

Jeremy Laurence Mennis

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EDUCATION

- 2001 Ph.D., Pennsylvania State University, Geography
Dissertation: *Cognition and Semantic Database Representation in Geographic Information Systems*, advisor Donna Peuquet.
- 1997 M.S., Portland State University, Geography
Thesis: *GIS Applications to Glaciology: Construction of the Mount Rainier Glacier Database*, advisor Andrew Fountain.
- 1992 B.A., University of California at Santa Cruz, Environmental Geology
Thesis: *Scour Potential in the San Lorenzo River, Santa Cruz, California*, advisor Robert Curry.

ACADEMIC POSITIONS

- 2007-present Associate Professor, Department of Geography and Urban Studies, Temple University
2004-2007 Assistant Professor, Department of Geography and Urban Studies, Temple University
2001-2004 Assistant Professor, Department of Geography, University of Colorado

EXTERNAL RESEARCH GRANTS AWARDED

- 2007-9 The Social Ecology of Urban Adolescent Substance Abuse: A Multiple Domain Approach. Co-P.I. with M.J. Mason (P.I.) and D. Coatsworth, National Institute of Health: National Institute on Drug Abuse, \$396,850 (P.I. on subcontract to Temple University, ~\$84,000).
- 2006-8 Investigating the Simultaneous Effects of Individual, Program and Neighborhood Attributes on Juvenile Recidivism Using GIS and Spatial Data Mining. Co-P.I. with P. Harris (P.I.), Z. Obradovic, and A. Izenman, National Institute of Justice, \$316,714.
- 2004-7 The Dynamics of Civil War Outcomes: Bosnia and the North Caucasus. Co-P.I. with J.V. O'Loughlin (P.I.), K.S. Gleditsch, G. Toal, and M.D. Ward, National Science Foundation (#0433927), \$650,000 (P.I. on subcontract to Temple University, \$93,011).
- 2002-5 Advancing Information Technology in Earth Science Teaching and Research: A Knowledge Discovery (KD) System for Geophysical Data Analysis. P.I., National Aeronautics and Space Administration (#NAG5-12598), \$249,864.

INTERNAL RESEARCH GRANTS AWARDED

- 2007 Address Geocoding to Support Modeling Neighborhood Effects on Treatment Continuity in Dually Diagnosed Patients. P.I. with Jerry Stahler. Temple University College of Liberal Arts Research Incentive Fund, \$5,000.

- 2006 Investigating the Simultaneous Effects of Individual, Program and Neighborhood Attributes on Juvenile Recidivism Using GIS and Spatial Data Mining. Co-P.I. with P. Harris (P.I.), Z. Obradovic, and A. Izenman, Temple University Institute for Public Affairs, \$16,320.
- 2006 Effect of Neighborhood Variables on Treatment Continuity. Co-P.I. with G. Stahler. Temple University Institute for Public Affairs, \$22,584.
- 2005 An Investigation of the Influence of Spatial and Community Factors on Continuity of Treatment for Dually Diagnosed Patients. Research Collaborator with G. Stahler (P.I.), Ralph Spiga, and Silvana Mazzella, Temple University College of Liberal Arts Research Incentive Funds, \$5,000.
- 2005 Applications of GIS: A Site Suitability Analysis for Wind Farms in the Dominican Republic. Temple University Diamond Scholar Research Program (funding for undergraduate research project by L. Bolinger), \$2,750 and 3 credits undergraduate tuition remission.
- 2003 Innovations in the Spatial Analysis of Environmental Justice. University of Colorado Junior Faculty Development Award, Council on Research and Creative Work, \$5,000.

PEER-REVIEWED JOURNAL PUBLICATIONS

* supervised graduate student

1. Stahler, G., Mazzella*, S., Mennis, J., Chakravorty, S., Rengert, G., and Spiga, R., 2007. The effect of individual, program, and neighborhood variables on continuity of treatment among dually diagnosed individuals. *Drug and Alcohol Dependence*, 87: 54-62.
2. Mennis, J. and Hultgren*, T., 2006. Intelligent dasymetric mapping and its application to areal interpolation. *Cartography and Geographic Information Science*: 33(3): 179-194.
3. Mennis, J., 2006. Exploring the influence of ENSO on African vegetation variability using multidimensional map algebra. *GIScience and Remote Sensing* (formerly *Mapping Sciences and Remote Sensing*): 43(4): 352-376.
4. Mennis, J., 2006. Mapping the results of geographically weighted regression. *The Cartographic Journal*, 43(2): 171-179.
5. Mennis, J., 2006. Socioeconomic-vegetation relationships in urban, residential land: the case of Denver, Colorado. *Photogrammetric Engineering and Remote Sensing*, 72(8): 911-921.
6. Mennis, J., 2005. The distribution and enforcement of air polluting facilities in New Jersey. *The Professional Geographer*, 57(3): 411-422.
7. Mennis, J.L. and Jordan*, L., 2005. The distribution of environmental equity: exploring spatial nonstationarity in multivariate models of air toxic releases. *Annals of the Association of American Geographers*, 95(2): 249-268.
8. Mennis, J., Viger*, R., and Tomlin, C.D., 2005. Cubic map algebra functions for spatio-temporal analysis. *Cartography and Geographic Information Science*, 32(1): 17-32.
9. Mennis, J. and Liu*, J.W., 2005. Mining association rules in spatio-temporal data: an analysis of urban socioeconomic and land cover change. *Transactions in GIS*, 9(1): 13-18.
10. Mennis, J.L., 2003. Derivation and implementation of a semantic GIS data model informed by principles of cognition. *Computers, Environment, and Urban Systems*, 27: 455-479.
11. Mennis, J. and Peuquet, D.J., 2003. The role of knowledge representation in geographic knowledge discovery: a case study. *Transactions in GIS*, 7(3): 371-391.

12. Mennis, J., 2003. Generating surface models of population using dasymetric mapping. *The Professional Geographer*, 55(1): 31-42.
13. Mennis, J., 2002. Socioeconomic disadvantage and environmentally hazardous facility location in Pennsylvania. *The Pennsylvania Geographer*, XL(2): 113-124.
14. Mennis, J., 2002. Using geographic information systems to create and analyze statistical surfaces of population and risk for environmental justice analysis. *Social Science Quarterly*, 83(1): 281-297.
15. Mennis, J., 2001. Exploring relationships between ENSO and vegetation vigour in the south-east USA using AVHRR data. *International Journal of Remote Sensing*, 22(16): 3077-3092.
16. Mennis, J.L. and Fountain, A.G., 2001. A spatio-temporal GIS database for monitoring alpine glacier change. *Photogrammetric Engineering and Remote Sensing*, 67(8): 967-97.
17. Mennis, J.L., Peuquet, D.J., and Qian, L., 2000. A conceptual framework for incorporating cognitive principles into geographical database representation. *International Journal of Geographical Information Science*, 14(6): 501-520.
18. Edsall, R.M., Harrower, M., and Mennis, J.L., 2000. Tools for visualizing properties of periodicity in spatial and temporal geographic data. *Computers and Geosciences*, 26(1): 109-118.

PUBLICATIONS IN CONFERENCE PROCEEDINGS

* supervised graduate student

19. Mennis, J. and Hultgren*, T., 2006. 'Intelligent' dasymetric mapping and its comparison with other areal interpolation techniques. In *Proceedings of AutoCarto 2006*, June 26-28, Vancouver, WA (CD).
20. Mennis, J., Leong*, J., and Khanna*, R., 2005. Multidimensional map algebra. In *Proceedings of the 8th International Conference on Geocomputation*, August 1-3, Ann Arbor, MI (CD).
21. Mennis, J. and Hultgren*, T., 2005. Dasymetric mapping for disaggregating coarse resolution population data. In *Proceedings of the 22nd International Cartographic Conference*, July 11-16, A Coruña, Spain (CD).
22. Mennis, J., 2005. Spatial and temporal vegetation variability in Africa: an application of temporal map algebra. In *Proceedings of the 2005 ASPRS Annual Conference*, March 7-11, Baltimore, MD.
23. Mennis, J. and Viger*, R., 2004. Analyzing time series of satellite imagery using temporal map algebra. In *Proceedings of the 2004 ASPRS Annual Conference*, May 23-27, Denver, CO.
24. Mennis, J. and Liu*, J.W., 2003. Mining association rules in spatio-temporal data. In *Proceedings of the 7th International Conference on Geocomputation*, September 8-10, Southampton, UK (CD) (note: a revised version of this article was published in *Transactions in GIS*, as listed above)
25. Mennis, J.L., Peuquet, D.J., and Guo, D., 2000. A semantic GIS database model for the exploration of spatio-temporal environmental data. In: *Proceedings of the 4th International Conference on Integrating GIS and Environmental Modeling (GIS/EM4): Problems, Prospects, and Research Needs* (B.O. Parks, K.M. Clarke, and M.P. Crane, editors), September 2-8, 2000, Banff, Alberta, Canada. Boulder, CO: University of Colorado, Cooperative Institute for Research in Environmental Science (WWW and CD).

26. Mennis, J.L., 2000. Human cognition as a foundation for GIS database representation. In: *Graduate Student Research Papers, UCGIS Summer Assembly*, June 21-24, 2000, Welches, OR. Leesburg, VA: University Consortium for Geographic Information Science, pp. 4.1-4.17.
27. Mennis, J.L., 1999. Methodological issues in GIS-based environmental justice research. In: *Proceedings of Environmental Problem Solving with Geographic Information Systems: A National Conference*, September 22-24, 1999, Cincinnati, OH. Washington D.C.: U.S. Environmental Protection Agency (CD).
28. Mennis, J.L., 1999. Using GIS, spatial statistics, and visualization to investigate environmental justice. In: *Proceedings of the Joint Statistical Meetings 1999: Statistical Science at the Interface, Section on Statistical Graphics*, August 8-12, 1999, Baltimore, MD. Alexandria, VA: American Statistical Association (CD).

OTHER MISCELLANEOUS PUBLICATIONS (not peer-reviewed)_____

29. Mennis, J., 2006. 2006 UCGIS Summer Assembly Report. *Challenges: A Newsletter of the UCGIS*, 2(8) (WWW: <http://ucgis.org/news/newsletter/summer2006/index.htm>).
30. Mennis, J., 2003. Visualization and database support for geographic meta-mining. White Paper, University Consortium for Geographic Information Science Geographic Visualization and Knowledge Discovery Workshop, November 18-20, Lansdowne, VA.
31. Mennis, J., 2003. Who lives near hazardous facilities? GIS and environmental risk and justice. *Public Health GIS News and Information*, May (No. 52): 12-15.

INVITED PRESENTATIONS, PANEL DISCUSSIONS, AND COLLOQUIA_____

* supervised graduate student

1. "The Effect of Individual, Program, and Neighborhood Variables on Continuity of Treatment among Dually Diagnosed Individuals" (First author with G. Stahler, S. Mazzella*, and R. Spiga) Presented at 21st Century Cities: Research from Temple, November 3, 2006, Philadelphia, PA.
2. "Socioeconomic and Vegetation Change in Denver, Colorado" Presented at the Hunter College Department of Geography Colloquium, March 23, 2006, New York, NY.
3. "Does Place Matter in Environmental Equity Analysis? The Case of Air Pollution in New Jersey" Presented at the Pennsylvania State University Department of Geography Colloquium, October 21, 2005, Philadelphia, PA.
4. "Does Place Matter in Environmental Equity Analysis? An Investigation Using Geographically Weighted Regression" Presented at the University of Pennsylvania GIS Users' Group Meeting, January 21, 2005, Philadelphia, PA.
5. "Multidimensional Map Algebra (MMA): A Framework for Spatio-Temporal Data Analysis" Presented at the Temple University Center for Information Science and Technology Colloquium, October 22, 2004, Philadelphia, PA.
6. "Does Place Matter in Environmental Equity Analysis? An Investigation Using Geographically Weighted Regression" (first author with L. Jordan*) Presented at the GIScience Brown Bag Colloquium, March 10, 2004, University of Colorado, Boulder, CO.
7. "Programming with IDL for Spatio-Temporal Analysis" (first author with R. Viger*) Presented at the U.S. Geological Survey Fifth Biennial Geographic Information Science Workshop, March 1-5, 2004, Denver, CO.

8. "GIS-Based Dasymetric Mapping" (first author with T. Hultgren*) Presented at the U.S. Geological Survey Fifth Biennial Geographic Information Science Workshop, March 1-5, 2004, Denver, CO.
9. "Overcoming Obstacles in Object-Oriented VBA Programming for ArcGIS" (second author with T. Hultgren* [presenter]) Presented at the U.S. Geological Survey Fifth Biennial Geographic Information Science Workshop, March 1-5, 2004, Denver, CO.
10. "Theoretical and Applied Research in Geographic Information Science" Presented at the GIScience Brown Bag Colloquium, October 30, 2002, University of Colorado, Boulder, CO.
11. "Homeland Security Research in Academic Geographic Information Science" Panel Discussant at the GIS in the Rockies Conference, October 9, 2002, Denver, CO.
12. "A Spatio-Temporal GIS Database for Monitoring Alpine Glacier Change" Presented at the National Snow and Ice Data Center Colloquium, University of Colorado, September 21, 2001, Boulder, CO.
13. "Professional and Academic Opportunities in the Field of GIS" Presented at the Meeting of the Undergraduate Student Association of the Department of Geography, November, 1999, Pennsylvania State University, University Park, PA.
14. "What is GIS and Why Should I Care?" Presented at the Annual Board Meeting of the Environmental Background Information Center, May, 1999, State College, PA.

CONFERENCE PRESENTATIONS

* supervised graduate student

1. "Predicting Recidivism: Analyzing the Effects of Individuals, Programs, and Neighborhoods with Cross-Classified Hierarchical Generalized Linear Modeling" (Third author with H. Grunwald, P. Harris, Z. Obradovic, A. Izenman, and B. Lockwood*. Presented at the American Evaluation Association Meeting, November 9, 2007, Baltimore, MD.
2. "Educating Parents About Idiographic and Neighborhood Factors in Pediatric Obesity" (Second author with B. Daly, P. Thunfors, A. McCoy, and B. Collins) Presented at the Fifth Interdisciplinary Conference on Communication, Medicine, and Ethics, June 28-30, 2007, Lugano, Switzerland.
3. "Dually Diagnosed Patients In A Psychiatric Emergency Service" (Poster, second author with G. Stahler, D. Nemiroff, T. Manik-Perlman, and R. Spiga) Presented at the 69th Annual Scientific Meeting of the College on Problems of Drug Dependence, June 16-21, 2007, Quebec City, Quebec, Canada.
4. "Geographical Approaches for Urban Adolescent Substance Abuse" Presented at the 15th Annual Meeting of the Society for Prevention Research, May 30-June 1, 2007, Washington, D.C.
5. "Spatial Clustering of Juvenile Delinquency and Recidivism in Philadelphia, Pennsylvania" (First author with P. Harris, Z. Obradovic, A. Izenmann, H. Grunwald, Y. Qin, J. Jupin, and B. Lockwood) Presented at the 103rd Annual Meeting of the Association of American Geographers, April 17-21, 2007, San Francisco, CA.
6. "Exploratory Spatial Analysis of Juvenile Delinquency and Recidivism" (Second author with P. Harris, Z. Obradovic, A. Izenmann, H. Grunwald, Y. Qin, J. Jupin, and B. Lockwood) Presented at the Ninth Crime Mapping Conference, March 28-31, Pittsburgh, PA,

7. "Geo-demographic patterns among children with elevated lead serum levels in Philadelphia" (Poster, third author with C. Guigar and M. Masucci) Presented at the Temple University Conference on Health Disparities, September 7, Philadelphia, PA.
8. "Civil-war induced land-cover change in Bosnia: a GIS/remote sensing approach" (Second author with F. Witmer*) Presented at the Annual Meeting of the American Political Science Association, August 31-September 3, Philadelphia, PA.
9. "'Intelligent' dasymetric mapping and its comparison with other areal interpolation techniques" (First author with T. Hultgren*) Presented at AutoCarto 2006, June 26-28, Vancouver, WA
10. "Dually Diagnosed Patients Returning Home After Hospitalization: Exploring Treatment Continuity Using Data Mining Techniques" (Poster, second author with G. Stahler, S. Mazzella, and R. Spiga) Presented at the 68th Annual Scientific Meeting of the College on Problems of Drug Dependence, June 17-22, 2006, Scottsdale, AZ.
11. "Socioeconomic and Vegetation Change in Denver, Colorado" Presented at the Temple GUS Undergraduate Research Conference, April 21, 2006, Philadelphia, PA.
12. "Community Effects on Treatment Continuity for Dually Diagnosed Patients" (First author with S. Mazzella, J. Stahler, and R. Spiga) Presented at the NIDA/AAG Symposium on Geography and Drug Addiction, March 8, 2006, Chicago, IL.
13. "Exploratory Data Analysis of Long Time Series of Remotely Sensed Imagery" (First author with D. Bauer*) Presented at the 102nd Annual Meeting of the Association of American Geographers, March 7-11, 2006, Chicago, IL.
14. "Multidimensional Map Algebra" (First author with J. Leong* and R. Khanna*) Presented at the 8th International Conference on Geocomputation, August 1-3, 2005, Ann Arbor, MI.
15. "Dasymetric Mapping for Disaggregating Coarse Resolution Population Data" (First author with T. Hultgren*) Presented at the 22nd International Cartographic Conference, July 11-16, 2005, A Coruña, Spain.
16. "The Effect of Individual, Program, and Community Variables on Continuity of Treatment Among Dually Diagnosed Individuals" (poster, fifth author with S. Mazzella*, G. Stahler [presenter], S. Chakravorty, G. Rengert, and R. Spiga) Presented at the 67th Annual Scientific Meeting of the College on Problems of Drug Dependence, June 18-23, 2005, Orlando, FL.
17. "Urban Development and the Transformation of Vegetation in Denver, Colorado, 1990-2000" (First author with C. Wessman) Presented at the 101st Annual Meeting of the Association of American Geographers, April 6-11, 2005, Denver, CO.
18. "Data Resolution as a Possible Bias in Association Rule Mining"(Second author with B. Battenfield [presenter]) Presented at the 101st Annual Meeting of the Association of American Geographers, April 6-11, 2005, Denver, CO.
19. "Vegetation Index Compositing and Analysis in Spatial and Temporal Dimensions" (Fourth author with P. Mali [presenter], C.G. O'Hara, R. Viger*, and V. Vijayaraj) Presented at the ASPRS Annual Conference, March 7-11, 2005, Baltimore, MD.
20. "Spatial and Temporal Vegetation Variability in Africa: An Application of Temporal Map Algebra" Presented at the ASPRS Annual Conference, March 7-11, 2005, Baltimore, MD.
21. "Interpreting Spatial Statistics with Maps: The Case of Geographically Weighted Regression" Presented at the North American Cartographic Information Society XXIV Annual Meeting, October 6-9, 2004, Portland, ME.

22. "New Methods for Spatio-Temporal Analysis Using Multidimensional Map Algebra: A Case Study of Southern African ENSO-Vegetation Dynamics" Presented at the First Symposium for the Earth System Scholars Network, September 27-29, 2004, Adelphi, MD (selected as 1 of 4 presentations out of 21 submissions).
23. "Analyzing Time Series of Satellite Imagery Using Temporal Map Algebra" (first author with R. Viger* [presenter]) Presented at the ASPRS Annual Conference, May 23-28, 2004, Denver, CO.
24. "Urban Socioeconomic and Vegetation Change Relationships in the Front Range of Colorado" Presented at the 100th Annual Meeting of the Association of American Geographers, March 14-19, 2004, Philadelphia, PA.
25. "Data Mining Relationships Among Urban Socioeconomic, Land Cover, and Remotely Sensed Ecological Data" (poster, first author with C. Wessman and N. Golubiewski*) Presented at the American Geophysical Union Fall Meeting, December 8-12, 2003, San Francisco, CA.
26. "Mining Association Rules in Spatio-Temporal Data" (first author with J.W. Liu*) Presented at the 7th International Conference on Geocomputation, September 8-10, 2003, Southampton, UK.
27. "Building GIS-Based Knowledge Discovery Environments: A Research Proposal" Presented at the 98th Annual Meeting of the Association of American Geographers, March 19-23, 2002, Los Angeles, CA.
28. "A Comparison of Two Data Models for Managing Climatologic Data with an Object-Oriented Database" (third author with D. Guo [presenter] and D.J. Peuquet) Presented at the 97th Annual Meeting of the Association of American Geographers, February 27-March 3, 2001, New York, NY.
29. "Prototype Implementation of a Semantic GIS Database Model" Presented at the 97th Annual Meeting of the Association of American Geographers, February 27-March 3, 2001, New York, NY.
30. "Representing Multiple Levels of Abstraction in GIS Using Object-Oriented Techniques" (poster, first author with D.J. Peuquet and D. Guo) Presented at GIScience 2000: First International Conference on Geographic Information Science, October 28-31, 2000, Savannah, GA.
31. "A Semantic GIS Database Model for the Exploration of Spatio-Temporal Environmental Data" (first author with D.J. Peuquet and D. Guo) Presented at the 4th International Conference on Integrating GIS and Environmental Modeling (GIS/EM4): Problems, Prospects, and Research Needs, September 2-8, 2000, Banff, Alberta, Canada.
32. "Human Cognition as a Foundation for GIS Database Representation" Presented at the University Consortium for Geographic Information Science Summer Assembly, June 21-24, 2000, Welches, OR.
33. "Exploring Relationships Between ENSO and Vegetation Vigor in the Southeast United States Using AVHRR Data" Presented at the 96th Annual Meeting of the Association of American Geographers, April 4-8, 2000, Pittsburgh, PA.
34. "Environmental Justice in the Philadelphia, Pennsylvania Region" Presented at the Annual Meeting of the Association of American Geographers, Mid States Division, October, 1999, West Chester, PA.
35. "Methodological Issues in GIS-Based Environmental Justice Research" Presented at Environmental Problem Solving with GIS: A National Conference, September 22-24, 1999, Cincinnati, OH.

36. "Using GIS, Spatial Statistics, and Visualization to Investigate Environmental Justice" Presented at Joint Statistical Meetings 1999: Statistical Science at the Interface, Section on Statistical Graphics, August 8-12, 1999, Baltimore, MD.
37. "Tools for Visualizing Properties of Periodicity in Spatial and Temporal Geographic Data" (third author with R.M. Edsall and M. Harrower [presenter]) Presented at the Annual Meeting of the North American Cartographic Information Society, March, 1999, Milwaukee, WI.
38. "Using GIS to Fight Environmental Injustice" (co-author/presenter with B. Lipsett) Presented at the ESRI Mid-Atlantic User's Group Conference, November 16-18, 1998, Philadelphia, PA.
39. "GIS Applications to Glaciology: the Mount Rainier Glacier Database" Presented at the Pennsylvania State University Department of Geoscience Graduate Student Conference, May, 1998, University Park, PA.
40. "GIS Applications to Glaciology: the Mount Rainier Glacier Database" Presented at the 94th Annual Meeting of the Association of American Geographers, March 25-29, 1998, Boston, MA.

RESEARCH WORKSHOPS AND SYMPOSIUMS

- 2003 University Consortium for Geographic Information Science Geographic Visualization and Knowledge Discovery Workshop, November 18-20, Washington, D.C.
- 2002 National Science Foundation Research Workshop on Action-Oriented Approaches in Geographic Information Science, November 2-4, Holden, ME.
- 1998 National Center for Geographic Information and Analysis (NCGIA) Varenius Project Workshop: The Ontology of Fields, June 11-13, Bar Harbor, ME.

TRAININGS LED

- 2002 "Vulnerability Analysis and Mapping Using GIS" Training [with Linda Stephens] at Climate Change Vulnerability and Adaptation: Assessments of Impacts and Adaptations to Climate Change in Multiple Regions and Sectors (AIACC) Project Development Workshop, June 3-14, Trieste, Italy.

OTHER PROFESSIONAL MEETING PARTICIPATION

- 2006 University Consortium for Geographic Information Science Summer Assembly, June 28-July 1, Vancouver, WA.
- 2006 University Consortium for Geographic Information Science Winter Meeting, February 1-3, Washington D.C.
- 2005 University Consortium for Geographic Information Science Summer Assembly, June 28-July 1, Jackson, WY.
- 2003 University Consortium for Geographic Information Science Winter Meeting, February 10-12, Washington D.C.
- 2002 University Consortium for Geographic Information Science Summer Assembly, June 26-30, Athens, GA.
- University Consortium for Geographic Information Science Winter Meeting, February 7-9, Washington D.C.

Second International Conference on Geographic Information Science, September 25-29, Boulder, CO.

COURSES TAUGHT

Temple University, Philadelphia, PA

GUS 0150: Urban Environment
GUS 0262/0462: Fundamentals of GIS
GUS 0265/0465: Applications in GIS/Geographic Data Analysis

Independent Study Courses

GUS 0510: GIS Applications to Environmental Justice
GUS 0510: Interoperability Specifications for Geoprocessing

University of Colorado, Boulder, CO

GEOG 4103/5103: Introduction to Geographic Information Science
GEOG 4203/5203: Geographic Information Science: Modeling Applications
GEOG 5113: Seminar in GIS: Geocomputation

Independent Study Courses:

GEOG 5840-928: GIS Applications to Conflict Analysis
GEOG 5840-928: Semantic Modeling in Geographic Information Systems
GEOG 5840-928: Applying Java Programming to Geoprocessing Algorithms
GEOG 5840-928: Application of GIS in the Spatial Analysis of Biological Shape

Pennsylvania State University, University Park, PA

GEOG 357: Introduction to Geographic Information Systems

STUDENT ADVISING

Temple University, Department of Geography and Urban Studies

Former Advisor: Ezgi Bilici (M.A., Urban Studies, 2005), Todd MacDonald (M.A. Geography, 2006)

Current Advisor: Dana Bauer (M.A. Geography), Scott Dias (M.A., Urban Studies)

University of Colorado, Department of Geography

Former Advisor: Roland Viger (M.A., 2004), Torrin Hultgren (M.A., 2005)

Former Committee Member: Erin Heithoff (M.A., 2002), Vanessa Bauman (M.A., 2003), Nancy Golubiewski (Ph.D., Ecology and Evolutionary Biology, 2003), Kathryn Landuyt (B.A., Economics, Honors, 2003), Frank Witmer (M.A., 2003), Jason Janke (Ph.D., 2004), Rutherford Platte (Ph.D., 2004), Adina Racoviteanu (M.A., 2004), Clionadh Raleigh (M.A., 2004), Frank Witmer (Ph.D., 2007)

External Committee Member

Current: Jeffrey Hamerlinck (Ph.D. candidate, Geography, University of Colorado), Roland Viger (Ph.D. candidate, Geography, University of Colorado),

SCHOLARSHIPS AND FELLOWSHIPS

- 2000 NASA Earth System Science Graduate Fellowship. A Unified Database Model for the Exploration and Analysis of Spatiotemporal Environmental Data. \$22,000/year, up to three years
- 2001 Courtney Scholarship, Department of Geography, Portland State University, ~\$3500.00

HONORS AND AWARDS

- 2007 2nd place, ESRI Award for Best Scientific Paper in Geographic Information Systems, for the paper "Socioeconomic-Vegetation Relationships in Urban Residential Land: The Case of Denver, Colorado" (*Photogrammetric Engineering & Remote Sensing*, 72(8): 911-921).
- 2005 Travel grant award, 22nd International Cartographic Conference, A Coruña, Spain, awarded by the U.S. National Committee of the International Cartography Association.
- 2000 1st place, Student Paper Competition, Values, Ethics, and Justice Specialty Group of the Association of American Geographers, for the paper "GIS-Based Innovations in the Statistical Assessment of Environmental Justice: A Case Study of Philadelphia, Pennsylvania".
- 1st place, E. Willard Miller Award, Department of Geography, Pennsylvania State University, for the paper "A Spatiotemporal GIS Database for Monitoring Alpine Glacier Change".
- Student registration grant award, 4th International Conference on Integrating GIS and Environmental Modeling (GIS/EM4): Problems, Prospects, and Research Needs, Banff, Alberta, Canada, awarded by the GIS/EM4 Conference Planning Committee.
- Student paper award and travel grant, University Consortium for Geographic Information Science (UCGIS) Summer Assembly, Welches, OR, awarded by the UCGIS.
- 1999 Student registration grant award, Joint Statistical Meetings 1999: Statistical Science at the Interface, Baltimore, MD, awarded by the American Statistical Association.
- Student registration grant award, Pennsylvania State University WebGIS Conference, University Park, PA, awarded by the WebGIS Conference Planning Committee.
- Student travel grant award, 95th Annual Meeting of the Association of American Geographers, Honolulu, HI, awarded by the Association of American Geographers.

SERVICE TO THE DEPARTMENT AND UNIVERSITY

Temple University, Department of Geography and Urban Studies

- 2007-10 Representative to the Faculty Senate from the College of Liberal Arts
- 2007-8 Chair of the department personnel committee
- 2004-7 Department webmaster, supervised development of the new department web site
- 2006 Lead author and coordinator of the General Education Quantitative Literacy course submission "Digital Maps: From Mercator to Mashups"
- 2005 Developer of the "GIS@Temple University" web site
- 2005 Organizer of the university membership application for the University Consortium for Geographic Information Science

- 2005 Organizer of the university forum on geographic information science
- 2005 Member of the department hiring committee

University of Colorado, Department of Geography

- 2002-4 Chair of the computer committee
- 2003 Member of the committee to develop an orientation guide for new faculty
- 2003 Member of the post tenure review committee for professor Konrad Steffen
- 2001-2 Member of the computer committee
- 2002 Member of the reappointment committee for instructor Dylan Clark

SERVICE TO THE FIELD AND DISCIPLINE _____

- 2007-8 Liaison to the UCGIS, AAG GIS Specialty Group
- 2006-8 Member of the editorial board, *Compass Geography* (Blackwell Publishers)
- 2007 Organizer of the Spatial Data Mining and Exploratory Data Analysis sessions at the Annual Meeting of the Association of American Geographers, April 17-21, San Francisco, CA.
- 2006 Organizer of the Spatial Data Mining and Exploratory Data Analysis sessions at the Annual Meeting of the Association of American Geographers, March 7-11, Chicago, IL.
- 2005-7 Delegate for Temple University, University Consortium for Geographic Information Science (UCGIS), and member of the research and communications committees
- 2004-5 Member of the advisory board, University Consortium for Geographic Information Science model curricula/body of knowledge project
- 2001-4 Delegate for University of Colorado, University Consortium for Geographic Information Science, and member of the research committee
- 2003 Member of the program committee, University Consortium for Geographic Information Science Geographic Visualization and Knowledge Discovery Workshop, November 18-20, Washington, D.C.

Reviewer for the student travel grant competition, University Consortium for Geographic Information Science Summer Assembly, June 17-19, Pacific Grove, California
- 2002 Member of the review committee, student fellowship competition, Geospatial Information & Technology Association, Rocky Mountain Chapter

SERVICE TO THE COMMUNITY _____

- 2002-5 Consultant (volunteer), South Jersey Legal Services, Camden, NJ and Center for Race, Poverty and the Environment, San Francisco, CA.
- 1998-00 Consultant (volunteer), Environmental Background Information Center, State College, PA.

REVIEWER FOR REFEREED JOURNALS AND FUNDING AGENCIES _____

Annals of the Association of American Geographers
Arctic, Antarctic, and Alpine Research
Cartographica
Cartography and Geographic Information Science

Cities
Cities and the Environment
Computers, Environment, and Urban Systems
Computers and Geosciences
Data and Knowledge Engineering
Data Mining and Knowledge Discovery
Environment and Planning A
Environmental Practice
International Journal of Geographical Information Science
International Journal of Remote Sensing
ISPRS Journal of Photogrammetry and Remote Sensing
Journal of Environmental Management
Photogrammetric Engineering & Remote Sensing
Population Research and Policy Review
Public Administration Review
The Professional Geographer
Social Problems
Social Science Computing Review
Social Science Quarterly
Spatial Cognition and Computation
Transactions in GIS
Urban Studies
Swiss National Science Foundation
University Consortium for Geographic Information Science (for the U.S. National Science Foundation)

PROFESSIONAL MEMBERSHIPS

Association of American Geographers (AAG), Specialty Groups: Cartography; GIS; Remote Sensing;
Spatial Analysis and Modeling; Values, Ethics, and Justice

ASPRS: The Imaging and Geospatial Information Society, Divisions: GIS; Remote Sensing Applications;
Primary Data Acquisition