

CURRICULUM VITAE OF

JARED ALDSTADT

Department Address:
Department of Geography
University at Buffalo
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1893 Hertel Avenue
Buffalo, NY 14214

EDUCATION

**PhD. Joint Doctoral Program in Geography San Diego State University / May 2007
University of California, Santa Barbara**

Dissertation: “Space-Time Analysis of Dengue Virus Transmission in Kamphaeng Phet, Thailand”

Committee: Arthur Getis (Chair, SDSU), Sergio Rey (SDSU), Michael Goodchild (UCSB), and Phaedon Kyriakidis (UCSB)

M.A. in Geography, San Diego State University December 2002

Thesis: “Testing the Goldschmidt Hypothesis: An Examination of the Farm Structure-Community Relationship in California’s San Joaquin Valley”

Committee: Arthur Getis (Chair, Geography), Sergio Rey (Geography), and Ramona Perez (Anthropology)

B.A. in Geography, The State University of New York at Buffalo December 1995

Certificate of Specialization in G.I.S./Cartography

PROFESSIONAL APPOINTMENTS

2013 – Present	Associate Professor, Department of Geography, University at Buffalo
2007 – 2013	Assistant Professor, Department of Geography, University at Buffalo
Fall 2006	Visiting Assistant Professor, Department of Geography, University at Buffalo

RESEARCH EXPERIENCE

**Graduate Research Associate, San Diego State University Department of Geography
August 1999 – July 2006**

TEACHING EXPERIENCE

Classes Taught at University at Buffalo (2006 – Present)

Maps and Mapping – GEO 120 **Fall 2006-2009, Fall 2012**

Geographies of Health – GEO 412/512 **Fall 2007-2009, Fall 2011-2012, Spring 2013-2014**

Multivariate Statistics in Geography – Undergraduate – GEO 411 **Spring 2007-2012**

Multivariate Statistics in Geography – Graduate – GEO 509 **Spring 2007-2012, Spring 2014**

Survey Methods – GEO 502 **Spring 2013**

Teaching Effectiveness and Technology Workshops

University at Buffalo Teaching and Learning Center: UBclicks **Fall 2010**

University at Buffalo Teaching and Learning Center: Simple Presenter **Fall 2006**

Instructor

Advanced Spatial Analysis Workshop on Spatial Pattern Analysis **July 2010**

Center for Spatially Integrated Social Science, University of California, Santa Barbara and
Population Research Institute at the Pennsylvania State University

Instructor

Advanced Spatial Analysis Workshop on Spatial Pattern Analysis **July 2008**

Center for Spatially Integrated Social Science, University of California, Santa Barbara and
Population Research Institute at the Pennsylvania State University

Instructor

Spatial Data Analysis **Spring 2005**

Department of Geography, San Diego State University

Participant

Techniques of Teaching College Geography Courses **Fall 2004**

Department of Geography, San Diego State University

Instructor

Spatial Perspectives on Analysis for Curriculum Enhancement Workshop, Spatial Analysis and **August 2004**

GIS for Undergraduate Course Enhancement in the Social Sciences

Center for Spatially Integrated Social Science

Instructor

Spatial Analysis (Week 2) **August 2004**

The Vespucci Initiative Summer School of GIScience

Instructor**July 2002-04**

Introduction to Spatial Pattern Analysis in a GIS Environment
Center for Spatially Integrated Social Science Workshop

Laboratory Instructor**August 2001**

Introduction to Spatial Pattern Analysis in a GIS Environment
Center for Spatially Integrated Social Science

REFEREED JOURNAL ARTICLES (* - denotes paper with graduate student)

17. Rabaa, Maia A., Chonticha Klungthong, In-Kyu Yoon, Edward C. Holmes, Piyawan Chinnawirotpisan, Butsay Thaisomboonsuk, Anon Srikiatkachorn, Alan L. Rothman, Darunee Tannitisupawong, Jared Aldstadt, Ananda Nisalak, Mammen P. Mammen, Robert V. Gibbons, Timothy P. Endy, Thanyalak Fansiri, Thomas W. Scott & Richard G. Jarman (2013) "Frequent In-Migration and Highly Focal Transmission of Dengue Viruses among Children in Kamphaeng Phet, Thailand." *PLoS Neglected Tropical Diseases.*, 7.
- *16. Duncan, Dustin, Jared Aldstadt, John Whalen, and Steven M. Melly (2013) "Validation of Walk Score for estimating neighborhood walkability and transit availability: a small-area analysis." *GeoJournal*. 78(2) 407-416. doi:10.1007/s10708-011-9444-4
15. Yoon, In-Kyu, Arthur Getis, Jared Aldstadt, Alan L. Rothman, Darunee Tannitisupawong, Constantianus J.M. Koenraadt, Thanyalak Fansiri, James W. Jones, Amy C. Morrison, Richard G. Jarman, Ananda Nisalak, Mammen P. Mammen Jr., Suwich Thammaphalo, Anon Srikiatkachorn, Sharone Green, Daniel H. Libraty, Robert V. Gibbons, Timothy Endy, Chusak Pimgate, Thomas W. Scott (2012) "Fine Scale Spatiotemporal Clustering of Dengue Virus Transmission in Children and *Aedes aegypti* in Rural Thai Villages." *PLoS Neglected Tropical Diseases*. 6(7) doi:10.1371/journal.pntd.0001730.
14. Aldstadt, Jared, In-Kyu Yoon, Darunee Tannitisupawong, Richard G. Jarman, Stephen J. Thomas, Robert V. Gibbons, Angkana Uppapong, Sopon Iamsirithaworn, Alan L. Rothman, Thomas W. Scott, and Timothy Endy (2012) "Space-time analysis of hospitalized dengue patients in rural Thailand reveals important temporal intervals in the pattern of dengue virus transmission." *Tropical Medicine & International Health*. 17(9) 1076-1085. doi:10.1111/j.1365-3156.2012.03040.x
13. Duncan, Dustin T., Marcia C. Castro, Steven L. Gortmaker, Jared Aldstadt, Steven J. Melly and Gary G. Bennett (2012) "Racial differences in the built environment-body mass index relationship? A geospatial analysis of adolescents in urban neighborhoods." *International Journal of Health Geographics*. 11(11) doi: 10.1186/1476-072X-11-11
- *12. Duncan, Dustin, Jared Aldstadt, John Whalen, Kellee White, Marcia C. Castro, and David R. Williams (2012) "Space, Race and Poverty: Spatial Inequalities in Walkable Neighborhood Amenities." *Demographic Research*. 26 409-448. doi:10.4054/DemRes.2012.26.17
11. In-Kyu Yoon, Alan L. Rothman, Darunee Tannitisupawong, Anon Srikiatkachorn, Richard G. Jarman, Jared Aldstadt, Ananda Nisalak, Mammen P. Mammen Jr., Suwich Thammaphalo, Sharone Green, Daniel H. Libraty, Robert V. Gibbons, Arthur Getis, Timothy Endy, James W. Jones, Constantianus J.M. Koenraadt, Amy C. Morrison, Thanyalak Fansiri, Chusak Pimgate, and Thomas W. Scott (2012) "Under-Recognized Mildly Symptomatic Viremic Dengue Virus Infections in Rural Thai Schools and Villages." *The Journal of Infectious Diseases*. 206 389-398. doi: 10.1093/infdis/jis357

- *10. Widener, Michael, Neal Crago, and Jared Aldstadt (2012) "Developing a parallel computational implementation of AMOEBA for large spatial datasets." *International Journal of Geographical Information Science*. 26(9) 1707-1723. doi:10.1080/13658816.2011.645477
- *9. Duncan, Dustin, Jared Aldstadt, John Whalen, Steven M. Melly, and Steven L. Gortmaker (2011) "Validation of Walk Score for Estimating Neighborhood Walkability: An Analysis of 4 US Metropolitan Areas." *International Journal of Environmental Research and Public Health*. 8 4160-4179.
8. Aldstadt, Jared, Constantianus JM Koenraadt, Thanyalak Fansiri, Udom Kijchalao, Jason Richardson, James W. Jones, and Thomas W. Scott (2011) "Ecological modeling of *Aedes aegypti* (L.) pupal production in rural Kamphaeng Phet, Thailand." *PLoS Neglected Tropical Diseases*. 5(1): e940. doi:10.1371/journal.pntd.0000940.
7. Duque, Juan C., Jared Aldstadt, Ermilson Velasquez, Jose L. Franco, and Alejandro Betancourt (2011) "A computationally efficient method for delineating irregularly shaped spatial clusters." *Journal of Geographical Systems*. 13(4) 355-372. doi:10.1007/s10109-010-0137-1.
6. Mammen Jr., Mammen P., Chusak Pimgate, Constantianus J. M. Koenraadt, Alan L. Rothman, Jared Aldstadt, Ananda Nisalak, Richard G. Jarman, James W. Jones, Anon Srikiatkachorn, Charity Ann Ypil-Butac, Arthur Getis, Suwich Thammaphalo, Amy C. Morrison, Daniel H. Libraty, Sharone Green, and Thomas W. Scott (2008) "Spatial and Temporal Clustering of Dengue Virus Transmission in Thai Villages." *PLoS Medicine* 5(11).
5. Koenraadt, Constantianus JM, Jared Aldstadt, Udom Kijchalao, Ratana Sithiprasasna, Arthur Getis, James W. Jones, and Thomas W. Scott (2008). "Spatial and temporal patterns in pupal and adult production of the dengue vector *Aedes aegypti* in Kamphaeng Phet, Thailand." *American Journal of Tropical Medicine and Hygiene* 79(2) 230-238.
4. Koenraadt, Constantianus JM, Jared Aldstadt, Udom Kijchalao, Ampornpan Kengluetcha, James W. Jones, and Thomas W. Scott (2007) "Spatial and temporal patterns in the recovery of *Aedes aegypti* (Diptera: Culicidae) populations after insecticide treatment." *Journal of Medical Entomology* 44(1) 65-71.
3. Aldstadt, Jared (2007) "An incremental Knox test for the determination of the interval between successive cases of an infectious disease." *Stochastic Environmental Research and Risk Assessment* 21(5) 487-500.
2. Aldstadt, Jared and Arthur Getis (2006) "Using AMOEBA to create a spatial weights matrix and identify spatial clusters." *Geographical Analysis* 38(4) 327-343.
1. Getis, Arthur and Jared Aldstadt (2004) "Constructing the spatial weights matrix using a local statistic." *Geographical Analysis* 35(2) 90-104. Reprinted in Anselin, Luc and Sergio J. Rey (2010) *Perspectives on Spatial Data Analysis*. Springer, 147-163.

REFEREED BOOK CHAPTER

Aldstadt, Jared (2010) Spatial clustering. Manfred M. Fischer and Arthur Getis eds., *Handbook of applied spatial analysis: Software tools, methods, and applications*, Berlin: Springer-Verlag, 279-298.

ENCYCLOPEDIA ENTRY

Aldstadt, Jared (2010) "Getis, Arthur (1934-)." *Encyclopedia of Geography*. SAGE Publications.
4 Oct. 2010. <http://www.sage-ereference.com/geography/Article_n498.html>

NON-REFEREED PROCEEDINGS PAPER

Aldstadt, Jared and Arthur Getis (2002) "Point pattern analysis in an ArcGIS environment."
Proceedings of the Center for Spatially Integrated Social Science Specialist Meeting on
Spatial Data Analysis Software Tools

BOOK REVIEW

Yoo, Eun-Hye and Jared Aldstadt (2011) "Principles of Modeling Uncertainties in Spatial Data
and Spatial Analysis, by Wenzhong Shi." *Journal of Regional Science* 51(4) 860-861.

EXTERNAL FUNDING

Title: Flavivirus Infections: Pathogenesis and Prevention

Funding agency: NIH (P01)

Role: co-PI

PI: Dr. Alan L. Rothman, University of Rhode Island

Average Annual Direct Costs (Aldstadt): \$52,639

Funding Period: 7/1/2013 – 6/30/2018

Title: Development and validation of novel prospective GPS/GIS based exposure measures

Funding Agency: NIH (R21)

Role: co-PI / Consultant

PI: Jacqueline Kerr, PhD, University of California, San Diego

Funding Period: 4/1/2013 – 3/31/2014

Title: Dengue vaccine and viral evolution in rural Thailand

Funding Agency: NIH (R01)

Role: co-PI

PI: Dr. Timothy Endy, SUNY Upstate Medical School

Average Annual Direct Costs (Total/Aldstadt): \$598,500/\$52,500

Funding Period: 7/1/2008 – 6/30/2012

Title: Flavivirus Infections: Pathogenesis and Prevention

Funding agency: NIH (P01)

Role: co-PI

PI: Dr. Alan L. Rothman, University of Rhode Island

Average Annual Direct Costs (Total/Aldstadt): \$1,575,100/\$59,237

Funding Period: 4/1/2008 – 3/31/2013

AWARDS

- Outstanding Graduate Student in Human Geography** 2006
SDSU Geography Department
- NSF Doctoral Dissertation Enhancement Grant** 2005
Analysis and Modeling of Dengue Virus Transmission in Space and Time
Supervisor Arthur Getis: \$4500
- Inductee: The Honor Society of Phi Kappa Phi** 2005
- Caldwell, Flores, Winters Inc. Award for Human Applications in GIS** 2002
SDSU Geography Department

CONFERENCE PRESENTATIONS

- Jankowska, Marta, Yan Kestens, Jared Aldstadt, Jasper Schipperijn, Benoit Thierry, Kristin Meseck, Jacqueline Kerr, Fredric Raab, Suneeta Godbole, Jordan Carlson, Katie Crist, David Berrigan (2014) "A Healthy Place? Determining Urban Activity Locations from GPS and Accelerometer Data" Annual Meeting of the Association of American Geographers, Tampa, Florida
- Aldstadt, Jared, Constantianus J. M. Koenraadt, In-Kyu Yoon, Darunee Tannitisupawong, Thanyalak Fansiri, James W. Jones, Udom Kijchalao, Richard G. Jarman, Amy C. Morrison, Arthur Getis, Robert Gibbons, Mammen P. Mammen, Anon Srikiatkachorn, Chusak Pimgate, Sharone Green, Alan L. Rothman, Thomas W. Scott, and Timothy Endy (2013) "The relationship between household entomological risk and dengue infection in rural Kamphaeng Phet, Thailand." The Third International Conference on Dengue and Dengue Haemorrhagic Fever 2013. Bangkok, Thailand
- Aldstadt, Jared and Prasan Kankaew (2013) "Demographic and environmental risk factors for hospitalized dengue in Kamphaeng Phet, Thailand." Annual Meeting of the Association of American Geographers, Los Angeles, California
- Amy Frazier and Jared Aldstadt (2013) "A Spatial-Spectral Method for Endmember Extraction Using a Cluster Detection Algorithm." Annual Meeting of the Association of American Geographers, Los Angeles, California
- Aldstadt, Jared, Michael J. Widener, and Neal C. Crago (2012) "Detecting irregular clusters in big spatial data" GIScience 2012, Columbus, OH
- Aldstadt, Jared (2012) "Household level entomological indices and probability of dengue virus infection." Annual Meeting of the Association of American Geographers, New York, New York
- Duncan, Dustin, Jared Aldstadt, John Whalen, Marcia C. Castro and David R. Williams (2012) "*Spatial Inequalities in Neighborhood Walkability*" Annual Meeting of the Association of American Geographers, New York, New York

- Delmerico, Alan, Jared Aldstadt, and William Wieczorek (2012) “*State and County Differences in Diabetic Outcomes*” Annual Meeting of the Association of American Geographers, New York, New York
- Aldstadt, Jared (2011) “Ecological modeling of *Aedes aegypti* pupal production in rural Kamphaeng Phet, Thailand.” Annual Meeting of the Association of American Geographers, Seattle, Washington
- Delmerico, Alan, Jared Aldstadt, and William Wieczorek (2011) “*Analysis of Diabetic Complications in Western New York using GWR*” Annual Meeting of the Association of American Geographers, Seattle, Washington
- Aldstadt, Jared (2010) “A local statistics method for finding neighborhoods in multivariate spatial data” Annual Meeting of the Association of American Geographers, Washington, DC
- Aldstadt, Jared (2009) “Moran Time Path Torque: A Local Indicator of Space-Time Dynamics” Annual Meeting of the Association of American Geographers, Las Vegas, NV
- Delmerico, Alan, Jared Aldstadt, and William Wieczorek (2009) “Under-diagnosis of diabetes and cardiovascular disease in self-reported health data” Annual Meeting of the Association of American Geographers, Las Vegas, NV
- Jankowska, Marta, Jared Aldstadt, Arthur Getis, John Weeks and Grant Fraley (2008) “An AMOEBA procedure for visualizing clusters” GIScience 2008, Park City, UT
- Aldstadt, Jared (2008) “Cluster sampling of dengue virus transmission” Annual Meeting of the Association of American Geographers, Boston, MA
- Delmerico, Alan, Jared Aldstadt, and William Wieczorek (2008) “Preliminary assessment of community risk factor for type-2 diabetes” Annual Meeting of the Association of American Geographers, Boston, MA
- Aldstadt, Jared (2008) “Disease associated with natural disasters, the case of dengue fever” Annual Conference of the Center for GeoHazards Studies, University at Buffalo, “Natural Disasters in Small Communities: How Can We Help?” Buffalo, NY
- Aldstadt, Jared, Arthur Getis, and Kevin Schellinger (2007) “Multiple scale analysis of mosquito vector populations in a rural Thai village” North American Meetings of the Regional Science Association International, Savannah, GA
- Getis, Arthur, Jared Aldstadt, Kristopher Kuzera, and Thomas Scott (2007) “The use of empirical mode decomposition for the study of the transmission of dengue hemorrhagic fever in Thailand” American Society of Tropical Medicine and Hygiene Annual Meeting, Philadelphia, PA
- Aldstadt, Jared (2007) “An incremental Knox test for the determination of the serial interval between successive cases of an infectious disease” Annual Meeting of the Association of American Geographers, San Francisco, CA
- Getis, Arthur, Kristopher Kuzera, Thomas Scott, and Jared Aldstadt (2007) “Identifying traveling waves of disease transmission over time and space using empirical mode decomposition: The case of dengue hemorrhagic fever in Thailand” Western Regional Science Association 46th Annual Meeting, Newport Beach, CA
- Aldstadt, Jared and Mark Janikas (2006) “Exploratory spatial filtering of space-time data” Association of American Geographers Annual Meeting, Chicago, IL
- Getis, Arthur and Jared Aldstadt (2006) “Does dengue hemorrhagic fever travel in waves?” Association of American Geographers Annual Meeting, Chicago, IL
- Getis, Arthur and Jared Aldstadt (2005) “Using AMOEBA to create a spatial weights matrix and identify clusters” North American Meetings of the Regional Science Association International, Las Vegas, NV

- Getis, Arthur, Jared Aldstadt, Karen Campbell, and Thomas Scott (2005) "Visualizing dengue hemorrhagic fever in time and space" American Society of Tropical Medicine and Hygiene Annual Meeting, Washington, DC
- Getis, Arthur and Jared Aldstadt (2005) "Dengue fever and dengue hemorrhagic fever in time and space: A report on explorations and modeling in Thailand." 4th International Congress of Vector Ecology, Reno NV
- Getis, Arthur and Jared Aldstadt (2005) "Dengue transmission in time and space: Models and methods" GEOMED 2005, Cambridge, UK
- Aldstadt, Jared, Arthur Getis, Douglas A. Stow, and John R. Weeks (2004) "AMOEBA: A multidirectional optimum ecotope based analysis, with an application to the total fertility rates in Amman, Jordan." Association of American Geographers Annual Meeting, Philadelphia, PA
- Getis, Arthur and Jared Aldstadt (2004) "Exploring total fertility rates in Amman, Jordan using AMOEBA" Western Regional Science Association, Maui, HI
- Aldstadt, Jared and Arthur Getis (2003) "Specifying the spatial weights matrix with a local spatial statistic" North American Meetings of the Regional Science Association International, Philadelphia, PA
- Aldstadt, Jared (2003) "Revisiting Goldschmidt: An examination of the farm structure-community relationship in California's San Joaquin Valley." Association of American Geographers Annual Meeting, New Orleans, LA
- Getis, Arthur and Jared Aldstadt (2003) "Income and employment along the Mexico-US border: The role of geographic filtering for model development." 18th Pacific Regional Science Conference, Acapulco, Mexico
- Baron, Kurt and Jared Aldstadt (2003) "An ArcGIS application of spatial statistics to precipitation modeling." ESRI User's Conference, San Diego, CA
- Aldstadt, Jared and Arthur Getis (2002) "Partitioning heterogeneous spaces." GIScience 2002, Boulder, CO
- Getis, Arthur and Jared Aldstadt (2001) "Creating an empirical spatial weights matrix with the use of local statistics." North American Meetings of the Regional Science Association International, Charleston, SC

THESES/PROJECTS SUPERVISED (PRINCIPAL ADVISOR)

- Su, Zhitong, MS, 2013, "Transition probability mapping on dengue seasonal spatial distribution patterns in rural Thailand and conditional random simulations for data classification."
- Kankaew, Prasan, MA, 2013, "Village population-based dasymetric and hospitalized dengue risk mapping for Mueang Kamphaeng Phet District, Thailand." Translator at the International Institute of Buffalo (5/2014)
- Rienti, Michael, MA, 2013, "Original research applying geographic information science for health and safety." PhD. Student at UB Geography (5/2014)
- Delmerico, Alan, PhD., 2013, "An analysis of potentially undiagnosed diabetes and diabetes-related complications at local, region and national scales." Visiting Associate Professor and Researcher at Center for Health and Social Research, Buffalo State (5/2014)
- Lee, JinHyung, MA, 2012, "Spatial scan statistics analysis of dengue hospitalizations in Kamphaeng Phet, Thailand, 2009 – 2011." PhD. Student at UB Geography (5/2014)
- Conrow, Lindsey, MS, 2012, "A spatio-temporal analysis of violent crime and alcohol outlets in Buffalo, NY" PhD. Student at ASU Geography (5/2014)

- Whalen, John, MA, 2011, "Creating a Walkability Data Set and Prediction Map Using the Walkscore Algorithm." Research Analyst at Independent Health (5/2014)
- Thompson, Kristin, MA, 2010, "Attracting international investment and promoting economic growth in the Buffalo Niagara Region." Community Relations Assistant at Upstate Medical University (5/2014)
- Touré, Sory, BA (Honors), 2008, "Geographic information systems and agriculture in Sub-Saharan Africa." Completed MA and currently in PhD. program at San Diego State University/UCSB (5/2014)
- Royal, Nathaniel, MA, 2007, "Guinea worm afoot: A distance sensitive model for the spread of guinea worm in Eastern Niger." Completed PhD. at UCSB, currently Postdoc at University of Florida (5/2014)

COMPLETED THESIS/PROJECT COMMITTEES

- O'Neil, Jennifer L., MA, 2014, "Measuring the Effects of Community Gardens on Property and Violent Crime Rates within the City of Buffalo, New York."
- Jiang, Xiangyu, MS, 2013, "Spatiotemporal contextual units for environmental exposure study."
- Wang, Qing, MA, 2013, "Evaluation of Accessibility to Social Welfare Facilities: Housing Choice Voucher Holders in Erie County, NY."
- Jin, Shikai, MS, 2013, "Analysis of crime distribution pattern of Buffalo, NY."
- Liao, Zhen, MS, 2013, "Exploring a housing price prediction model for city of Buffalo."
- Knight, Jason, PhD., 2013, "Shrinking city, shrinking region: A socio-spatial analysis of demolitions in Buffalo and emergence of regional shrinkage in Erie County, New York."
- Gallagher, Dan, MA, 2013, "The spatial, temporal, and environmental trends of gonorrhea in Erie County, New York."
- Nassir, Asal, MA, 2013, "Consequences of population change and rapid economic growth, in the case of the Sioux Falls, South Dakota MSA."
- Weaver, Russell, PhD., 2012, "Reconceptualizing blight: A geographical and economic analysis of urban housing code violations in Buffalo, NY."
- Wang, Gaole, MA, 2012, "Foreign Direct Investment in China."
- Kedron, Peter, PhD., 2012, "An Analysis of the Evolution of Renewable Energy Production: The Role of Firms, Institutions, and Markets."
- Hu, Hao, MS, 2012, "Uncertainty Analysis of Areal Weighting Interpolation Based on Simulated Incompatible Census Boundaries"
- Muhammad Shafqaat Anjum, PhD., 2012, "Spatial Patterns of Tuberculosis in the Punjab, 1990-2005." University of the Punjab, Lahore, Department of Geography
- Royal, Nathaniel, PhD., 2012, "Dracunculiasis: The Endgame, Proximity, and Risk." University of California, Santa Barbara, Department of Geography
- Majka, Kevin, PhD., 2012, "Incorporating Driver Behavior in Crash Prediction Modeling"
- Trask, William, MA, 2011, "Using an Inverse Potential Model and an Inverse Gravity Model to Solve a Facility Location Problem."
- Machado, Elia, PhD., 2010, "Assessing Vulnerability to Dengue Fever in Mexico under Global Change." Graduate School of Geography at Clark University
- Collins, Heather, MA, 2010, "Integrated Environmental Data Analysis in Geography: Utilizing Techniques of Geographic Information Systems, Remote Sensing, Environmental Law and Public Policy"

Potts, James, PhD., 2010, "Description, classification, and prediction of dengue illnesses in a Thai pediatric cohort." Clinical and Population Health Research, University of Massachusetts Graduate School of Biomedical Sciences
Mandal-Konar, Reshmi, MA, 2009, "Potential accessibility to hospitals of elderly population in the City of Buffalo, by private car and public bus: A GIS-based study"

CURRENT ADVISEES

PhD.

Iverson, Lara
Kum, Susan
Lee, Jinhyung
Rienti, Michael

MA/MS

Belus, Michael
Fang, Dekun
Gao, Xue
Li, Guyue

CURRENT COMMITTEES

PhD.

Bajo, Jorge
Copeland, Sam
Ding, Nan
Gao, Peng
Kochenash, Cara
Ptak, Scott
Sun, Tong
Trgovac, Andrew

MA/MS

Guo, Jingran
Ruffino, Michael

DEPARTMENTAL SERVICE

Colloquium Coordinator	2008-2013
Established internship with Erie County Department of Health	2012
Member, Hiring Committee	2006-2007
Member, Graduate Brochure Committee	2008
Hugh W. Calkins Applied GIS Award Committee	2010
Member, Newsletter Committee	2011-2012

UNIVERSITY SERVICE

Faculty Senator *ad interim*
Faculty Senator

2008-2009
2009-2014

College of Arts and Sciences Appointments, Promotions and Tenure Committee

2014-Present

PROFESSIONAL SERVICE

Invited lecture: **November 26, 2013**

“Measuring the Impact of dengue vaccination on dengue virus evolution.” Given at symposium entitled, “Vaccination: an evolutionary engine for species?” Fondation Mérieux, Veyrier-du-Lac, France

Invited lecture: **April 26, 2013**

“Demographic and environmental risk factors for hospitalized dengue in Kamphaeng Phet, Thailand.” Global Health Forum: Advances in Dengue Research, Center for Global Health and Translational Science, SUNY Upstate Medical School

Invited lecture: **February 14, 2013**

“The Ecology of Dengue Virus Transmission.” Graduate seminar series at the Department of Industrial Systems Engineering, Rochester Institute of Technology, Rochester, NY

Invited Attendee: **September 18, 2012**

NSF sponsored workshop on "Challenges in Modeling the Spatial and Temporal Dimensions of the Ecology of Infectious Diseases." Disease Ecology and Computer Modeling Laboratory at The Ohio State University, Columbus, OH

Invited lecture: **August 15, 2012**

“Making Sense of Mapped Health Data: Introductory Spatial Visualization and Analysis.” 1st Annual Western New York Health Geography and Geographic Information Systems (GIS) Day – Empire State Public Health Training Center

Invited Attendee/Presenter: **August 9-10, 2010**

Spatial-temporal Dynamics of Zoonotic Diseases Workshop
Geomatics for Informed Decisions (GEOIDE), Mathematics of Information Technology and Complex Systems (MITACS), Toronto, Canada

Junior Faculty Peer Mentoring: **January 2010 – January 2011**

Served as peer mentor for Yongwan Chun in the School of economic, political and policy sciences at The University of Texas at Dallas

Invited Attendee/Presenter: **April 29-30, 2010**

Cluster Morphology Analysis Workshop
Biomedware, Ann Arbor, MI

Consulting: **May 2009**
“Health, Poverty, and Place: Modeling Inequalities in Accra using Remote Sensing and Geographic Information Systems.” San Diego State University. PI: John Weeks.

Invited lecture: **May 5, 2009**
“GIS and sampling of dengue virus transmission.” 5th Annual GIS and Public Health Day at the University at Albany School of Public Health

Invited lecture: **September 12, 2008**
“Cluster sampling of dengue virus transmission” Seminar at the Department of Social and Preventive Medicine, University at Buffalo

Invited lecture: **May 9, 2006**
Workshop in Spatial Analysis in a GIS Environment: Part of a series entitled: *Health Applications in GIS: Data Visualization and Spatial Pattern Analysis* held at the University of Massachusetts Medical School

Developer **2003-2006**
Space Time Analysis of Regional Systems (STARS) open source geocomputation project

Invited Lecture: **July 12, 2004**
“Spatial autocorrelation in observational science.” Swiss Federal Institute for Environmental Science and Technology’s Limnological Research Center, Kastanienbaum, Switzerland

Consulting: **June 2004**
County of San Diego Department of Planning and Land Use: Produced high-resolution precipitation map adopted by San Diego County Board of Supervisors for zoning and hydrological modeling purposes

Student Representative **2003-2005**
Association of American Geographers Spatial Analysis and Modeling Specialty Group

Invited Attendee:
Center for Spatially Integrated Social Science Specialist Meeting
Spatial Data Analysis Software Tools, Santa Barbara, CA **2002**

Reviewer:

Journal Manuscripts

<i>American Journal of Epidemiology</i>	2012
<i>American Journal of Public Health</i>	2009, 2010, 2011, 2013
<i>American Journal of Tropical Medicine and Hygiene</i>	2009, 2010, 2011, 2012, 2013, 2014
<i>Annals of the Association of American Geographers</i>	2004, 2009, 2010, 2011
<i>Computers, Environment and Urban Systems</i>	2009, 2010, 2011, 2012
<i>Dengue Bulletin</i>	2012
<i>Emerging Infectious Diseases</i>	2013
<i>Environment and Planning A</i>	2007, 2013
<i>Environmental Geochemistry and Health</i>	2008

<i>Environmental Health</i>	2011
<i>Geographical Analysis</i>	2006, 2009, 2010, 2011, 2012, 2014
<i>International Journal of Applied Geospatial Research</i>	2010, 2011
<i>International Journal of Climatology</i>	2013
<i>International Journal of Geographical Information Science</i>	2008, 2009, 2010, 2011, 2012, 2013
<i>International Journal of Health Geographics</i>	2012
<i>International Regional Science Review</i>	2007, 2008
<i>Journal of Geographical Systems</i>	2004, 2006, 2008, 2010, 2011
<i>Mathematical Geosciences</i>	2009, 2010
<i>PLoS Neglected Tropical Diseases</i>	2012, 2013
<i>PLoS ONE</i>	2013
<i>Professional Geographer</i>	2007
<i>Population Ecology</i>	2010
<i>Stochastic Environmental Research and Risk Assessment</i>	2006
<i>Tropical Medicine & International Health</i>	2011
<i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i>	2014
<i>Vaccine</i>	2011

Books and Book Chapters

<i>The ESRI Guide to GIS Analysis, Volume 2: Spatial Measurement & Statistics</i> by Andy Mitchell	2004
<i>Ecology of parasite-vector interaction</i> , Volume 3 in the series entitled, “Ecology and Control of Vector-borne Diseases”	2011

Proposals

<i>NSF – Division of Behavioral and Cognitive Sciences - ad hoc reviewer</i>	2011
<i>NSF – Division of Social and Economic Sciences - ad hoc reviewer</i>	2011, 2012, 2013, 2014

Tutorial/Workshop Proposals

<i>GIScience 2012</i>	2012
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