: Problemática Territorial Argentina

POINT OF CONTACT: Prof. Titular Ana Maria Liberali,
email: geofhum@mdp.edu.ar. Prof. Adjunta: Adriana
Martínez. Ayudante de Primera: Ana Laura Berardi

FOR FURTHER INFORMATION WRITE TO: Facultad de Humanidades-UNMDP
Funes humana@mdp.edu.ar. <http://www.mdp.edu.ar/>. Teléfax: (0223) 475-2277.

PROGRAMS AND RESEARCH FACILITIES: 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 se 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: Físico-natural, Social, Instrumental operativa, 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.

Objetivos: Que los alumnos determinen la influencia de los procesos socioeconómicos en la organización y apropiación del territorio nacional. Que los alumnos analicen las relaciones centro-periferia y sus consecuencias socioterritoriales sobre el territorio argentino. Que los alumnos apliquen los conceptos analizados al estudio de las regiones Argentinas.

- UNIDAD 1: Análisis Regional. Formación espacial, formación social y formación regional. El sistema internacional. Políticas macroeconómicas e inserción regional.
- UNIDAD 2: Fases de Desarrollo. Proceso de asignación de los recursos. Implicancias socio territoriales de la inserción de la Argentina en el mercado mundial.
- UNIDAD 3: El Territorio Argentino. Límites, fronteras e integración. Aparato productivo. Circuitos comerciales y conectividad. Aspectos demográficos. Sistema regional.
- UNIDAD 4: Región Pampeana. Inserción en el contexto internacional. Análisis socio-económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 5: Región del Noroeste Argentino. Inserción en el contexto nacional. Análisis socio económico. Consecuencias político-territoriales. Problemáticas regionales.

- UNIDAD 6: Región del Noreste Argentino. Inserción en el contexto nacional. Análisis socio económico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 7: Región de Cuyo. Inserción en el contexto nacional. Análisis socioeconómico. Consecuencias político-territoriales. Problemáticas regionales.
- UNIDAD 8: Región de Patagonia. Inserción en el contexto nacional. Análisis socio-económico. Consecuencias político-territoriales. Problemáticas regionales.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Se denominan *Becas de Investigación* a los estipendios que, a título de promoción, sin implicancia alguna de relación laboral, se abonan para la formación de recursos humanos en investigación en el ámbito de la Universidad Nacional de Mar del Plata, a estudiantes, graduados y docentes, que deseen perfeccionar su formación en disciplinas científicas, tecnológicas, humanísticas y sociales.

UNIVERSIDAD NACIONAL DE TUCUMÁN

FACULTAD DE FILOSOFIA Y LETRAS INSTITUTO DE ESTUDIOS GEOGRAFICOS "Dr. Guillermo Rohmeder"

DATE FOUNDED: 1940 y refundado en 1981

DIRECTOR: Dra. Ana Isabel Rivas (2007-2009)

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 respondido 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 el 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.
Secretaria: 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.

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 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.

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 Gozálves Kreuzer, Docente Emérito, Planificación Territorial, Geografía Urbana y Rural, Geografía Regional

Msc. Fransisco 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 - AGB

TYPE OF INSTITUTION: Sociedade profissional/

Associação científica

PRIMARY ACTIVITY: Pesquisa

DATE OF FOUNDATION: 1934

PUBLICATIONS: Revista Terra Livre

http://www.agb.org.br/index.php?option=com_content&view=article&id=32&Itemid=26

WEBSITE: www.agb.org.br

FOR INFORMACION CONTACT: José Gilberto de Souza, 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 Amazonense 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 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.

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 solo 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, secretário, 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@yahoo.grupos.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: vicosa@agb.org.br
Seção Local Vitória-ES: agb.vitoria@gmail.com

EVENTO BIANUAL: <http://www.eng2016.agb.org.br/> (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 tratarem 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, Licenciatura (à Distância/Virtuais)

URL PROGRAMA ON-LINE:

<http://www.serverweb.unb.br/matriculaweb/graduacao/curriculo.aspx?cod=3859>
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

CONTATO PROGRAMA DE POS GRADUACAO:

Rafael Sânzio Araújo dos Anjos, geografia@unb.br

CENTROS DE PESQUISA: Instituto de Ciências Humanas

SITE DA INTERNET:

http://vsites.unb.br/ih/novo_portal/portal_gea/index.html

CONTATO PARA MAIS INFORMAÇÕES: Fernando Luiz Araújo Sobrinho, Chefe de Departamento, Brasília,
Telefone: 0xx61.3107.7253, geografia@unb.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO O curso de Geografia na Universidade de Brasília é ministrado há 39 anos. Desde a sua criação consolidou-se como grande formador de profissionais no mercado local e nacional. Atualmente, o curso conta com 307 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, 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. **OBJETIVOS DO CURSO** O curso visa a formação de professores de ensino básico e médio e pesquisadores. O aluno formado em Licenciatura pode exercer sua profissão dando aulas de Geografia de Primeiro e Segundo graus, tanto em escolas públicas quanto particulares. Com o Bacharelado concluído, o aluno torna-se apto a entrar no mercado de trabalho 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 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

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 relativos as

disciplinas didático pedagógicas. 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. O curso é gratuito, pois é oferecido por instituição pública de ensino federal.

PROFESSORES:

CHEFE DO DEPARTAMENTO: Fernando Luiz Araujo Sobrinho
Doutor em Geografia Área de Pesquisa: Geografia do Turismo, Rede Urbana, Desenvolvimento Urbano e Regional

SUBCHEFE DO DEPARTAMENTO: Ercília Torres Steinke Doutora em Geografia Área de Pesquisa: Climatologia, Recursos Hídricos e Gestão Ambiental

COORDENADOR: Dante F.C. Reis Jr Doutor em Geografia Área de Pesquisa: História e Teoria da Geografia, Ensino de Geografia

DOCENTE PERMANENTE

Claudia Andreoli Galvão Doutora em Economia Área de Pesquisa — Desenvolvimento Regional, Descentralização Industrial, Novas Territorializações

Everaldo Batista Costa Doutor em Geografia Área de Pesquisa — Geografia Cultural, Urbana e do Turismo

Gloria Maria Vargas Doutora em Geografia Área de pesquisa — Geografia Política e Econômica. Desenvolvimento Regional

Juan Verdesio Bitancurt Doutor em Cartografia Área de Pesquisa
Lúcia Cony Faria Cidade Doutora em Planejamento Urbano e Regional Área de Pesquisa — Planejamento Urbano e Regional

Marli de Oliveira Sales Doutora em Pedagogia Área de Pesquisa — Metodologia do Ensino e Aprendizagem em Geografia. Elaboração e avaliação de material didático

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 Sanzio 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 Arnaudo Trancoso Gomes Doutor em Geografia Área de Pesquisa — Cartografia, Fotointerpretação, Sensoriamento Remoto e Sistemas de Informações Geográficas

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

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 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, professorfabiotadeu@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. Dr. Augusto César Pinheiro da Silva Cartografia Escolar: currículo, metodologias e recursos didáticos Coordenadores: Prof. Dr. Cesar Alvarez Campos de Oliveira e Prof. Ms. Ronaldo Goulart Duarte A Produção Audiovisual no Ensino Básico: a Linguagem Imagética como Recurso para a Educação Geográfica Coordenadores: Prof. Dr. Rejane Cristina de Araujo Rodrigues e Prof. 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, spgcce@uel.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Ciências Exatas – CCE

SITE DA INTERNET: <http://www.geo.uel.br/>

CONTATO PARA MAIS INFORMAÇÕES: Rosana Figueiredo Salvi, Vice-Coordenadora do Mestrado em Geografia, Departamento de Geociências 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 e uma sala que é a sede do NEMA – Núcleo de Estudos em Meio Ambiente. Conta com 7 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 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
Alice Yatiyo Asari — Geografia da população, Planejamento urbano e regional, Geografia e ensino
André Celligoi — Gestão de recursos hídricos subterrâneos
Angela Cristina Alves de Melo — Análise Ambiental Planejamento, Urbano e Ambiental
Angelo Spoladore — Geologia, Geomorfologia, Análise ambiental, Gestão de recursos hídricos subterrâneos
Carlos Alberto Hirata — Geografia Física
Claudio Roberto Bragueto — 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 Pinease — Geologia, Geomorfologia, Análise ambiental, Geografia e turismo
Lúcia Helena Batista Gratão — Geomorfologia, Geografia e ensino, Análise ambiental
Luciano Nardini Gomes — Topografia, Georreferenciamento, Conservação de Solos
Márcia Siqueira de Carvalho — Geografia agrária, Geografia e ensino, Geografia da saúde, Epistemologia da geografia
Marcos Antonio Fávaro Martins — Geopolítica
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
Nilza A.P. Freres Stipp — Análise ambiental de áreas impactadas, Análise ambiental em ciências da Terra, Uso, ocupação e manejo do solo
Omar Neto Fernandes Barros — Cartomática, Geoprocessamento
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
Rodrigo Vitor Barbosa Sousa — Hidrologia, Geomorfologia Fluvial, Geoprocessamento, 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
Vespasiano de Cerqueira Luz Filho — Topografia, Geodésia, Economia do Meio Ambiente, Urbanismo
Wladimir Cesar Fuscald — Análise regional, Planejamento urbano e regional, Geografia e ensino, Análise ambiental, Recursos naturais

UNIVERSIDADE ESTADUAL DO OESTE DO PARANÁ

COLEGIADO DO CURSO DE GEOGRAFIA, CAMPUS DE MAL. CÂNDIDO RONDON

FUNDADO: 1997

PROGRAMAS: Licenciatura; Mestrado

CONTATO PROGRAMA DE LICENCIATURA:

rondon.col.geografia@unioeste.br

CONTATO PROGRAMA DE POS GRADUACAO:

mestradogeografia.mcronon@gmail.com

CENTROS DE PESQUISA: Centro de Ciências Humanas, Educação e Letras

SITE DA INTERNET:

<http://www.unioeste.br/cursos/rondon/geografia/>

CONTATO PARA MAIS INFORMAÇÕES: Colegiado do Curso de Geografia: (45) 3284-7851

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

APRESENTAÇÃO: O Curso de Geografia do Campus de Marechal Cândido Rondon iniciou suas atividades acadêmicas no ano de 1997. Desde a sua implantação, buscou-se desenvolver as atividades de ensino, pesquisa e extensão, respondendo à necessidade de formação de professores de Geografia para atuar no ensino fundamental e médio

da região. Atualmente, 120 alunos compõem o corpo discente. **HABILITAÇÕES:** O Curso de Geografia oferece habilitação na área de Licenciatura. São abertas 40 vagas por ano para alunos ingressantes. As disciplinas são realizadas no período noturno. A carga horária total é de 2.920 horas. Para a conclusão do curso, o aluno deve permanecer na universidade no mínimo 4 anos e no máximo 7 anos.

OBJETIVOS DO CURSO: 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 voltados à formação do professor.

O ESTUDANTE DE GEOGRAFIA: O estudante necessita desenvolver competências e habilidades que contribuam para a formação do geógrafo em sua integralidade, aliando ensino e pesquisa, bem como capacitem de forma sólida para o exercício da profissão.

LABORATÓRIOS: Os laboratórios e grupos de pesquisa que integram o curso de Geografia são: o Grupo Multidisciplinar de Estudos Ambientais (GEA); o Laboratório de Ensino de Geografia (LEG); o Laboratório de Estudos Regionais (LABER); o Grupo de Estudos Fronteiriços (GEF); o Laboratório e Grupo de Pesquisa Geografia das Lutas no Campo e na Cidade (GEOLUTAS); e o Grupo de Ensino e Práticas de Geografia (ENGEO).

PROGRAMA ACADÊMICO, REQUISITOS DE ADMISSÃO, AJUDA FINANCEIRA: O aluno ingressante cursa 2920 horas/aula, distribuídos em disciplinas de formação geral (17 disciplinas), de formação diferenciada (5 disciplinas), estágio supervisionado (3 disciplinas), trabalho de conclusão de curso (1) e atividades acadêmicas complementares (200 horas). O curso é gratuito, oferecido por instituição pública.

PROFESSORES:

COORDENADOR:

Fábio de Oliveira Neves. Doutor em Geografia — sustentabilidade; governança do ambiente urbano e gestão de resíduos sólidos.

DOCENTE PERMANENTE:

Edson Belo Clemente de Souza. Doutor em Geografia — Geografia Urbana e Regional; planejamento urbano e regional; fronteira; metropolização; turismo.

Edson dos Santos Dias. Doutor em Geografia Humana — Ordenamento territorial e meio ambiente; conflito socioambiental e unidades de conservação da natureza; conflito socioambiental em áreas urbanas

Ericson Hideki Hayakawa. Doutor em Sensoriamento Remoto — Geotecnologias (sensoriamento remoto e geoprocessamento) e suas aplicações em geografia e geociências.

José Edézio da Cunha. Doutor em Geografia Física — Análise integrada da paisagem; compreensão da relação solo - relevo

Karin Linete Hornes. Doutora em Geografia — Análise de paisagens subtropicais; feições geomorfológicas (Campos Gerais); geoturismo; análise ambiental e geografia da saúde.

João Edmilson Fabrini. Doutor em Geografia — movimentos sociais, lutas camponesas, assentamentos de sem-terra, reforma agrária, cooperativas agrícolas.

Márcia Regina Calegari. Doutora em Agronomia — estudo do solo como registro de mudanças ambientais; análise de fitólitos aplicada em estudos de reconstrução paleoambientais e coleções de referências.

Maristela Ferrari. Doutora em Geografia — Fronteira; limite; interações transfronteiriças e cidades gêmeas.

Marli Terezinha Szumilo Schlosser. Doutora em Geografia Humana — Ensino de Geografia e Geografia Agrária.

Mateus Marchesan Pires. Mestre em Geografia — Ensino de Geografia

Oscar Vicente Quinões Fernandez. Geociências e Meio Ambiente — Bacia hidrográfica; dinâmica fluvial; restauração de cursos fluviais.

Tarcísio Vanderlinde. Doutor em história — Agricultura familiar e camponesa; história; globalização; mediações; geografia e religiosidades; migrações; identidades e ambiente.

Vanda Moreira Martins. Doutora em Agronomia — Ciências Exatas e da Terra; Geografia Física; Pedologia; Geomorfologia; Meio Ambiente.

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:

- Profa. Dra. Andréia Medinilha Pancher* — Cartografia, Cartografia Temática, Geoprocessamento
- Prof. Dr. Adler Guilherme Viadana* — Biogeografia de Sistemas Aquáticos; Evolução da Paisagem Geográfica
- Profa. Dra. Ana Tereza Caceres Cortez* — Biogeografia, Ecologia, Recursos Naturais
- Prof. Dr. Anderson L. H. Christofolletti* — 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
- Profa. Dra. Bernadete Castro Oliveira* — Antropologia Social Patrimônio Cultural e Meio Ambiente, Ensino de Antropologia
- Profa. Dra. Cenira Maria Lupinacci da Cunha* — Geomorfologia Cartografia, Geomorfológica Análise Ambiental
- Profa. 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
- Profa. 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
- Profa. 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
- Profa. Dra. Maria Isabel Castreghini de Freitas* — Cartografia Sensoriamento remoto aplicado à análise ambiental Sistema de Informação Geográfica (SIG)
- Profa. Dra. Maria Juraci Zani Dos Santos* — Geografia Física, Climatologia, Agroclimatologia, Bioclimatologia
- Profa. 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*
- Profa. Dra. Sandra Elisa Contri Pitton* — Climatologia Aplicada e Qualidade Ambiental e de Vida
- Prof. Dr. Sérgio dos Anjos* — Cartografia Geoprocessamento
- Profa. Dra. Silvana Maria Pintaudi* — Geografia do Comércio, Serviços e do Consumo, Geografia Urbana
- Profa. Dra. Silvia Ap. Guarniéri Ortigoza* — Geografia Humana do Brasil; Geografia Regional e Geografia Urbana

Profa. 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, mestrado geografia@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
Adelsom 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 Goetttert, 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
Emílio 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:

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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, 246geografia@igc.ufmg.br; posgeog@igc.ufmg.br

PROGRAMAS E INSTITUIÇÕES DE PESQUISA:

A 246geografia246 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 246geograf 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 246geogra 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 246geografia da UFMG se destaca nas áreas de Geomorfologia, pedologia, Geografia e meio ambiente, recursos hídricos, 246geografia246gí, 246geografia urbana e 246geografia social. O Departamento de Geografia funciona no Instituto de Geociências da UFMG. Conta com 246geogra 246geografia246gí (Laboratório de Geomorfologia; Laboratório de Geoprocessamento, etc.), biblioteca e 246geografia. 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 246geografia246. 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 246geografia. São contemplados 4 cidades de Minas Gerais, totalizando 160 alunos. O curso é 246geografia 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 246geograf 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 246geograf 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 246geografia246 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 246geografia246 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 cursá-las no curso noturno e vice-

versa (no caso da licenciatura). Para isto, basta que o aluno siga as 247eografia247 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, 247eogra cursar as disciplinas exigidas. A duração média da complementação é de um ano e meio. Ocorrem duas entradas por ano no curso de 247eografia, 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 247eografia247gí 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
Janise Bruno Dias (Dra.) — Biogeografia; geografia e meio ambiente Situação funcional: Professor Adjunto E-mail: janisebruno@yahoo.com.br Telefone: 3409-5438 Sala: 325
Magda Luzimar de Abreu (Dra.) — Climatologia Situação funcional: Professor Associado E-mail: magda@csr.ufmg.br Telefone: 3409-6233 Sala: 313

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Maria Luíza Grossi Araújo (Dra.) — Geografia agrária; geografia humana Situação funcional: Professora Adjunto E-mail: mluizagrossi@bol.com.br Telefone: 3409-5436 Sala: 321
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Valéria de Oliveira Roque Ascenção (Dra.) — Prática de ensino em geografia; geografia e educação Situação funcional: Professor Adjunto E-mail: valeriaroque@gmail.com Telefone: 3409-5493 Sala: 329
Vilma Lúcia Macagnan Carvalho (Dra.) — Geomorfologia; geografia e meio ambiente Situação funcional: Professor Associado E-mail: vlmc@ufmg.br Telefone: 3409-5435 Sala: 311
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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: wrwalves.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
Josicleida Domiciano Galvino, 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

* *Taís 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.cfh.ufsc.br/geografia/>

CONTATO PROGRAMA DE BACHARELADO: Valmir
Volpato, volpato@cfh.ufsc.br

BACHARELADOS OUTORGADO ANUALMENTE: 20

CONTATO PROGRAMA DE POS GRADUACAO:

Juliana Blau, secpgeo@cfh.ufsc.br

POS GRADUACAO OUTORGADO ANUALMENTE: 20

CENTROS DE PESQUISA: Centro de Filosofia e Ciências
Humanas

SITE DA INTERNET: <http://www.cfh.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@cfh.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.cfh.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 integralmente, 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 deseja 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 Emilia Nogueira Locho — Cartografia
 Walquíria Krüger Corrêa — Rural Curriculum Vitae Lattes

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):** Meri Lourdes Bezzi
 (meribezzi@yahoo.com.br)

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 Plena 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 (atildarosa@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) — Geostatística.
Carmen Rejane F. Wizniewsky (carmenrejanefw@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 (silveriufsm@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:

Rivaldo Mauro de faria (rivaldo.faria@ufsm.br)

COORDENADOR DE GRADUAÇÃO:

Sandra Ana Bolfe (sabolfe@hotmail.com)

COORDENADOR PROGRAMA DE PÓS-GRADUACAO:

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André Weissheimer de Borba

Andrea Valli Nummer

Átila Augusto Stock da Rosa

Bernardo Sayão Penna e Souza

Benhur Pinós da Costa

Carlos Alberto da F. Pires

Carmen Rejane F. Wizniowsky

Cássio Arthur Wollmann

Cesar de David

Edgardo Ramos Medeiros

Eduardo Schiavone Cardoso

Eliane Maria Foletto

Gilda Maria Cabral Benaduce

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Luis Eduardo de Souza Robaina

Mauro Kumpfer Werlang

Meri Lourdes Bezzi

Rivaldo Mauro de Faria

Roberto Cassol

Romário Trentin

Sandra Ana Bolfe

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: Gersa

Gonçalves Moura, cocgeo@pontal.ufu.br

SITE DA INTERNET: <http://www.facip.ufu.br/geografia>

CONTATO PARA MAIS INFORMAÇÕES: Gersa 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 Portuêz — 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; Geoeecologia; 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, alexandrarochoa@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/agrícolas, 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: 25

SITE DA INTERNET: www.geografia.ufrj.br

CONTATO PARA MAIS INFORMAÇÕES: Prof. Dr. William Ribeiro da Silva, Chefe de Departamento, e Prof. Dr. Scott Hoeffle, Coordenador da Pós-Graduação, Email: ppgg.geografia@ppgg.igeo.ufrj.br, Telefone: +55 21 2590-9534, Fax: +55 21 2590-1880. Av. Athos da Silveira Ramos, 274. Prédio do CCMN, Bloco I, Sala 25. CEP 21941-916 - Cidade Universitária. Rio de Janeiro, RJ, Brasil

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 Luíza Coelho Netto — Geomorfologia, hidrologia e geoecologia
Ana Maria de Lima Daou — Geografia e História
Ana Maria de Souza Melo Bicalho — Geografia Agrária
Andre de Souza Avelar — Hidrologia
Antonio José Teixeira Guerra — Geomorfologia
Antonio Paulo de Faria — Geomorfologia
Carla Bernadete Cruz Madureira — Sensoriamento Remoto
Claudio Egler — Geografia Econômica e Geografia Regional
Dieter Muehe — Geomorfologia Costeira
Eduardo José Pereira Maia — Ensino de Geografia
Elizabeth Feitosa da Rocha de Souza — Sensoriamento Remoto
Eve-Anne Buhler — Geografia Econômica e Geografia Agrária
Flavia Lins de Barros — Geomorfologia Costeira
Frédéric Monié — Geografia dos transportes, Geografia econômica e Geografia Regional
Gisela Aquino Pires do Rio — Geografia Econômica e regional
Gislene Aparecida dos Santos — Geografia da População
Iná Elias de Castro — Geografia Política
Jorge Xavier da Silva — Geoprocessamento
Josilda Moura — Geomorfologia
Julia Adão Bernardes — Geografia Agrária
Letícia Parente Ribeiro — História do Pensamento Geográfico e Geografia política
Lia Osorio Machado — Geografia Política e História do Pensamento Geográfico

Manoel do Couto Fernandes — Cartografia e geoecologia
Marcelo Lopes de Souza — Desenvolvimento Sócio-Espacial e Estudos Urbanos
Maria Célia Nunes Coelho — Geografia Humana
Maria Naise de Oliveira Peixoto — Geomorfologia e educação ambiental
Monica dos Santos Marçal — Geomorfologia Fluvial
Nelson Ferreira Fernandes — Pedologia, hidrologia e geomorfologia
Olga Becker — Geografia da População
Paulo Cesar da Costa Gomes — Teoria da Geografia
Paulo Marcio Leal Menezes — Cartografia
Paulo Pereira de Gusmão — Políticas Públicas e Meio Ambiente
Rafael Silva Barros — Sensoriamento Remoto
Rafael Winter Ribeiro — Geografia Política e Patrimônio
Rebeca Steiman — Geografia Política e Geografia Regional
Ricardo Gonçalves Cesar — Biogeografia e
Roberto Lobato Corrêa — Geografia Urbana e Geografia Cultural
Scott Hoeffle — Ecologia Política e Geografia Cultural
Telma Mendes da Silva — Geomorfologia
William Ribeiro da Silva — Geografia Urbana.

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 desenvolvidas 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
Firmiana 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 PROGRAMA 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 têm 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 Ketzer 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

Mario Amarildo Attuati — mestre em Geografia, UFSC, Geoecologia /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 CATOLICA DE CHILE

INSTITUTO DE GEOGRAFIA

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: Metropolitización 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. Magister 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: Ecología; Hidrología; Modelización ecológica; Sistemas de Información Geográfica; Geografía física. Profesor Asistente.

MARTINEZ REYES, CAROLINA — Doctora por la Universidad de Barcelona (España). Magister 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 — Magister 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 — Magister 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, Magister 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).

QUENSE 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. Magister 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 CATOLOGO Y MAS INFORMACIONES,

FAVOR DE ESCRIBIR A: Macarena Barahona Jonas, Jefa de Carrera y Directora de la Escuela de Geografía. Santiago, Chile, Telefono: 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 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.

Daniela Escalona, Geógrafa y Licenciada en Geografía, Pontificia Universidad Católica de Chile. Doctora (c) en Geografía, Pontificia Universidad Católica de Chile.

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, Magíster en Ciencias Agropecuarias Mención en Producción de Cultivos

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. Maria 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 geoprocetamiento 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
 Garrido Lazo René, Doctor en Ingeniería Química
 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: MIGUEL ANTONIO ESPINOSA RICO, PRESIDENTE DEL CONSEJO DIRECTIVO, Carrera 57-B Bis 128-60, Bogotá, Colombia, Telefono: 57-1-6243153, acoge40@gmail.com

MISSION 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 DESARROLLO INSTITUCIONAL Busca encauzar las actividades de la Asociación hacia la creación de la "Casa del Geógrafo", como sede física que albergue actividades de carácter social, profesional y académico en la ciudad de Bogotá. Este programa está orientándose por medio de un plan quinquenal que busca la adquisición y dotación de un inmueble que se inaugurará en el 2017, con motivo del semi-centenario de la Asociación. **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.

MEMBRECIA: MEMBRECÍA 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: El Congreso Colombiano de Geografía se realiza cada dos años; alternamente, se reúne la Convención Colombiana de Pedagogía Geográfica, cada dos años (aproximadamente 250 asistentes al evento)

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, alexcely@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.*

http://www.geopaideia.com/?page_id=217

<http://www.anekumene.com/index.php/revista>

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, Bogota, Colombia, Telefono: (+571)3404244, razoncartografica@gmail.com

MISION: 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 subscriptores 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> <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:

Catalina Merchán Salazar, mageo@uniandes.edu.co

POSGRADOS OTORGADOS ANUALMENTE: 4

SITIO WEB: <http://historia.uniandes.edu.co/>

PARA PEDIR UN CATÓLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Coordinadora Académica: Catalina Merchán Salazar, 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 hasta 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: Profesional en Geografía/

Licenciatura en Ciencias Sociales

SITIO WEB: <http://geografia.univalle.edu.co/>

PARA PEDIR UN CATÓLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Departamento de Geografía, Universidad del Valle, Santiago de Cali, Colombia, Teléfono: (57-2) 3212189, Fax: (57-2) 3303343, departamento.geografia@correounivalle.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 ENTORNO GEOGRÁFICO, de la cual se han editado 13 números. De otro lado, contribuye a la presentación de la propuesta de realizar la Maestría en Geografía. 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 quehacer geográfico, y que cuentan con una infraestructura técnica y tradición investigativa, las cuales servirán de apoyo a la Maestría. Estas son: El Instituto de Abastecimiento y Remoción de Aguas, - CINARA; El Centro de Estudios Regionales, -REGION; El Observatorio Sismológico del Sur-occidente -OSSO 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 2016 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 2014) 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

PLANTA PROFESORAL NOMBRADOS:

Elkin de Jesús Salcedo Hurtado Dr. en Física
Jaime Vásquez Sánchez Dr. Geografía Económica –Social
Rodolfo Espinosa López Magíster en Geografía
Javier E. Thomas Bohórquez Doctor en Geografía
Cecilia Orozco Cañas Msc. en Políticas Públicas y Gestión
Pedro Martín Martínez Toro candidato a doctor en Estudios Territoriales
Luis Marino Santana Rodríguez, Doctor en Cartografía, Sistemas de Información Geográfica y Teledetección
Oscar Buitrago Bermúdez Dr. en Geografía
Zaida Liz Patiño Gómez Dra. en Ciencias Sociales
Ramón Serna Isaza Magíster en Geografía con énfasis en Ordenamiento Territorial
Jorge Rubiano, Dr. en Geografía
Jorge Zapata Salcedo Magíster en Geografía
Wilmar Loaiza Cerón estudiante de doctorado en Clima y Ambiente

CONTRATISTAS:

Julio Julio César Rubio Magíster en Educación Popular y Desarrollo Comunitario
Hernando Uribe Castro Magíster en Sociología
César Castillo, Dr. en Desarrollo Regional e Innovación Territorial
Carlos González Rodríguez Ingeniero Forestal
Ramiro Bonilla Sandoval Msc. en Planificación Urbana
Stella Paredes Especialista en Planificación Urbana y Regional

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) 341- 8158.

E-Mail: geografia@uexternado.edu.co

Internet: http://portal.uexternado.edu.co/irj/portal/anonymouse?guest_us er=sociales&NavigationTarget=navurl://e19058adde7c1bca8ac0da720344db6a

PROGRAMAS E INSTALACIONES DE INVESTIGACION: 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, entrevistas 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 Chenuit, 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, Gobernanza 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: Nohra León Rodríguez

UNDERGRADUATE PROGRAM FOUNDED: 1991

COORDINATOR UNDERGRADUATE PROGRAM:

Jhon Williams Montoya G.

COORDINATOR GRADUATE PROGRAM: Luis Carlos Jiménez Reyes

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.

FOR CATALOG AND FURTHER INFORMATION WRITE TO:

Director del Departamento de Geografía, Carrera 30 45-03, Universidad Nacional de Colombia; Sede Bogotá, Colombia. Telefonos (57-1) 3165025 o 3165000 ext. 16321, 16320, Fax (57-1) 3165025. E-mail address: depgeografi_bog@unal.edu.co

UNDERGRADUATE PROGRAM

DEGREE OFFERED: Professional Geographer

STUDENTS IN RESIDENCE: 221

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: 120

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:

Nohra León, Doctor in Economics Sciences, Universidad Nacional de Colombia, 2003, Associate Professor — Economic Geography, Environmental Studies, Introduction to 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

José Daniel Pabón, Ph.D. in Meteorology, Odessa GMI, former USSR, 1987, Associated Professor — Meteorology and Climatology, Climate Variability and Climate Change, Natural Hazards, Environmental Studies

John-Williams Montoya, Ph.D. in Geographic Sciences (Université Laval, QC, Canada, 2012), Associate Professor — Urban Geography, Theory of the Geography

Luis Carlos Jiménez- Reyes, Doctor in Geography of Development (Université de Bordeaux 3, 1999), Associate Professor — Urban Geography, Regional Geography, Urban and Regional Planning

Juan Manuel Díaz, Dr. rer. nat. (Justus Liebig Universität - Germany, 1985), Associate Professor — Biogeography, Marine Biology

Isabel Duque, Doctor in Human Geography 2008 (Universidad de Barcelona), Associate Professor — Urban Geography, Urban Planning and Management

Astrid Ulloa, Ph. D. in Anthropology (University of California-Irvine, 2003), Titular Professor — Cultural Geography, Political Ecology, Gender Geography

Jeffer Chaparro M., Doctor in Human Geography (Universidad de Barcelona, 2009), Assistant Professor — Cybergeography, Human Geography, Urban Geography, Geography and Education

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, Ph.D. (c) in Geography (Wilfrid Laurier University - University of Waterloo, Canada, 2004), Associate Professor — Urban Watershed management, Urban Geography, Environmental Geography, and GIS

Gabriel Triana, Doctor (c) in Geography (Universidad Nacional de Colombia, 2009), Associate Professor — Analysis and Spatial Modeling, Geographic Information Technologies

Luis Jorge Gracia, M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 1992, Assistant Professor — Population Geography, Rural Geography

Willington Siabato Doctor (c) in Geographical Engineering (Universidad Politécnica de Madrid, 2009), Assistant Professor — Analysis and Spatial Modeling, Geographic Information Technologies

Luis Gabriel Salas Salazar M.Sc. in Geography, Escuela de Postgrados en Geografía UPTC/IGAC, 2010, Assistant Professor — Political Geography, Human Geography

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 CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Jorge Ruiz, Profesor Asociado, Tunja, Colombia, Telefono: 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
SOCIOLOGICA 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
SEPTIMO 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 DECIMO 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, geografía@ucr.ac.cr Internet:
http://www.geografía.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
Bergoeing 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
Gutiérrez Rojas, Rafael -MSc. Costa Rica — Geografía y Turismo
León Alfaro, Yasmín -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)
Morúa 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: 1 Diplomado, 1 Bachillerato y Licenciatura, 2 Maestrías

GRANTED 2015-2016: Diplomado 29, Bachillerato 64 y Licenciatura 34

STUDENTS: Mestrado 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, Licenciada — 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, Licencaida — 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, Licenciado — Geógrafo, Paisaje y Conservación, Sistemas de Información Geográfica

Solano Mayorga Manuel A., Máster — Sistemas de Información Geográfica y Teledetección

Vega Ramírez Mauricio, Máster — Geografía Humana, Ordenamiento territorial, Gestión Municipal

Adolfo Quesada Román, Geógrafo, Máster — Geografía ambiental, Geomorfología

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 “Geoecología 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. Ricardo Urbina Cepeda, Director (e).
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:
Seniargues E4-676 y Gral. Paz y Miño, 3er. Piso del Edificio del
Instituto Geográfico Militar. Quito – Ecuador

OBJETIVO: El CEPEIGE tiene por objetivo primordial 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 sus instalaciones y laboratorios con los recursos 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 tienen la categoría de eventos de especialización a nivel de posgrado.

Están dirigidos a profesionales de los países americanos vinculados con las ciencias geográficas, y tratan cada año sobre diferentes temas 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 que es un experto internacional especializado en el tema, 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 junio y diciembre de cada año. En la primera fase se imparte instrucción teórico-conceptual sobre el tema central del evento y sus disciplinas de apoyo, mediante la modalidad de clases formales, conferencias especializadas y prácticas de campo. La segunda comprende la realización de trabajos de investigación por grupos en el campo y el laboratorio, y la elaboración de una minitesis 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:

- CATASTRO Y SIG APLICADOS
- GESTIÓN TERRITORIAL CON HERRAMIENTAS DE SIG
- GPS BÁSICO Y AVANZADO
- MODELAMIENTO AMBIENTAL

- MANEJO DE SENSORES REMOTOS & SISTEMAS DE INFORMACIÓN GEOGRÁFICA, CON SOFTWARE LIBRE
- GEOESTADÍSTICA
- DISEÑO E IMPLEMENTACIÓN DE VISUALIZADORES DE MAPAS
- PROCESAMIENTO DIGITAL DE IMÁGENES
- SIG APLICADO A LAS TELECOMUNICACIONES, REDES DE TELEFONÍA, TV POR CABLE, Y FIBRA ÓPTICA, INFRAESTRUCTURA.
- SIG APLICADO A LA GESTIÓN DE AGUA POTABLE, ALCANTARILLADO, AGUAS LLUVIAS Y RIEGO.
- ARCGIS 10, MODEL BUILDER, CREACIÓN Y APLICACIÓN DE MODELOS ESPACIALES MULTITEMÁTICOS.
- MARKETING TERRITORIAL
- APLICACIONES ESPACIALES PARA LA GESTIÓN AMBIENTAL
- SIG APLICADO AL DESARROLLO TERRITORIAL
- MANEJO Y ESPACIALIZACIÓN DE DATOS CENSALES A TRAVÉS DE SIG
- SISTEMAS DE INFORMACIÓN GEOGRÁFICA APLICADO A RIESGOS NATURALES
- PROCESAMIENTO DIGITAL DE IMÁGENES SATELITALES PARA LEVANTAMIENTO DE COBERTURA Y USO DE LA TIERRA. UTILIZANDO SOFTWARE LIBRE
- APLICACIONES ESPACIALES DE ALERTA TEMPRANA A EMERGENCIAS NATURALES
- INFRAESTRUCTURA DE DATOS ESPACIALES, METADATOS Y USABILIDAD

SISTEMAS DE INFORMACIÓN GEOGRÁFICA, BÁSICO, INTERMEDIO Y AVANZADO, como una especialidad del CEPEIGE dedicada a instituciones públicas, privadas y universidades

PONTIFICIA UNIVERSIDAD CATÓLICA DEL ECUADOR

**FACULTAD DE CIENCIAS HUMANAS
ESCUELA DE CIENCIAS GEOGRÁFICAS**

FUNDADA EN: 1989

GRADOS QUE OFRECE: Ingeniería Geográfica y Maestría
ESTUDIANTES ACTUALES: Ingeniería, 320; Maestría, 32
DIRECTOR: Mtr. Galo Manrique

PARA MAYOR INFORMACION ESCRIBIR A: Galo Manrique C., Escuela de Ciencias Geográficas, Facultad de Ciencias Humanas, Av. 12 de Octubre 1076 y Roca, Quito-Ecuador. Apartado Postal 17-01-2184. Teléfono: 593-2-2991700 ext. 11979 Directo. E-mail: gmanrique@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.

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 asignaturas instrumentales 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.

Maestría en Desarrollo Regional y Planificación Territorial.

Este programa presencial, se creó por Resolución del CONESUP en el 2006 y tiene por objetivo formar profesionales que logren un dominio de los conceptos metodologías y herramientas de la planificación participativa del territorio para el fomento del desarrollo regional y local, en términos de sustentabilidad.

La estructura académica de este programa contempla módulos sobre: aspectos jurídicos y sociales; técnicas para diagnósticos, cartografía y planificación; aspectos ambientales; aspectos socioeconómicos; enfoque integrado de la—planificación; seminarios temáticos; práctica de campo; y práctica de tesis.

Mayor información del programa de Maestría se puede obtener en la página web de la PUCE o escribiendo a MSc. Azucena Vicuña (avicunaj@puce.edu.ec), Coordinadora del mismo.

Profesores/as:

Se indica el nombre, áreas de interés o materias que dicta:

Sheika Aragundi, Ph.D. — Areas Protegidas, Ecología, Biogeografía
Jorge Campaña, Lic. — Desarrollo Sustentable, Impactos Ambientales, Educación Ambiental

Felipe Valdez Master — Sistemas de Información Geográfica, Cartografía Básica

Fredy López, MSc. — Desarrollo Sustentable, Fotointerpretación, Biogeografía, Geografía Física

Shopia Loayza, MSc. — Edafología

Galo Manrique, Mag. — Geología, Geomorfología, Riesgos Naturales, Cuencas Hidrográficas

Milton Maya — Econ, Economía

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

Santiago Mena, MSc. — Percepción Remota, Cartografía Automatizada

Carlos Nieto, Ph.D. — Agroecología, Recursos Naturales; Proyectos
Franklin Cumbal, Master — Estadística

Antibal Rovalino, Lic. — Meteorología e Hidrología

Patricio Solís, Mtr. — Geografía Rural, Impactos Ambientales

Soledad Vásquez, Mgs. — Espacio y Sociedad, Cartografía Temática
Azucena Vicuña, MSc. — Geografía de la Población, Demografía, Geografía Urbana

Cristina Rosero, Master — Legislación Ambiental

Svetlana Zavgorodniaya, Ph.D. — Geología, Geomorfología, Ordenamiento Territorial, Riesgos Naturales

Jenny Zamora MSc. — Geología geomorfología

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: <http://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 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 4433223865, 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 ligán 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)

EL COLEGIO DE MICHOACÁN

CENTRO DE ESTUDIOS DE GEOGRAFÍA HUMANA-CEGH

FECHA DE FUNDACION: 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

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

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.

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.

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/>).

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 A. C. Zamora, Michoacán, México — Process in Landscapes
Ángeles Alberto Villavicencio, Ph. D. Universidad de Granada, España — Process in Landscapes
Nubia Cortés Márquez, Ph. D. El Colegio de Michoacán A. C. Zamora, Michoacán, México — Process in Landscapes

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

INSTITUTO PANAMERICANO DE GEOGRAFÍA E HISTORIA (IPGH)

FECHA DE FUNDACIÓN: Febrero de 1928
SECRETARIO GENERAL: Rodrigo Barriga-Vargas

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 acciones especializadas 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 México, D.F., teléfonos (52- 55) 5277-5791 / 5277-58888 / 5515-1910; Fax (52-55) 5271-6172, correo electrónico: CooperacionTecnica@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 de 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, Hidrology 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.

Oscar Reyes Pérez, osrp@uaslp.mx

SITIO WEB:

<http://www.uaslp.mx/Spanish/Academicas/fcsh/OFE/Geografia/Paginas/default.aspx>

<http://www.geografiauaslp.com/>

PARA PEDIR UN CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Oscar Reyes Pérez, Coordinador de la licenciatura en Geografía, San Luis Potosí, México, Teléfono: 52-444-8321000; ext. 9231, osrp@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

Carlos Alfonso Muñoz Robles Profesor Investigador de Tiempo Completo Doctor en Ciencias, en School of Environmental and Rural Sciences, University of New England, Australia

Carlos Contreras Servín 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

María Guadalupe Galindo Mendoza Profesora Investigadora de Tiempo Completo Doctora en Geografía, Universidad Nacional Autónoma de México

María Teresa Ayllón Trujillo Profesora Investigadora de Tiempo Completo Doctora en Geografía e Historia, Universidad Complutense, Madrid

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, Doctorado

CENTROS DE INVESTIGACION: Nodo de Innovación Geotecnológica Espacial
Laboratorio de Ciencia y Tecnología de la Información Geográfica

POSGRADOS OTORGADOS ANUALMENTE: 3

SITIO WEB: <http://facgeografia.uaemex.mx/FacGeo/>

URL DE PROGRAMA EN LINEA: 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_mae_g.php
Doctorado
http://facgeografia.uaemex.mx/FacGeo/doctoradogeo/egr eso_DOCGEO.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. Raquel Hinojosa Reyes. Contacto: maegi.uaem@gmail.com

El doctorado en Geografía y Desarrollo Geotecnológico tiene sede en la Facultad de Geografía de la Universidad Autónoma del Estado de México, ubicada en la Ciudad Universitaria de Toluca, Estado de México. Es un programa orientado a la investigación, escolarizado y presencial de tiempo completo que otorga el Grado de Doctor o Doctora en Geografía y Desarrollo geotecnológico. El programa tiene como objeto de estudio “Las dinámicas y procesos espaciales, abordados desde los principios y teorías geográficas y con énfasis en la aplicación y desarrollo de tecnologías de la información geográfica”. Sus líneas de Generación y aplicación del conocimiento son: Innovación y Desarrollo Geotecnológico, Metodologías de la geografía aplicada y Análisis Físico-Geográfico y Socioeconómico. Es un programa de reciente creación, sus primeros alumnos empiezan clases en Agosto del 2017. La coordinadora del Programa es el Dra. Xanat Antonio Nemiga. Contacto: dr.geoydteotec@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_mae_g.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.

El aspirante al programa de Doctorado en Geografía y Desarrollo Geotecnológico deberá contar con el grado de maestría en geografía, geoinformática, geomática, planeación urbana, planeación territorial, ordenamiento territorial, ingeniería geomática, geología ambiental, ciencias ambientales, ingeniería ambiental y otras maestrías estrechamente relacionadas con los procesos geoespaciales, conforme al objeto de estudio del programa.

Sus cualidades incluirán capacidad de análisis y síntesis, disposición y actitud para el trabajo interdisciplinario. Deberá tener experiencia por lo menos inicial en el desarrollo de investigaciones y en la preparación de documentos académicos. Adicionalmente es deseable un nivel básico en el uso y manejo de las tecnologías de la información geográfica. Para mayores informes se sugiere consultar la página http://facgeografia.uaemex.mx/FacGeo/doctoradogeo/egreso_DOCGE_O.php.

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* — Geointustrial, 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. Email: cmp@xanum.uam.mx. Information also available at: http://dcsh.izt.uam.mx/licenciaturas/geografia_humana/.

PROGRAMS AND RESEARCH FACILITIES: Faculty 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):

Cristobal Mendoza, Ph.D. Kings College, London — geography of population, migration, quantitative methods
Rocio Rosales, Ph.D. National Autonomous University of Mexico (UNAM) — economic geography, regional planning, local economic development, political geography and geography of Mexico
Ludger Brenner, Ph.D Universität Trier — geography of tourism, environmental governance, environmental studies
Pedro Sunyer, Ph.D University of Barcelona, Spain — geography and history, epistemology of geography
Martín Checa-Artasu, Doctor Ph.D University of Barcelona, Spain — local economic development, urban geography
Alicia Lindón, Ph.D., El Colegio de México, México — epistemology of geography, cultural geography, urban geography and qualitative methods
Armando García Chiang, Ph.D, University of Sorbonne, France — economic geography, regional planning, political geography, geography of Mexico
Rafael Calderón Contreras, Ph.D. University of East Anglia — environmental studies, cartography, GIS
Paula Soto, Ph.D, Catholic University of Chile — urban geography, cultural geography, qualitative methods, gender studies

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

GRANTED 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 www.geografia.cucsh.udg.mx geografia.extension@csh.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 Lomelí-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-Torres, 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. Hildelgardo 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

Luis 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-CENTRO DE INVESTIGACIONES EN GEOGRAFÍA AMBIENTAL

GRADOS QUE SE OTORGAN: Maestro en Geografía y
Doctor en Geografía

ALUMNOS EN LA MAESTRÍA: 50

ALUMNOS EN EL DOCTORADO: 36

COORDINADORA ACTUAL: Dra. Carmen Valverde
Valverde

ASISTENTE ACTUAL: Dra. Socorro Audifred

JEFE DE POSGRADO EN EL CAMPUS MORELIA: Dr.
Pedro Sergio Urquijo Torres

**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,
posgradociiga@ciga.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 casos, es deseable que el estudiante se incorpore a un proyecto de investigación que realice su tutor.

PLAN ACADÉMICO, REQUISITOS DE ADMISIÓN, AYUDA FINANCIERA: 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 casos, 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.
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, Paris, 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 París Soborna — 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.

Maderey 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.

Vieyra Medrano, José Antonio, Doctor en Geografía, Facultad de Geografía e Historia. Universidad Complutense de Madrid — Geografía urbana.

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 DAR O”
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 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: Magister 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 HOTELERIA 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: Magister 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: Magister 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: Magister 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:

Magister Ascela Aguina – Panamá Chiriquí, David. Universidad de Cartago

Magister Michelle Carrillo – Panamá Chiriquí, David. Universidad de Cartago

Magister Luis Hervey – Panamá Chiriquí, David. Universidad de Cartago

Ingeniero, Magister Domingo Espinosa – México, Universidad Autónoma Agraria “Antonio Narro”

Ingeniero, Magister Amael Jiménez – Costa Rica. CATIE

Ingeniero, Magister Cornelio Franco – México, Universidad Autónoma Agraria “Antonio Narro”

Ingeniero Jarvi Quiel – Panamá Universidad de Panamá

Magister Rodrigo Martínez – México, UNAM, Geógrafo. Especialista en Evaluación y Conservación de Recursos Naturales

Magister Gloria E. Hernández de Martínez – México, UNAM, Geógrafa. Especialista en Evaluación y Conservación de Recursos Naturales

Magister Yolanda del C. Aizpurúa – Panamá, UNACHI. Geógrafa, S.I.G.

Magister Arabella C. de Atencio – Panamá, UNACHI. Geógrafa, S.I.G.

Magister Octavio Caballero – Panamá, UNACHI. Geógrafo

Licenciada Edna R. Villamonte de Castillo – Panamá, UNACHI. Geógrafa

Magister Luis A. Díez Ríos – Panamá, UNACHI. Geógrafo, S.I.G.

Magister Catalina Espinosa – Panamá, UNACHI. Geógrafa, S.I.G.

Magister Antonia Ríos de Gutiérrez – Panamá, UNACHI. Geógrafa, S.I.G.

Magister Alexis J. Jiménez B. – México, UNAM. Geógrafo con Especialidad en Evaluación y Conservación de Recursos Naturales

Magister Roque A. Lagrotta G. – Costa Rica, CATIE. Recursos Naturales

Magister Adalides Lezcano C. – España Universidad Complutense de Madrid Geógrafa

Magíster Porfirio Navarro J. – Costa Rica, UCR. Geógrafo
 Magíster Mirza E. Palacios L. – Panamá, UNACHI. Geógrafo, S.I.G.
 Magíster Arturo J. Ríos G. – USA, INDIA. Geógrafo
 Licenciada India Y. Ríos G. – Panamá, UNACHI. Geógrafo, S.I.G.
 Magíster Janeth M. Valenzuela F. – Costa Rica, UCR. Geógrafo.
 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, Geoecología 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
 Molo, 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 GEOGRÁFICAS
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, Yacyreta 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: Dr. Carlos Tavares Correa

**PARA PEDIR UN CATÁLOGO Y MÁS INFORMACIÓN,
FAVOR DE ESCRIBIR A:** Dr. Carlos Tavares Correa, Coordinador
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 4539, FX: (511) 626 2804. Email: ctavare@pucp.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, ONGDs 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 130 créditos
de los cuales, 106 son obligatorios, 15 electivos y 09 de libre
disponibilidad. Los créditos obligatorios se distribuyen en Geografía
Física (31), Geografía Humana (22), Técnicas de investigación y
gestión (33), de Integración entre geografía física y humana (20). Esta
formación balanceada permite a los egresados poder trabajar
indistintamente en el área de geografía cultural o de geografía física,
sin mayores dificultades.

PROFESORADO:

Bernex, Nicole, Dra. Geógrafa, Université de Montpellier —
planificación urbana, geografía minera, percepción ambiental,
educación ambiental, teledetección

Chiarella Quinhoe, José Américo Roberto, Dr. Geógrafo,
Universidad de Rio de Janeiro — planificación nacional,
regional, local

Córdova Aguilar, Hildegardo, Ph.D, Geógrafo, University of
Wisconsin-Madison — biogeografía, geografía económica,
desarrollo rural, problemas urbanos

Goluchowska, Katarzyna, Dra. Geógrafa, Universidad de Varsovia —
Técnicas cuantitativas

Gonzales Hunt, Fernando. Ph.D, Geógrafo, University of Wisconsin
Madison — geografía cultural, técnicas de investigación,
ecología humana

Nagata Shimabuku, Miriam, M.Sc. Geógrafa, Université de Liège,
University of Syracuse — GIS, cartografía

Novoa Goicochea, Zaniel, Magister, 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. — Economía
vegetal

Silva Vidal, Yamina, Dra. Ciencias Atmosféricas — Meteorología,
climatología

Tavares Correa, Carlos, Dr. Geógrafo, Universidade de Sao Paulo —
Estudios Ambientales de zonas litorales, hidrología, edafología

Timaná de la Flor, Martín Enrique. Ph.D. Biólogo, University of
Texas at Austin, Texas. — Ecología, recursos forestales

UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS

MAESTRÍA EN GEOGRAFIA: 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 CATOLOGO Y MAS INFORMACIONES, FAVOR DE ESCRIBIR A: Dra. Alicia HUAMANTINCO 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. Telefono 00511 6197000 anexo 4003

PROGRAMAS E INSTALACIONES DE INVESTIGACION: 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 ACADEMICO, REQUISITOS DE ADMISION, 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 1 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

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

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: geografía@uprrp.edu.

TRINIDAD AND TOBAGO

UNIVERSITY OF THE WEST INDIES, ST. AUGUSTINE

FACULTY OF ENGINEERING

DEPARTMENT OF GEOMATICS ENGINEERING AND LAND MANAGEMENT

DATE FOUNDED: 1983

DEGREES OFFERED: BSc. Geomatics, BSc. Land Management (Valuations), MSc. Geoinformatics, MSc. Urban and Regional Planning; Certificate in Geographic Information System; Postgraduate Diploma in Land Administration.

CONTACT PERSONS: Dr. Bheshem Ramlal, Head of Department. bheshem.ramlal@sta.uwi.edu; Ms Monique Joseph, Secretary, geomaticsenengineering.andlandmanagement@sta.uwi.edu.

CONTACT ADDRESS: Department of Geomatics Engineering and Land Management, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad, West Indies. Phone: 18686622002 ext 82108/82109, Fax: 18686624414, Email: geomaticsenengineering.andlandmanagement@sta.uwi.edu, Website: <http://sta.uwi.edu/eng/surveying/index.asp>

PROGRAMS AND RESEARCH FACILITIES: The Department offers several programs to cater to the needs of the Caribbean region. These include a BSc. Geomatics, a BSc. Land Management (Valuations), MSc. Geoinformatics, MSc. Urban and Regional Planning, Certificate in Geographic Information Systems, Postgraduate Diploma in Land Administration, Master of Philosophy and Doctorate in Geoinformatics, in Urban and Regional Planning and in Surveying and Land Information. The Department through its program offerings and its research focuses on addressing the growing needs of the Caribbean region for Geomatics, Land Management, GIS and Physical Planning professionals and for related solutions. This is especially significant as many small island states are continuing their efforts towards sustainable development and economic prosperity even in light of scarce resources due to the global economic slowdown and the threat of global climate change and sea level rise. These objectives require professionals who understand the spatial characteristics of, and the social, legal, economic, institutional and technical issues related to land and marine resources management. Furthermore they must have the education, methodologies and training to gather, manage, and analyze and use this information and contribute to the decision-making process effectively by developing various options for decision makers amongst others.

The Department has access to a wide array of facilities to support its academic programs and research efforts. The university has a modern library with an extensive collection of books and online databases that are available to students and researchers. In addition, the department has appropriate computer software, hardware and other equipment well suited to the needs of stakeholders.

ACADEMIC PLAN, ADMISSION REQUIREMENTS, AND FINANCIAL AID: Semester System. Program duration: Undergraduate, 3 years; Master of Science, 18 months including Thesis; Master of Philosophy: 2-3 years, Doctor of Philosophy: 3-5 years including Dissertation.

Admission: Undergraduate Program: 6 Points on CAPE Examination or Equivalent; Graduate Programs: A BSc. degree in a related field with a GPA of 3.3 or higher. Financial Aid: Funding available to citizens of Trinidad and Tobago. Limited Funding available to Caricom Nationals.

FACULTY:

Opadeyi, Jacob, BSc, MSc (Lagos), MEng, PhD (New Brunswick), MBA (UWI), MRICS, Professor — Engineering Surveying, Geographic Information Systems, Land Administration
Al-Tahir, Raid, BSc (Baghdad), MSc, PhD (Ohio State), MASPRS (USA), MRSPS PSoc (UK), Senior Lecturer — Photogrammetry, Spatial Analysis, Remote Sensing
Mycroo, Michelle, BA (Hons) (UWI), MSc (Hong Kong), PhD (McGill), MTTSP, MISOCARP, Senior Lecturer — Land Use & Natural Resources Management, Coastal Zone Planning, Planning Law and Administration, Planning Analysis
Ramlal, Bheshem, BSc (UWI), PGDip, MSc (ITC Netherlands), PhD (Maine), Cert. Ed. (UBC), MISTT, MRICS, Senior Lecturer — Cartography, Geographic Information Systems, Surveying
Davis, Dexter, BSc (Hons) (UWI), PhD (Newcastle-upon-Tyne), MISTT, Lecturer — Surveying, Digital Photogrammetry, Geodesy, Adjustment, GNSS

Griffith-Charles, Charisse, BSc, MPhil (UWI), PhD (Florida), MISTT, MRICS, Lecturer — Cadastral Systems Surveying, Cartography, Land Administration

Mohammed, Asad, BSc (Hons) (Waterloo), MRP, PhD (Cornell), MTTSP, Lecturer — Planning & Development, Human Settlements, Land Administration

Sutherland, Michael, Dip. C.S. (CAST, now UTEC), (Hons) MSc, PhD (New Brunswick), MISTT, MCIG, MRICS, Lecturer — Land Information Management

Taylor, Patrice B.Arch. (Tuskegee), MSc (Maryland), Lecturer (Graphics & Design Studio) Blaize, Colvin BSc (UWI), LLB (Univ of London), External Lecturer — Land Law

Boynes-Bardouille, Denia, BSc (UWI), DipEd (UWI) PG Certificate-Education Studies (UWI), External Lecturer — Statistics

Charles, Ainsley, BSc. Surveying and Land Information (UWI), TTLS, MISTT, External Lecturer — Surveying Practice

Grant, Ian BSc (UWI), External Lecturer — Engineering Surveying

Khan, Kameel, BSc (Polytechnic, London), FRICS, External Lecturer — Valuation

Ramos, Ria, BSc (Hons) (UWI), MSc (South Bank), External Lecturer — Valuation

Sultanti-Maharaj, Shelly, BSc, MSc (UWI), External Lecturer — Introduction to Planning

Thomas, Deborah Heather-Dawn, BA, MSc (Oxford Polytechnic), PhD (Cambridge), Lecturer — Planning & Development

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, 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: Área de cartografía: cursos de actualización semi presenciales, sobre el uso de la cartografía y los sistemas de información en el nivel secundario. Área de Astronomía: cursillo de Contenidos astronómicos aplicables a los cursos de Geografía de nivel Secundario. Área 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/cepr/cepr_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 semestres. 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:

Miguel Pineda miquelpineda09@gmail.com . Licenciado en Geografía. UCV, 1976, Profesor Asistente, en Cartografía y Fotointerpretación.
María Arreaza mararr20042003@yahoo.com Lic. en Geografía. 1986, Profesor Instructor, en Economía.
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Anjosé González. deltageo2004@yahoo.es Licenciado en Geografía. 2002-UCV. Maestría en Análisis Espacial Y gestión de Territorio UCV 2012, Profesor Instructor, en Cartografía.
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Castillo Abigail Licenciado en Geografía. UCV, 1988, Master en Manejo de Recursos Costeros, Profesor Contratado, en Geografía Regional. Venezuela III
Julio Cubas . Licenciado en Geografía. UCV, 1984, Profesor Instructor, en Geografía Regional. Venezuela III
Pedro Delfín. Pedrodelfin@cantv.net Maestría en Análisis Espacial y Gestión del Territorio. 2011, Profesor en Asistente, Geografía Regional. Venezuela I y III.
Soledad Sanabria soledad.sanabria@gmail.com. Maestría en Análisis Espacial y Gestión del Territorio 2010. Profesor Instructor, en Inventario y Evaluación de Recursos.
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Vidal Sáez Sáez vidal.saezsaez@gmail.com Dr. en Ciencias, UCV, 2002, Profesor Titular, en Biogeografía y Seminario de Investigación. Coordinador de Investigación en la Facultad de Humanidades y Educación. Coordinador de la Maestría Análisis Espacial y Gestión del Territorio.
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Karenia Cordova karenia@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.

Marisol Salazar marsalazar13@gmail.com *Licenciado en Geografía*, UCV-1983. Instituto de Geografía y Desarrollo Regional. Profesor Instructor, en Análisis Espacial.

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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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Exyeleth EcharryHyyz417@gmail.com *Licenciado en Geografía* 2012 UCV, Profesor Instructor en Sistema de Información Geográfica

Juan Rafael Batista rafaelbati@gmail.com *Licenciado en Geografía* 1995 Profesor Instructor en Introducción a la Teledetección

Mylene Gutierrez gutierrezanulo@yahoo.com MS en Teledetección 2000. *Licenciado en Geografía* 1995. Profesor Asociado en Sistemas de Información Geográfica.

Romer Mena mena58@gmail.com MS en Ciencias 1996, *Licenciado en Geografía* 1984. Profesor Instructor en Cartografía.

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TITLES OF THESES AND DISSERTATIONS COMPLETED 2015-2016

UNITED STATES

ALABAMA

UNIVERSITY OF ALABAMA

Masters (Science):

- Cox, Lauren A "Effects of an Intermediate-Scale Wind Event on Forest Composition, Structure, and Structural Complexity." (Hart, 2016)
- Hoffman, Amanda J "Accessing the Weekend Accessibility of Rutgers University Libraries." (Weber, 2015)
- Jackson, Charles A "Vegetation-Environment Relationships and Species Assemblages in Three Vertical Strata after an Intermediate- Scale Wind Disturbance in a Quercus Forest." (Hart, 2015)
- Pierce, Gregory H "Geomorphologic Response to Tornado Impact in Abrams Creek, Smoky Mountains National Park, Tennessee." (Davis, 2016)
- White, John P "A Spatial Analysis of Management Techniques Used on Nuisance Black Bears in Great Smoky Mountains National Park, USA (1990-2015)." (Steinberg, 2016)

UNIVERSITY OF NORTH ALABAMA

Masters (Science):

- Gillyard, Romeo "Using GIS in the Planning of Response and Recovery to Mass Shooting Events." (Sim, 2016)
- Sayed, Md Abu "Intelligent Parking Management System (IPMS) - A multi agent based model." (Sim, 2016)
- Thompson, Robert "Spatial Equity and Access to Urban Amenities: a GIS Approach." (Koti, 2016)

ARIZONA

ARIZONA STATE UNIVERSITY

PhDs:

- Connors, John "Agricultural Development, Land Change, and Livelihoods in Tanzania's Kilombero Valley." (Turner, 2015)
- Galletti, Christopher "Understanding Environmental Change and Biodiversity in a Dryland Ecosystem through Quantification of Climate Variability and Land Modification: The Case of the Dhofar Cloud Forest, Oman." (Turner, 2015)
- Kelley, Scott "The Transition to Alternative Fuel Vehicles (AFVs): an Analysis of Early Adopters of Natural Gas Vehicles and Implications for Refueling Infrastructure Location Methods." (Kuby, 2015)
- Laura, Jason "A Taxonomy of Parallel Vector Spatial Analysis Algorithms." (Rey, 2016)
- Lyon, Michael "Will Beijing Achieve Global City Status? An Assessment to the Year 2030." (Webster, 2016)

- Sayles, Jesse "Flowing Together: Addressing Social-Ecological Scale Mismatches for Estuary Watershed Restoration in the Whidbey Basin, Puget Sound, WA." (Turner, 2015)
- Seo, Kihwan "Impacts of Transportation Investment on Real Property Values: an Analysis with Spatial Hedonic Price Models." (Kuby, 2016)
- Yu, Wan "Chinese Student Migrants in the Transition Period in the United States: From Human Capital to Social and Cultural Capitals." (Li, 2016)

Masters (Arts):

- Wang, Sizhe "Regional economic inequality analysis: A comparative study of the United States and China." (Rey, Sergio, 2016)
- Wood, "Jessica Synoptic Typing of High Ozone Events in Arizona (2011-2013)." (Cervený, Randall, 2016)

Other: Master of Urban and Environmental Planning (MUEP):

- AlKhaled, Saud "A Framework to Evaluate the Impact of Building Legislation on the Performance of the Built Environment: The Case of Kuwait, a Master-Planned City-State." (Talen, Emily, 2016)
- Li, Jianyi "Wuhan's Changing Peri-Urban Zone: The Case of Dongxihu District." (Webster, Douglas; Pfeiffer, Deirdre, 2016)
- Opejin, Adenike "An Assessment of Regenerative Potential of Organic Waste Streams in Lagos Mega-City." (Pijawka, David, 2016)

NORTHERN ARIZONA UNIVERSITY

Masters (Science):

- Brodie, Mark S. "Factors Influencing Resilience in Flood Response, Recovery, and Prevention: Case Study of The Souris River Valley, Minot, ND." (Hawley, 2016)
- Livingston, Trey M., "Hawaiian Islands Land Trust: North and South Kona Conservation Analysis." (Hawley, 2017)
- Spice, Derik D. "Avalanche Education in Northern Arizona." (Foti, 2016)
- Tafoya, Matthew N., "Using Geographic Information Systems (GIS) to Enhance Campus Safety, Planning, and Building Management." (Hawley, 2016)
- Zanoni, Jennifer M. "Dasymetric Mapping Method and Derermining Farmer's Market Demographics and Accessibility." (Hawley, 2016)

UNIVERSITY OF ARIZONA

PhDs:

- Bae, Jinwon "Concentration in Regional Economics, Environmental Economics, Modeling." (Dall'erba, 2017)
- El Vilaly, Audra "Reassembling the subject: the politics of emotion, care, and environmental memory in abolitionist Mauritania." (Marston, 2017)
- Magrane, Eric "Creative Geographies and Environments: Geopoetics in the Anthropocene." (Marston, 2017)
- Minor, John Jesse "Ecological resilience to disturbance in Madrean ecosystems." (Barron-Gafford, 2017)
- Ranek, Anne "Paradoxical Spaces: Identity and everyday spatial practice among Muslim youth in Copenhagen, Denmark." (Jones, 2017)

Soto, Valente "The Affective and Emotional Geographies of the Secondary Witnesses of Drug-related Violence in Northwest Mexico." (Banister, 2017)

Masters (Arts):

Remington Santiago Franklin
Sarina Nikita Mann
Megan Mills-Novoa
Joseph Patton
Emilie Louise Schur
Christopher Richard Zemp

Masters (Science):

Mohamed Alhmoudi
Kevin R Curley
Elizabeth Frances Delcamp
Cassandra Carrera Fausel
Jennifer Ann Geiger
Alexander L Gerrish
Bree A Gomez
Andrea Kurman Goodbar
Teresa L Gregory
Jered Ross Hansen
Tabitha Lynn Hill
Chloe Jackson
Philippe Luis Huerstel Labadie
Jessica Faye Little
Wilson Lopez Rios
Jacob Marker
Kathleen Markham
Jonathan Andrew Mather
Roland B McIntosh
Jarred Moore
Yajuan Pan
Charles S Perry
Ann Catherine Pettit
Christopher Daniel Quintanar
Guillermo Rodriguez, Jr
Jared Rogers
Gregory John Rothwell
Joshua Schwartz
John David Silva
Steven Jay Steinmetz
Austin John Tracy
Timothy John Villaran
Alayna Wilcox

Masters in Development Practice:

Lee Montgomery Allen
Robin Elizabeth Burke Al-haddad
Ida Nadia Sedjro Djenontin
Chloe J Hein
Ginae Genet Klasek
Paige Klotzman
Elizabeth Lee Koleski
Natalia Perozzo
M Fardous Asem Rahmani
Karla Nohemi Rascon-Garcia
Mona Lisa Paguntalan Teves
Jessica Carol Uren

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

Masters (Arts):

Aguilar, Luis "Shifts in species dominance in a Mediterranean ecosystem under a changing fire regime." (Orme, 2016)
Anagor, Onyekachi "Waste Management and its Impact on the Environment." (Maas, 2016)
Bacic, Andrew "Mapping food deserts and supermarket accessibility in Stockton, California." (Maas, 2016)
Bailey, David "Using SWAT (Soil Water and Assessment Tool) to Evaluate Streamflow Hydrology in a Small Mountain Watershed in the Sierra Nevada, Ca." (Giraldo, 2015)
Choate, Caitlin "Spatial Statistical Analysis of the Effect of Gentlemen's Clubs on Crime in the City of Los Angeles." (Borouhaki, 2015)
Govdyak, Olga "Perceived effects of residential tourism in Belize" (Jackiewicz, 2016)
Hasenhtuttl, Claudia "People's perception of wildlife in urban parks: a case study in the Santa Monica Mountains and Griffith Park." (Davidson, 2015)
March, Chad "Evaluating stormwater flow in an urban environment using GIS a case study in Glendale, California." (Borouhaki, 2015)
Martinez Reyes, Efrén "Fighting for space: A GIS-based spatiotemporal analysis of terrorism in Israel and Palestine." (Graves, 2016)
Most, Madison "Landscape factors associated with exotic plant invasion in Western Riverside County, California." (Adhikari, 2015)
Nordstrom, Matthew "The Growth Effect: Commuter Rail in Southern California." (Davidson, 2015)
Osborn, Amanda "Big Island view towards tourism." (Jackiewicz, 2015)
Prindle, Mark "Sustainable vs. unsustainable: A geographic study of a major metropolitan city and the development of a model to measure levels of sustainability by census tracts in Los Angeles County, California." (Graves, 2015)
Rafii, Afsaneh "A GIS-based analysis of why children do not walk to school in Lomita, California." (Graves, 2015)
Saikali, Lara "What's a scene south? A valuation study of Seattle's music industry." (Graves, 2016)
Serrano, Anabel "Parental involvement among Latino communities in Los Angeles County: geographic study about Latino parental involvement in elementary schools." (Davidson, 2016)
Simental, Luis "Are college-educated minorities also contributing to gentrification in Los Angeles County?" (Maas, 2016)
Suwan, Chontanat "Finding The Most Suitable Location For A New College/University In Los Angeles County." (Borouhaki, 2015)
Tadayon, Mani "Andreas Gursky and the Landscape of Globalization." (Davidson, 2015)
Ulmer, Mark "Where's the rock? An examination of rock music's long-term success through the geography of its artists' origins and its status in the music industry." (Graves, 2015)
Van Buskirk, Joshua "Differentiating Anthropogenic Rangeland Degradation from Climate Variability on Cimarron National Grassland in Morton County, Kansas." (Orme, 2016)

SAN DIEGO STATE UNIVERSITY

PhDs:

Touré, Sory "Urban Land Cover and Land Use Change: Connections to Demography, Health, and Wealth." (Stow, 2017)
Yang, Jiue-An "Spatial-Temporal Analysis of Information Diffusion Patterns with User-generated Geo-Social Contents from Social Media." (Tsou, 2017)

Yang, Shuang “Exploring reciprocal relationships between payments for ecosystem services (PES) and the associated coupled human and natural systems (CHANS): A case study of Fanjingshan National Nature Reserve (FNNR), China.” (An, 2017)

Masters (Arts):

Allen, Jason “Evaluating differences in riparian vegetation in semi-arid watersheds of San Diego County.” (Biggs, 2017)
 Coronado, Alejandra “Spatial Associations and Network Dynamics Between the Vaccine Exemption Discussion in Twitter and the Corresponding Geographic Space” (Tsou, 2017)
 Delgado, Emanuel “Unintended Consequences of “Gentefication” in Barrio Logan.” (Swanson, 2017)
 Taugher, Sean “Segregation’s Impact on Latino and African-American Educational Attainment in Charlotte, North Carolina” (Weeks, 2017)

Masters (Science):

Granovskaya, Yelena “Mapping Agricultural Change in the Imperial and Mexicali Valleys, 2000-2014.” (Biggs, 2017)
 Hicks, Bridget “Collaborative Efforts Towards Connectivity Conservation: A Case Study of the Yellowstone to Yukon Conservation Initiative.” (Levine, 2017)
 Huang, Cheng-Chia “Developing a Data Mining Framework to Identify a Sense of Gentrification through Social Media Data: A Case Study Using Instagram Posts in Salt Lake City, Utah.” (Nara, 2017)
 Lee, Ying “Mapping Tourist Behavior Hotspots Through Photo-sharing Service Data.” (Tsou, 2017)

SAN FRANCISCO STATE UNIVERSITY

Masters (Arts):

Ballanti, Laurel “Hyperspectral Tree Species Classification in Muir Woods National Park.” (Blesius, Hines, Kruse, 2016)
 Chasey, Richard “Southeast Farallon Island Seed Bank Characterization.” (Holzman, Hines, Parker, 2016)
 Dicker, Katherine “Sustainable Scuba Diving? Exploiting Conscious Underwater Impact as Influenced by Eco-Perception.” (Donovan, Hines, 2016)
 Doudna, Ellen “Trends in the Water Energy Food Nexus of California’s Central Valley.” (Nanus, Wilkinson, Gurdak, 2016)
 Maher, Suzanne “Bio-micrometeorology of a Sierra Nevada Montane Meadow.” (Oliphant, Davis, 2016)
 Miller, Jill “Animal Geography and Wildlife Interpretation of Urban Bats.” (Wilkinson, Blecha, 2016)
 Pervin, Rubaya “Identifying Changes in Mangroves in Trat Province, Thailand and Koh Kong Province, Cambodia.” (Hines, Blesius, Baldwin, 2016)
 Studwell, Anna “Predicting Nonresident Seabird Foraging Habitat to Inform Conservation Planning” (Hines, Holzman, Jahncke, 2016)

Masters (Science):

Barnes, Allison Haley “An Object-Oriented Classification of Impact Craters Using Lunar Reconnaissance Orbiter Data.” (Blesius, Davis, 2016)
 Greig, Nathaniel “Composition and Analysis of Vessel Speeds off the Coast of Washington State.” (Hines, Liu, 2016)

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PhDs:

Alonzo, Michael “Urban Forest Ecosystem Analysis Using Fused Airborne Hyperspectral and Lidar Data.” (Roberts, 2015)

Cannon, Forest “Influence of Large-Scale Circulation on Dynamics of Extratropical Cyclones and Orographic Precipitation in High Mountain Asia.” (Carvalho, 2016)

Ellwell, Tammy “Reconciling Marine Conservation with Livelihood Development.” (Lopez-Carr, 2016)

Fouad, Geoffrey “Hydrologic Regionalization for Predicting Flow Duration Curves in Ungauged Watershed.” (Hope, 2016)

Goode, Ryan “Rio de Janeiro’s Emerging Olympic Geography: Unraveling the Carioca Pattern of Urban Development.” (Aitken, 2015)

Han, Su Yeon “Discovering Spatial Relationships between Cyberspace and Real Space, and Re-examining Theories in Geography with Social Media and Big Data.” (Clarke, 2016)

Henderikx Freitas, Fernanda “Space-Time variability of bio-optical properties in the Southern California Bight.” (Siegel, 2015)

Hu, Yingjie “Valuing Geographic Information: Extending Information Value Theory Theory in the Context of Human Mobility.” (Janowicz, 2016)

Irmischer, Ian “Space, Time, and Energy in Dismounted Navigation.” (Clarke, 2016)

Lee, Jae Hyun “Travel Behavior Dynamics in Space and Time.” (Goulias, 2016)

Menzer, Olaf “Temporal and Spatial Modeling of Urban Carbon Dioxide Fluxes Using a Data Based Approach.” (McFadden, 2015)

Messina, Alex “Terrigenous sediment dynamics in a small, tropical, fringing-reef embayment.” (Bookhagen, 2016)

Niblett, Timothy “The Anti-Covering Location Problem: new modeling perspectives and solution approaches.” (Church, 2016)

Sadeghi, K. Majid “Optimization Programming for Stormwater Control Measures: Methods for Sizing and Selection.” (Loaiciga, 2015)

Uyeda, Kellie “Temporal variation in southern California chaparral fuel accumulation.” (O’Leary, 2015)

Masters (Science):

Bingham, Nina “Strontium Isotopes Fingerprint Base Cation Sources During Early- Stage Soil Formation on Hawaii in Basalt Flows.” (Chadwick, 2015)

Davis, Adam “Investigating Place Attitudes in Santa Barbara, CA.” (Goulias, 2015)

Newkirk, Andrew “Scaling and the “New Science of Cities”: An Exploration Under Varying Assumptions.” (Couclelis, 2016)

Oyewole, Michelle “Effect of Organic Amendment Application Rate on Nitrous Oxide, Methane, and Carbon Dioxide Emissions: Field Study and Regional Farmer Survey.” (King, 2016)

Phillips, Daniel “Defining the Community of Interest as a Criterion for Boundary Drawing of Electoral Districts.” (Montello, 2016)

Stiefel, Maximilian “Fertility Behavior in Azerbaijan: On the Demographic-Economic Paradox.” (Sweeny, 2016)

Tuholske, Cascade “Climate Change versus Human Population and Development: Hurricanes, Urbanization, and Tourism Impacts on Land change in the Tropical Island Ecosystems of Roatan, Honduras.” (Lopez-Carr, 2016)

Yan, Bo “A Data-Driven Framework for Assisting Geo-Ontology Engineering Using a Discrepancy Index.” (Janowicz, 2016)

Ye, Haiyun “Spatial, Temporal, and Thematic Structure of Volunteered Geographic Information in Social Media Following Different Catastrophic Events.” (Clarke, 2016)

UNIVERSITY OF CALIFORNIA, DAVIS

PhDs:

- Akintunde, Adebayo "The Sociocultural Aspects of HIV/AIDS and Religion in Northern Nigeria." (de la Torre, 2015)
- Choe, Hyeyeong "Biodiversity Conservation Planning for South Korea: Predicting Plant Biodiversity under Climate Change and the Impacts from Forest Conversion Scenarios." (Quinn, 2015)
- Christensen, Elizabeth "The Changing Seasons of Produce Distribution: An Investigation into the Past, Present, and Future of the Produce Supply Chain in California." (Galt, 2016)
- Garoupa White, Catherine "Do You See What I See? Advocates' and Authorities' Social Constructions of Air Pollution in California's San Joaquin Valley." (London, 2016)
- Totton, Gayle "Cultural Competency in Environmental Design and Planning: Building Relationships with California's Native Tribes." (Middleton, 2015)

Masters (Arts):

- Dailey, Naomi "The Chicken or the Egg? Hen Health and Food Safety on California's Pastured Poultry Farms." (Niemeier, 2016)
- de Goede, John "A Methodological Framework for Assessing Urban Forest Resilience in Sacramento, CA, USA." (McPherson, 2016)
- Pearson, Veronica "Examining the Geomorphic Form and Function of the Putah Creek Nature Park Restoration." (Greco, 2015)

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PhDs:

- Alvarez, Luis "Assembling Digital Economies: Geographic Information Markets and Intellectual Property Regimes in the United States and the European Union." (Scott, 2016)
- Antos, Michael "Social-Ecological and Institutional Barriers to Adaptive Water Management." (MacDonald, John Agnew, 2016)
- Ashraf, Cameran "The Spatiality of Power in Internet Control and Cyberwar." (Shin, 2016)
- Dintwe, Kebonye "Assessing potential impacts of climate change on carbon cycle in savanna ecosystems." (Okin, 2016)
- Gleason, Colin "On Rivers." (Smith, 2016)
- Goldstein, Jennifer "Mega-Development, Scientific Expertise, and the Remaking of Indonesia's Degraded Peatlands." (Carney, 2016)
- Grant, Andrew "Belonging and Ethnicity in China's West: Urbanizing Minorities in Xining City on the Eastern Tibetan Plateau." (Agnew, 2016)
- Hammond, Timur "Mediums of Belief: Muslim Place Making in 20th Century Turkey." (Faier, 2016)
- Rovzar, Corey "Conservation of Hawaii's dry forest: An application of habitat suitability modeling, GIS, and field methods." (Gillespie, 2016)
- Slifko, John "Worlds of Print: The Moral Imagination of an Informed Citizenry, 1734-1839." (Entrikin, 2016)
- Willis, Kate "California's Dynamic Landscape: Monitoring Ecological Response to Human Impact and Drought Using Satellite Imagery." (Gillespie, MacDonald, 2016)

Masters (Arts):

- Espósito, Chris "An Evolutionary Theory of Regional Economic Growth and Change." (Rigby, 2016)
- Rietmann, Carsten "Diffusion of Breakthrough Technologies in the United States (1975-2005)." (Rigby, 2016)

UNIVERSITY OF SOUTHERN CALIFORNIA

Masters (Science):

- Alexander, Robert "A Comparison of GLM, GAM, and GWR Modeling of Fish Distribution and Abundance in Lake Ontario." (Karen Kemp, 2016)
- Anderson, Valerie "Historical Ecology of the Split Oak Forest in East Central Florida." (John Wilson, 2015)
- Barnett, Michael "Precipitation Triggered Landslide Risk Assessment and Relative Risk Modeling Using Cached and Real-Time Data." (Jennifer Swift, 2016)
- Becker, Charles "A Spatial Analysis of Veteran Healthcare Accessibility." (Robert Vos, 2016)
- Bengoa, Anne "Automating 'Ethington Transections': A New Visualization Tool." (Philip Ethington, 2016)
- Chien, Wayne "Geospatial Analysis of the Round Fire: A Replication of Burn Severity Analyses in the Sierra Nevada." (John Wilson, 2015)
- Cruz, Hildemar "A Geospatial Analysis of Income Level, Food Deserts and Urban Agriculture Hot Spots." (Daniel Warshawsky, 2016)
- Curtis, Crystal "Preparing for Earthquakes in Dallas-Fort Worth: Applying HAZUS and Network Analysis to Assess Shelter Accessibility." (Karen Kemp, 2016)
- Dean, Brian "Drawing Better Lines: Comparing Commissions to Legislatures on Compactness and Coterminosity." (Robert Vos, 2015)
- Decker, Lindsay "Analysis of Future Land Use Conflict with Volcanic Hazard Zones: Mount Rainier, Washington." (Darren Ruddell, 2016)
- Dowling, Caitlan "Using MAXENT Modeling to Predict Habitat of Mountain Pine Beetle in Response to Climate Change." (Travis Longcore, 2015)
- Enriquez, Annabel Lee "A Contributory Web-Based Application for Documenting Historic Resources: Colonial Era Art Deco Architecture in Hanoi." (John Wilson, 2015)
- Farman, Lance "Validation of Volunteered Geographic Information Quality Components For Incidents of Law Enforcement Use of Force." (Robert Vos, 2015)
- Fitzpatrick, Bryan "Unmanned Aerial Systems for Surveying and Mapping: Cost Comparison of UAS vs Traditional Methods of Data Acquisition." (Jennifer Swift, 2016)
- Gaumnitz, Bennett "Precision Agriculture and GIS: Evaluating the use of Yield Maps Combined with LiDAR Data." (John Wilson, 2016)
- Gonzalez, Jason "Visualizing Email Response Data to Improve Marketing Campaigns." (Jennifer Swift, 2015)
- Gosch, Megan "Geospatial Web Application Development to Access Irrigation Asset Data: Veterans Affairs Palo Alto Health Care System." (Darren Ruddell, 2016)
- Greetan, Joshua D. "The Wildland-Urban Interface in Lassen County, California: A Change Analysis 2000-2015" (Darren Ruddell, 2016)
- Jimenez, Edgar "The Role of Amenities in Measuring Park Accessibility: A Case Study of Downey, California." (Robert Vos, 2016)
- Jin, Jennifer "Installing Public Electric Vehicle Charging Stations: A Site Suitability Analysis in Los Angeles County, California" (Daniel Warshawsky, 2016)
- Johnson, Mark "Evaluating the Utility of a Geographic Information Systems-Based Mobility Model in Search and Rescue Operations." (Karen Kemp, 2016)
- Jones, Charles "The Spatial Effect of AB 109 (Public Safety Realignment) on Crime Rates in San Diego County." (Darren Ruddell, 2016)
- Khan, Ebrahim "A Unified Geodatabase Design for Sinkhole Inventories in the United States." (Karen Kemp, 2016)
- Kingsley, Giles "Distribution and Correlates of Feral Cat Trapping Permits in Los Angeles, California." (Travis Longcore, 2015)

- Kline, Matthew "Modeling Potential Impacts of Tsunamis on Hilo, Hawaii: Comparison of the Joint Research Centre's Schema and FEMA's HAZUS Inundation Scenarios." (Jennifer Swift, 2016)
- Lin, Michelle "Implementing Spatial Thinking with Web GIS in the Non-Profit Sector: A Case Study of ArcGIS Online in the Pacific Symphony" (Robert Vos, 2016)
- Martos, Jason "Visualizing Historic Space through the Integration of Geographic Information Science in Secondary School Curriculums: A Comparison of Static versus Dynamic Methods." (Darren Ruddell, 2016)
- Mattison, Colin "Does the Bay Area have a Social Center?" (John Wilson, 2016)
- McDonald, Brian "Dasymetric Mapping of Building Stocks within HAZUS-FL." (John Wilson, 2016)
- McMahon, Nancy "The Role of GIS in Asset Management: County of Kauai Department of Parks and Recreation: A Need for an Asset Management Program." (Yao-Yi Chiang, 2016)
- Musser, Johnny "Modeling Historic Structure Preservation Candidacy on Fort Ord." (Karen Kemp, 2016)
- Nash, Norman "Detection and Accuracy Assessment of Mountain Pine Beetle Infestations Using Landsat 8 OLI and WorldView2 Satellite Imagery Lake Tahoe Basin-Nevada and California." (Steve Fleming, 2016)
- Nevels, Darryl "Measuring Seasonal Variation in Food Access: A Case Study of Everett, Washington." (Robert Vos, 2016)
- Nienkamp, Mary "Evaluating Surface Casing Depths of Oil & Gas Operations in an Effort to Protect Local Groundwater: A GIS Enabled Process." (Karen Kemp, 2016)
- Novak, Nathan "Predictive Habitat Distribution Modeling of Sperm Whale (*Physeter macrocephalus*) within the Central Gulf of Alaska Utilizing Passive Acoustic Monitoring." (John Wilson, 2016)
- Oyarzun, Megan "Predicting Archaeological Sites in Northeastern California's High Desert using the Maxent Model." (Karen Kemp, 2016)
- Pham, Kacey Johnson "GIS Data Curation and Web Map Application for La Brea Tar Pits Fossil Occurrences in Los Angeles, California." (Jennifer Swift, 2015)
- Pugh, Matthew "Residential Housing Code Violation Prediction: A Study in Victorville, CA Using Geographically Weighted Logistic Regression." (Karen Kemp, 2016)
- Quant, Michael "GIS-Aided Production of Equipment Locator Maps for Metro Rail Maintenance and Support." (Steve Fleming, 2016)
- Ray, James "A User Study of GIS Infused Genealogy with Dynamic Thematic Representation and Spatiotemporal Control." (Robert Vos, 2016)
- Rodriguez, Joel "Walkability Study for School Accessibility: Case Study of the San Juan, Puerto Rico Elementary Schools." (Robert Vos, 2015)
- Schild, Alex "Archaeological Least Cost Path Modeling: A Behavioral Study of Middle Bronze Age Merchant Travel Routes Across the Amanus Mountains, Turkey." (John Wilson, 2016)
- Scobie, David Robert "Design and Implementation of an Enterprise Spatial Raster Management System." (Karen Kemp, 2016)
- Seo, Joanne "An Evaluation of Esri's Tapestry Segmentation Product in Three Southern California Communities: Manhattan Beach, Santa Monica, and Venice Beach." (John Wilson, 2016)
- Smolek, Audra "Spatial Distribution of the Greater Sage-Grouse in the Powder River Basin in Northeastern Wyoming." (John Wilson, 2015)
- So, Shuk Wai "Urban Green Space Accessibility and Environmental Justice: A GIS-Based Analysis in the City of Phoenix, Arizona." (Daniel Warshawsky, 2016)
- Staffel, Christopher "Cartography for Visualizing Anthropogenic Threats: A Semiotic Approach to Communicating Threat Information in 3-D Spatial Models." (John Wilson, 2015)
- Stewart, Nathan "Using Pedestrian Accessibility Indicators to Locate Schools: A Site Suitability Analysis in Greenville County, South Carolina." (Daniel Warshawsky, 2016)
- Titus, Jennifer "Peoples of Washington Historical Geographic Information System: Geocoding Culture using Archival Standards." (Robert Vos, 2016)
- Tsang, Yee Kit "Site Suitability Analysis: Small-Scale Fixed Axis Ground Mounted Photovoltaic Power Plants in Fresno, CA." (Daniel Warshawsky, 2016)
- Ulloa, Kathy "Analyzing the Relationship Between Urban Forests and Ethnicity in West Covina Using GIS and Object-Based Image Analysis." (John Wilson, 2015)
- Underwood, Jamen "Campaign Financing for the U.S. House of Representatives: An Interactive Web Map." (Yao-Yi Chiang, 2015)
- Webster, Faith "Spatial and Temporal Patterns of Long-term Temperature Change in Southern California from 1935 to 2014." (Karen Kemp, 2016)
- Winters, William "Identifying Areas of High Risk for Avian Mortality by Performing a Least Accumulated-Cost Analysis." (Travis Longcore, 2015)
- Wright, Patricia "Predicting the Presence of Historic and Prehistoric Campsites in Virginia's Chesapeake Bay Counties." (Karen Kemp, 2016)

COLORADO

UNIVERSITY OF COLORADO, BOULDER

PhDs:

- Auger, Mason "Boundless, Wild and Free: An Exploration of human-wildlife ecologies in Greater Yellowstone." (Bryan, 2015)
- Jochem, Warren Christopher "Social and spatio-temporal patterns of arsenic exposure and the impacts on respiratory health in rural Bangladesh." (Root, 2016)
- Moukoma, Sithisak "The estimation of the surface energy balance of the North American Laurentian Great Lakes using satellite remote sensing and Merra reanalysis." (Blanken, 2015)
- Petchprayoon, Pakorn "Analysis of Climate Change Impacts on the Surface Energy Balance of Lake Huron. (Estimation of Surface Energy Balance Components: Remote Sensing Approach for Water - Atmosphere Parameterizations)." (Blanken, 2015)
- Rowen, Ian "The Geopolitics of Tourism: mobilities, territory and protest in Taiwan and China." (Oakes, 2016)
- Schubert-Zhang, Amelia "Impacts of Female Out-Migration on Ethnic Korean Communities in China." (Oakes, 2016)

Masters (Arts):

- Baker, Emily Hewitt "Quantifying forest mortality with the remote sensing of snow." (Noah Molotch, 2015)
- Krumminga, Sara "Constructing the Welthauptstadt Germania: Spatialities of Biopower and Sovereign Violence in the Nazi Capital." (Najeeb Jan, 2016)
- McCurdy, Adam "Simulated climate adaptation in stormwater conveyance structures." (William Travis, 2016)
- Yilmaz, Bunyamin "Application of GIS-based fuzzy logic and analytical hierarchy process (AHP) to snow avalanche susceptibility mapping, North San Juan, Colorado." (Mark Williams, 2016)

UNIVERSITY OF COLORADO, COLORADO SPRINGS

Masters (Arts):

- Cook, Justin "A tale of 30 cities: effects of the Great Recession on fertility in America's 30 most populous cities" (Skop, 2015)
- Knaus, Dustin "Temporal risk terrain modeling of aggravated assaults in Colorado Springs, Colorado" (Harner, 2015)
- Santa Cruz, Sara "The UCCS greenhouse and farm: reconnecting people, place, and food" (Havlick, 2015)

- Thomas, Shannon "Differences in rainfall interception losses of three tree species common to Colorado: *Populus tremuloides*, *Picea engelmannii*, and *Pinus ponderosa*" (Holder, 2016)
- Tredway, Jeremy "Exploring the potential impact of low impact development (LID) techniques on runoff and streamflow in the Templeton Gap Watershed" (Havlick, 2015)

UNIVERSITY OF DENVER

PhDs:

- Lavanchy, Gary Thomas "When Wells Run Dry: Water and Tourism Along the Western Coast of Nicaragua." (Taylor, 2015)
- Siraj, Amir Said "Climate driven changes to malaria transmission patterns in Ethiopian highlands." (Sutton, 2015)

Masters (Arts):

- Mooney, Meghan Elizabeth "Pedestrian Mobility in Denver: A Mixed Methods Approach." (Goetz, 2015)
- Scheib, Walter Stanley "Examining the Spatial Aspects of Residential Energy Efficiency: GIS and Survey Analysis in Boulder County, Colorado." (Boschmann, 2015)
- Firmin, Sydney M. "The Spatial Distribution of Terrestrial Stable Carbon Isotopes in North America, and the Impacts of Spatial and Temporal Resolution on Static Ecological Models." (Powell, 2015)
- Quintana, Joseph A. "Crafted Places: The Use of Place in Wisconsin Craft Beer Marketing." (Boschmann 2015)
- Kellner, Grace Catherine "Growing food security: The impact of community gardens on food security in Denver, Colorado." (Powell, 2015)

Masters (Science):

- Bixler, Steven "Classification, Visualization, and Analysis of the Islamic State's Narrative." (Hick, 2015)
- Bowlin, Esther "Utilizing Web-based GIS Applications for Spatial Analysis of Real Estate Appraisal Data." (Hick, 2015)
- Chapin, Scott "Normalizing the Churchill County, Nevada Easement Database." (Hick, 2015)
- Contran, Daniel "Analysis of Atypical Trail Ridge Sands in SE Georgia." (Hick, 2016)
- Cornell, Richard "Assessing the Risk of West Nile Virus on the Age 65 and Older Population Segments in Fort Collins, Colorado." (Hick, 2015)
- Everette, Benjamin "GIS Implementation Plan for Beckley Police Department." (Hick, 2016)
- Flynn, Ted "The New Geospatial Technology Competency Model: Bringing Workforce Needs Into Focus." (Hick, 2016)
- George, Carmen "Locating a Wildlife Corridor for the Wild Tiger in India." (Hick, 2015)
- Gonzales, Bryan "RTS Data Streamliner The Development of a New Data Workflow." (Hick, 2016)
- Hunicutt, Brandi "North Korea: GIS Study of the Slowed Migration of North Korean Refugees." (Hick, 2015)
- Karabensh, Bryn "Habitat Selection of Wolverines: A Geospatial Analysis of Wolverine Movements in Southwest Montana." (Hick, 2015)
- Lopez, Anthony "Selection of a Reanalysis Meteorological Product for Use in Solar Resource Assessment." (Hick, 2015)
- Perry, Leslie "Using GIS to Assess Species Distributions in the Pacific Northwest." (Hick, 2015)
- Rahm, Christopher "Using GIS to Assess Species Distributions in the Pacific Northwest." (Hick, 2015)
- Rhodes, Joseph "Prioritizing Road Segments for Protected Bicycle Facility Provision in the City of Seattle." (Hick, 2016)
- Sevatson, Erin "Who, What and Why: A Statistical and Geospatial Analysis of the Development of the Marcellus Shale in West Virginia." (Hick, 2015)

CONNECTICUT

CENTRAL CONNECTICUT STATE

Masters (Science):

- DeGrazia, Tracy "The Inclusion of Geospatial Techniques and Geographic Information System in the Middle and High School Social Studies Curriculum in Connecticut." (Summers, 2015)
- Kocaba, James "Vegetarianism in Connecticut: Landscapes and their Effect on Dietay Lifestyles Choices" (Pope, 2015)
- Ocasio, Raquel "An Evaluation of Socially Beneficial Experiences Based on Biophillic Integration within the Workspaces of the Mak Twain House and Museum in Relation to the Hierarchical System of Values within Sustainability" (Button, 2015)

UNIVERSITY OF CONNECTICUT

PhDs:

- Huddy, Andrew "Farming Alone: Factors Influencing Farmland Conversion Along the Rural Urban Fringe."
- Johnson, Katharine "Investigating Historic Human-Land Use Dynamics in Southern New England Using LiDAR and Geospatial Analysis."
- Li, Xiaojiang "Investigating Environmental Inequities in Terms of Street Greenery using Google Street View."
- Vorotyntseva, Natalia "Measuring Segregation Patterns and Change: a Co-Location Quotient Approach."

DELAWARE

UNIVERSITY OF DELAWARE

PhDs:

- Buxton, Carly "Evaluating the Effects of the Pacific Decadal Oscillation on Winter Precipitation in the Cascades using a Mixed-Physics WRF Ensemble." (Hanson, 2016)
- Hughes, Christopher ""The impact of land and sea surface variations on the Delaware sea breeze at local scales." (Veron, 2016)

Masters (Science):

- Hudson, Sean "The Effects of Meteorological Conditions on Throughfall Drop Size Distributions Under a Broadleaved Forest Canopy in North Eastern Maryland." (Levia, 2016)
- King, Michalea "The Sensitivity of Arctic Sea Ice to Cloud Radiative Conditions in Spring and Early Summer." (Veron, 2016)

Other:

- Santangelo, Thomas "Development of a Spatially Distributed Model for Estimating Nitrogen Removal in Forested Riparian Buffers." (Claessens, 2016)

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

PhDs:

- Hall III, William. "(Un)Making the Food Desert: Food, Race, and Redevelopment in Miami's Overtown Community." (Hollander, 2016)

- Heck, Charles. "Informal Urban Displacement in Rio de Janeiro: Ecolimits and Disaster Biopolitics in the Favela Santa Marta." (Neumann, 2016)
- Roberts, Oceane. "Negotiating Globalization from Below: Social Entrepreneurship, Neoliberalism, and the Making of South African Subject." (Patil, 2016)
- Roe, Angela. "The Sound of Silence: Ideology of National Identity and Racial Inequality in Contemporary Curacao." (Rahier, 2016)

GEORGIA

GEORGIA STATE UNIVERSITY

Masters (Science):

- Ajewole, Richard "Investigating the Effect of Aluminum Substitution on the Physical and Chemical Properties of Ferrihydrite." (2016)
- Ballow, William "The Evaluation of Measuring Stream Channel Morphology Using Unmanned Aerial System-Based Structure-From-Motion Photogrammetry." (2016)
- Berens, Andrew S. "The use of in situ gamma radiation measurements as a method of determining radon potential in urban environments." (2016)
- Boyd, Tyler "Ontology of Geological Mapping." (2016)
- Franklin-Mitchell, Tara A. "An Analysis of the Community Land Trust Model." (2017)
- Gardner, Daniel J. "A Study of Mineral Impurities within the Georgia Kaolins." (2016)
- Hill, T. Chee "Land Cover Change Impacts on Multidecadal Streamflow in Metropolitan Atlanta GA, USA." (2017)
- Hawkins, Tyler "Surface Charge Characterization of Anatase and Rutile using Flow Adsorption Microcalorimetry." (2016)
- Hinton, Hayden "Land Management Controls on Hydraulic Conductivity of an Urban Farm in Atlanta, GA." (2016)
- Hughes, Jessie "An Evaluation of Late Holocene Sea Level Rise and Anthropogenic Impacts; Jones Narrows Marsh, Chatham County, Georgia." (2016)
- Koslofsky, Eli "Effects of Urbanization on Stream Flashiness in the I-85 Corridor of the Southeastern Piedmont." (2016)
- Neal, Fredrick "Geographic Variation of Radon Gas Concentrations in Relationship to Housing Characteristics In Dekalb County, Georgia." (2016)
- Nikonova, Elena L. "Authigenic Clay Formation and Diagenetic Reactions, Lake Magadi, Kenya." (2016)
- Onibiyo, Samson "Biodegradation of Petroleum Hydrocarbons in Contaminated Coastal Environments, Nigeria." (2016)
- S. Acker, Adam "Spatial Analysis of Environmental Factors Affecting Endangered and Invasive Fish Species on the Belize Barrier Reef." (2016)
- Simpson, Alexandra M. "Authigenic Clays used as Terrestrial Climate Proxies: Locality 80, Olduvai Gorge, Tanzania." (2016)
- Tidwell, Christopher "Deciphering Phosphorus and Aluminum Physiochemical Associations in Paleolake Sediments of Long Pond, GA." (2016)
- Walker, Ryan K. "Interweaving Geochemical And Geospatial Data To Identify High Concentrations Of Metal Contamination From Copper, Lead, And Zinc Within Utoy Creek, Atlanta GA." (2016)

HAWAII

UNIVERSITY OF HAWAII AT MANOA

PhDs:

- Frazier, Abby "The Influence of Large-Scale Modes of Climate Variability on Spatiotemporal Rainfall Patterns & Vegetation Response in Hawaii." (Giambelluca, 2016)
- Milne, Nicole A. "The Remains of Agriculture: Agrarian Projects, Livelihoods & Landscape in East Hawaii, Hawaii Island." (Suryanata, 2016)
- Bernstein, Jennifer M. "Renewing the New Environmental Paradigm Scale: The Underlying Diversity of Contemporary Environmental Worldviews." (Szuster, 2017)

Masters (Arts):

- Dau, Chelsea M. "Deprivation in Paradise: Identifying O'ahu Food Deserts." (McGranaghan, 2017)
- Genco, Brandon M "Biogeographical Analysis of Abyssal Bottom Habitats: Using an Abiotic Province Scheme & Metazoan Occurrence Databases Deep-Sea Biogeographical Analysis." (Beilman, 2017)
- Metzker, Kathryn "Growing Up in the Margins: Rural & Urban Therapeutic Landscapes for Female Human Trafficking Survivors in India." (Mostafanezhad, 2016)
- O'Conner, Robert C. "Mapping & Analysis of Coral Reef Damage Related to Boating in Kaneohe Bay with Unmanned Aerial Systems." (McGranaghan, 2016)
- Shea, Alessandra G. "Coral Disease Trends & Coral Species Composition Change in US Pacific Territories / Cuban Marine Management." (Rieser, 2016)
- Strauch, David A. "Setting Place at the table: The Cultural Biogeography of Mole." (Wester, 2016)
- Wright, Emily C. "The Upshot of Upgrading: Seaweed Farming & Value Chain Development in Indonesia." (Suryanata, 2017)

IDAHO

UNIVERSITY OF IDAHO

PhDs:

- Zhou, Hang "Diagnosis and Estimation of Cryospheric Changes in Central Asia." (Aizen, 2016)

Masters (Science):

- Boyden, Elizabeth "Regulatory floodplain revisions, the National Flood Insurance Program, and future implications: a case study of Ada County, Idaho" (Humes, 2015)
- Courtois, Laura "Potential farm planning strategies for the prevention of modern famines in Malawi using game theory and linear programming methods" (Dezzani, 2015)
- Dong, Ensheng "A comprehensive analysis of travel mode choices for the urban grocery shopping trip: a case study of Salt Lake County, Utah" (Liao, 2015)
- Henry, Kevin "Development of a comprehensive network-based hazard evacuation model: a case study of Balboa Island, California" (Frazier, 2015)
- Matsche, Daniel "A Geographically Weighted Regression Approach to Landslide Susceptibility Modeling" (Humes, 2016)
- Nichols, Lisa (non-thesis, Frazier, 2015)
- Parker-McGlynn, John (non-thesis, Frazier, 2015)
- Putnam, Jenna (non-thesis, Humes, 2015)
- Reber, Joseph "Assessing social vulnerability to the impacts of climate change on forest ecosystems: a case study of the Pacific Northwest" (Frazier, 2015)

ILLINOIS

CHICAGO STATE UNIVERSITY

Masters (Arts):

- Alfraihat, Raja, "Urban Heat Island Analysis Using LANDSAT TM: A Case Study of Chicago," (Mulugeta, 2015)
- Delnavaz, Saeid, "Comprehensive Analysis of Corner Stores and Schools in an African-American Neighborhood in Chicago," (Block, 2015)
- El-Amin, Qaiyim, "The Upcycle of the Former Rank & Son Buick Delaership: A Comparative Study of Sustainable Real Estate Practices," (Burnett, 2015)
- Freihat, Tamara, "Urban Sprawl Analysis and Modeling: A Case Study of Northeastern Illinois," (Mulugeta, 2015)
- Marseille, Muriel, "On Poverty and Sustainability: A Geographic Analysis of Poverty and Green Technology in Urban Chicago," (Block, 2015)
- Onyango, Lilian, A Remote Sensing Analysis of the Impact of Land Cover Change on Surface Temperature in Nairobi: 1984-2010," (Block 2015)
- Roedl, Laura, "Land Use/Land Cover Changes on the Coastal Islands of India and Bangladesh," (Block, 2015)
- Ssepuuya, Fredrick (2016)
- Waarith, Waliyyuudin (2016)

NORTHERN ILLINOIS UNIVERSITY

PhDs:

- Strader, Stephen M. "Changes in the U.S. Tornado Disaster Landscape." (Ashley, 2016)

Masters (Science):

- Bergman, Dustin P. "Using LIDAR to Measure the Urban Forest in DeKalb, IL." (Pingel, 2016)
- Ferguson, Alex P. "Spatiotemporal Analysis of Residential Flood Exposure in the Atlanta, Georgia Metropolitan Area, 1990-2010." (Ashley, 2016)
- Heuer, Casey S. "State of the Community Report: Establishing Viable Recreational Space in DeKalb, Illinois." (Wilson, 2016)
- Heuer, Casey S. "Utilizing GIS and Vulnerability Attributes in Order to Establish Effective Emergency Management Techniques." (Wilson, 2016)
- Irizarry, Ashley C. "Changes in the U.S. Hurricane Disaster Landscape: The Relationship between Risk and Exposure." (Ashley, 2016)
- Moses, Mary R. "Carbon Assimilation of Oak Seedlings Under Canopy Openness Manipulations." (Goldblum, 2016)
- Smith, Sarah E. "Restoration Age and Quality Effects on Dynamic Soil Properties at Nachusa Grasslands in Franklin Grove, IL." (Konen, 2016)
- Whalley, Kyle K. "The Pressure of Society on Water Quality: A Land Use Impact Study of Lake Ripley in Oakland, Wisconsin." (Luo, 2016)

SOUTHERN ILLINOIS, CARBONDALE

Masters (Science):

- Benbella, Diane "An Evaluation and Analysis of Urban Expansion of Kampala from 1995 to 2015." (Wang, 2016)
- Chakraborty, Saurev "A Multiscale Evaluation of Contemporary Climate Models." (Schoof, 2015)

- Deitz, Shiloh "A Spatial Analysis of the Relationship Between Obesity and the Built Environment in Southern Illinois." (Duram, 2016)

- Fucik, Daniel "Effects of the Changing Climate on Hydropower Production in the Sacramento River Watershed and California's Electricity Prices." (Secchi, 2016)

- Haldeman, Brooke "Influence of Synoptic Scale Circulation on Temperature and Equivalent Temperature Extremes in Chicago, IL (1948-2014)." (Schoof, 2015)

- Lukancic, Khara "Sensitivity of Strong Extratropical Cyclones to Large-Scale Climate Variability in the Contiguous United States." (Schoof, 2016)

- Mohamed, Tarig "Monitoring and Analyzing of Desertification Trend in North Sudan Using MODIS Images from 2000 to 2014." (Wang, 2016)

- Rushing, Ann "The Potential for Reconnection on the Lower Illinois River." (Remo, 2015)

- Sockow, Cami "Assessing National Data on the Relationship of Science Education and Environmental Performances." (Duram, 2016)

SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE

Masters (Science):

- Jakson, Sarah "Natural Hazards Perceptions in the United States: Significant Determining Factors and Influences on Where People Live." (Hume, Dec. 2016)
- Klein, John "Mississippian Space and Place: A Geographical Study of Archaeological Site Data in the American Bottom." (Zhou, Apr. 2017)
- Onothoja, Uyoyoghene "Using Satellite Images in Monitoring Wetland Changes in the Cache River Wetlands in Illinois, USA, Between 1987 and 2014." (Odemerho, July 2016)
- Onuoha, Hilda "The Analysis of Urban Growth in Edwardsville, IL Using Remote Sensing and Population Change." (Odemerho, Dec. 2016)
- Tidball, Alex "Human Perceptions of Animals in the St. Louis Region: Prospects for a Transspecies City." (Hanlon, May 2016)

Masters Research Project Presentations:

- Churchwell, Derek "Mapping of Flood Prone Areas in St. Louis, Missouri using Multi Temporal Remote Sensing." (Grossman, May 2017)
- Jones, George "The Effects of Increasing Winter Temperatures on Snow Depth in the Sierra Nevada Mountains of California from 1970-2010." (Grossman, May 2017).

UNIVERSITY OF ILLINOIS, URBANA CHAMPAIGN

PhDs:

- Colette, April "Floods, Favors and Fixes: The Reproduction of Vulnerability in Santa Fe, Argentina." (Ribot, 2015)
- De Leon Alejandro, Jose "Orchestrating Economic Development: Exploring Inter-organizational Networks in the Chicago Metro Area." (Hewings, 2015)
- Fogelman, Charles "Gender, Authority, and the Politics of Land in Lesotho" (Bassett, 2016)
- LeRoy, Jessica "From Meander Bend to Oxbox Lake: Morphodynamics and Sedimentology of Chute Cutoffs."
- Peimer, Alex W "Banking an Offsets: A Political Ecological and Eco-Geomorphic Analysis of Section 404 Compensatory Stream Mitigation Banking in Illinois and Missouri" (Bassett, 2016)

Masters (Arts):

- Fishman, Jamie "Geospatial Analysis of Preventable Emergency Department Visits in Chicago, IL." (Sara McLafferty, 2015)

Grahovac, Ana "Abortion Access in the U.S.: Is it a Fading Reality? A Mixed Methods Approach." (Sara McLafferty, 2015)

Heil, Melissa "Community Development for Whom?: The Role of Community Development Corporations in the Neoliberal City." (Wilson, 2016)

Pavlovic, Nathan "Burning Questions: A Geospatial Analysis of Fire Regime Change in Cote d'Ivoire, 1984-2014." (Greenberg, 2015)

Reents, Courtney "Detection and Characterization of Forest Disturbances in California." (Greenburg, 2016)

Zaimi, Rea "Recycling Citizenship: Infrastructural Transformations and Access Struggles in Dakar's Solid Waste Management System." (Jesse Ribot, 2016)

Zou, Yi "A Contextual Classification Approach for Forest Land Cover Mapping Using High Spatial Resolution Multispectral Satellite Imagery - A Case Study in Lake Tahoe, California." (Greenberg, 2015)

INDIANA

INDIANA UNIVERSITY

PhDs:

Bishop, Catherine "Appropriate Technology in the African Oil Palm Belt: Diffusion, Culture, and Environment." (Lave and Brondizio, 2015)

Gholizadeh, Hamed "Combining Machine Learning and Remotely Sensed Band-ratios to Investigate Chlorophyll Content and Photosynthetic Processes." (Robeson, 2016)

Marshalek, Frank "Cuban Economic Reform: Small Businesses, Household Economic Decision-making, Informality, and Networking." (Conway, 2016)

Roth, Philip "Household Activity Scheduling and Travel Behavior." (Knudsen, 2015)

Savener, Amy "Being in Time: Heideggerean Existential Authenticity and Imperialist Nostalgia in Tourists to Guna Yala, Panama." (Knudsen, 2016)

Vidon, Elizabeth "Co-Constructing the Wild: Adirondack Wilderness and the "Nature Tourist." (Knudsen, 2015)

Masters (Arts):

Antreasian, Carmen "Lacan en pointe: A psychoanalytic analysis of the ballerina." (Knudsen, 2016)

Pomilia, Curtis "The Politics of Social Determinants and the Built Environment in CDC Chronic Disease Prevention." (Lave, 2015)

Masters (Science):

Burke, William "Impacts of Projected Climate Change on Streamflow Timing in Coastal Watersheds of the Western United States." (Ficklin, 2016)

Schmidt, Karly "A 325-Year Reconstruction of St. Joseph River Streamflow Using Tree Rings." (Maxwell, 2015)

INDIANA UNIVERSITY – PURDUE UNIVERSITY INDIANAPOLIS

Masters (Science):

Alhaj Mohamad, Fahed "Retrieval of Aerosol Optical Depth from Modis Data At 500 M Resolution Compared with Ground Measurement in the State of Indiana." (Johnson, 2015)

Baller, Matthew Lee "Comparison of Urban Tree Canopy Classification With High Resolution Satellite Imagery and Three Dimensional Data Derived From LIDAR and Stereoscopic Sensors." (Scott)

Beervall Ravichandra, Kavya Urs "Spatiotemporal analysis of extreme heat events in Indianapolis and Philadelphia for the years 2010 and 2011." (Johnson, 2013)

Bell, Karen Denise "Comparing Methods for Estimation of Daytime Population in Downtown Indianapolis, Indiana." (Scott, 2011)

Bellinger, Nathan "Predictors of Primary Care Physicians Practicing in Medically Underserved and Rural Areas of Indiana." (Zollinger)

Boyd, Kelly D. "Identifying enhanced urban heat island convection areas for Indianapolis, Indiana using space-borne thermal remote sensing methods." (Johnson, 2015)

Burgess, Aaron W. "Determining trip and travel mode from GPS and accelerometer data." (Wilson, 2016)

Compton, Andrea Jean "The correlation of sea surface temperatures, sea level pressure and vertical wind shear with ten tropical cyclones between 1981-2010." (Martin, 2013)

DeLury, Judith Ann "Exploring the Utility of High Resolution Imagery for Determining Wetland Signatures." (Scott, 2011)

Dine, James "A Habitat Suitability Model for Ricord's Iguana in the Dominican Republic." (Ramer)

Douglas, April "A Geographical Comparison of the Relationship Between Aerosol Optical Depth and Fine Particulate Matter in Indiana." (Lulla, 2015)

Ford, Of The "Parallel worlds: attribute-defined regions in global human geography." (Scott)

Gidley, Susan "Using high resolution satellite imagery to map aquatic macrophytes on multiple lakes in northern Indiana (Johnson, 2009)

Hancock, Miranda J. "Predicting Water Quality By Relating Secchi Disk Transparency Depths To Landsat 8." (Lulla, 2015)

Heintzelman, Asrah "Availability of Supermarkets in Marion County." (Scott, 2010)

Hoch, Shawn "Comparing Spatial Measures of the Built Environment for Health Research." (Scott)

King, Steven M. "Predicting locations for urban tree planting." (Johnson, 2014)

Li, Li "Spatio-temporal analyses of the distribution of alcohol outlets in California." (Banerjee, 2014)

McDonald, Joseph P. "Geography: Its Place In Higher Education Enrollment." (Banerjee, 2010)

Porter, Raymond E. "Public perception and response to extreme heat events." (Johnson, 2013)

Randolph, Kaylan Lee "Remote Sensing of Cyanobacteria in Case II Waters Using Optically Active Pigments, Chlorophyll a and Phycocyanin." (Scott)

Rigg, Michelle C. "Tree Mitigation Strategies to Reduce the Effect of Urban Heat Islands in Center Township, Indiana." (Johnson)

Seger, Mandi J. "Medical Imaging Centers in Central Indiana: Optimal Location Allocation Analyses." (Banerjee, 2016)

Severns, Christopher Ray "A comparison of geocoding baselayers for electronic medical record data analysis." (Wilson, 2013)

Simmons, Kenneth Rulon "Extreme Heat Event Risk Map Creation Using a Rule-Based Classification Approach." (Patrick, 2011)

Skehan, Christopher A. "Exploring Spatial Optimization Techniques for the Placement of Flow Monitors Utilized in RDII Studies." (Banerjee, 2010)

Sperl, Benjamin J. "Augmenting Indiana's groundwater level monitoring network: optimal siting of additional wells to address spatial and categorical sampling gaps." (Banerjee, 2014)

Stanforth, Austin Curran "Identifying Variations of Socio-Spatial Vulnerability to Heat-Related Mortality During the 1995 Extreme Heat Event In Chicago, IL, USA." (Johnson, 2011)

Vallely, Lara Anne "Confounding Constituents in Remote Sensing of Phycocyanin." (Scott)

Vavra, Zachary Thomas "Predictive policing: a comparative study of three hotspot mapping techniques." (Lulla, 2015)

Webber, J. Jeremy III "Statistical downscaling of MODIS thermal imagery to Landsat 5m + resolutions." (Johnson, 2013)

Ye, Nan "Comparison between high-resolution aerial imagery and lidar data classification of canopy and grass in the NESCO neighborhood, Indianapolis, Indiana." (Johnson, 2014)

KANSAS

FORT HAYS STATE UNIVERSITY

Masters (Science):

- Fry, Joshua "Redescription of a Specimen of Pentaceratops (Ornithischia: ceratopsidae) and Phylogenetic Evaluation of Five Referred Specimens from the Upper Cretaceous of New Mexico." (Dr. Laura Wilson, 2015)
- Green, John Hunter "Petrophysical Attributes, Depositional Environment, and Diagenetic History of a Mississippian Interval from McPherson County, Kansas, USA." (Dr. Hendratta Ali, 2016)
- Kirchner-Smith, Mackenzie "3d Geometric Morphometrics In Modern And Extinct Foot-Propelled Diving Birds: An Evaluation Of The Tarsometatarsus For Species Identification." (Dr. Laura Wilson, 2015)
- Schaffer, Carol "Construction of High Resolution Contour Maps of Major Oil-Producing Subsurface Layers in Trego, Ellis, Russell, Rush, Barton and Pawnee counties, Kansas using ARCMAP." (Dr. Kenneth Neuhauser, 2015)

KANSAS STATE UNIVERSITY

PhDs:

- Commerford, Julie "Investigating North American Grassland Biogeography throughout the Holocene." (Kendra McLauchlan, 2016)
- Ghimire, Kabita "Geographic Distribution of Malaria in Nepal." (Douglas Goodin, 2016)
- Haddock, Brandon "In Plain Sight: The LGBT Community in the Kansas Flint Hills." (Lisa M.B. Harrington, 2016)
- Haghighattalab, Atena "High-Throughput Phenotyping of Large Wheat Breeding Nurseries using Unmanned Aerial Systems, Remote Sensing, and GIS Techniques." (Douglas Goodin, Jesse Poland, and Kevin Price, 2016)
- Wetherholt, William "Exploring Rootedness in the Very Rural Great Plains Counties of Kansas and Nebraska." (Lisa M.B. Harrington, 2016)

Masters (Arts):

- Bloedel, Penny "Characterizing and Mapping Sediment Erodibility of Tuttle Creek Lake in Northeast Kansas." (Charles W. Martin, 2016)
- Jean, Christy "Hydrological Transitions: A Story of Kansas Watershed Districts." (John A. Harrington, Jr, 2016)
- Larsen, Thomas "Last Child on the Prairie: Geo-Progressions, Mental Maps, and Community-Based Sense of Place among Kansas Third Graders." (John A. Harrington, Jr., 2016)
- Williams, Danielle "Time Series Analysis of Vegetation Dynamics and Burn Scar Mapping at Smoky Hill Air National Guard Range, Kansas using Moderate Resolution Satellite Imagery." (Shawn Hutchinson, 2016)

UNIVERSITY of KANSAS

PhDs:

- Artman, Vincent M "The State and the Sacred: Memory, Theology, and Identity in Kyrgyzstan." (Diener, 2016)
- Elfarnouk, Nouri A. "Squatter Settlements in Tripoli, Libya: Assessing, Monitoring, and Analyzing the Incidence and Prevalence of Urban Squatter Areas in the Peri-Urban Fringe." (Egbert, Myers, 2015)
- Liu, Weibo "Identification, Representation, and Analysis of Convective Storms." (Li, 2016)

- Reiz, Nicole P "An Exploration in International Comparative Legal Geography: Military Status of Forces Agreements (SOFAs), Sexual Violence, and Jurisdiction." (O'Lear, 2016)

Trimbach, David J "Citizenship Capital & Political Power in Estonia." (O'Lear, 2016)

Weichelt, Katie L "A Historical Geography of the Paper Industry in the Wisconsin River Valley." (Shortridge, 2016)

Masters (Arts):

- Hubbard, Matthew F. "A Cartographic Depiction and Exploration of the Boy Scouts of America's Historical Membership Patterns." (Egbert, 2016)
- Kelly, Meghan A. "Mapping Syrian Refugee Border Crossings: A Critical, Feminist Perspective." (Pearce, 2015)
- Lobby, Samuel Y. "Fired Up: Scales of Safety and Federal Wildland Fire Management in the U.S." (O'Lear, 2016)
- Overstreet, Kelly E. "Changing Climate, Static Society? A Survey of Equity, Justice and Vulnerability in U.S. Municipal Climate Plans." (O'Lear, 2016)
- Shanko, Adam R. "Characterizing Woody Encroachment in the Konza Prairie Using Object-Based Analysis of Aerial Photographs." (Egbert, 2016)
- Tappan, Taylor A. "A Cultural Historical Geography of Schools in the Honduran Muskitia." (Herlihy, 2015)
- Vandever, Shaylee "Woody Biomass as an Alternative Energy Source for Ft. Yukon, Alaska." (Johnson, 2016)

Masters (Science):

- Andrzejewski, Kolbe D. "Historical Metamorphosis of the Arkansas River on the Kansas High Plains." (Johnson, 2015)
- Bents, Timothy C. "Understanding the Physical Constraints of Soil Structure and Its Influence on Soil Hydraulic Properties." (Hirmas, 2015)
- Chandler, Hannah E. "Microphysical Precursor Conditions Leading to Precipitation Initiation in Marine Stratocumulus." (Mechem, 2016)
- Foga, Steven C. "Characterization of Ice Melange and its Implications to Terminus Stability at Helheim Glacier, Southeast Greenland." (Van der Veen, 2016)
- Koop, Aaron N. "Pedostratigraphic Influence of Late-Quaternary Sediments and Paleosols on Headwall and Sidewall Canyon Morphology in the Arikaree breaks, Central Great Plains." (Hirmas, Johnson, 2016)
- Thorp, Zachary W. "Agritourism in Kansas: Effects of Distance and Economic Outcomes." (Warf, 2015)
- Zautner, Eric J. "Surface Rock Controls on the Development of Desert Varnish in the Mojave Desert." (Hirmas, 2016)

KENTUCKY

UNIVERSITY OF LOUISVILLE

Masters (Science):

- Noonan, Alan "The Spatial Analysis of the Relationship between Violent Neighborhood Crime Rates and Alternative Gentrification Indicators in Louisville, KY (2010 – 2016)." (Zhang, 2017)
- Poindexter, Michael "Oil, Space, and National Imaginaries: Discursive Productions by Standard Oil New Jersey post WWII." (Walker, 2017)
- Sandifer, Jeremy "Remotely-Sensed Heat: Variation and Change in Surface Urban Heat Islands in a Temperate Eco-region of the United States." (Gaughan, 2017)
- Stone, JD "Colorectal Cancer FIT Screening in the HOPE VI Population of Jefferson County, Kentucky." (Hanchette, 2017)
- Wright, Samuel "An analysis of the relationship between snowpack and groundwater across Utah watersheds." (Day, 2017)

WESTERN KENTUCKY UNIVERSITY

Masters (Science):

- Barringer, Ellen R. (2015) A Mixed Methods Assessment of the Development, Use, and Educational Effectiveness of University Campus Sustainability Tours (Advisor: Leslie North).
- Blackburn, Nathaniel (2016) Apatite Helium Thermochronology of the Blue Nile Canyon, Ethiopian Plateau. (Advisor: Nahid Gani).
- Bledsoe, Lee Anne (M.S. Geoscience 2015) An Investigation of Groundwater Flow in the Vicinity of Patoka Dam, Indiana (Director: Chris Groves).
- Bodine, Tyler (2016) Reservoir Study and Facies Analysis of the Big Clifty Sandstone in South Central Kentucky (Advisor: Michael May).
- Coats, Lamar (2016) The Influence of Tropical Cyclones on Droughts and Warm Season Precipitation in Tennessee and Kentucky (Advisor: Greg Goodrich).
- Devine, Steven M. (2016) Petrographic Controls on Weathering of the Haney Limestone (Advisor: Michael May).
- Ebrahimi, Kianoosh (2015) Zero-Waste Planning at Higher Education Institutions: A Case Study of Western Kentucky University (Advisor: Leslie North).
- Oglesby, Jonathan (2016) An Adaptive Visual Learning Approach for Waterborne Disease Prevention in Rural West Africa (Advisor: Leslie North).
- Salley, D. Connor (2016) Advancing Methods to Measure the Atmospheric CO₂ Sink from Carbonate Rock Weathering (Advisor: Chris Groves).
- Winchester, Jesse N.F. (2015) Emissions From Concentrated Animal Feeding Operations During Wet and Dry Periods in the Southeastern United States (Advisor: Rezaul Mahmood).
- Younger, Keri (2015) Assessing Mesoscale-Equivalent Temperature in Kentucky (Advisor: Rezaul Mahmood).

LOUISIANA

LOUISIANA STATE UNIVERSITY

PhDs:

- Cheetham, Louise Anthea "Curated Landscapes: The Evolution of the Postcard Shot." (Colten, 12/2015)
- Erdem, Mustafa "A Spatial Analysis of Obesity and Its Associations with Built and Natural Environment, Physical Inactivity, and Socioeconomic and Demographic Conditions in the United States of America." (Leitner, 12/2015)
- Fu, Cong "Planning Towards Equal Spatial Accessibility of NCI Cancer Centers Across Geographic Areas and Demographic Groups in the U.S." (F. Wang, 8/2015)
- Hotard, Corey David "Just Throw it in the Pot! The Cultural Geography of Hidden Landscapes and Masked Performances in South Louisiana Gumbo Cooking." (Mathewson, 12/2015)
- Hu, Yujie "Temporal Trends of Intraurban Commuting in Baton Rouge 1990-2010." (F. Wang, 5/2016)
- Jia, Peng "Delineating Hospital Service Areas in Florida Based on Patients' Travel Patterns." (F. Wang, 12/2015)
- Pharr, Lauren "Using GPS Tracking and Long-Term Decomposition Studies to Investigate Vulture Scavenging and Flight Patterns in Relation to a Forensic Anthropology Facility in Texas." (Leitner, 8/2015)
- Powell, Joseph "The Edible Landscape: Plant Breeding, Farming and Sustainability in Northwest Portugal." (Mathewson 5/2016)
- Renken, Katherine "Investigations into Ecogeomorphodynamics of Coastal Embryo Dunes at Padre Island National Seashore, Texas." (Namikas, 8/2015)
- Watkins, Case "An Afro-Brazilian Landscape: African Oil Palms and Socioecological Change in Bahia, Brazil." (Sluyter, 12/2015)

Worms, Jamie "Mental Mapping the Transformation of Social Space in Rio's Oldest Favela: Morro da Providencia." (Sluyter, 8/2015)

Masters (Arts):

- Hurtubise, Jenna "Mortuary Practices and Social Identity at Matrix 101, La Leche Valley, Peru." (Chicoine, 8/2015)
- Jordan, Erin Colleen "Turning the Table Over: Talking Through Race and Power at the New Orleans Jazz Fest Archive." (Regis, 4/2016)
- Miller, Michelle "Ceramic Technology, Production, and Exchange as Seen Through Macroscopic Analysis of Pottery Fragments from the Early Horizon Caylan, Nepena Valley, Peru." (Chicoine, 4/2016)
- Rose, Christy "Metric Variation in the Human Sacrum: Coastal Process Length Among Black and White South Africans" (Tague, 4/2016)
- Siebenkittel, Ray "Glue Sticks and Gaffs: Disassembling the Drag Queening Body." (Regis, 3/2016)
- Warner, Jacob "Production, Discard, and Urban Life at the Early Horizon Center of Caylan, Coastal Peru." (Chicoine, 8/2015)
- Whitten, Ashley "Early Horizon Community Organization and Neighborhoods as Seen Through the Spatial Analysis of Residential Architecture at the Urban Center of Caylan, Peru." (Chicoine, 8/2015)

Masters (Science):

- Bushra, Nazla "Modeling Tropical Cyclone Storm Surge and Wind Induced Risk along the Bay of Bengal Coastline Using a Statistical Copula." (Trepanier, 3/2016)
- Gao, Shu "Shallow Water Depth Inversion Based on Data Mining Models." (L. Wang, 12/2015)
- Huang, Jing "Detecting Spatial Patterns of Blue-green Algae in Harsha Lake using Landsat and Imagery." (L. Wang, 5/2016)
- Pino, Jordan "Impacts of the Three-Dimensional Oceanic Thermal Structure and Translation Speed on Tropical Cyclogenesis and Intensity Fluctuations during the 2005 North Atlantic Hurricane Season." (Rohli, 12/2015)
- Punkasem, Thana-On "Effects of Eather Hazards on Traffic Volume: A case study Focused on Atlanta, GA." (F. Wang, Sathiaraj, 6/2016)
- Robles, Herman Nick "Investigating Prehistoric Exchange in New Zealand: Portable XRF and Spatial Analysis of South Island Obsidian." (McKillop, 8/2015)
- Thomas, Mallory Nance "Tropospheric Ozone Prediction with Land Cover Regression in Baton Rouge, Louisiana." (Rohli, 5/2016)
- Tucker, Clay "Dendrotempestology: Identifying the Statistical Relationship Between Hurricanes and Tree Growth in the Pine Savannas of Coastal Mississippi." (Trepanier, 12/2015)
- Zhang, Lijie "Measuring Primary Health Care Accessibility in Mississippi State Using an Extended Kernel Density 2SFCA Method." (L. Wang, 12/2015)

MASSACHUSETTS

CLARK UNIVERSITY

PhDs:

- Bravo Frey, Alicia Mireya "Bridging knowledges through institutions: The micropolitics of environmental governance in the Oxapampa-Adininka-Yanesha Biosphere Reserve." (Bebbington, 2016)
- Cantor, Alida Anna "Dust Storms and Dying Lakes: Wastefulness, Reasonable and Beneficial Use, and Water Transfers in California." (Emel, Rocheleau, 2016)
- Foo, Katherine Eleanor "Parks & Recreation Departments are not a Joke: Environmental Governance in the AGe of Post-Apocalyptic Climate Change." (McCarthy, Bebbington, 2015)

- Gallagher, Emily Jeanne "Ghana is cocal, Carbon is Ghana Sustaining Cocoa Landscapes and Governing Forest Livelihoods Through Agri-environmental Extension." (Rocheleau, 2015)
- Jarvis, Daniel Steven "Disturbance History and Fuel Consequences of Mountain Pine Beetle in Western Colorado." (Kulakowski, 2015)
- Johnson, Adrienne Eveline, "Participatory Governance, Plant Disease, and Post-Neoliberalism: Governing Ecuador's Palm Oil Industry through the Roundtable on Sustainable Palm Oil (RSPO)." (Bebbington, 2015)
- Kay, Kelly Ann, "Taxes, TIMOs, and Trusts: 21st Century Land Conservation in the United States." (McCarthy, 2016)
- Knudson, Christopher Storr "Climate Risk Insurance in St. Lucia" (McCarthy, 2016)
- Meng, Kathryn-Louise "Transition through Co-optation: Harnessing Carbon Democracy for Clean Energy." (Peet, 2016)
- Nguon, Pheakkdey "Governing REDD in Cambodia Co-production of salient, credible and legitimate policy knowledge." (Bebbington, 2016)
- Petersen-Smith, Khury Joseph "Pivoting to Asia: Sovereignty, Territory, and Militarization." (Davidson, 2016)
- Shelton, John Taylor "Geographies of Data: Toward a Relational Socio-spatial Analysis of Geotagged Social Media Data." (Murphy, 2015)
- Zhang, Yueming "Capitalizing on art, aestheticizing capital: The making and consuming of arts districts in Chinese Cities." (Martin, 2016)

Masters (Arts):

- Arond, Elisa Many, "The Politics of Inclusion in Science, Technology and Innovation for Regional Development in Colombia." (Bebbington, 2015)
- Cantor, Alicia Anna, "Dust storms and dying lakes: Wastefulness, beneficial use, and water transfers in California." (Emel, Rocheleau, 2015)
- Dammert Bello, Juan Luis "Struggles for the rainforest: the politics of oil palm expansion in the Peruvian Amazon." (Bebbington, 2015)
- Elmes, Arthur Francis Marett "The Asian Longhorned Beetle Infestation in Worcester, MA: Impacts, Responses, and Future Vulnerability." (Rogan, 2016)
- Farahani, Alireza Farmahini "Learning in development policy and practice: Inequality reduction and regional development in Iran." (Aoyama, 2016)
- Gill, Nathan "Understanding and predicting current and future regeneration patterns following single and compounded disturbances in the subalpine forests of the Colorado Rockies." (Kulakowski, 2016)
- Esfahani, Azadeh Hadizadeh "Neighborhood as a site of policy and activism: Exploring citizenship, belonging, and identity building in Tehran's neighborhoods." (Martin, 2016)
- Locke, Dexter Henry "A New Look at Residential Ecosystems Management: Heterogeneous Practices and the Landscape Mulets Hypotheses." (Chowdhury, 2016)
- Mietkiewicz, Nathan Paul "Interactions of bark beetle outbreak and fire in subalpine forests of the intermountain United States under a changing climate." (Kulakowski, 2015)
- Santacruz Delgado, Ali Marcel "Anthropogenic Transformation of the Colombian Llanos Savannas and its Impact on Ecosystem Productivity and the Fire Regime." (Rogan, 2015)
- York, Ashley Victoria "Ice-ocean-atmosphere trends and linkages to glacier variability, West Greenland." (Frey, 2016)

MICHIGAN

MICHIGAN STATE UNIVERSITY

PhDs:

- Adams, Ellis "Decentralization, Institutions, and Access to Potable Water in Malawi's Urban and Peri-Urban Informal Settlements." (Leo Zulu, 2016)
- Galvanmiyoshi, Yankuic, "Linking Land Change and Commodity Chains in a Globalizing World: The Case of Mexico." (Robert Walker, 2016)
- Johnson, Laura Bowen "Toward a Relational Agro-Food System: The Case of the Blue Ridge Women in Agriculture High Country Farm Tour." (Gary Schnakenberg, 2016)
- Koh, Keumseok "Geographic Impacts of Federally Funded State-based Obesity Programs on Adult Obesity Prevalence in the United States." (Sue Grady, 2016)
- O'Neil, Glenn "The Future of Groundwater Resources in a Water-abundant Region: Modeling the Impacts of Climate Change and Measuring Social Indicators of Sustainability." (Ashton Shortridge, 2016)
- Santos, Carolina "Complex Land Use and Cover Trajectories in the northern Chocó bioregion of Colombia." (Joseph Messina, 2015)
- Wu, Ruqun, "The Influences of Green Building Design on Building Users." (Jiquan Chen, 2016)

Masters (Science):

- Apps, Deanna "An Analysis of the Soil Moisture-Precipitation Relationship across the Continental United States." (Lifeng Luo, 2016)
- Michalek, Michael "Historic Channel Changes in the Muskegon River, North-Central Michigan, USA." (Alan Arbogast, 2015)
- Molen, Nicholas "A Method for Employing Qualitative Data in the Development of Spatial Agent-Based Models." (Arika Ligmann-Zielinska, 2016)
- Rill, Lydia "Climatology of Springtime Freeze Events in the Great Lakes Region and their Impact on Tart Cherry Yields in Historical and Projected Future Time Frames." (Jeffrey Andresen, 2016)
- Smith, Nicole "Identifying the Best Local-scale Prediction Maps for Dynamic Landscape Patterns of Aquatic Habitats of Anopheline Larvae in Western Lowland Kenya." (Joseph Messina, 2016)
- Yang, Anni, "A Cost-benefit Analysis of Tsetse Fly Control in Tanzania." (Joseph Messina, 2016)

WESTERN MICHIGAN UNIVERSITY

Masters (Science):

- Aardem, Curtis "Residential Property Values and Historic Districts: A Kalamazoo Case Study." (Veeck, 2015)
- Chapman, Keith "A Location Allocation Model for Retention Basin Placement on Vacant Land in Detroit, MI." (Lemberg, 2016)
- Ebenstein, Alexander "Using an Interactive Mobile Application to Crowdsource Data Collection for Management Issues in Asylum Lake Presere, Kalamazoo, MI." (Lemberg, 2015)
- Farley, Bradley "Environmental Impact of Conference Realignment." (Veeck, 2015)
- Hasan, Md Mehedi "Redistribution of the Chicago's Divvy Bike-Share Stations Using Linear Optimization Model: An Equity Perspective." (Ofori-Amoah, 2016)
- Hillmeyer, Katelynn Deann "An Intra-Site Spatial Analysis of Fot St. Joesph (20BE23) in Niles, MI." (Baker, 2016)
- Karatas, Fatma Ulku "Estimating Sediment and Nutrient Loading in the Davis Creek Watershed Using Soil and Water Assessment Tool (SWAT)." (Baker, 2015)

Merrill, Zachary "The Perceptions of Michigan Hunters Regarding Wolves (*Canis Lupus*) and the Idea of a Wolf-Hunt as a Management Option." (DeChano, 2016)

Moharter, Katy "A Geographic Distribution Analysis and Examination of Social-Psychological Factors and their Impact on Death Penalty Support in the United States." (DeChano, 2016)

Mucha, Nicholas K. "The Demand For Change: A Study of Recreational Amenities for Ramona Park." (Lemberg, 2015)

Owusu, Cladio "Targeting Interventions to Reduce Chlamydia Related Disparities in Kalamazoo County using GIS and Statistical Analysis." (Baker, 2016)

Rasmussen, Jon Eric Kingenberg "The Foundation of Cistercian Monasteries in France 1098-1789: An Historical GIS Evaluation." (Baker, 2015)

Sataer, Guzhalaiyi "Spatial Patterns of Drought Persistence in Xinjiang (A.R), China." (Meng, 2015)

Stewart, Cheyenne India "Spatial, Temporal Variability and Trends within the Tributaries of the Huron River: Effects on the Frequency of Flooding" (Zhu, 2016)

MINNESOTA

ST. CLOUD STATE UNIVERSITY

Masters (Science):

Paudel, Karuna "Pleistocene-Holocene Variation of Vegetation Pattern in Upper Great Lakes Region." (Mikhail Blinnikov, 2016)

UNIVERSITY OF MINNESOTA, TWIN CITIES

PhDs:

Bonsal, Dudley "Local in space and time: Acoustic environmental policy in Minnesota and a fine-scale spatiotemporal representation of aircraft noise impact on residential life." (Manson, 2016)

Butcher, Sian "Infrastructures of Property and Debt: making affordable housing, race and place in Johannesburg." (Sheppard, 2016)

Lang, Ursula "Cultivating Everyday Life: Yards, Nature and Time in the City." (Gidwani, 2015)

Lehman, Jessica "Planetary Sea: Oceanography and the Making of the World Ocean." (Braun, 2016)

Lindeke, William "In Search of New Riders: Affective Exclusions and Bicycle Planning in Minneapolis/Saint Paul." (Saldanha, 2015)

Masters (Arts):

Arya, Vishrut, Plan B. (Gidwani, V., 2016)

DeLuca, Eric, Plan B. (Samatar, A., 2015)

Masters (Geographic Information Science):

Anderson, Colleen "Professional GIS portfolio." (McMaster, 2016)

Clementz, Michael "Professional GIS portfolio." (Lindberg, 2016)

Ding, Yiren "Professional GIS portfolio." (McMaster, 2015)

Eglinton, Andrea "Professional GIS portfolio." (Kne, 2016)

Heins, Daniel "Professional GIS portfolio." (Knight, 2016)

Hill, David "Professional GIS portfolio." (McMaster, 2015)

Hinojoza, Geovanna "Professional GIS portfolio." (Jenks, 2016)

Marklevits, Katrina "Professional GIS portfolio." (McMaster, 2016)

McFarlane, Maureen "Professional GIS portfolio." (McMaster, 2016)

Nelson, Andrew "Professional GIS portfolio." (McMaster, 2015)

Paddock, Paul "Professional GIS portfolio." (McMaster, 2015)

Peyton, Stephen "Professional GIS portfolio." (Kne, 2016)

Piernot, Devon "Professional GIS portfolio." (Kne, 2016)

Reinke, Jennifer "Professional GIS portfolio." (McMaster, 2015)

Smith, Teran "Professional GIS portfolio." (Kne, 2016)

Xie, Yiqun "Professional GIS portfolio." (Shekhar, 2015)

MISSOURI

NORTHWEST MISSOURI STATE UNIVERSITY

Masters (Science):

Steurer, Joan "Effects of Land Use Type and Population Density on the Urban Heat Island" (Ming-Chih Hung, 2016)

MONTANA

UNIVERSITY OF MONTANA

Masters (Arts):

Myers, Andrew "Remaking Nature in Montana: Topophilic Considerations of Wolves and Wolf Trapping" (Shively, 2015)

Masters (Science):

Albov, Sophia "(Re)Localizing Finland's Foodshed: Grassroots Movements in Food Distribution and Urban Agriculture." (Halvorson, 2015)

French, Mary "Exploring the Potential for Geographic Transportation Modeling to Improve Food Assistance: A Case Study of the Missoula Food Bank." (Von Reichert, 2016)

Henners, Verena "Protecting the Crown of the Continent Ecosystem: A History of Conservation in the Blackfoot and Swan Valleys, Montana" (Kamp, 2015)

NEBRASKA

UNIVERSITY OF NEBRASKA, LINCOLN

Masters (Arts):

Bruhler, Jacob "Dating Late Quaternary Alluvial Fills in the Platte River Valley Using Optically Stimulated Luminescence Dating." (Hanson, 2016)

Cruz, Christian "Assessing Landslide Susceptibility with GIS using Qualitative and Quantitative Methods in Knox County, Nebraska." (Hanson, 2017)

UNIVERSITY OF NEBRASKA, OMAHA

Masters (Arts):

DeBoer, Michael "Omaha Fire and Medical Service: Station Relocation and Growth Planning Based on Spatial Analysis" (Rex Cammack, 2016)

Nath, Samuel "Soil Geochemical Parameters Influencing the Spatial Distribution of Anthrax in Minnesota" (Ashlee Dere, 2016)

Pagett, Greg "Asia: Place or Hollywood Stereotype?" (Christina Dando, 2016)

NEW JERSEY

RUTGERS UNIVERSITY

PhDs:

- Thomas, Kimberley A. "The River-Border Complex: Governing Flows in South Asia." (Birkenholtz, McCay, 2015)
Venkatasubramanian, Kalpana "Vulnerably resilient: opportunities and challenges for enhancing the resilience of Jamaican smallholder farmers to climate change" (Birkenholtz, 2016)

NEW YORK

CITY UNIVERSITY OF NEW YORK, LEHMAN COLLEGE

Masters (Science):

- Anastasia Clarke
Justin Czarka
Lina ElSayed
Kashmala Ikram
Zakkiyyah Shah
Dawn Xavier

THE STATE UNIVERSITY OF NEW YORK AT BUFFALO

PhDs:

- Bajo Sanchez, Jorge V. "Integrating Community Volcanic Hazard Mapping, Geographic Information Systems, and Modeling to Reduce Volcanic Hazard Vulnerability." (Renschler, 2016)
Felski, Elizabeth "IFRS Diffusion and Adoption Patterns." (Hamilton, 2015)
Gao, Peng "Structural Properties of Contact Networks and the Implications for Mitigating the Dispersion of Communicable Diseases." (Bian, 2016)
Habberfield, Michael "Functional Connectivity for Wildlife Populations Across Spatially Complex Landscapes." (Larsen, 2016)
Lewis, Tonya "State Environmental Justice Policies: A Synergistic Analysis of Space, the Environment, and the Law." (Bennett, 2015)
Rios, J. Fernando "A New Combined Uncertainty and Sensitivity Assessment of Spatial Models with Object-Based Features." (Renschler, 2015)
Savoy, Philip "Modeling the Seasonal Course of Canopy Dynamics: Incorporating Physiology into Phenological Models." (Mackay, 2016)
Shi, Chen "Incorporating Spatial Information in Spectral Unmixing." (Wang, 2015)
Trgovac, Andrew "The Spatial and Temporal Patterns of Foest and Abundance Distributions in the Eastern United States." (Larsen, 2015)
Tulowiecki, Stephen "Assessing Native American Influences Upon Pre-European Tree Species Composition in Western New York: An Approach Using Original Land Survey Records and Species Distribution Models." (Larsen, 2015)

Masters (Arts):

- Allen, Matthew T. "The State of Large Woody Debris in Western New York: Implications for Stream Restoration in the Niagara Subbasin." (Bennett, 2015)

- Aref, Renad "Comparison of Language Tag Distribution in the Contested Virtual Space of Jerusalem: A Case Study of OpenStreetMap." (Stephens, 2016)
Brown, Kathryn "Investigating the Death of a River Identifying correlations between Channel Processes and state of Channel Decline." (Mackay, 2015)
Chapman, Shana "Comparison of Side Scan Sonar Substrate Classification Methods to Assess Accuracy." (Mackay, 2015)
Chen, Gang "Intelligent Traffic Light Design for Efficient Intersections with Agent-Based Modeling." (Metcalfe, 2015)
Dong, Weichuan "A Network Study; Examine Relationship Between Nonprofit Organizations considering Board Member Affiliations." (Bittner, 2015)
Hilbert, Anthony "Energy Poverty in WNY: Urban Social Movements and Shifting Urban Ecology." (Werner, 2015)
Khahaifa, Naiima "Possibilities and Limitations of Strengthening Small Farmer Food Production in the Caribbean Through Value Chain Integration with Tourism." (Werner, 2016)
Li, Guyue "Using the Spatial Scan Statistic to Detect Age Differences of Dengue Cases in Mueang District, Kamphaeng Phet Thailand." (Aldstadt, 2015)
Liu, Jia "Detecting and Predicting Spatial Patterns of Crime in Buffalo, NY." (Bittne, 2015)
Schulmeister III, Willard L. "Geographic Information Science (portfolio)." (Jacquez, 2015)
Sun, Tong "How Geography Influences the Formation of Social Ties: A Case Study of Gang Rivalry Ties in Los Angeles." (Bian, 2015)
Trgovac, Andrew "Geographic Variation in Male Suicide Rates in the United States." (Bagchi-Sen, 2015)
Yang, Yi "An Ontology for Tracking Historical Administrative Division Change- Using Seoul as Case Study." (Bittner, 2015)

Masters (Science):

- Chen, Ruidong "Training Data Automation and Support Vector Machine for the Healthy Arboreal Vegetation Detection on Remote Sensing Imagery and Biomass and Allometry Data Service." (Mackay, 2016)
Chen, Xiao "Parcel-Based Urban Land Use Classification in the City of Buffalo." (Wang, 2015)
Cheng, Dan "Spatial and Temporal Analysis of Breast Cancer and Potential Exposures in Marin County, California." (Jacquez, 2015)
Cui, Kejin "An Agent-Based Modeling Method in Simulating Land Use Change." (Bittner, 2016)
DeMarchi, Alayna "Predictive Modeling of Beach Closure due to High E. Coli Levels at Evans Town Beach in Erie County, NY." (Bennett, 2015)
Fu, Sirui "The Influences of Different Spatial Weights Matrices on Moran's and Geary's C Statistic." (Rogerson, 2016)
Guo, Jingran "Spatial Analysis of Asthma in New York State with Air Pollution and Socioeconomic Factors." (Jacquez, 2015)
Lee, Aaron "Survival, Sustainability and Service: Challenging Resource Dependency in the Western New York Nonprofit Industry through Intra-Industry Collaboration." (Jacquez, 2015)
Li, Nan "Information Diffusion Patterns on Weibo." (Bian, 2016)
Li, Yang "Spatial-Temporal Analysis of State-Level Adult Diabetes Prevalence and Associated Risk Factors in the Contiguous USA." (Rogerson, 2015)
Liu, Renjie "Spatial Patterns of Social Network Centralities-A Case Study of Check-In Data of Northeastern United States." (Bian, 2015)

Luo, Yue "Spatial and Temporal Analysis of PM2.5 Distribution in Beijing." (Yoo, 2015)

Park, Jae Young "Assessing the Effects of Soil Distribution on Flood Modeling using a Combination of a Hydrologic and a Hydraulic Model." (Renschler, 2015)

Purpura, Christine "Assessing Changes in Forest Composition Between 1800 and 2000 AD through a Resurvey of Lines from the Original Land Survey of Western New York." (Larsen, 2015)

Qing, Jian "Constructing Areas for Health Issues- A Case Study: Diabetes in NY State, 2011." (Bittner, 2016)

Scott-Killian, Tobias "Examining the Spatial Data Potential of Individualized Internet Marketing." (Metcalf, 2015)

Shao, Yixuan "Space-Time Cluster Analysis of Lightning Distribution in West Pearl River Delta, China." (Jacquez, 2015)

Wang, Siyuan "Modeling the Effects of Road Pricing on Traffic Congestion using Dynamic Travel Demand." (Metcalf, 2015)

Wang, Xuan "Analysis of Weibo Users and Factors of Use." (Rogerson, 2016)

Wei, Xinyuan "Using Forest Fire Simulations to Assess the Number of Time-Since-Last-Fire Sample Points Required to Reliably Estimate the Fire Cycle." (Larsen, 2015)

Wen, Menghe "Urban Automotive Geographies: Social and Structural Factors." (Metcalf, 2015)

Yasumiishi, Misa "Spatial and Temporal Analysis of Human Movements and Applications for Disaster Response Management: Using Cell Phone Data." (Renschler, 2015)

Yu, Haoliang "Space-Time Cluster Analysis of Foot-and-Mouth Disease in South Korea." (Yoo, 2015)

Yu, Xiaohu "The Study of Stream and Forest Protection Based on GIS Numerical Model and GIS Technology." (Bennett, 2015)

Yuan, Jiangchen "Geospatial Analysis Methods for Communicable Diseases - A Case Study of H1N1 Influenza Pandemic in the United States." (Jacquez, 2015)

Zhou, Yueheng "Scientific Collaboration Network in Doctoral Committees: A Case Study of a Doctoral Committee Network in the Department of Geography at the University at Buffalo." (Bian, 2015)

Masters (GIS):

Du, Tianyi "Investigating the Leading Risks influencing the incidence and mortality rates of lung cancer in the State of Kentucky." (Larsen, 2016)

Fang, Dekun "Adjusting neutral analysis for health geography: A comparison of logistic regression and neutral networks." (Aldstadt, 2016)

Other (Trade MA):

Ostuni, Mychal A. "Globalization of the Solar Energy Industry: How Policy, Technology, and Production Networks Influence Locational Patterns of Supply, Demand, and Innovation." (Hamilton, 2015)

Shen, Xiaolu "Overseas Listing of Chinese Companies." (Werner, 2015)

Tompkins, Brian M. "Agricultural Trade between Developed and Developing Countries in Bilateral Trade Agreements." (Hamilton, 2015)

Yao, Hengyuan "Comparison of US China IPR Disputes between 1989 to 2009, Prior and following China's accession to WTO." (Poon, 2016)

SYRACUSE UNIVERSITY

PhDs:

Camargo Alvarado, Fabio Alejandro "Disastrous Waters, Renascent Lands: Politics And Agrarian Transformations In Post-Disaster Colombia." (Thomas Perreault, April 2016)

Mitchell-Eaton, Emily "New Destinations of Empire: Imperial Migration from the Marshall Islands to Northwest Arkansas." (Jamie Winders, August 2016)

Ritz, Thor "Marronage Unbound: Colonial Governance and Marron." (Jamie Winders, December 2015)

Masters (Arts):

Carlson, Kelsey "We'd Always Return To This Center." Understanding Urban Space As A Dakota Place In Mni Sota Makoce." (Don Mitchell, November 2015)

VASSAR COLLEGE

Other:

"Making Sustainability a Par of Campus Culture: An Analysis of Social Movements through a Case Study of Vassar College Sustainability."

"Striking Back: Combating Predatory Equity and Promoting Affordable Housing in New York City."

"Interrogating the Gayborhood."

"Re-Pathologizing Queerness: The Digitization of Lesbian Space and the Production of Respectability within Lesbian Dating App, 'Her'."

"A Path Cut By Water: The Making of the Cochabamba Water War Through Internationalization, Postcolonialism and Decoloniality."

"The Impact of Environmental Regulations on the West Virginia Coal Economy: Assessing the "Coal Means Jobs" Mantra and the Prospect of Deregulation."

"Food Injustice in Poughkeepsie: The Creation of and Challenges to Oppressive Food Structures."

NORTH CAROLINA

EAST CAROLINA UNIVERSITY

Masters (Science):

Heath, Jamie "Local Implementation of the State Wildlife Action Plan in Coastal North Carolina." (Dr. Traci Birch, 2015)

Kirk, Donnie "Analysis of Sediment Erosion and Deposition Across High Marsh and Tide Channel Sites in Wellfleet, Massachusetts." (Dr. Paul Gares, 2016)

Luchetti, Nick "Climate Change and the Sea Breeze in the North Carolina Coast." (Dr. Rosana Ferreira, 2016)

Nissenbaum, Mark, "Climate Change Effects on Precipitation Organization: A case study of the Southeast United States." Dr. Rosana Ferreira, 2016)

Van Horn, Jessy "Lateral Stream Migration Rates in the Blue River Watershed, Wisconsin." (Dr. Scott Lecce, 2016)

UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL

PhDs:

Bledsoe, Adams "Defender Nosso Pedaco de Chao: Quilombola." (Reyes, 2016).

Courthryn, Christopher "Memory is the strength of our resistance": A performance geography of peace, memory, territory, and politics in the San Jose Peace Community, Colombia." (Cravey, 2016)

Dimpfl, Michael "Clean U: Cleanliness, Social Difference and the Dirty Work of Everyday Hygiene." (Smith, Gokariksel, 2016)

Gergan, Mabel "Pecarity and possibility at the Margins: Hazards, Infrastructure, and indigenous politics in Sikkim, India." (Smith, 2016)

Larson, Stephen "The Fractured Values of Best Interests: Struggles and Spaces of Transnational Adoption." (Pickles, 2016)

Masters (Arts):

Cotterman, Rachel "Organic Wines and Little Debbies in the New Company Town: The Post-Industrial Politics of Rural Development." (Olson, 2016)

Hopping, Douglas "Gender Differences and Migrant Networks among Temporary and Permanent Migrants in China." (Gray, 2016)

Scaife, Charles "Dynamic Threshold Relations of Stormflow Runoff in Humid Headwater Catchments of the Coweeta Hydrologic Laboratory." (Band, 2015)

UNIVERSITY OF NORTH CAROLINA, CHARLOTTE

PhDs:

Gong, Zhao Ya "Amos," "Multiscaler Modeling of Urban Development in Polycentric Urban-Regional Systems: Economic Agglomeration, Spatial Evolution, and Industrial Organization." (Jean-Claude Thill 2015)

Schuch, Johanna "Claire", "Socio-spatial Geographies of Hispanic Immigrant Youth Accessing the Urban Labor Market." (Heather Smith 2016)

Venkitasubramanian, Kailas, "Discovering Relationships between Material Consumption and Subjective Well-Being." (Jean-Claude Thill 2015)

Zhou, Yuhong, "Space-time Dynamics of Single Family Residential Water Consumption in Charlotte, North Carolina." (Jean-Claude Thill 2016)

Masters (Arts):

Baber, Matthew "Urban Heat Island Effects on Anuran Breeding Activity in the Charlotte Metropolitan Region." (Gagne, 2016)

Desjardins, Michael "Modeling Compactness in Reserve Design with Backup Requirements." (Delmelle, 2016)

Gerney, Brian "Tech Cluster Development in Peripheral Regions." (Graves, 2016)

Goldberg, Jack "Terminal Shopping: Place Displayed in United States Airport Concessions." (Campbell, 2015)

Jia, Meijuan "Spatiotemporal Sensitivity Analysis of an Agent-Based Model of Artificial Anasazi." (Tang, 2016)

Martin, Miriam "Modeling Spatial Attractiveness in North Carolina Wine Tourism." (Delmelle, 2016)

Masters (Science):

Boucher, Adrienne "The Effects of Urban Heat Island and Local Habitat Quality on Anurans in Remnant and Stormwater Control Ponds." (Gagné, 2016)

Dash, Lopita "Temperature, Strain and Acoustic Emission Monitoring of a Natural Boulder Exposed to the Sun." (Eppes, 2015)

Haridson, Joel "This is a graveyard? Geoarchaeological Investigation of a Potential Burial Ground 31N93/94, Croatan National Forests, North Carolina." (Bobyarchick, 2015)

Hubler, Ryan, "Initiation and Enhancement of Local Precipitating Convection by the Charlotte Urban Heat Island." (Eastin, 2016)

Rachide, Stephen "Characterization of the Impacts of Beaver Ponds on Sedimentation, Carbon Storage, and the Geomorphology of an Affected Stream in the Piedmont of North Carolina." (Diemer, 2015)

Shoffner, Alexandra "The Relative Impacts of Habitat Amount, Habitat Configuration, and Urbanization on Forest Breeding Birds." (Gagné, 2016)

UNIVERSITY OF NORTH CAROLINA, GREENSBORO

PhDs:

Fannon, Brian "Effects of the Reintroduction of Castor Canadensis to North Carolina" (Phillip D. Royall, 2015)

Sloop, Joseph "Going Against the Grain: Development of the S. American Furniture Industry". (Keith Debbage, 2016)

Masters (Arts):

Coolbaugh, Dylan "Evaluation of Transit- Oriented Development (TOD): A Comprehensive Approach." (Selima Sultana, 2016)

Klinger, Erin "Creative Class Employment and Passenger Air Traffic by MSA: 2008-2013." (Keith Debbage, 2016)

Reynolds, Jennifer "Morphological Response to Reduced Discharge on a Losing Catawba River Bifurcate." (Phillip D. Royall, 2016)

Rupe, Rachel "The Geography of Mobility and Aging in Community: A Case Study in Orcas Island, Washington." (Selima Sultana, 2015)

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

Masters (Arts):

Preli, Danielle (Wang, 2016)

Masters (Science):

Burke, Morgen "Shelterbelt density dynamics and their driving forces in Grand Forks County, North Dakota, 1962 to 2014." (Rundquist, 2016)

OHIO

KENT STATE

PhDs:

Ballinger, Thomas: A Synoptic Climatological Assessment of the Relationship between Arctic Sea Ice Variability and Climate Anomalies over North America (Sheridan, 2015)

Nasuta, Anthony: The Creation, Marketing, and Preservation of a Cultural Landscape: A Case Study of Philmont Boy Scout Ranch and The Boy Scouts of America (Tyner, 2015)

Phillips, Melissa: Lightning and hurricane safety knowledge and the effects of education modes on elementary school children (Schmidlin, 2015)

Masters (Arts):

Chen, Zhuo: Information Diffusion on Online Social Networks: An Experiment of Agent-Based Modeling An Agent-Based Model for Information Diffusion Over Online Social Networks (J Lee, 2016)

Hannum, Kathryn: Sociolinguistic Geographies in Galicia, Spain (Kaplan, 2016)

Hornyak, Megan: Education Quality And The Community: A Geographic And Policy Analysis Of A Rust Belt City's Schools (Kaplan, 2016)

Rhodes, Mark: They Feel me a Part of that Land: Welsh Memorial Landscapes of Paul Robeson (Post, 2015)

Sirik, Savina: Everyday Experiences Of Genocide Survivors In Landscapes Of Violence In Cambodia (Tyner, 2015)

Stubbs, Glenn: Remembering a Workplace Disaster: Different Landscapes-Different Narratives? (Post, 2015)

MIAMI UNIVERSITY OF OHIO

Masters (Arts):

- Chbeir, Carl "The Geography of Remittances: A Case study of Lebanese Americans in Cleveland" (Ian Yeboah, May 2016)
- Lu, Xi "A Geographic Analysis of the Vulnerabilities and Coping Strategies of Tibetan Herders in Gansu, China" (Stan Toops, August 2016)
- Sheehan, Meghan "Determining Drivers for Wildebeest (*Connochaetes Taurinus*) Distribution in the Masai Mara National Reserve and Surrounding Group Ranches" (John Maingi, January 2016)
- Sukaryavichute, Elina "Transit Planning, Access, and Social Justice: Competing Visions of Bus Rapid Transit and the Chicago Street" (David Prytherch, August 2016)

OHIO STATE UNIVERSITY

PhDs:

- Hartmann, Chris "Postneoliberal public health, environment, and development in Nicaragua and Latin America." (Mansfield, 2016)
- Kim, Hyeyoung "The Role of Pastoralist Mobility in Foot-and-Mouth Disease Transmission in The Far North Region of Cameroon." (Xiao, 2016)
- Kocher, Austin "Notice to Appear: Immigration Courts and the Legal Production of Illegal Immigrants." (Coleman, 2017)
- Mauk-Johnson, Rachel "Prediction of Intensity Change Subsequent to Concentric Eyewall Events." (Hobgood, 2016)
- Park, Yongha "Studies in Airline and Aviation Efficiency." (O'Kelly, 2017)
- Pearson, Zoe "Coca Sí, Cocaína No? The Intimate Politics of International Drug Control Policy and Reform in Bolivia." (McSweeney, 2016)
- Tribby, Calvin "Activity Spaces, Route Choices, and Neighborhoods: Assessing the Built Environment Associations with Walking Trips." (Miller, 2016)
- Zhao, Yuxi "Entrepreneurship and commodified nature: amenity-led transitions in forested communities." (Munroe, 2016)

Masters (Arts):

- Bailey, Emelie "Healthcare access under health system decentralization in Honduras: A mixed methods study." (Root, 2016)

Masters (Science):

- Feliciano-Camacho, Christian "The Impact of Dry Air on the Location of Tornado Outbreaks Associated with Landfalling Tropical Cyclones in the Atlantic Basin." (Hobgood, 2016)

OHIO UNIVERSITY

Masters (Arts):

- Karl, Briana "Navigating the Unknown: Immigrant's Maternal Experiences in Southeast Ohio" (Dr. Edna Wangui, 2016)
- Merkle, Katlyn "'Here We Are:' Exploring the Lived Experiences of Pregnant Graduate Students within Neoliberal Universities" (Dr. Risa Whitson, 2016)
- Sympton, Megan "Circle Letters, Produce Auctions and Softball Games: Investigating the Internal Dynamics of the Older Order Migration Process" (Dr. Timothy Anderson)

Master's (Science):

- Bottone, Ethan "The Historical Production of Landscape in Perry County, Ohio: National Discourses Materialized" (Dr. Timothy Anderson, 2016)
- Dusselier, Hallie "Understanding 20th Century Antarctic Pressure Variability and Change in Multiple Climate Model Simulations" (Dr. Ryan Fogt, 2016)

- Hong, Xin "Exploring the Influence of Urban Land Use and Land Cover Change on Land Surface Temperature Using Remote Sensing: A Case Study of Cuyahoga County, OH" (Dr. James Lein, 2016)

- McGinnis, Nate "Topography and Land-Cover Effects on Tornado Intensity using Rapid-Scan Mobile Radar Observations and Geographic Information Systems" (Dr. Jana Houser, 2016)

- Schuster, Doug "Soil Moisture Effects on Supercellular Convective Initiation and Atmospheric Moisture in the Midwestern United States" (Dr. Jana Houser, 2016)

Non-Thesis:

- Brennan, Alex. M.A., non-thesis. (Dr. Harold Perkins, 2016)
- Kunstel, Elisabeth, M.A., non-thesis. (Dr. Brad Jokisch, 2016)
- Lewis, Allissa. M.S., non-thesis. (Dr. Amy Lynch, 2016)
- Roush, Allison. M.S., non-thesis. (Dr. Dorothy Sack, 2016)
- Woloch, Logan. M.S., non-thesis. (Dr. Gaurav Sinha, 2016)

UNIVERSITY OF TOLEDO

PhDs:

- Dhar, Samir "Addressing Challenges with Big Data for Maritime Navigation: AIS Data within the Great Lakes System." (Lindquist, 2016)
- Li, Xi "Use of LiDAR in Object-based Classification to Characterize Brownfields to Green Space Conversion in Toledo." (Czajkowski, 2017).
- Pepe, Linda "Optimally Locating Level 1 Trauma Centers and Aeromedical Depots for Rural Regions of the State of Ohio." (Lindquist, 2017).

Masters (Arts):

- Akter, Taslima "Travel Behavior of a Mid-West College Community: A Case Study of the University of Toledo." (Alam, 2016).
- Dindyal, Roger "The Voice of Urban Planning: Recent Revitalization Efforts in Downtown Toledo." (Shetty, 2016).
- Panozzo, Kimberly "A Validation of NASS Crop Data Layer in the Maumee River Watershed." (Czajkowski, 2016).
- Rowand, K. A. "Spatial Patterns of Deer Roadkill in Lucas County, Ohio." (Schlemper, 2016).

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

PhDs:

- Payne, Adam "Business Improvement Districts in Oklahoma City: Gentrification, Commodification, Place Promotion, and Crime (Alyson Greiner, 2015)

Masters (Science):

- Armstrong, Elizabeth "Representations of the Affordable Care Act in Oklahoma Government Press Releases, 2010-2015." (Rebecca Armstrong, 2016)
- Bode, Carson "Spatial Clustering of False Ring Events in J. Virginiana of the Oklahoma Crosstimbbers." (Carlos Cordova, 2015)
- Brasher, Jordan "The Langston City Herald: Promoting Race and Place in an Historic Frontier Utopia." (Brad Bays, 2016)
- Gilson, Brian "Ethno-Symbolism and Government Discourse in Azerbaijan." (Reuel Hanks, 2016)
- Hemingway, Ben "Mapping Prescribed Burns in Aransas National Wildlife Refuge with Historic Satellite Imagery." (Amy Frazier, 2016)
- Thomas, Sean "Monumental Discourse: The Narratives on Display in the Museums at Stone Mountain Park, Georgia." (Alyson Greiner, 2016)

OREGON

OREGON STATE UNIVERSITY

PhDs:

- Savotkina, Alexandra "Nuclear Power Plant Siting in the Columbia River Basin: Current Trends, Effects on Climate Change, and Associated Uncertainties." (Jones, 2016)
- Weems, Candice "Examining the Spatial Distribution of Park Access and Trajectories of Gentrification in Seattle, Washington, 1990-2010." (Jones, 2016)

Masters (Science):

- Arnold, Nicholas "Automation and Evaluation of Graduated Dot Maps" (Jenny, 2016)
- Darbyshire, Jane "Natural-Color Maps via Automated Coloring of Bivariate Grid Data." (Jenny, 2016)
- Leydet, David "Eastward Routing of Glacial Lake Agassiz Runoff Caused the Younger Dryas Cold Event." (Carlson, 2016)

UNIVERSITY OF OREGON

PhDs:

- Goswami, Swagata "Geomorphology, Hydrology and Human-Environment Interactions of the Megafans in the Gangetic Plains, India." (Marcus, 2016)
- Lind, Pollyanna "Geomorphology and Sediment Transport in a Humid-Tropical Montane River--Rio Pacuare, Costa Rica." (McDowell 2016)
- Lu, Graciela Mercedes "'Meche' Struggles over Governance of Oil and Gas Projects in the Peruvian Amazon." (Hindery, 2016)
- Perdue, Nicolas "Cognitive Agents and Pedestrian-Oriented Redevelopment." (Lobben 2016)
- Ptak, Thomas "Understanding Hydropower in China: Balancing Energy Security, Development and Environmental Sustainability in the Nu River Valley of Yunnan Province." (Su, 2016)

Masters (Arts):

- Bollinger, Jewell "Greening the Gulag: Politics of Sustainability in Prison." (Cohen, 2016)
- Morse, Adam C. "From Guantanamo Bay to Pelican Bay: Hunger Striking and the Biopolitical Geographies of Resistance." (Cohen, 2016)

Masters (Science):

- Appleby, Christina "Modeling Restoration of the Lower Long Tom River, Oregon." (Patricia McDowell 2016)
- Bard, Joseph "Finding High Ground: Simulating an Evacuation in a Lahar Risk Zone." (Christopher Bone 2016)
- Grummon, Christine A. "Examining the Role of Collaborative Governance in Fostering Adaptive Capacity: A Case Study from Northwest Colorado." (Christopher Bone 2016)
- Johnson, Geoffrey "A Sediment-Derived Environmental History of Water Quality, Coos Bay Estuary, Oregon Coast Range." (Daniel Gavin 2016)
- Omri, Rudy "Every Tweet Counts: Examining Spatial Variability of Twitter Data Representativeness." (Amy Lobben 2016)
- Proctor, Sarah "Fluvial Biogeomorphic Evolution of the Upper South Fork Toutle River, Washington, after the 1980 Eruption of Mount Saint Helens." (Mark Fonstad 2016)
- Shintani, Christina "Comparing Photogrammetric and Spectral Depth Techniques in Extracting Bathymetric Data from a Gravel-Bed River." (Mark Fonstad 2016)

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

PhDs:

- Bernhardt, Jase: "A Comparison of Daily Temperature Averaging Methodologies: Uncertainties, Spatial Variability, And Societal Implications."
- Frey, Nathan: "Hazards, Landscape, and Place: Staten Island and Hurricane Sandy."
- Isaacs, Rachel: "Climate change and the biophysical landscape: the influence of top-down and bottom-up controls on spatiotemporal patterns of forest expansion and tree growth in Denali National Park and Preserve, Alaska."
- Koby, Peter: "Digital Visualization of Colonial Cartography: Patterns of Wealth in the Sugar Colony of Barbados."
- Young, Amanda: "High Elevation Deciduous Forest Structure: A Test Of William Bond's 'Slow Seedling Hypothesis'."

Masters (Science):

- Masters papers by residential students:
- Hultquist, Carolynne: "Citizen Monitoring during Hazards: Validation of Fukushima Radiation Measurements."
- Simpson, Mark: "Quantifying Space, Understanding Minds: A Visual Summary Approach."
- Masters papers by online students:
- Amey, Craig: "Python-Based Tool for Research and Retrieval of Land Surveying Control Information."
- Black, Timothy: "Utilizing ModelBuilder for a Risk-Based Approach for Stormwater Asset Management."
- Bock, Travis: "Collaborative Dataset Management: A JavaScript App Built using Angular-esri-map and Angular Material."
- Brady, Mark: "Identifying the Spatially Dynamic Variables Affecting the Distribution of West Nile Virus in Pennsylvania."
- Chang, Angela: "Measuring the Impact of Development on Urban Green Spaces in D.C."
- Coram, Matthew: "Assuring Connectivity in an Electric Utility GIS Distribution Mode."
- Dennison, Deborah: "Contribution of Normalized Digital Surface Models used in Automatic Building Extraction."
- Didier, Patrick: "Sample Density Analysis and Optimization for NOAA's Airborne Snow Water Equivalent Surveys."
- Dunham, Jeffrey: "Utility Asset Management in 10 Steps: A GISer."
- Ferdinando, Joseph: "Virtual Reality for Interplanetary Spatial Exploration."
- Frad, Wayne: "Environmental and Spatial Determinants of Lyme disease."
- Gast, Laura: "Transforming Citizen Science into Informative Range Maps."
- Gilbert, Steven: "Drought and Climate Change in Jordan."
- Hastings, Karen: "Payday Lenders and the Military: A Study of Hampton Roads, Virginia."
- Helms, Justin: "Georeferencing Pictorial St. Louis 1875: A new perspective for a contemporary map."
- Hughes, Jamie: "Septic Tank Conversion Prioritization using GIS in the Wakulla Springs Springshed."
- Jehle, Samuel: "St. Louis: A Social, Economic and Infrastructure Trend Analysis, 1980-2010."
- Klaube, Christopher: "Development of an Address Point Editing Application for Local Governments & Public Safety Answering Points."
- Ligon, Ruthann: "Christine Dorn Geo-Enabling Mountain Bike Trail Maintenance with VGI: GIS Applications for the Fountainhead Mountain Bike Trail."
- Lucero, Eileen: "Estimating Water Levels with Google Earth Engine."
- Miller, Jonas: "User-Defined Layer Selection and Weighting for Initial Emergency Response Risk Mapping."

Pritchard, John: "Integrating Social Vulnerability and Flood Safety Modeling."

Powers, Jalayne: "Characterization of Depleted Uranium at Nellis Training and Test Range Target."

Rahimi, Sohrab: "An Investigation of Spatial Factors Pertaining to Maintenance and Formation of Romantic Relationships."

Sarro, Deanna: "An Open-Source Approach to Creating a National Critical Habitat Web Map."

Shahriari, Mehdi: "Quantifying Uncertainty of Wind Power Production Through an Analog Ensemble."

Siders, David: "Modeling the Impact of Climate Change on the Environmental Suitability for Zika Virus Transmission in the Continental United States."

Stangl, Andrew: "Analysis Dialogue Session at NGA Campus East (NCE)."

Wanner, Nathaniel: "Background Concentrations of Arsenic in Ohio Soils: Sources and Influencing Factors."

Ward, Bridget: "An Evaluation of Multiple-Criteria Decision Making with GIS: The \"DC2RVA.\""

Widlund, Heather: "Automating Regional Data Integration for Emergency Services with Python."

Winkler, Robert: "Drawing Legislative Districts to Achieve Partisan Symmetry While Respecting Territorial Communities."

Wirth, Troy: "Classification of Riparian Buffers in Oregon Using Several Object Based Image Analysis Platforms."

TEMPLE UNIVERSITY

PhDs:

Brown, Corita "Other People's Children: How Race, Social Networks, and Spatial Context Influence Older Adults Attitudes about School Funding." (Carolyn Adams, 2016)

Dunham, Ian "Street Credit: Neighborhood Level Predictors of Financial Inclusion in Four U.S. Metropolitan Areas." (Michele Masucci, 2015)

Foster, Alec "Everyday Environments, Everyday Identities: Urban Environmental Geographies of Philadelphia." (Hamil Pearsall, 2016)

Guerrier Alcidonis, Sendy "The social networks of Haitian Immigrants Employed in the Long-term Care Industry in Metropolitan Philadelphia: Complex Intersections of Race, Nationality, Class and Gender." (Melissa Gilbert, 2016)

Hammelman, Colleen "Connecting for survival: Understanding the spatial implications of migrant women's food insecurity coping strategies in Medellín, Colombia, and Washington, DC." (Allison Hayes-Conroy, 2016)

Tremblay-Racicot, Fanny, "Can Institutional Reforms Promote Sustainable Planning? Integrating Regional Transportation & Land Use in Toronto & Chicago (2001-2013)." (Christina Rosan, 2015)

Masters (Arts):

Fritz, Caleb
Freyman, Neal
McDermott, Bob
Przybylek, Christian
Van Leuven, Andrew

Masters (Professional Science):

Wiese, Daniel

WEST CHESTER UNIVERSITY

Masters (Arts):

Apakian, Lauren. "Assessing changes in Salt Pannes in Coastal Wetlands in New Jersey" (Joy Fritschle, 2017)

Marcinik, Josh "Towards GIS-Based Dune Vulnerability Analysis: An Example from Cape May, New Jersey." (Gary Coutu, 2017)

Mora Jaerez, Lesmes "The Geographical Association between Clusters of Cell Phone Towers with the Prevalence of both Leukemia and Brain Cancer in the U.S." (Jake Lewandowski, 2017)

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

PhDs:

Gillam, J. Christopher "Multivariate Analysis and Geographic Modeling of Archaeological Landscapes." (Hodgson, 2016)

McCombs, Alexandria "Representing the relationships between field collected carbon exchanges and surface reflectance using geospatial and satellite-based techniques." (Hiscox, 2017)

Masters (Arts):

Landis, Zachary "The Community Rating System: Assessing Indicators of Community Participation, a Dasymetric and SoVI Approach." (Dow, 2017)

Sylvester, Benjamin "Contesting the Generic Refugee: SIV Identity, Community, and Agency During Resettlement." (Nagel, 2017)

Masters (Science):

Baratta, Alysha "Barriers to Success: Refugee Mobility in the New South Immigrant Gateway city of Columbia, SC." (Nagel, 2016)

Ertell, Katherine "Dynamic Mapping of Tree-Sway Frequency and the Turbulent Co-Spectral Gap" (Hiscox, 2016)

Jiang, Yuqin "Urban Accessibility Measurement and Visualization -- A Big Data Approach" (Guo, 2017)

Leslie, Parker "Hydrologic Modeling Scenarios in a South Carolina Piedmont Drainage Basin." (James 2016)

Selvaraj, Sumathee "Assessing individual Transit Vulnerability to Nuisance flooding in the Charleston, SC area." (Dow 2016)

Simmons, Jennifer "The Role of Weather in the Social and Economic Livies of Plantation Owners in Antebellum Beaufort District, South Carolina" (Mills 2017)

Other (Non-Thesis Option):

Bricker, Brian non-thesis Dr. Cutter 2017
Windsor, Mary non-thesis Dr. Li 2017
Wood, Meghan non-thesis Dr. Cutter 2016

SOUTH DAKOTA

SOUTH DAKOTA STATE UNIVERSITY

Masters (Science):

Al Mamun, MD Raj-ibul H. "Should the Geography Major be Categorized as STEM?" (B-Option, T. Jackson, 2015)

Guthrie, Danielle "Marginalizing Discourse: West European Geopolitical Imaginations and Romanian Positionality within the European Union 1989-2013" (G. White, 2015)

Johnson, Matthew "The Doctrinally Driven Cultural Landscape of the Mormon Homeland in the 21st Century" (J. Gritzner, 2015)

Krehbiel, Cole "Impacts of Urban Areas on Vegetation Development along Rural-Urban Gradients in the Upper Midwest: 2003-2012" (G. Henebry, 2015)

Ndekulu-Ngomba, Marcelline "Remote Sensing an Improved Census of Lemba Commune, Kinshasa, the Democratic Republic of Congo" (D. Roy, 2015)

Richardson, Bradley "The Geography of Lyme Disease in Wisconsin: A Spatio-Temporal Analysis of Landscape Patterns and Disease Incidence" (T. Jackson, 2015)

Sigdel-Phuyal, Mandira "Using Remote Sensing and Biogeographic Modeling to Understand the Oak Savannas of the Sheyenne National Grassland, North Dakota, USA" (N. Hanan)
Swartos, Ashley "Mapping Palm Oil Expansion in the Brazilian Amazon" (M. Cochran, 2015)

TENNESSEE

UNIVERSITY OF TENNESSEE, KNOXVILLE

PhDs:

Ballard, Joanne Patricia "Evidence of Late Quaternary Fires from Charcoal and Siliceous Aggregates in Lake Sediments in the Eastern U.S.A." (Horn, 2015)
Conner, Neil George "Contested Notions of Irishness: Social integration and the Multiple Intersections of Ethno-racial, Religious, and National Identities in Dublin, Ireland." (Inwood, 2015)
Cook, Matthew Russell "A Critical Historical Geography of Slavery in the American South." (Alderman, 2016)
Li, Yanan "Timing and Extent of the Little Ice Age Glacial Advances in the Eastern Tian Shan, China." (Li, 2015)
Xu, Yang "Mobility and Activity Space: Understanding Human Dynamics From Mobile Phone Location Data." (Shaw, 2015)
Ye, Huaiaren "Geography of Health Care Access: Measurement, Analysis and Integration." (Kim, 2016)
Zhao, Ziliang "Cell Towers as Urban Sensors: Understanding the Strengths and Limitations of Mobile Phone Location Data." (Shaw, 2015)

Masters (Science):

Bleakney, Sarah Ann "Trends in Lifetime Maximum Intensity of North Atlantic Tropical Cyclones." (Ellis, 2016)
Brown, Vincent Marshall "Tennessee Tornado Frequency, Vulnerability and Relation to Large-Scale Climate Variability." (Ellis, 2016)
Markley, Scott Nyland "Pre-and Post- Crisis Geographies of New Urbanism in Atlanta's Inner Suburbs." (Sharma, 2016)
McNelis, John "Quantifying Gully Erosion in West Tennessee Using High Resolution LIDAR Data." (Li, 2016)
Rosko, Helen "Drinking and Remaking Place: A Study of the Impact of Commercial Moonshine in East Tennessee." (Inwood, 2015)
Schmidt, Erik Herman "Classifying Nominal Voltage of Electric Power Transmission Lines Using Remotely-Sensed Data." (Bhaduri, 2016)
Taylor, Robert Dale "Supply Chain-based Federal Fuel Tax Evasion Within the Space-time Envelope." (Kim, 2016)

TEXAS

TEXAS A&M UNIVERSITY

PhDs:

Bowlick, Forrest "Education on the GIS Frontier: CyberGIS and Its Components." (Sarah W. Bednarz, 2016)
Johnson, Jeremy "Mountain Hemlock Landscape Genetics on the Kenai Peninsula, Alaska." (David Cairns, 2016)
Joslin, Audrey "Labor and Territory in Payments for Ecosystem Services in Ecuador's Andes." (Wendy Jepson, 2015)
Lee, Heather "Access Regimes and Irrigation Technology: Where Does the Water Soft Path for Agriculture Lead?" (Wendy Jepson, 2016)
Nam, Sou Yeon "Toward NICs Political Ecology: Territorialization, Scale, and Landscape on the Jeju Olle Trail, South Korea." (Kathleen O'Reilly, 2016)

Yuan, Shanshui "Assessment of Multiple Approaches for Using Soil Moisture to Evaluate Drought in the U.S. Great Plains." (Steven Quiring, 2016)

Masters (Science):

Bruno, Tianna "Market Environmental Justice." (Wendy Jepson, 2016)
Denman, Michael "Lightning Ignited Fires in the Grandfather Ranger District, North Carolina." (Charles Lafon, 2016)
Dong, Xian, Non-Thesis, (Andrew Klein, 2016)
McConaghy, Scott "Influence of Productivity and Disturbance on Plant Species Diversity Across the Grasslands of the Great Plains." (Charles Lafon, 2016)
Murphy, Trey "It All Depends on the Price of Oil!": Eagle Ford Shale Economic Development Outcomes. (Christian Brannstrom, 2016)
Tilton, Mary "Using GIS to Estimate the Spatial Distribution of Wind Power Royalties in West Texas." (Andrew Klein, 2015)
You, Mingde "Multi-Temporal Remote-Sensing-Based Mapping and Characterization of Landscape Evolution of a Meandering River Floodplain." (Tony Filippi, 2016)

TEXAS STATE UNIVERSITY

PhDs:

Farano, Christa "An Analysis of Travel Efficiency within the Context of Geographic Education and the Daily Trip Plan." (Boehm, 2015)
Gong, Xi "Exploring Associations between Environmental Risk Factors and Low Birth Weight Using Geographic Big Data." (Zhan, 2015)
Pickett, Jackson "Investigation of Gender and Race Effects on promotion in Departments of Geography in the United States." (Lu, 2015)
Prince, Benjamin "An Appalachian Trail: A Critical Geographic Study in Visual Representation and Landscape Production." (Hagelman, 2016)
Wranic, Angela "Composite learning objects in Geographical Sciences: A Comparison study of the Learning Process between Costa Rican and United States University classroom." (Muniz, 2016)

Masters (Science):

Abbott, Samantha "Cross-scale interactions between land cover/land use, climate, and river water quality: A case study of the Manawatu River catchment, New Zealand." (Julian, 2016)
Anzah, Faisal "Detecting the Shoreline Change of Qaruh Island, Kuwait, Using Remote Sensing & GIS." (Butler, 2016)
Bakiera, Adam "Spatial Analysis of Traffic Congestion and Transit Accessibility in Austin, Texas." (Weaver, 2016)
Cascante Campos, Jose Alejandro "Relationships between the conceptions of geography and geospatial thinking of pre-service social studies teachers and geography students in Costa Rican public universities." (Muniz, 2016)
Heinemann, Matthew "Human Landscape Assessment for Informing Conservation Delivery Prime Prospect Analysis for the Oaks and Prairies Joint Venture." (Julian, 2016)
Le Noc, Mael "Spatio-temporal patterns of family deportation during the Holocaust in Italy." (Giordano, 2016)
Legg, Brittany "Rock glacier morphology and morphometry in Glacier National Park, Montana." (Butler, 2016)
Roberts, Ethan "sUAS-SfM based remote sensing of rangeland vegetation in central Texas: OBIA segmentation, classification, and structural modeling of prickly pear cacti using photogrammetric point-clouds." (Jensen, 2016)
Szpakowski, David "Estimating Aboveground Biomass of Pasture Environments Using Structures from Motion." (Jensen, 2016)

Other: Master of Applied Geography - M.A.Geo:

- Engells, Laura "Assessing the Risk of Debris Flow Occurrences in Mountainous Recreation Environments Facing Climate Variability: An Application in Glacier National Park." (Butler, 2016)
- Gardner, Thomas "Perceptions of Hydraulic Fracturing in North Texas: A Study of the Barnett Shale Region." (Blanchard, 2015)
- Haynes, Brady "Analysis of Irrigation and Municipal groundwater transfers in Edwards Aquifer Region from 2005 through 2014." (Earl, 2015)
- McBroom, Emily "Mobility and long-term employment of farm workers: Analysis of demographics, policy, and drought in California." (Blue, 2016)
- Melancon, David "How Does the Price of Oil Affect Where Oil Producers Drill." (Zhan, 2015)
- Onley, Katy "Coastal Vulnerability Assessment of Galveston Island to Future Inundation and Sea-Level Rise." (Dixon, 2015)
- Ponder, Matthew "Land Cover Change in the Eagle Ford Shale." (Currit, 2016)
- Rogers, Charles "Siting Urban Agriculture as a Green Infrastructure Strategy for Land Use Planning in Austin, TX." (Hiner, 2016)
- Rosa, Gabrielle "Tamed Fungus": A colorful history of black truffles in Perigord, France." (Hiner, 2016)
- Rowe, Lauren "Texas Women in Conservation and Social Reform during the Progressive Era." (Blanchard, 2016)
- Strickland, Colin "Golden-Cheeked Warbler Habitat Selection in a Fragmented Landscape." (Meitzen, 2016)
- Zell, Zoe "Using Driver's License Data to Examine Obesity and its Relationship with Access to Green Space in Central Texas." (Lu, 2016)

UNIVERSITY OF NORTH TEXAS

Masters (Science):

- Desai, Khyati "Influence of the choice of disease mapping method on population characteristics in areas of high disease burden."
- Eddins, Amy "The influence of local forage variability on white-tailed deer (*Odocoileus virginianus*) body size at Fort Hood, Texas."
- Testa, Peter "Decoding the formation of a retail giant: The evolving geography of Costco's store network."
- Whitaker, Carl "Small town retail change in east Texas: An analysis of retail growth, decline, and spatial reconfiguration."
- Hodge, Joshua "Hurricane storm surge sedimentation on the McFaddin National Wildlife Refuge, Texas: Implications for coastal marsh aggradation."
- Huang, Pu "A new lacunarity analysis add-in for ArcGIS."
- Pokhrel, Pranav "The study of spatial and temporal variability of degree day factor of snowmelt in Colorado."
- Sakinejad, Michael "The landscape legacies of urban gas drilling in north Texas."
- Barnett, Jennifer "The impact of Chinese Privet (*Ligustrum sinense*) on the survival and re-establishment of native plants at the Dallas Floodway Extension."
- Gillreath-Brown, Andrew "An applied geospatial soil moisture model: The relationship between agricultural fields and Puebloan habitation sites in the Goodman watershed, central Mesa Verde region."

UNIVERSITY OF TEXAS AT AUSTIN

PhDs:

- Flood, Jonathan "Groundwater geochemistry and human ecology in the south Aegean: a diachronic investigation of the human-hydrologic relationship from prehistory to the present." (Luzzadder-Beach, 2016)
- Holloway, Paul "Incorporating movement in species distribution models." (Miller, 2016)

- Jones, Natalie "Eating while young and black: food, foodways, and gentrification in Austin, Texas." (Knapp, 2016)
- Polk, Mary "'They are drying out': social-ecological consequences of glacier recession on mountain peatlands in Huascarán National Park, Peru." (Young, 2016)
- Rudow, Joshua "Uphill cultivation: farmers in the changing environments of the Rio Ica watershed, Peru." (Doolittle, 2016)

Masters (Arts):

- Ames, Jillian "How does uncertainty influence spatial projections of *Anopheles* presence in Kenya?" (Miller, 2016)
- LeVine, Daniel "Spatio-temporal analysis of central Texas savannas: integrating field data with remotely-derived data sources to inform ecosystem function and management." (Crews, 2016)
- McCullough, Amy "You have arrived: geotourism and experiencing place via Airbnb" (Adams, 2016)
- Tasker, Kaitlin "Informing the carbon frontier: economics and landscape in the western Amazon." (Arima, 2016)
- Wells, Greta "Timeline Reconstruction of Holocene Jökulhlaups along the Jökulsá á Fjöllum Channel, Iceland." (Luzzadder-Beach, 2016)

UNIVERSITY OF TEXAS AT SAN ANTONIO

Masters (Arts):

- Owens, Raluca "Possible impacts of Global Climate Change on Peach Orchards in Gillespie County, Texas."

UTAH

UNIVERSITY OF UTAH

PhDs:

- Kraklow, Vachel Carter "The role of climate variability and disturbances on forest ecology in the Intermountain West." (Andrea Brunelle, 2016)
- Li, Dapeng "Modeling wildfire evacuation as a coupled human-environmental system using triggers." (Thomas Cova, 2016)
- Li, Han, Institutions "Economic Transition, and Urban Land Expansion in China." (Yehua Wei, 2016)
- Mahezumi, Shira Yosimi "Neotropical Climate, Vegetation, and Fire Histories on Local to Regional Scales." (Mitchell Power, 2015)
- Meng, Ran "Study of Two Vegetation-Related Disturbances (beetle herbivory and wildlife) in the Western United States Using Optical Remote Sensing." (Philip Dennison, 2015)
- Miege, Clement "Recent Ice Sheet Snow Accumulation and Firn Storage of Meltwater Inferred by Ground and Airborne Radars." (Richard Forster, 2015)
- Zhang, Ling "Retail Internationalization and Urban Restructuring in China: A Study of Foreign Hypermarkets and Urban Land with Geographic Information System and Remote Sensing." (Yehua Wei, 2016)

Masters (Science):

- Chavez, Vanessa "Climatic Influences on Two Cienega Complexes from Northern Baja California: A -45,000 Year Paleocological Record." (Andrea Brunelle, 2016)
- Coates, Austin Reece "Hyperspectral Remote Sensing For Monitoring Species-Specific Drought Impacts In Southern California." (Philip Dennison, 2015)
- Conrad, Edward C. "Using Species Distribution Models to Quantify Climate Change Impacts on the Rosy-Finch Superspecies: An Alpine Obligate." (Simon Brewer, 2015)
- Fu, Liwei "Bicycling Preferences and Behavior in Salt Lake City." (Steven Farber, 2015)

- Headman, Alexander O. "Evaluation of Fire Regime Shifts in Boreal Alaska Through the Use of Sedimentary Charcoal." (Simon Brewer, 2016)
- Heyer, Joshua Paul "Spatial Correlation Analysis of NIÑO3.4Sea Surface Temperatures with Western North America Hydroclimate." (Simon Brewer, 2016)
- Hile, Ryan Patrick "Thinking Inside the Black Box: Enhancing the Social Vulnerability Index with an Artificial Neural Network." (Thomas Cova, 2015)
- Howard, Kelsey Ann "A Late Pleistocene to Early Holocene Climate, Vegetation and Fire History Record for the Bonneville Basin, Utah, USA." (Andrea Brunelle, 2016)
- McNerney, Laura "Constraining the Greenland Firn Aquifer's Ability to Hydrofracture a Crevasse to the Bed of the Ice Sheet." (Richard Forster, 2016)
- Nicolosi, Emily Ann "Geographies of climate change mitigation: An exploration of the climate change movement." (Simon Brewer, 2015)
- Unger, Corey "Creating Spatial Data Infrastructure to Facilitate the Collection and Dissemination of Geospatial Data to Aid in Disaster Management." (Thomas Cova, 2015)
- Ward, Danielle "Holocene Chemostratigraphy of Spring Sediments in Range Creek Canyon, Utah." (Andrea Brunelle, 2016)
- Xiao, Li "Spatial Representation in the Social Interaction Potential Metric: An Analysis of Scale and Parameter Sensitivity." (Steven Farber, 2015)

Other: Masters (GIS):

- Graves, Edward (2016)
- Jiao, Xiaomin (2016)

WASHINGTON

CENTRAL WASHINGTON UNIVERSITY

Masters (Science):

- Aymond, Ayla (Fall 2015). A Zooarchaeological Analysis of the Monashka Bay Site (KOD-026) Kodiak Island, Alaska. (Lubinski)
- Brown, James (Spring 2016). Alternatives to Charcoal for Improving Chronometric Dating of Puget Sound Archaeological Sites. (Hackenberger/McCutcheon)
- Chinchen, Jody (Spring 2016). Hiker Trash and Trail Dogs: An Ethnographic Inquiry Into Human Nature in the Trail Space. (Amazon)
- Hale, Thomas (Winter 2016). Species Identification of the Stylohyoid Bone for North American Artiodactyls. (Lubinski)
- Harrison, Isa (Fall 2015). Elk and Deer Hunters in Washington State: Affiliations and Ethical Behavior. (Wirth)
- McDermott, Wendy (Winter 2016). The Life Cycle of Dams: An Analysis of Policy Change on the Rogue River, Oregon. (Pease/Revels)
- Porter, Laurie (Summer 2015). Behavioral Response of Pacific Lamprey (*Entosphenus tridentatus*) to Predator Odors (Wagner)
- Saunders, Anthony (Spring 2016). An Economic Approach to Modeling Archaeological Settlement Patterns in Central Idaho (Hackenberger/Bowen)
- Steele, Rozsika (Winter 2016). Defining Biodiversity: A Local Assessment of the Tahuayo River, Peru Using Self-Directed Photography. (Lipton) **Dale and Mary Jo Comstock Distinguished Thesis Award**
- Steinkraus, Mark (Spring 2016). Mapping and Radiocarbon Dating Archaic Period Monuments: La Alberca Structure Complex, Highland Michoacán, Mexico. (Hackenberger)
- Wachholder, Thomas (Fall 2015). Applying Wetland Rating Systems to Assess Functions of Depressional Wetlands Created by a Mass Wasting Feature, Table Mountain, Washington. (Gabriel)

- Waters, Tiffany (Summer 2015). Washington's Fish Consumption Rate and Water Quality Standards: Fostering Allies to Keep Our Seafood Clean. (Pedersen)

UNIVERSITY OF WASHINGTON

PhDs:

- Basikoro, Eloho. "Mapping Gender Gaps in AIDS Interventions in Nigeria: A Critical Discourse." (Sparke, 2016)
- Bettani, Stefano. "Religion and Religious Places: Rethinking Hybridity." (Brown, 2016)
- Cohen, Spencer. "Local States, Markets, and the Geography of Political Economy and Land in China." (Chan, 2015)
- Daigle, Michelle. "Embodying Self-determination: Re-placing Food Sovereignty Through Everyday Geographies of Indigeous Resurgence." (Sparke, 2015)
- Farias, Monica. "Transformative Political Spaces? Asambleas Populares, Identity, Alliances, and Belonging in Buenos Aires." (Lawson, 2016)
- Piedalue, Amy. "Geographies of Peace & Violence: Plural Resistance to Gender Violence and Structural Inequalities in Hyderabad and Seattle." (Lawson, 2015)
- Wei, Yanning. "Under Chinese Rural-Urban Dual System: The Crisis of Rural-Hukou Children." (Chan, 2016)

Masters (Arts):

- Fiorio, Lee. "Neighborhoods Neighboring Neighborhoods: Adjacency, Sprawl and Tract-level Racial Change in the U.S., 1990 to 2010." (Ellis, 2016)
- Neel, Phil. "Logistics Cities: Poverty, Immigration and Employment in Seattle's Southern Suburbs." (Bergmann, 2016)

WESTERN WASHINGTON UNIVERSITY

PhDs:

- Clauson, Stacy "Blurred Vision? Evaluating the Legacy of Puget Sound Smart Growth." (2016)
- Rosa, Katherine A. "One Hundred Years of Vegetation Succession in the Easton Glacial Foreland, Mount Baker, Washington." (2016)
- Miscolta-Cameron, Ana E. "Science and Strategy: How Scientific and Technical Information Are Used in Disputes Over Landslide Regulations in Seattle, WA." (2016)
- O'Leary III, Donal Seán "Investigating the Spatio-Temporal Relationships Between Snowmelt Timing and Wildfire Area Burned in the US Mountain West." (2016)
- Evans, Elizabeth A. "Globalized Garment Systems: Theories on the Rana Plaza Disaster and Possible Localist Responses." (2016)
- Lesser, Jacob D. "Detecting Fires: A Nationally Consistent, Rule Based Approach." (2016)
- Ellis, Todd M. "Climatic Drivers of Western Spruce Budworm Outbreaks in the Okanogan Highlands." (2016)
- Kemp Jr., Johnathan A. "Investigating Effective Methods for Aggregating, Organizing, Storing, Managing, and Disseminating Community Resilience Data." (2015)

WEST VIRGINIA

MARSHALL UNIVERSITY

Masters (Science):

- Wiley, Douglas. M.S. Assessing the impact of a supermarket shuttle model on supermarket access within Cabell County, West Virginia

WEST VIRGINIA UNIVERSITY

PhDs:

- Chen, Xiannian "Dimensions of the Use of VGI in Mass Crisis Events" (2015)
- O'Keefe, Paul "Changing Vulnerabilities in a Changing Climate: Farming opportunity and constraint in Kilimanjaro Region, Tanzania" (2015)
- Smith, Jennifer "Uneven Development of Peri-Urban Space in South Africa" (2015)

Masters (Arts):

- Foster, Jessica "Acquiring a Taste for the Local: Examining Consumer-Producer Perspectives on Locally Grown Food at Farmers' Markets in North-Central West Virginia" (2015)
- Kaufman, Andrew "Shedding Light on GIS: A 3D Immersive Approach to Urban Lightscape Integration into GIS" (2015)

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

PhDs:

- Cooper, Mark Hampton "Ethereal Metrologies: Making the New Climate Economy in New Zealand." (Turner, 2016)
- Kontgis, Caitlin Patricia "Land cover, land use, and climate change impacts on agriculture in southern Vietnam." (Schneider, 2016)
- Lee, Jae-Youl "Policy, Place, and People in the Making of Agro City Seoul, South Korea." (Olds, 2015)
- Munoz, Sam "Forests, Fields, and Floods: A Historical Ecology of the Cahokia Region, Illinois, USA." (Williams, 2015)
- Wallace, Timothy Robert "Cartographic Journalism: Situating Modern News Mapping in a History of Map-User Interaction." (Burt, 2016)

Masters (Science):

- Chen, Yuying "Point object extraction from scanned topographic maps." (Ozdogan, 2015)
- Grant, Daniel "The Certainty of Change: Flood, Drought, and the Genre of Environmental Prophecy in California's Central Valley 1987-2015." (Cronon, 2015)
- Rose, Caroline "Mapping Technology in Wilderness Search and Rescue." (Roth, 2015)
- Szymanski, Laura "Soil Microbial Respiration and Carbon Turnover Under Perennial and Annual Biofuel Crops in Two Agricultural Soils." (Marin-Spiotta, 2015)
- Tolochko, Robin Carol "Contemporary Professional Practices in Interactive Web Map Design." (Roth, 2015)
- Zhang, Zidong "An Adaptive Traffic Vehicle Routing Framework During Big Public Events." (Huang, 2016)

UNIVERSITY OF WISCONSIN, MILWAUKEE

PhDs:

- Li, Wenliang "Large Scale Urban Impervious Surfaces Estimation through Incorporating Temporal and Spatial Information into Spectral Mixture Analysis" (Wu, 2016)
- Lin, I-Hui "Assessing the Effect of Parks on Surrounding Property Values Using Hedonic Models and Multilevel Model" (Wu, 2016)
- Pettygrove, Margaret "Food inequities, urban agriculture, and the remaking of Milwaukee, Wisconsin" (Ghose, 2016)

Masters (Arts):

- Ananchev, George "Embodying the Regime of Automobility: A Phenomenology of the Driving Subject and the Affects of Governable Space" (Sziarto, 2016)

Masters (Science):

- Borchardt, Susan "High Capacity Wells and Baseflow Decline in the Wolf River Basin, Northeastern Wisconsin" (Choi, 2016)

Other (Non-Thesis Option):

- Drew, Ben (MS, Schwartz, 2016)

WYOMING

UNIVERSITY OF WYOMING

Masters (Arts):

- Bowler, Jonathan "Managing Recreation Resources: An Assessment of Recreation Opportunities in the Green River's Uinta Basin, Utah" (Gribb 2015)
- Brussel, Thomas "Construction and application of a plant-trait dataset for determining relationships between demographic traits and fire variables using paleoenvironmental data" (Minckley, 2015)
- Leonard, Christina "Evaluating effects of floodplain constriction along a high-energy gravel-bed river: Snake River, WY" (Legleiter, 2015)
- Pearson, Joseph E. "Impact of early snowmelt on Denver water supply" (Shinker, 2015)
- Stegman, Tobin "Stream restoration monitoring using structure-from-motion photogrammetry, Teton Creek, Idaho" (Legleiter, 2015)

CANADA

ALBERTA

UNIVERSITY OF ALBERTA

PhDs:

- Aubet, Natalie "Paleoceanographic Significance of the Neoproterozoic Polanco Limestones Formation (Uruguay): Stratigraphy, Isotopic Geochemistry and Age" (Kurt O. Konhauser, 2016)
- Bernal, Nelson "The Evolution of Magmatic-Hydrothermal Fluids as Recorded by Stable CI Isotopes and Cl/Br Elemental Ratios in Geothermal Systems, Porphyry Copper and Iron-Oxide-Copper-Gold Deposits." (Sarah Gleeson, 2015)
- D'Amours, Real "An Investigation of the Processes involved in Tracer Transport and Exchanges Within and Between the Different Layers in the Atmosphere" (John Wilson, 2015)
- Dong, Tian "Geochemical, Petrophysical and Geomechanical Properties of Straigraphic Sequences in Horn River Shale, Middle and Upper Devonian, Northeastern British Columbia, Canada" (Nicholas Harris, 2016)
- Duran, Sandra "Plant Biodiversity Effects on Aboveground Carbon Storage in Second-Growth and Old-Growth Tropical Forests." (Arturo Sanchez-Azofeifa, 2015)
- King, Michael "Application of Ichnology Towards a Geological Understanding of the Ferron Sandstone in Central Utah." (S. George Pemberton and Murray Gingras, 2015)
- Magalhaes, Antonio J. C. "High-Resolution Sequence Stratigraphy in a Mesoproterozoic Intracratonic Sag Basin, the Tombador Formation, Chapada Diamantina Basin, Brazil." (Arturo Sanchez-Azofeifa, 2015)

- Magnall, Joseph M "Sediment-Hosted Pb-Zn-Ba Mineralisation at Macmillan Pass, Yukon (Canada) Hydrothermal Fluid Chemistry and Mineralising Processes." (Sarah Gleeson, 2015)
- McCrea, Richard "Selected Studies on Terrestrial Vertebrate Palaeoichnology of Western Canada" (S. George Pemberton, 2016)
- Petrash, Daniel "The Trace Metal Content of Modern and Ancient Peritidal and Shallow Subtidal Dolomites: Significance and Systematics" (Kurt O. Konhauser, 2016)
- Rankine, Cassidy James "Monitoring Seasonal and Secondary Succession Processes in Deciduous Forests Using Near-Surface Optical Remote Sensing and Wireless Sensor Networks" (Arturo Sanchez-Azofeifa, 2016)
- Reimink, Jesse Ray "Petrogenesis of the Acasta Gneiss Complex, Northwest Territories, Canada" (Thomas Chacko, 2016)

Masters (Arts):

- Cheesebrough, Alison E "Everyday Wild: How do Preserved Natural Areas in the City of Edmonton Contribute to Adult Perceptions of Health and Well-Being?" (Theresa Garvin 2015)

Masters (Science):

- Beaton, Neil I "Diagenetic Controls on Hydrothermal Fluid Flow in the Osiris, Isis, and Isis East Carlin-Type Gold Showings, Nadaleen Trend, Yukon." (Gleeson, 2016)
- Botterill, Scott E "Sedimentology, Ichnology, and Palaeodepositional Affinity of the Cretaceous Bluesky Formation, Alberta." (Gingras 2016)
- Brin, Laura E "The Age and Origin of Lithospheric Mantle Beneath Central Victoria Island and Parry Peninsula, Northern Canada." (Pearson 2016)
- Calvo Rodriguez, Sofia C "Ecosystem Services, Forest Characterization, and Light Diffusion of tropical Dry Forests." (Arturo Sanchez-Azofeifa, 2015)
- Chen, Lin "Further Re-Os Arsenopyrite Geochronology from Selected Meguma Au Deposits, Meguma Terrane, Nova Scotia: Possible Evidence for a Protracted Gold-Forming System." (Creaser, 2015)
- Gillard, Laua C "Ocean Circulation and Marine Terminating Glaciers of the Greenland Ice Sheet." (Myers, 2015)
- Hu, Nan "Refining an Inverse Dispersion Method to Quantify Gas Sources on Rolling Terrain." (Wilson, Reuter, 2016)
- Knapp, Levi J "Controls on Organic-Rich Mudstone Deposition: The Devonian Duvernay Formation, Alberta, Canada." (Harris, 2016)
- Kuchka, Cody R "Martian Near-Surface Materials in Shergottite Meteorites: Searching for Evidence from Tissint Shock-Melt Pockets." (Herd, 2016)
- Kuflevsky, Sergey V "Dolomite Recrystallization Along the Rimbey-Meadowbrook Reef Trend, Western Canada Sedimentary Basin, Alberta, Canada." (Machel, 2015)
- Li, Jianghanyang "Identify Metamorphic and Primary Multiple Sulfur Isotopic Signatures in the 2.7 Ga Pyrite Nodules from the Southwestern Superior Province (Minnesota, USA)." (Li, 2016)
- Liu, Lijuan "Geochemistry, Geochronology, and Fluid Inclusion Study of the Newton Epithermal Gold, and Morrison Porphyry Copper Deposits, British Columbia." (Richards, 2015)
- Mahony, Matthew "50,000 Years of Paleoenvironmental Change Recorded in Meteoric Waters and Coeval Paleoeological and Cryostratigraphic Indicators from the Klondike Goldfields, Yukon, Canada." (Froese, 2015)
- Marshall, Ginny A "Testing an Alternative Eddy Viscosity Scheme." (John Wilson, 2015)
- McMillan, Julia M "Expression of Major and Trace Element Signatures of the Frasnian Duvernay Formation Within a Sea Level Context: Insights into the Processes that Control Mudstone Composition, Paleoredox Conditions and Organic matter Enrichment." (Harris, 2016)
- Miles, Naomi E "Timing of Deposition and Geochemistry of Source Rocks in the Georgina Basin, Australia." (Creaser, 2015)

- Razavi Khosroshahi, Seyed A. M "Geology, Geochemistry, Geochronology, and Economic Potential of the Taftan Volcanic Complex, Southeastern Iran." (Richards, 2015)
- Sanders, Shelby C "Buickastuc Accumulations Along the Western Margin of the Early Triassic Montney Formation." (Zonnveld, 2016)
- Stan, Kayla D "Modelling Landscape Changes and Metrics, and Determining Optimal Resource Allocation by Integrating Geographic Information Systems, Government Policy, and Economics." (Arturo Sanchez-Azofeifa, 2015)
- Stone, Rebecca S. "The Behavior of Orthopyroxene in Carbonatitic Melts." (Luth, 2016)
- Sutton, Lindsay R. "Comparison of Simulated and Observed Severe Storm Tracks over Alberta." (Reuter, 2016)
- Tombe, Sean P "Age and Origin of the Brucejack Epithermal AU-AG Deposit, Northwestern British Columbia." (Gleeson, 2016)

UNIVERSITY OF CALGARY

PhDs:

- Barrett, Olesya "Measuring Accessibility to Primary Health Care Across the Urban-Rural Continuum in the Province of Alberta." (Bertazzon, June 2016)
- Ebrahimi, Samaneh "Modelling Sensitivity of Surface Energy Balance and Melt on an Alpine Glacier: Its Past and Future Under a Changing Climate." (Marshall, June 2016)
- Fuller, Mark "Passive and Active Microwave Remote Sensing and Modeling of Layered Snow." (Yackel, November 2015)
- McLane, Adam "An Agent-Based Modelling Framework for Whitebark Pine Restoration in the South Cascades, Washington." (McDermid, June 2016)

Masters (Arts):

- Edworthy, Sonia "Collective Action and Sharing Space Across Difference: A Participatory Case Study at the Old Y Building." (Miller, June 2016)
- Ladosz, Monika "Exploring Volunteers' Understanding of Harm in International Volunteering Projects: A Mental Models Approach." (Draper, June 2016)

Masters (Science):

- Brands, Lia "Using stepping stones and translocations to facilitate dispersal for the endangered Ord's kangaroo rat, *Dipodomys ordii*." (Bender, June 2016)
- Burley, Brianna "Determinants of Risk in Bear-Train Encounters." (Draper, June 2016)
- Lantz, Jamie "Coyote (*Canis latrans*) occurrence relative to human use on Glenbow Ranch Provincial Park, Alberta." (Alexander, June 2016)
- Leclair, Adam "The Surface Footprint of Bioturbation in a Prairie Sandhill Ecosystem: Resolving the Spatial Distribution and Geochemical Implications." (Hugenholtz, November 2015)
- Mahmud, Mallik "Sea Ice Melt Onset Dynamics in the Northern Canadian Arctic Archipelago from RADARSAT, 1997-2014." (Yackel, June 2016)
- McWilliams, Benjamin "Influence of Habitat Disturbances on Endemic Grassland Bird Distributions in Loamy Ecological Range Sites at Canadian Forces Base Suffield, Alberta." (Bender, November 2015)
- Ryan, Susan "Evolution of Low Impact Development in Calgary, Alberta." (Draper, November 2015)
- St. Germain, Sarah "The Evolution of a Pulsating Supraglacial Stream." (Moorman, November 2015)

Masters (Geographic Information Systems):

- Fraser Jesse "Unmanned Aerial Systems, Overlap and Elevation: A Study in Accuracy and Precision Arctic and South Calgary." (Moorman, June 2016)

- Graham Taylor "Visualization of LiDAR Digital Terrain Models for the Detection of Prehistoric Archaeological Features in Alberta." (Moorman, June 2016)
- Incontri Carla "Visualizing Internet Discourses and the Politics of the Internet: An Exploratory Analysis of Peru's 2009 Amazon Indigenous Protests using Geographic Information Systems." (Davidsen, June 2016)
- Li, Shuyan "Estimation of the Potential Number of Secondary Suites within Proximity to Primary Public Transit Stations in Calgary." (Miller, November 2015)
- Mehmood, Khalid "Determining Optimal route for Power Line Extensions and Vegetation Analysis in Power Line Corridor Using GIS and Remote Sensing Methods." (Hall-Beyer, November 2015)
- Pfeifer, Mark "Cycling and Transit Integration: Creating Commutersheds for Cycling Network Evaluation around Transit Stations in Calgary, Alberta." (Miller, November 2015)
- Schimnowsky, Mark "Characterizing potential avalanche release areas in Glacier National Park, British Columbia, Canada." (Martin, November 2015)
- Wismer, Daniel "Morphometric Analysis of 5th Order Drainage Basins, Kananaskis AB Examining Committee." (Martin, November 2015)
- Zhang, Linghu "Vegetation Change Detection in Semi-arid Area of Columbia Plateau, US from 2000 to 2014 using MODIS images." (Hall-Beyer, November 2015)

BRITISH COLOMBIA

SIMON FRASER UNIVERSITY

PhD:

- Amram, Ofer "Spatial epidemiology of child and youth injury." (Dr. Schuurman, 2015)
- Ho, Hung Chak "Spatial influences of heat exposures and social vulnerability on the temperature-mortality relationship: A case study in the Greater Vancouver area." (Dr. Schuurman, 2016)
- Johnston, Roderick Neil "Exploring the influences on the Caribbean's emerging medical tourism industry." (Dr. Crooks, 2016)
- Latt, Sai Soe Win "Depoliticization, securitization and violent accumulation in the integration of the Greater Mekong Sub-region." (Dr. Sturgeon, 2016)
- Makanga, Prestige Tatenda "The place of geographic information and analysis in global health: A case of maternal health in regions of southern Mozambique." (Dr. Schuurman, 2016)
- Perkins, Andrew James "Refining the pattern and style of deglaciation on the southern Fraser Plateau and environs." (Dr. Brennand, 2015)

Masters (Arts):

- Keane, Oliver "Social enterprise in British Columbia: The profile page as a crisis heterotopia." (Dr. Hall, 2016)

Masters (Science):

- Camp, Philip Edward "Human-fire interactions in British Columbia: varying constraints of human-caused wildfire occurrence and geography of the wildland-development interface." (Dr. Krawchuk, 2015)
- Cunada, Christopher Luke "Seasonal Methane Dynamics in Lakes of the Mackenzie River Delta, Western Canadian Arctic." (Dr. Lesack, 2016)
- Gitto, Alessandro Biagio "Representative point-integrated suspended sediment sampling in rivers." (Dr. Venditti, 2015)
- Koziatek, Olympia "Four-dimensional geospatial approaches for modeling vertical urban growth." (Dr. Dragicevic, 2016)

- Scarpone, Christopher Frank "Modelling of exposed bedrock and soil depth in the critical zone of Southern British Columbia." (Dr. Schmidt, 2015)
- Ton, Michael "The effects of disturbance history on the taxonomic and functional composition of ground-layer plant communities." (Dr. Krawchuk, 2015)

UNIVERSITY OF BRITISH COLOMBIA

PhD:

- Hoogveen, Dawn "Geographies of settler colonial dispossession: rejecting gold and prosperity on Tsilhqot'in territory." (Sundberg, Le Billon, 2016)
- Kennedy, Emilia "Labours of technology: carbon capture and storage in Alberta, Canada." (Kuus, 2016)
- Sepúlveda, Claudia "Swans, ecological struggles and ontological fractures: a posthumanist account of the Río Cruces disaster in Valdivia, Chile." (Sundberg, 2016)
- Webber, Sophie Rachel "Adaptation ecologies: circuits of climate change finance, policy, and science in the Pacific Islands." (Donner, 2015)

Masters (Arts):

- Byrne, Nicholas "The little port that could: changing port governance in Prince Rupert, British Columbia, 1945-2014." (Edgington, 2015)
- Clarkson, Molly "Speaking for sockeye, speaking for themselves: First Nations engagement in the Cohen Commission (2009 - 2012)." (Wynn, 2016)
- Daniels, Joseph A "Securitizing spectacle: property, real estate investment trusts, and the financialization of retail space in Singapore." (Barnes, Wyly, 2015)
- Hawes, Emily Jeanne "Geographies of indebtedness: the spatial nature and lived experiences of household debt in Metro Vancouver." (Ley, 2016)
- Izquierdo Mejia, Esteban "Spaces of cultural resistance: underground libraries in the U.S. Southwest." (Sundberg, 2015)
- Johnson, Kelsey Mae "Performing the nation at the frontier: Filipino immigration and settlement in Whitehorse, Yukon." (Pratt, 2015)
- Srivastava, Shambhavi "Meaning-making of historical episodes by the Punjabi-Sikh youth in Vancouver." (Hiebert, 2015)
- Sutherland, Colin Robert "Destination Arctic: bureaucracy, tourism, and identity in Canada." (Kuus, 2015)
- Xia, Tian "Northeast China and uneven development under the influence of China's reform and opening up." (Edgington, 2015)

Masters (Science):

- Lau, Justin A "Caribbean sea surface temperatures and El Niño : a new outlook." (Donner, 2016)
- Lee, Joseph K "A mobile sensor network to map CO₂ emissions in urban environments." (Christen, 2016)
- Moyer, Alexis "Streamflow response during the rapid retreat of a lake-calving mountain glacier." (Koppes, 2015)
- Papangelakis, Elli "The effects of channel morphology on the mobility and dispersion of sediment in a small gravel-bed stream." (Hassan, 2015)
- Richardson, Mark E "Refinement of tracer dilution methods for discharge measurements in steep mountain streams." (Moore, 2015)
- Trowbridge, Charlotte C "Long-term effects of prairie restoration : community structure and native plant population dynamics 6 years after experimental management." (Williams, 2015)
- Winterhalt, Lesley Marie "Physical habitat below a hydropeaking dam: examining progressive downstream change." (Eaton, 2015)

ONTARIO

BROCK UNIVERSITY

Masters (Arts):

- Abanga, Edna "Access to health care services in Ghana" (major research paper) (David Butz, 2015)
- Agyemang, Maame Achiaa 'Climate Change, Food Security and Vulnerability in Northern Ghana's Upperwest Region' (Major Research Paper) (Anthony Shaw, 2016).
- Ahmed, Razu 'Assessing landscape-scale changes in shrub proliferation in Old Crow Flats, Yukon using remote-sensing approaches' (Major Research Paper) (Kevin Turner, 2016).
- Ayerteh, Michael Ayerh K. 'Social and Environmental Impact of Large Scale Mining in Ghana: A case study of the Tarkwa Nsuaem Municipal Assembly' (Major Research Paper) (David Butz, 2016)
- Islam, Towfika "Impacts of Climate Change on Rice Production in the North-Western Region of Bangladesh"(major research paper) (Tony Shaw, 2015)
- Khatcherian, Myda "Is green the new black? An analysis of sustainable consumer discourses in Elle Canada and Fashion Magazine" (major research paper) (Mike Ripmester, 2015)
- Kyeremeh, Emmanuel "Exploring the discourse of skill/s mismatch in Ghana" (major research paper) (Jeff Boggs, 2015)
- Owusaa, Diana. 'The Role of Transnational Funeral Celebrations in connecting Ghanaian (Akan) Women in Toronto to Ghana' (Major Research Paper) (Michael Ripmester, 2016).
- Russumanno, Paolo 'Art is the New Steel': Marketing Creative Urbanism in Twenty-First Century Hamilton, Ontario' (Thesis) (Phil Mackintosh, 2015).
- Szymanski, David "The emerging militarization of Canadian Sport, Space, and Society" (major research paper) (Phil Mackintosh, 2015)
- Vinnai, Cody 'Feasibility Assessment of Norfolk County for Hazelnut Production' (Major Research Paper) (Anthony Shaw, 2016).
- Warren Jenkinson "Geographical applications for sound walks" (thesis) (David Butz, 2015)

MCMASTER UNVIERSITY

PhDs:

- Agyekum, Boadi. "A Mixed-Method Analysis of Sense of Place and Mental Wellbeing of Visible Minority Immigrants." (Dr. Bruce Newbold, 2016)
- Beatty, Sarah. "Dynamic Soil Water Repellency in Hydrologic Systems." (Dr. James Smith, 2016)
- He, Li. "Methodological Considerations on the Dpatial and Temporal Analysis of Violent Crime Patterns and the Identification of Social and Environmental Correlates of Crime." (Dr. Antonio Paez, 2016)
- Hendricks, Robert. "Timing of The Emplacement of Ancient Coastal Deposits of Georgia Aided By Ground Penetrating Radar and Determined By Optically Stimulated Luminescence and Electron Spin Resonance Optical Dating." (Dr. Jack Rink, 2015)
- La Monica, Nancy. "Surviving or Thriving in Academia: Autoethnographic Accounts of Non-Visibly Disabled Grads' Experiences of Inclusion and Exclusion." (Dr. Vera Chouinard, 2016)
- Radisic, Sally. "Factors Influencing Air Quality Health Index Adoption By The At Risk Population in Hamilton, Canada." (Dr. Bruce Newbold, 2016)

Masters (Arts):

- Urbalonis, Nicole. "Preterm Birth: Perspectives on Resource Access and Pregnancy Experience." (Dr. John Eyles, 2016)

Masters (Science):

- Arcuri, Gabriel. "Whole-Rock Pb Isotope Delineation of Archean and Paleoproterozoic Crustal Terranes in the Grenville Province and Adjacent Makkovik Province: Evidence for Juvenile Crustal Growth during the Paleoproterozoic." (Dr. Alan Dickin, 2016)
- Bennett, Darla. "An investigation into the influence of microbes on the cycling of sulfur in a net neutral oxidation reservoir in Sudbury." (Dr. Warren Lesley, 2016)
- Brown, Alyson. "Paleoenvironmental Analysis of Namu Lake, British Columbia." (Dr. Ed Reinhardt, 2016)
- Chan, Felix. "Carbon, Water, and Energy Dynamics of a Temperate Pine Forest During the First Decade Since Plantation on a Former Cropland." (Dr. Altaf Arain, 2016)
- D'Alessandro, Marc. "Development of Intensity-Duration-Frequency Curves Using Local and Regional Scale Methods." (Dr. Paulin Coulibaly, 2016)
- Daly, Katelynn. "An Analysis of Soil Respiration in a Temperate Deciduous Forest Ecosystem." (Dr. Altaf Arain, 2016)
- Didemus, Benjamin. "Water Storage Dynamics in Peat-Filled Depressions of the Canadian Shield Rock Barrens: Implications for Primary Peat Formation." (Dr. Michael Waddington, 2016)
- Duggan, Sydney. "Hydrogeological Assessment at The Clarington Transformer Station Using a Conventional Well Cluster with Recommendations to Establish an Advanced Groundwater Monitoring Station." (Dr. James Smith, 2016)
- Hodson, Alex. "OSL Dating of a Woodland Period Occupation at the Hare Hammock Ring and Mound Complex, Bay County, Florida." (Dr. Jack Rink, 2015)
- Ie, Kesia. "Oxygen Isotope Fractionation Between Hydroxyapatite (HAP)-Bound Carbonate and Water at Low Temperatures." (Dr. Sang-Tae Kim, 2016)
- Kimmerle, Stephanie. "Facies Analysis and Paleodischarge of Rivers within a Compound Incised Valley, Cretaceous Ferron Sandstone, Utah." (Dr. Janok Bhattacharya, 2016)
- Lee, Jung. "Biophysical and Economic Analysis of Black Spruce Regeneration in Eastern Canada using Global Climate Model Productivity Outputs." (Dr. Altaf Arain, 2016)
- Lee, Rebecca. "Landsystem Analysis of Three Outlet Glaciers, Southeast Iceland." (Dr. John MacLachlan, 2016)
- McCann, Cameron. "Utilizing Ground Level Remote Sensing to Monitor Peatland Disturbance." (Dr. Michael Waddington, 2016)
- MacKinnon, Brandon. "Interacting Effects of Post-Wildfire Hydrophobicity and Vegetation Recovery in a Poor Fen Peatland." (Dr. Michael Waddington, 2016)
- Rastelli, Jessica. "Dissolved Organic Carbon Concentration, Patterns and Quality at a Reclaimed and Two Natural Wetlands, Fort McMurray, Alberta." (Dr. Sean Carey, 2016)
- Spennato, Haley. "An Assessment of the Water Table Dynamics in a Constructed Wetland, Fort McMurray, Alberta." (Dr. Sean Carey, 2016)
- Yawar, Sadia. "An Analysis of Commuting Distance and its Controlling Factors in the GTHA." (Dr. Pavlos Kanaroglou, 2016)

QUEEN'S UNIVERSITY

PhDs:

- Subedi, Rajendra "Healthy Immigrants? Healthy Workers? High-Skilled Immigrants Working in Low-Skilled Jobs in Ottawa, Canada." (Rosenberg, 2016)
- Acara, Eda "Conflict Geographies of Water Pollution in Thrace Region of Turkey." (Kobayashi, 2015)
- Chaput, Paul "Planting Stories, Feeding Communities: Knowledge, Indigenous Peoples and Film." (Lovell, 2015)
- Hemsworth, Katie "Carceral Acoustemologies: Sonic Enactments of Space and Power in Prisons." (Davidson, Cameron, 2015)

- Herron, Rachel "Caring Places for Dementia: Examining the Continuum of Care in Rural and Small Town Ontario." (Rosenberg, 2015)
- Yu, Jie "Old Age, Place and Care: The Experiences of Aging in Place in Beijing, China." (Rosenberg, 2015)

Masters (Arts):

- MacCallum, A. Megan "Employment Associated with Renewable and Sustainable Energy Development in the Kingston Region." (Mabee, 2015)
- Bains, Gurveer "Mixing health and geography: A study of risks associated with cardiovascular disease for the Punjabi Sikh population in the Regional Municipality of Peel." (Rosenberg, 2015)
- Davidson, Mélanie Josée "Ensalada Mixta: Geographical Explorations of Food and Cuba." (McDonald, 2015)
- Lamb, Christopher "(Neo)Liberal Scripts: Settler Colonialism and the British Columbia School Curriculum." (Godlewska, Anne; 2015)
- Loh, Paula "What is wrong with this picture? Indigenous artists contest the "place" of Indigenous people in Canada." (Kobayashi, Audrey; 2015)
- Salvador, Roselyn "Migrant Workers and the Canadian Live-in Caregiver Program: The Impact on Multigenerational Family." (Kobayashi, Audrey; 2015)
- Weima, Yolanda "Villagisation for our Time: Neoliberal Governmentality and the Experiences of Villagised Burundian Returnees." (Mullings, Beverley; 2015)
- Wideman, Trevor "(Re)assembling "Japantown": A Critical Toponymy of Planning and Resistance in Vancouver's Downtown Eastside." (Kobayashi, Masuda, 2015)

Masters (Science):

- Blaser, Amy "Spatial and Temporal Patterns of Carbon Dioxide Exchange for a Wet Sedge Plant Community, Melville Island, NU." (Scott, Paul, 2016)
- Bolduc, Christopher "Thermal Evidence for Surface and Subsurface Water Contributions to Baseflow in a High Arctic River." (Lamoureux, 2015)
- Brehaut, Lucas "The use of NDVI and Tree Ring-widths to Evaluate Changes in Vegetation Production in a Mountainous Boreal Landscape." (Danby, 2015)
- Buckely, Emma "Spatial and Temporal Patterns of Net Carbon Exchange in the Polar Semi-Desert Vegetation Type on Melville Island, Nunavut." (Scott, Treitz, 2015)
- Cheng, Angela P.Y. "Spatial-Temporal Analysis of Lyme Disease Risk Due to Climate Change in Southern Ontario from 2001 to 2014." (Chen, 2015)
- Kjikjerkovska, Elizabeta "Long-Term Hydroclimatic Change and Interannual Variability in Water Sources, Apex River (Iqaluit), Baffin Island, Nunavut." (Lafrenière, Lamoureux, 2016)

Masters (Planning):

- Shmulevitch, Michael "Rise of Rental: Encouraging the Development of Purpose-Built Rental Apartments Across Vancouver and Toronto." (Andrew, 2016)
- Bang, Elizabeth "The Sustainable Campus: A Comparison of Comprehensive Sustainability Policies in the Campus Master Plans of the University of Guelph and Queen's University." (Gordon, 2015)
- Dia, Ibrahim "Urbanizing Suburban Downtowns: Transit-Supportive Design Guidelines for Downtown Mississauga." (Agarwal, 2015)
- Coates, Victoria "Planning Senior-Friendly Neighbourhoods for Instrumental Activities of Daily Living: An evaluation of Macassa and Glenview West, Hamilton, Ontario." (Collins, 2015)
- Finkler-Kemeny, Kate "The LEEDing Attraction to the BEST: Exploring the attraction to certified, sustainable commercial office space in downtown Toronto, Ontario, Canada." (Andrew, 2015)

- Fotino, Anthony "Walkability of Three Southern Ontario Inner City University Campus Thoroughfare Streets: Assessing the Physical and Perceptual Qualities of the Built Environment." (Collins, 2015)
- Gunasekara, Dhilan "Planning for the Flood Fringe: A Comparative Analysis of Two Zone Concept Planning Policies Used by Conservation Authorities in Southern Ontario." (Whitelaw, 2015)
- Huang, Dilys "Condos, Lettuce, and Tomatoes: Factors Influencing the Provision of Food Production Spaces in New Multi-Unit Residential Developments in Toronto and Vancouver." (Viswanathan, 2015)
- Jiang, Jessica "Families, a vital resource for the planning and survival of resource towns: Case Studies of Kitimat, Fort St. John and Tumbler Ridge." (Viswanathan, 2015)
- Katyal, Himanshu "From a lot to a lot better: Perceptions of security and attractiveness of design features of two parking lots in the City of Kingston." (Viswanathan, 2015)
- Louie, Vincent "Falling Down and Climbing Up the Ladder of Neighbourhood Change: Filtering and Gentrification in Metro Vancouver, 1981-2006." (Skaburskis, 2015)
- MacDonald, Natasha "Addressing Core Housing Need in the City of Saint John, New Brunswick." (Streich, 2015)
- McIntosh, Robert "Linking Bike Path to Train Track: Recommendations for Improved Bicycle Parking Facilities at the Future Baseline LRT Station, Ottawa." (Agarwal, 2015)
- Misiak, Andrew "Comparing the Potential for Creative Clusters for Urban Regeneration." (Meligrana, 2015)
- Newton, Randi "Exploring the factors that support cooperative and equitable municipal-First Nation relationships: A case study of the City of Calgary and the Tsuut'ina Nation." (Viswanathan, 2015)
- O'Neill-Kizoff, Cian "Sustainability at the Urban-Rural Fringe: Assessing the implications of agriburban development for planning sustainable communities in the whitebelt of the Greater Golden Horseshoe." (Collins, 2015)
- Romlewski, Samantha "Revitalizing the Beachway Park: Recommendations for Improving the Waterfront Trail along the shores of Burlington, Ontario." (Agarwal, 2015)
- Shuhaibar, Mazen "Retrofitting for sustainability: Assessing the sprawl repair potential of three commercial centres in Hamilton, Ontario." (Meligrana, 2015)
- Spessot, Miranda "Sustainability at the Urban-Rural Fringe: Assessing the implications of agriburban development for planning sustainable communities in the whitebelt of the Greater Golden Horseshoe." (Collins, 2015)
- Suffel, Jordan "Evaluating the Walkability of Traditional Main Streets: A Comparative Analysis of downtown Brockville, Cornwall and Kingston, Ontario." (Whitelaw, 2015)
- Tan, Diane "Community Based Development in Rideau Heights: The Case for a Community-Driven Storefront Initiative." (Viswanathan, 2015)
- Tejani, Shazeen and Smith, Molly "Tackling Tactical Urbanism: Exploring the Potential for Improved Social Spaces on Queen's University Campus." (Gordon, 2015)
- Thibault, Jenna "How Age-Friendly are Kingston's Suburban Streets? A comparative case study analysis of Kingston, Ontario." (Collins, 2015)
- Thomassen-Darby, Corinna "Reanimating a Forgotten Crossing: Design recommendations for the redevelopment of Ottawa's Prince of Wales Bridge into a multifunctional rail-trail bridge." (Agarwal, 2015)
- Tootoonchian, Pegah "PARK IT - Examining urban green spaces in the downtown core of Toronto, Ontario." (Collins, 2015)
- Von Hausen, Athena "Woodward's: Urban Design and Public Space - Measuring a Sense of Place." (Viswanathan, 2015)
- Zuk, Daren "Old Buildings, Great Beer: Lessons of Adaptive Reuse and Microbreweries in the City of Toronto." (Bray, 2015)

Masters (Planning) Coursework only graduates in Fall 2015 and Spring 2016:

Caldwell, John
Carr, Andrew
Church, Nicolas
Duval, Tyler
Eaton, Kirsten
Goodge, Benjamin
Henderson, Brandon
Kucharczuk, Daniel
Lefaive, Joseph
Marsili, Matthew
Matusik, Dominik
Meghani, Noorali
Morrow, Caroline
Norris, Michael
Pedersen, Mark
Pineau, Asia
Qin, Yi
Rathwell, Graham
Scrannage, Heather
See-Har, Danna
Shanks, Amy
Skidmore, Spencer
Snowball, Ryan
Spolsky, Thomas
Tardif, Rene
Wagar, Barrett

Bachelors (Geography):

Aarssen, Jonathan "Knowledge, Indigenous Peoples, and Film."
(Lovell, Winter 2016)
Crawford, Peter "Looking Back in Time: Using Historical Aerial Imagery to Understand Changes in a Glaciolacustrine Delta."
(Danby, Winter 2016)
Ezzio, Sarah "An Analysis of Seasonal Digital Hemispherical Photographs for the Determination of Woody-to-Total Area Ratios and Leaf Area Index for a Mixedwood Forest." (Treitz, Winter 2016)
McCarter, Siobhan "Long-Term Impact of Petroleum Exploration in the Canadian High Arctic." (Lamoureux, Winter 2016)
Minielly, Rebecca "Realizing the Sustainability Potential of Organized Garden Projects at Queen's University in Kingston, Ontario." (Donald, Winter 2016)
Rusk, Bridget "Characterization of the Geochemical Processes and Importance of Subsurface Water Input at the Confluence of the Apex River in Iqaluit, NU." (Lafrenière, Winter 2016)
Stansfield, Kaitlin "Effects of Perennial Biomass Grasses and Fertilizer Inputs on Soil Quality in Bath, Ontario." (Scott, Winter 2016)

UNIVERSITY OF GUELPH

PhD:

Holmes, Elizabeth "Fostering the provisioning of ecosystem services by private landownership." (Bradshaw, 2015)
Manson, Gavin "Nearshore Sediment Transport in a Changing Climate: North Shore of Prince Edward Island, Canada." (Davidson-Arnott, 2016)
Stretch, Vanessa "A multiproxy reconstruction of mixed-severity wildfire dynamics in the Foothills of the Rocky Mountains, Alberta, Canada." (Gedalof, 2016)

Masters (Arts):

Brander, Georgia "Selling Conservation? The Role of Volunteer Tourism in Supporting Marine Conservation in Southern Belize." (Gray, 2016)

Mayberry, Allison "Human Dimensions of Human-Elephant Conflict in Botswana: Exploring Visible and Hidden Well-Being Impacts." (Hovorka, 2015)
Stephany, Paul "Cartography and contested ocean space: an analysis of clam gardens and intertidal spaces in the territory of the Heiltsuk First Nation." (Silver, 2015)
Ravensbergen, Sarah "Marine Conservation And Volunteer Tourism: Examining Community Perceptions In Sarteneja, Belize." (Gray, 2016)
Van Bommel, Alexis "Wasting Food is Rubbish: Barriers and Opportunities for Food Waste Diversion in Guelph, Ontario." (Parizeau, 2016)

Masters (Science):

Chabot, Melanie "Characterizing Agricultural Surface Roughness Using a Terrestrial Laser Scanner: Implications for Soil Moisture Retrieval from Remote Sensing Products." (Berg, 2016)
Davis, Lindsay "Overwinter habitat of minnows in small, southern Ontario streams." (Cockburn, 2016)
Padovan, Patrick "Hydrogeomorphic Adjustments in Urban Channel Restoration Projects." (Cockburn, 2016)
Parker, Colleen "Examining the Vulnerability of an Inuit Food System to Climate Change in the Context of Climatic and Non-Climatic Stressors: A Case Study of Ulukhaktok, NT." (Bradshaw, 2016)
Williamson, Matthew "A critical evaluation of the Hydra Probe for use in the validation of remote sensing soil freeze/thaw products." (Berg, 2016)

UNIVERSITY OF TORONTO

PhD:

Abbasi, Golnoush "Story of Flame Retardants: Substance Flow Analysis of PBDEs from Use to Waste." (Diamond, 2015)
Alene, Nebiyu Baye "City Cleaning as a Project of Rationalizing Citizenship: a Critical Investigation of Waste Collection Practice in Addis Ababa, Ethiopia (2003-2012)." (Maclaren, 2015)
Arviv, Tamir "The Diverse Geographies of Jewishness: Exploring the intersections between Race, Religion and Citizenship among Israeli Migrants in Toronto." (Leslie, Mahtani, 2016)
Barykina, Natalia "Socialist Constructions: Modern Urban Housing and Social Practice." (Ruddick, 2015)
Mui, Amy Bliss "A Multi-Temporal Remote Sensing Approach to Freshwater Turtle Conservation." (He, 2015)
Noyce, Genevieve LaBombard "Biochar and Wood Ash Impacts on Soil Microbial Community Structure and Biogeochemical Functioning in Forests." (Basiliko, Fulthorpe, 2016)
Packalen, Maara Susanna "Finkelstein Holocene Dynamics in the Patterned Peatlands of the Hudson Bay Lowland, Canada: Reducing Landscape-Scale Uncertainty in a Changing Climate." (Finkelstein, 2015)
Richardson, David Buress "Modeling, Optimization and Large-Scale Grid Integration of Solar Photovoltaic Energy in Ontario's Electricity System." (Harvey, 2016)
Seitz, David "A House of Prayer for All People: Promises of Citizenship in Queer Church." (Cowen, Georgis, 2015)
Shimoda, Yuko "Integration of Novel Mathematical and Statistical Techniques to Support Model-based Water Quality Management." (Arhonditsis, 2015)
Story, Brett Patricia "Dis-placing the Prison: Carceral Space, Disposable Life, and Urban Struggles in Neoliberal America." (Cowen, 2015)
Teepie Hopkins, Carmen "Precarious Work in Montreal: Women, Urban Space, and Time." (Goonewardena, 2016)
Winsborough, Carolyn Louise "Soil Nutrient and Greenhouse Gas Cycles in Managed Mixed Deciduous Ontario Forests: The Role of Elevated Atmospheric Nitrogen Deposition and Nutrient and Biochar Amendments." (Basiliko, 2015)

Masters (Arts):

- Fisher, David "The Speculative Temporalities of Landholding: Past, Present and Future." (Kepe, 2016)
- Grise, Emily "A Spatial Analysis of Pedestrian Injury in the City of Toronto." (Buliung, 2015)
- Harris, Rachel "We Exist. We're Not Just Some Fairytale in a Book": Migration Narratives of LGBTQ2S Aboriginal People in Toronto." (Wilson, 2015)
- Ravensbergen-Hodgins, Lea "Socioeconomic Discrepancies in Children's Accessibility to Health Promoting Resources: An Activity Space Analysis." (Buliung, 2015)
- Sarrazin, Marie-Line "The Political Ecology of Indigenous Territorial Struggles in the Darién, Panama: Land Invasions, Partial State Recognition, and Racialized Discrimination in the Emberá-Wounaan Collective Land Struggle." (Abizaid, 2015)
- Vaz-Jones, Laura "The Politics of Claims-Making on Cape Town's Urban Peripheries: The Ithemba Farmers' Land Occupation." (Kepe, Hunter, 2016)

Masters (Science):

- Arabian, Joyce "Retrieving leaf chlorophyll content in wheat and corn using Landsat-8 imagery." (Chen, 2015)
- Buchanan, Sarah "Intraspecific Variation in Leaf and Root Traits Across Nutrient and Light Gradients in Coffee Agroforestry Systems." (Isaac, 2016)
- Didiano, Teresa Julia "The Impact of Variable Precipitation on the Performance of Wetland and Grassland Plants." (Duval, Marc Johnson, 2015)
- Jung, Jenny Ha Yon "Tropospheric Ozone Variations over North America." (Liu, 2015)
- Malone, Matthew "Hydrological and Biogeochemical Fluxes of Throughfall and Stemflow in Temperate Swamps." (Duval, 2015)
- Megens, Anna Marie "Development of Sand-Bedded Rivers in Glaciated Southern Ontario." (Desloges, 2015)
- Sage, Larissa Katherine "Recovery of Boreal Forest Carbon Pools Following Stem-Only Harvesting in Quebec, Canada." (Smith, 2016)

UNIVERSITY OF WATERLOO

PhD:

- Abu Bakar, Nor Azlina "The Importance of Institutional Arrangements for Sustainable Livelihoods: The Case of Tun Sakaran Marine Park, Sabah, Malaysia." (Wall, 2016)
- Bisung, Elijah "Social Capital, Collective Action and the Water-Health Nexus in Rural Kenya." (Elliott, 2015)
- Gunn, Grant "Re-Evaluating Scattering Mechanisms in Snow-Covered Freshwater Lake ice Containing Bubbles Using Polarimetric Ground-Based and Spaceborne Radar Data." (Duguay, 2015)
- Ketcheson, Scott "Hydrology of a Constructed fen Watershed in a Post-Mined Landscape in the Athabasca oil Sands Region, Alberta, Canada." (Price, 2016)
- Moghal, Zainab "A Climate Change Vulnerability Assessment of a Tourism Destination Community (A Case-Study of Oistins, Barbados)." (Scott, 2016)
- Xu, Xiaoyong "Assimilation of Remotely Sensed Soil Moisture in the MESH Model." (Li, Tolson, 2016)
- Zolfaghari, Kiana "Retrieval of Lake Erie Water Quality Parameters From Satellite Remote Sensing and Impact on Simulations With a 1-D Lake Model." (Duguay, 2016)

Masters (Arts):

- Agar, Lauren "Metrics for Evaluating Walking School Bus Programs: A Case Study of Waterloo Region, Ontario." (J. Andrey, 2016)
- Allaire, Alysha "Last Chance Tourism in Canada's Parks and Protected Areas: A Case Study of Wapusk National Park and Jasper National Park." (Scott, MRP, 2016)

- Du, Yikang "How do vegetation density and transportation network density affect crime across an urban central-peripheral gradient: a case study in Kitchener- Waterloo, Ontario." (Law, MRP, 2015)
- Huber, Sara "Evaluating Tailored Feedback for Re-Engaging Residential Smart Grid Users: A Case Study in Milton, Ontario." (PParker, 2016)
- Regnier-Davies, Jenelle "'Fake Meat and Cabbageworms': Connecting Perceptions of Food Safety and Household Level Food Security in Urban China." (Scott, 2015)
- Shao, Jingya "Social Vulnerability and Resilience mapping of flooding in Surrey." (Tan, Mortsch, MRP, 2016)
- Tadgell, Anne "Last but not least: Resettlement as a climate change adaptation strategy in Metro Manila, Philippines." (Doberstein, 2016)

Masters (Science):

- Balulescu, Andrei "An economic analysis of retail market potential using demographics and spatial analysis in Ontario, Canada." (Robinson, 2015)
- Bocking, Emma "Analyzing the impacts of road construction on the development of a poor fen in Northeastern Alberta, Canada." (Price, 2015)
- Chan, Jeffrey "Monitoring Ice-dammed Glacier Lake Outburst Floods in the Karakoram Using Visible-Infrared Satellite Remote Sensing Observations." (Kelly, Evans, 2016)
- Depante, Midori "Nutrient and Hydrologic Conditions Post-Fire: Influences on Western Boreal Plain Aspen (*Populus tremuloides* Michx.) Re-establishment and Succession." (Petrone, 2016)
- Lam, Wai-To "Effects of Hydroclimatic Drivers and Tillage Practices on Runoff Generation and Phosphorus Losses Through Drainage Tiles from Agricultural Fields with Sandy Loam Soils." (Macrae, English, 2016)
- Leclair, Melissa "The hydrological interactions within a mine impacted peatland, James Bay Lowland, Canada." (Price, 2015)
- Mills, Angela "Seasonal and Event-based Hydrological Response in a Hillslope-Riparian Zone setting of the Temperate Beverly Swamp." (Macrae, Roy, 2015)
- Minano, Andrea "Supporting Local Climate Change Adaptation with the Participatory Geoweb: Findings from Coastal Nova Scotia." (Johnson, 2015)
- Minokhin, Ivan "Forecasting northern polar stratospheric variability using a hierarchy of statistical models." (Fletcher, 2016)
- Perras, Emily "Hydrological and Geochemical Implications of Aquifer Depressurization on Expansive Peatland Systems in the Hudson/James Bay Lowlands." (Price, Whittington, 2016)
- Pilon, Jenna "Characterization of the Physical and Hydraulic Properties of Peat Impacted by a Temporary Access Road." (Petrone, Macrae, 2016)
- Scarlett, Sarah "Characterizing controls on plot-scale evapotranspiration and soil water dynamics of a constructed fen in the Athabasca Oil Sands Region, Alberta." (Price, Water, 2016)
- Tang, Wen "Monitoring Soil Moisture and Freeze/Thaw State Using C-band Imaging Radar." (Kelly, 2015)
- Thompson, Aaron "Observations of Moderate to Deep Seasonal Snow in Agricultural Fields with a Radar Scatterometer at Ku- and X-band Frequencies." (Kelly, 2016)
- Wang, Lanying "Semi-automated Generation of High-accuracy Digital Terrain Models along Roads Using Mobile Laser Scanning Data." (Li, 2016)
- Wang, Minjie "Are Urban Heat Islands Linked to Global Warming?" (Li, 2016)
- Zhou, Menglan "Automated Extraction of 3D Building Windows from Mobile LiDAR Data." (Li, 2016)

Masters of Environmental Studies (MES):

- Caradima, Bogdan "Multi-criteria suitability analysis and gravity modeling of retail store location in Ontario, Canada." (Robinson, 2015)

- Eger, Sondra "Multi-Stakeholder Perspectives on Coastal and Marine (Connectivity) Management in Dominican Republic." (Doberstein, Water, 2016)
- Guo, Peiran "Weather and Air Quality Preferences of Urban Tourists in China." (Scott, MRP, 2015)
- Li, Bowen "Oil spills on soil: effect, clean up technology and management." (McKenzie, MRP, 2015)
- Li, Wei "Monitoring Land Use and Land Cover Changes in the Greater Toronto Area Using Landsat Imagery from 1984 to 2014." (Li, MRP, 2016)
- Majeed, Maliha "Examining the Facilitation of Climate Change Adaptation Strategies: A case for Lennox Island, Prince Edward Island and the Town of Lockport, Nova Scotia." (Wandel, 2015)
- Marshman, Jennifer "Gleaning in the 21st Century: Urban Food Recovery and Community Food Security in Ontario, Canada." (Scott, Quilley, 2016)
- McClean-Purdon, Erin "At the Intersection of People, Politics, and Protected Areas: A Mixed Methods Case Study on the Human Dimensions of Conservation in the Buffer Zone of Chitwan National Park, Nepal." (Nepal, 2016)
- Mostolizadeh, Sayedali "How 'Tourism Things' do Things: Tracing the Trajectories of Objects of Travel in a Practice of Trekking to the Mount Everest Basecamp." (Nepal, Tourism, 2016)
- Mu, Yang "Local Perspectives of Sacred Landscapes and Tourism: Exploring the Linkages in Sagarmatha (Mt. Everest) National Park, Nepal." (Nepal, Tourism, 2016)
- Patara, Saveena "Examining drinking water vulnerability and governance through a climate change adaptation lens for Nova Scotia's rural coastal tourism communities and the implications for water security." (Wandel, Armitage, Water, 2015)
- Suman, Sumra "Novelty Seeking Preferences of Chinese and Indian Overseas Tourists in Canada Using the International Tourist Role (ITR) Scale: An Exploratory-Comparative Study." (Havitz, Tourism, 2016)
- Wallace, Colin "Photogrammetry in Mediterranean Archaeology." (Deadman, 2016)
- Wang, Qi "Estimating Benefits of Implementing Retrofit Scenarios Based on Passivhaus Standards in the Region of Waterloo Residential Sector." (Parker, MRP, 2015)
- Yan, Vivien "Environmental Initiatives in the Hotel Industry: Environmental Certification and the Marginal Abatement Cost Curve (MACC)." (Parker, Tourism, 2016)
- Zhang, Haocheng "Rapid Inspection of Pavement Markings Using Mobile Laser Scanning Point Clouds." (Li, 2016)

YORK UNIVERSITY

PhDs:

- Akbar, Marshia "Does Workplace Matter? Identities and Experiences of Bangladeshi Immigrant Women Operating Businesses in Toronto." (Preston, 2016)
- Arik, Hulya "Secular Bodyscapes: Corporeal and Emotional Intersections of Security and Secularism in the Turkish Military." (Drummond, 2015)
- Dupej, Susan "An Everyday Approach to Agritourism Production in Southern Ontario." (Tufts, 2016)
- Hackett, Ryan "Petro-Power and Progressive Permutations: Conservation Offsets, Oil Sands, and the Politics of Neoliberal Conservation." (Roth, 2016)
- Leffers, Donald "Politics of Land Developers and Development in the Toronto Region: An Institutional Approach." (Wekerle, 2015)
- Rose, Janine "Immigrant Identities and Geographies of Belonging: Jamaican Immigrant Organizations in Toronto." (Preston, 2016)
- Smith (Han), Ei Phyu "To Build a Home: The Material Cultures, Gender Relations and the Cultivation of Meaning by Karen Refugees from Burma." (Roth, 2015)

- Sotomayor Melo, Diego Alejandro "Direct and Indirect Consequences of Dominant Plants in Arid Environments." (Lortie/Drezner, 2016)

Masters (Arts):

- Ariai, Sarah "The Reality of Neoliberal Sustainability: An Examination of the West Don Lands, Toronto." (Young, 2016)
- Felipe, Alexie "Small-Scale Mining on Mt. Balabag: Examining Class Dynamics and Socioeconomic Mobility." (Vandergest, 2015)
- Mabry, Shaun "Securitization, Criminalization, and Biopolitics: A Legal Geography of Asylum in the United States." (Hyndman, 2016)
- Nicolaides, Jordan "Third places as Alternative Spaces of Cultural Production and Consumption in the Neoliberal Creative City." (Bain, 2016)
- Ou, Shunxian "Immigration Policy and Student Migration: Migration Motivation, Switching Experience and Policy Knowledge Acquisition among Mainland Chinese International Students in Toronto, Canada." (Lo, 2016)

Masters (Science):

- Balogun, Olalekan "Measurement of Atmospheric Concentration of CO₂ in the Hudson Bay Lowlands: An Application of a Lagrangian Particle Dispersion Model (STILT)." (Bello, 2016)
- Shuman, Patrick "The Dominance of Cyanobacteria in Ponds of the Hudson Bay Lowlands and the Limiting Factors to their Growth." (Bello/Tank, 2016)
- Weeks, Gayla "Climate Change and the Fate of Dissolved Organic Carbon in the MacKenzie Delta, NWT." (Tank, 2016)

QUEBEC

MCGILL UNIVERSITY

PhDs:

- Donnelly, Blanaid-PhD "Indigenous health, livestock, and climate change adaptation in Kanungu District, Uganda." (Berrang-Ford)
- Garver, Geoffrey-PhD "Law for the Anthropocene: an adaptive eco-bounded legal system for a mutually enhancing human-Earth relationship." (Brown)
- Holland, Timothy-PhD "Land markets, migration, and forest conservation on an Amazonian frontier in San Martin, Peru." (Coomes)
- Quintal-Marineau, Magalie-PhD "Near the floe edge: Inuit women's role in the Nunavut mixed economy." (Wenzel)
- Pinsonneault, Andrew-PhD "Substrate and enzymatic controls on temperate peatland carbon cycling." (Moore)
- Price, Andrea-PhD "Dinoflagellate cysts as indicators of water quality in Northwest Atlantic coastal waters." (Chmura)
- Seufert, Verena-PhD "Contribution of organic agriculture to global sustainable food security." (Ramankutty)

Masters (Arts):

- Araos Egan/Malcolm Davis-MA "Adaptation to climate change in urban areas: a global assessment and a case study of Dhaka, Bangladesh." (Berrang Ford)
- Archer, Lewis-MA "A decadal reanalysis of climate vulnerability in the Canadian Arctic: the case of Arctic Bay." (Ford)
- Charette Margot-MA "A socio-ecological analysis of dengue in Ucayali, Peru." (Berrang-Ford)
- Hughes, Carl-MA "A method for near real-time surveillance of hepatitis A and E cases in Ahmedabad, India." (Sengupta)
- Kitching, Knut-MA "Tuktu and environmental change: Inuit caribou harvesting on southern Baffin Island." (Ford)
- List, Geneva-MA "Agriculture and the risk of crop loss due to flooding in the Amazon river floodplain of Peru." (Coomes)

Sangiambut/Suthee-MA “Geospatial open data: reshaping citizens and governments, roles and interactions.” (Sieber)

Masters (Science):

- Agosta G'meiner, Anna Maria-MSc “Holocene environmental change inferred from fossilpollen and microcharcoal at Cenote Jennifer, Cayo Coco, Cuba.” (Chmura/Peros)
- Ariwi, Joseph-MSc “Towards a high resolution global stream temperature model: model design and validation for the contiguous USA.” (Lehner)
- Clark, Dylan-MSc “Vulnerability to injury: assessing biophysical and social determinants of land-user injuries in Nunavut, Canada.” (Ford)
- Coyle, Theraesa-MSc “Conserving God’s own country: biodiversity in agroforestry landscapes of Kerala, India.” (Rhemtulla/Turner)
- MacVicar, Sarah-MSc “The impacts of meteorological exposures on perinatal health: a mixed methods study of Kanungu District, Uganda.” (Berrang Ford)
- Soto, Carlomagno-MSc “Hyperspectral remote sensing investigations of vegetation in Northern Peatlands.” (Kalacska)
- Van Ardenne, Lee Brandon-MSc “Quantifying soil carbon storage and losses in natural and agriculturally converted salt marsh.” (Chmura)

UNIVERSITÉ DE MONTRÉAL

PhDs:

- Dépôt du sujet de recherche de doctorat de Lina Margarita Campos-Flores intitulé Géographies émotionnelles de la migration circulaire des travailleurs agricoles saisonniers latinoaméricains sous la direction de Patricia Martin et la codirection de Michèle Vatz-Laaroussi
- Dépôt du sujet de recherche de doctorat de Michelle Aubrun intitulé Reconstitution du milieu urbain à partir de l’interférométrie RADAR sous la direction de François Cavayas
- Dépôt du sujet de recherche de doctorat de BA Ibrahima intitulé Gestion et gouvernance de l’eau en Afrique : de la nécessité d’une approche de la dynamique des espaces de gestion et de la gouvernance locale de l’eau sous la direction de Kathryn Furlong

Masters (Science):

- Dépôt du sujet de recherche du mémoire de maîtrise de Marion Carrier intitulé Bugs and berries : ecological and social consequences of climate change on a Québec subarctic environment sous la direction de Julie Talbot et la codirection de Thora Martina Herrmann
- Dépôt du sujet de recherche du mémoire de maîtrise de Julyane Cristina Candido intitulé Le géomarketing pour l’emplacement idéal et la distribution efficace des produits innovants issus de la forêt canadienne sous la direction de François Girard et la codirection de François Robichaud
- Dépôt du sujet de recherche du mémoire de maîtrise d’Audrey Veillette intitulé Cryostratigraphie des ravins de thermo-érosion, Ile Bylot (Nuvavut) sous la direction de Daniel Fortier
- Dépôt du sujet de recherche du mémoire de maîtrise d’Olivia Fernandez Pereda intitulé Impacts des Water operators partnerships “WOPs” sur la prestation des services d’eau dans la ville de Quito. Equateur sous la direction de Kathryn Furlong
- Dépôt du sujet de recherche du mémoire de maîtrise de Mariana De Oliveira Tiné intitulé Modélisation spatiale des moteurs de changements dans les milieux humides par automate cellulaire : étude de cas sur la région nord des plaines de l’Abitibi au Québec, Canada sous la direction de Liliana Perez et la codirection de Roberto Molowny Horas

Dépôt du sujet de recherche du mémoire de maîtrise de Samira El mamouni intitulé Projets de Développement et d’aménagement Durable d’Ain-Leuh (Maroc) et le Développement Durable sous la direction de Christopher Bryant et la codirection de Robert Kasisi

UNIVERSITÉ DE SHERBROOKE

PhDs:

- Djamai, Najib “Validation et désagrégation de l’humidité du sol estimée par le satellite SMOS en zones agricoles et forestières des Prairies canadiennes.” (Ramata Magagi, Kalifa Goïta, 2016)
- Delahaye, Alexandre. “Classification multi-échelle d’images à très haute résolution spatiale basée sur une nouvelle approche texturale.” (Goze Béné, Mickaël Germain, 2016)
- Shahbazi, Mozhdeh. “Modélisation tridimensionnelle précise de l’environnement à l’aide des systèmes de photogrammétrie embarqués sur drones.” (Jérôme Théau, Gunho Sohn, 2016)

Masters (Science):

- Gravel, Jean-Dominic “Modélisation conceptuelle d’un système d’information géographique web intégrant des données interopérables des sentiers récréatifs à l’échelle du Canada.” (Jean-François Bruneau, Mickaël Germain, 2015)
- Guillouet, Simon “Les interventions policières auprès des personnes ayant un état mental perturbé: distribution dans le temps et dans l’espace.” (Michael Howard)
- Beaudoin-Arcand, Audrey “Application d’outils géomatiques pour l’établissement d’un portrait du bassin versant de la Rivière Saint-André et pour la démonstration d’outils de gestion spatiale du territoire.” (Richard Fournier, 2015)
- Faucher, Marc-André “Évaluation de l’influence de l’éclairement de croissance sur le rendement quantique de la fluorescence de la chlorophylle a induite par le soleil.” (Yannick Huot, 2015)
- Blanco, Miguel Alfonso “Modèle d’isochorones automatisé du mouvement potentiel des personnes portées disparues.” (Goze Bertin Béné, 2016)
- Bélisle, Mathieu “Cartographie de la zostère marine au Parc national du Canada Kouchibouguac, Nouveau-Brunswick, à l’aide d’imagerie satellitaire à haute résolution, WorldView-2.” (Léo Provencher, 2016)
- Chrétien, Louis-Philippe “Détection et dénombrement de la moyenne et grande faune par imagerie visible et infrarouge thermique acquise à l’aide d’un aéronef sans pilote (ASP).” (Jérôme Théau, 2016)
- Trần, Thi Kim Dung “Mise au point du Système de cartographie dynamique multiéchelle (SCDM) pour la caractérisation des eaux souterraines de la zone Nicolet et de la partie basse de la zone Saint-François.” (Goze Bertin Béné, 2016)
- Côté, Kevin “Évaluation de la précision de simulations du couvert neigeux par SNOWPACK à partir de données météorologiques in-situ et de prévision dans différents contextes climatiques des régions montagneuses canadiennes.” (Alexandre Langlois, 2016)
- Le Houillier-Viens, Maude “Sensibilité des simulations de neige du modèle SNOWPACK à la paramétrisation de la végétation dans la réserve faunique Chic-Chocs.” (Alexandre Langlois, 2016)
- Turpin, Nicolas “Développement d’une application de cartographie mobile permettant de prévenir les risques sur le territoire de la ville de Montréal.” (Yves Voirin, 2016)
- Caron, Francis “Modélisation en bandes C et X de la rétrodiffusion de couverts de neige sèche: Évaluation de l’apport de l’approximation quasi-cristalline pour les milieux denses.” (Ramata Magagi, 2016)
- Dupras-Tessier, Olivier “Conception d’un portail participation d’information géographique Web pour la mise en valeur des produits forestiers non ligneux d’après leurs potentiels de présence.” (Richard Fournier et Mickaël Germain, 2016)

- Ouellet, Félix “Spatialisation du modèle de couvert nival Snowpack dans le Nord canadien pour l'étude de l'accès à la nourriture du caribou de Peary. (Alexandre Langlois et Alain Royer, 2016)
- Maingueneau, Benjamin “Étude multicritère pour l'implantation d'éoliennes aux Îles-de-la-Madeleine. (Éric Le Couédic, Lynda Bellalite, 2016)
- Madore, Jean-Benoît Évaluation de la modélisation de la taille de grain de neige du modèle multi-couches thermodynamique SNOWPACK: implication dans l'évaluation des risques d'avalanches. (Alexandre Langlois, 2016)
- Proulx-Bourque, Jean-Samuel “Amélioration des données altimétriques dans la région du Grand Lac des Esclaves à partir d'images Radarsat-2.” (Ramata Magagi, 2016)
- Viau, Philippe “Développement d'un indice du potentiel TOD pour l'agglomération de Montréal” (Lynda Bellalite, 2016)
- Couture, Guillaume “Conception de scénarios cartographiques pour la ceinture verte de Sherbrooke basés sur des fonctions prioritaires.” (Jérôme Théau, 2016)
- Bohard, Jérôme “Système de prédiction des conséquences de l'effet du changement climatique sur la production du maïs américain.” (Mickaël Germain, 2016)
- Beaudoin-Galaise, Maxime “Amélioration de la résolution spatiale de simulations de neige du modèle SNOWPACK dans un contexte de l'accès à la nourriture du caribou de Peary.” (Alexandre Langlois, 2016)
- Perrault-Hébert, Maude “Modélisation de la régénération de l'épinette noire suite au passage d'un feu en forêt boréale fermée.” (Richard Fournier, François Girard, 2016)
- Andrieux, Bérangère “Étude de la migration potentielle des niches écologiques liée aux changements climatiques dans la région des parcs nationaux de Frontenac et du Mont-Mégantic.” (Jérôme Théau, 2016)

LATIN AMERICA

ARGENTINA

UNIVERSIDAD NACIONAL DEL SUR

Doctorados:

- Bertoni, Marcela Beatriz. “Tursimo sustentable y transformaciones territoriales: El caso del Partido de Mar Chiquita, Bs. As, Argentina”.
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MEXICO

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UNIVERSIDAD AUTÓNOMA METROPOLITANA

Tesinas de la Licenciatura en Geografía Humana:

Aragón Gallegos, Érick, Cambio de Uso de Suelo y Apropiación del Espacio en el Ejido de San Andrés Mixquic, Dr. Rafael Calderón Contreras, 2015

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	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			MA/MS			PhD		
	M	F	Total	M	F	Total	M	F	Total
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

Source: The Integrated Postsecondary Education Data System of the National Center for Education Statistics.

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