

CURRICULUM VITAE OF

JARED ALDSTADT

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Department of Geography
University at Buffalo
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1893 Hertel Avenue
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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)

Introduction to Human Geography – GEO 102 **Fall 2014-2019**

International Health – GEO 112 **Fall 2016-2020**

Maps: The Earth from Above – GEO 120

Fall 2006-2009, Fall 2012, Summer 2014 (UB-SIM), Summer 2016-2020 (UB-SIM)

Geospatial Technology – GEO 403

Summer 2018-2019 (UB-SIM)

Geographies of Health – GEO 412/512

Fall 2007-2009, Fall 2011-2012, Spring 2013-2014, Summer 2014 (SIM), Fall 2014-2015, Summer 2016 (SIM), Summer 2020 (SIM)

Multivariate Statistics in Geography – Undergraduate – GEO 411

Spring 2007-2012, Spring 2015-2021

Multivariate Statistics in Geography – Graduate – GEO 509

Spring 2007-2012, Spring 2014-2021

Survey Methods – GEO 502

Spring 2013, Spring 2015

Teaching Effectiveness and Technology Workshops

University at Buffalo Center for Educational Innovation:

Build Your Hybrid or Online Course **May 2019**

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- GEOG 385

Department of Geography, San Diego State University

Spring 2005

Participant

Techniques of Teaching College Geography Courses

Department of Geography, San Diego State University

Fall 2004

Instructor**August 2004**

Spatial Perspectives on Analysis for Curriculum Enhancement Workshop, Spatial Analysis and GIS for Undergraduate Course Enhancement in the Social Sciences
Center for Spatially Integrated Social Science

Instructor**August 2004**

Spatial Analysis (Week 2)
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)

35. Aldstadt, Jared, Muhammad Waqas, Misa Yasumiishi, Maxim Mokin, Vincent M Tutino, Hamid H Rai, Felix Chin, Bennett R. Levy, Ansaar T. Rai, J. Mocco, Kenneth V. Snyder, Jason M Davies, Elad I Levy, and Adnan H Siddiqui. (2021) Mapping access to endovascular stroke care in the USA and implications for transport models. *Journal of NeuroInterventional Surgery*, DOI: <http://dx.doi.org/10.1136/neurintsurg-2020-016942>
34. Kang, Jeon-Young, Jared Aldstadt, Rebecca Vandewalle, Dandong Yin & Shaowen Wang. (2020) A CyberGIS Approach to Spatiotemporally Explicit Uncertainty and Global Sensitivity Analysis for Agent-Based Modeling of Vector-Borne Disease Transmission, *Annals of the American Association of Geographers*, DOI: 10.1080/24694452.2020.1723400
33. Logan, Latania K., Liqing Zhang, Stefan J. Green, Samuel Dorevitch, Gustavo A. Arango-Argoty, Kendrick Reme, Emily Garner, Jared Aldstadt, Yvette J. Johnson-Walker, Mary K. Hayden, Robert A. Weinstein, and Amy Pruden. (2020) A Pilot Study of Chicago Waterways as Reservoirs of Multi-Drug Resistant Enterobacteriaceae (MDR-Ent) in a High-Risk Region for Community-Acquired MDR-Ent Infection in Children. *Antimicrobial Agents and Chemotherapy* (2020).
32. Angeles, Luisa F., Shamim Islam, Jared Aldstadt, Kazi Nazmus Saeed, Munirul Alam, Md Alfazal Khan, Fatema-Tuz Johura, Syed Imran Ahmed, and Diana S. Aga. (2019) Retrospective suspect screening reveals previously ignored antibiotics, antifungal compounds, and metabolites in Bangladesh surface waters. *Science of the Total Environment*: 136285.
- *31. Kang, Jeon-Young and Jared Aldstadt (2019) Examining time-dependent effects of water, sanitation, and hygiene (WASH) interventions using an agent-based model. *Tropical Medicine & International Health*. 24(8) 962-971. doi:10.1111/tmi.13280
- *30. Kang, Jeon-Young and Jared Aldstadt (2019) Using multiple scale space-time patterns in variance-based global sensitivity analysis for spatially explicit agent-based models. *Computers, Environment and Urban Systems*, 75 170-183, doi:<https://doi.org/10.1016/j.compenvurbsys.2019.02.006>

29. Islam, Shamim, Jared Aldstadt, and Diana Aga (2019), Global antimicrobial resistance: a complex and dire threat with few definite answers. *Tropical Medicine & International Health*, doi:10.1111/tmi.13230
- *28. Kang, Jeon-Young and Jared Aldstadt (2019) Using multiple scale spatio-temporal patterns for validating spatially explicit agent-based models. *International Journal of Geographical Information Science*. 33(1), 193-213. doi: 10.1080/13658816.2018.1535121
- *27. Tamura, Kosuke, Dustin T Duncan, Jessica Athens, Marc Scott, Michael Rienti, Jared Aldstadt, Laurie M Brotman, Brian Elbel (2018) Do sedentary behavior and physical activity spatially cluster? Analysis of a population-based sample of Boston adolescents. *GeoJournal*, 83:775, <https://doi.org/10.1007/s10708-017-9801-z>
- *26. Kang, Jeon-Young and Jared Aldstadt (2017) The influence of spatial configuration of residential area and vector populations on Dengue incidence patterns in an individual-level transmission model. *International Journal of Environmental Research and Public Health*. 14(7) 792. doi:10.3390/ijerph14070792
- *25. Tamura, Kosuke, Dustin T. Duncan, Jessica K. Athens, Marie A. Bragg, Michael Rienti Jr., Jared Aldstadt, Marc A. Scott, and Brian Elbel (2017) Geospatial clustering in sugar-sweetened beverage consumption among Boston youth. *International journal of food sciences and nutrition*, 68(6) 719-725, doi: 10.1080/09637486.2016.1276519
24. Kotlo, Kumar, Allen M. Samarel, Hua Y. Chen, Jared Aldstadt, and Robert S. Danziger (2016) Global comparison of phosphoproteins in human and rodent hearts: implications for translational studies of myosin light chain and troponin phosphorylations. *SpringerPlus*, 5 808. doi:10.1186/s40064-016-2469-x
- *23. Duncan, Dustin T., Michael Rienti Jr., Martin Kulldorf, Jared Aldstadt, Marcia C. Castro, Rochelle Frounfelder, James H. Williams, Glorian Sorensen, Renee M. Johnson, David Hemenway, and David R. Williams (2016) Local spatial clustering in youths' use of tobacco, alcohol, and marijuana in Boston. *The American Journal of Drug and Alcohol Abuse*, 42(4) 412-421, doi:10.3109/00952990.2016.1151522
22. Thomas, Stephen J., Jared Aldstadt, Richard G. Jarman, Darunee Tannitisupawong, In-Kyu Yoon, Jason Richardson, Alongkot Ponlawat, Sapon Iamsirithaworn, Thomas W. Scott, Alan L. Rothman, Robert V. Gibbons, Louis Lambrechts, and Timothy Endy (2015) Improving Dengue Virus Capture Rates in Humans and Vectors in Kamphaeng Phet Province, Thailand, Using an Enhanced Spatiotemporal Surveillance Strategy. *American Journal of Tropical Medicine and Hygiene*, 93(1) 24-32. doi:10.4269/ajtmh.14-0242
- *21. Conrow, Lindsey, Jared Aldstadt, Natasha S. Mendoza (2015) A spatio-temporal analysis of on-premises alcohol outlets and violent crime events in Buffalo, NY. *Applied Geography*, 58, 198-205. doi:10.1016/j.apgeog.2015.02.006
20. Buddhari, Darunee, Jared Aldstadt, Timothy P. Endy, Anon Srikiatkachorn, Butsaya Thaisomboonsuk, Chonticha Klungthong, Ananda Nisalak, Benjawan Khuntirat, Richard G. Jarman, Stefan Fernandez, Stephen J. Thomas, Thomas W. Scott, Alan L. Rothman, and In-Kyu Yoon (2014) Dengue Virus Neutralizing Antibody Levels Associated with Protection from Infection in Thai Cluster Studies. *PLoS Neglected Tropical Diseases*, 8(10): e3230. doi:10.1371/journal.pntd.0003230
- *19. Duncan, Dustin T., Ichiro Kawachi, Susan Kum, Jared Aldstadt, Gianfranco Piras, Stephen A. Matthews, Giuseppe Arbia, Marcia C. Castro, Kellee White & David R. Williams (2014) A Spatially Explicit Approach to the Study of Socio-Demographic Inequality in the Spatial Distribution of Trees across Boston Neighborhoods. *Spatial Demography*, 2014, 1-29.
18. Duncan, Dustin. T., Ichiro Kawachi, S. V. Subramanian, Jared Aldstadt, Stephen J. Melly & David R. Williams (2014) Examination of how neighborhood definition influences

- measurements of youths' access to tobacco retailers: a methodological note on spatial misclassification. *American Journal of Epidemiology*, 179, 373-381.
17. Rabaa, Maia A., Chonticha Klungthong, In-Kyu Yoon, Edward C. Holmes, Piyawan Chinnawirotpisan, Butsaya 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(1): e1990. doi:10.1371/journal.pntd.0001990
 - *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 Thammapalo, 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 Thammapalo, 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 Thammapalo, 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 PROCEEDINGS PAPER

Kang, Jeon-Young, Jared Aldstadt, Alexander Michels, Rebecca Vandewalle, and Shaowen Wang (2019) "CyberGIS-Jupyter for spatially explicit agent-based modeling: a case study on influenza transmission." In Proceedings of the 2nd ACM SIGSPATIAL International Workshop on GeoSpatial Simulation, 2-35.

BOOK CHAPTERS

Islam, Shamim, Jared Aldstadt, David G. White, & Diana Aga (2020). The Global Crisis of Antimicrobial Resistance: Perspectives from Medicine, Geography, Food Science, and Chemistry. In *Transforming Global Health* (pp. 127-143). Springer, Cham.

Jacquez, Geoffrey and Jared Aldstadt (2016) Interpreting clusters of health events. Andrew B. Lawson and Robert P. Haining eds., *Handbook of Spatial Epidemiology*, CRC

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://sk.sagepub.com/reference/geography/n498.xml>>

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 REVIEWS

Aldstadt, Jared and Adam M. Wilson (2016) "An Introduction to R for Spatial Analysis and Mapping, by Chris Brunson and Lex Comber." *Journal of Regional Science*
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: Academic Partner for Research Study on Gang Violence Under The Gun Involved Violence Elimination Initiative
Funding Agency: City of Buffalo, Department of Police
Role: PI
Direct Costs: \$47,719
Funding Period: 1/1/2018 – 10/31/2018

Title: Academic Partner for Research Study on Gang Violence Under The Gun Involved Violence Elimination Initiative
Funding Agency: City of Buffalo, Department of Police
Role: PI
Direct Costs: \$59,689
Funding Period: 1/1/2017 – 6/30/2017

Title: Academic Partner for Research Study on Gang Violence Under The Gun Involved Violence Elimination Initiative
Funding Agency: City of Buffalo, Department of Police
Role: PI
Direct Costs: \$60,739
Funding Period: 1/1/2016 – 6/30/2016

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: Doctoral Dissertation Research: The Impact of Social Stigma and Associated Behaviors on Women Seeking Treatment for Tuberculosis Infection in Lusaka, Zambia
Funding Agency: NSF
Role: PI with co-PI Lara Iverson
Total Direct Costs: \$14,931
Funding Period: 8/1/2013-1/31/2015

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

- Aldstadt, Jared, Gillian Schwert, Jeon-Young Kang, Nino Martinez, Han Zhang, and Caitlin Walsh (2019) " The social and spatial networks of homicide" Annual Meeting of the Association of American Geographers, Washington, DC
- Kang, Jeon-Young and Jared Aldstadt (2019) "Using Multiple Scale Space-Time Patterns in Sensitivity Analysis for Spatially Explicit Agent-Based Models" Annual Meeting of the Association of American Geographers, Washington, DC
- Aldstadt, Jared and Jeon-Young Kang (2018) "Examining Dynamic Associations in water, sanitation, and hygiene (WASH) interventions using agent-based models" Annual Meeting of the Association of American Geographers, New Orleans, Louisiana
- Kang, Jeon-Young and Jared Aldstadt (2017) "Social connections and context in dengue transmission" American Society of Tropical Medicine and Hygiene Annual Meeting, Baltimore, Maryland
- Kang, Jeon-Young and Jared Aldstadt (2016) "Patterns of Diversity in Dengue Virus Infections" Annual Meeting of the Association of American Geographers, San Francisco, California
- Aldstadt, Jared and Jeon-Young Kang (2015) "Assessing the Importance of Local Heterogeneity in Dengue Virus Transmission Models" Annual Meeting of the Association of American Geographers, Chicago, Illinois
- 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. Koenraad, 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)

- Zhao, Bowei, MS, 2021, “Analyze, predict and simulate the COVID-19 situation in New York City.”
- Zhang, Yichi, MS, 2020, “Spatial-temporal distribution of Lyme disease cases in Northeast America, 2009-2018.”
- Konovitz-Davern, Sean, MA, 2019, “Examining the deterrence effect of closed-circuit television cameras in Buffalo, NY”
- Shao, Yixuan, MS, 2019, “The prospect of the smart city and internet of things in the new 5G era: A literature review” Developer at Transcend Spatial Solutions (1/2020)
- Lu, Yichun, MA, 2019, "Social area analysis of New York City"
- Iverson, Lara J., PhD., 2019, "Living with “TB of the bones”: Health-related stigma in a high HIV prevalence area before and after public health intervention" Data Scientist at Centers for Disease Control and Prevention (1/2020)
- Kang, Jeon-Young, PhD., 2018, "Pattern-oriented validation and sensitivity analysis methods for spatially explicit agent-based models" Assistant Professor at Kongju National University (5/2021)
- Xie, Lingtao, MS, 2018, "Applying Small Area Estimation Methods to Calculate County-Level Prevalence of Chronic Obstructive Pulmonary Disease in Florida" SDK Specialist at Esri (1/2020)
- Belus, Michael, MA, 2017, "Route planning using the bicycle compatibility index: A Buffalo-Niagara Falls Metropolitan Area application" Business System Analyst at M&T Bank (1/2020)
- Kasturi, Anusha Sharma, MS, 2017, "Mapping gang territories and emerging hotspots of shootings" Data Quality Engineer at Kespry (1/2020)
- Liu, Boyang, MA, 2017, "Predictive models of gun violence with environmental and social-media-derived covariates" PhD student in computer science at Michigan State University (5/2021)
- Zhu, Chengxi, MS, 2017, “Association between physical food environment and weight status of NYS public school students” Software Engineer at PwC (1/2020)
- Kum, Susan (co-advised with Sara Metcalf), PhD., 2017, “Approaches to Understanding Lived Experiences to Inform Context-Specific Strategies Toward Oral Health Equity” City Research Scientist, New York City Department of Health and Mental Hygiene (1/2020)
- Fang, Dekun, MS, 2016, “Adjusting Neural Network Analysis for Health Geography: A comparison of logistic regression and neural networks.” Currently Junior Professional Officer at UNDP Philippines (1/2020)
- Li, Guyue, MA, 2015, “Using the Spatial Scan Statistic to Detect Age Differences of Dengue Cases in Mueang District, Kamphaeng Phet Thailand.”
- Guo, Xue, MA, 2014, “Exploring time as a determinant of individuals’ accessibility to amenities within activity spaces: A mobile activity space accessibility assessment tool based on Google Maps API.” Completed an MS in statistics at University of Minnesota at Duluth, currently GIS Developer at Pacific Gas and Electric (9/2020)
- 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.” Global Fund Project Co-coordinator with Mahidol Oxford Tropical Medicine Research Unit (1/2020)

- Rienti, Michael, MA, 2013, "Original research applying geographic information science for health and safety." PhD. Student at UB Geography and Data Analyst at Independent Health (1/2020)
- Delmerico, Alan, PhD., 2013, "An analysis of potentially undiagnosed diabetes and diabetes-related complications at local, region and national scales." Community Health Behavior Scientist at the Center for Health and Social Research, Buffalo State (1/2020)
- Lee, JinHyung, MA, 2012, "Spatial scan statistics analysis of dengue hospitalizations in Kamphaeng Phet, Thailand, 2009 – 2011." Deceased
- Conrow, Lindsey, MS, 2012, "A spatio-temporal analysis of violent crime and alcohol outlets in Buffalo, NY" Completed PhD. at ASU Geography, Lecturer at University of Canterbury (5/2021)
- Whalen, John, MA, 2011, "Creating a Walkability Data Set and Prediction Map Using the Walkscore Algorithm." Research Analyst at Independent Health (1/2020)
- Thompson, Kristin, MA, 2010, "Attracting international investment and promoting economic growth in the Buffalo Niagara Region." Campaign Director at the American Heart Association (1/2020)
- Touré, Sory, BA (Honors), 2008, "Geographic information systems and agriculture in Sub-Saharan Africa." Completed MA and PhD. program at San Diego State University/UCSB, Remote Sensing Specialist III at Consolidated Safety Services, Inc. (1/2020)
- Royal, Nathaniel, MA, 2007, "Guinea worm afoot: A distance sensitive model for the spread of guinea worm in Eastern Niger." Completed PhD. at UCSB, North American Executive at Global Credit Data (1/2020)

COMPLETED THESIS/PROJECT COMMITTEES

- Yasumiishi, Misa, PhD., 2021, "The Effects of Topography and Soil Properties on Radiocesium Concentrations in Forest Soils in Fukushima, Japan: Data Definitions and Prediction for Field Research."
- Schunder, Torsten, PhD., 2020, "Household-Level Adoption of Modern Sources of Energy for Electrification and Cooking in South Asia."
- Luo, Yue, PhD., 2020, "Cardiovascular disease among Asian immigrants in California."
- Xiangyu, Jiang, PhD., 2020, "Modeling daily ambient air pollution using community multiscale air quality (CMAQ) system."
- Zhang, Quiyi, PhD., 2020, "Modeling a multi-level intervention to improve oral health for Chinese Americans."
- Ye, Xiang, PhD., 2019, "The impacts of the modifiable areal unit problem (MAUP) on linear regression"
- Jin, Zhu, PhD., 2019, "Ontology for Agent-based Modeling of Oral Health Disparities"
- Choi, Sungwoong, PhD., 2019, "Spatial Analysis of Shifts in U.S. Manufacturing Employment and Income Inequality"
- Ding, Nan, PhD., 2019, "An Analysis of Commuting Patterns of Low-Wage Workers in A Declining City"
- Tan, Kuo Siong (Gordon), PhD., 2019, "The myth of the creative financial worker: Evidence from Singapore and China"
- Martinez, Nino, MS, 2019, "Gentrification and housing appreciation in Buffalo, NY: Using census and open data to map displacement pressure"
- Hu, Yangyang, MS, 2019, "Combining Spatial Simulated Annealing with historical profiles of soil samples to optimize soil sampling designs"

- Bajo, Jorge, PhD., 2016, "Integrating community volcanic hazard mapping, geographic information systems, and modeling to reduce volcanic hazard vulnerability"
- Gao, Peng, PhD., 2016, "Structural properties of contact networks and the implications for mitigating the dispersion of communicable diseases"
- Fu, Surui, MS, 2016, "The influences of different spatial weights matrices on Moran's I and Geary's C statistic"
- Wang, Xuan, MS, 2016, "Analysis of Weibo users and factors of use"
- Yin, Yanzhe, MS, 2016, "Spatial analysis of the genome: Method for detecting selection of gene deletions"
- Ptak, Scott, PhD., 2016, "A geographical analysis of commercial lending by US banks: A study of retail banks as knowledge-intensive business providers"
- Li, Yang, MS, 2015, "Spatial-Temporal Analysis of State-Level Adult Diabetes Prevalence and Associated Risk Factors in the Contiguous USA"
- Sun, Tong, MA, 2015, "How Geography Influences the Formation of Social Ties: A Case Study of Gang Rivalry Ties in Los Angeles."
- Yu, Haoliang, MS, 2015, "Space-time cluster analysis of Foot-and-Mouth Disease in South Korea."
- Trgovac, Andrew, PhD., 2015, "The Temporal and Spatial Pattern of Forest Rank Abundance Distributions in the Eastern United States."
- Guo, Jingran, MS, 2015, "Spatial analysis of asthma in New York State with air pollution and socioeconomic factors."
- Ruffino, Michael F., MA, 2014, "A survey of recovery, and geography in the program of Alcoholics Anonymous: A case study of location and recovery from alcoholism."
- 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.

O'Connor, Collin

Rienti, Michael (currently on leave of absence)

MA/MS

Fan, Li

Liao, Mengyu

Wrona, Matt

CURRENT COMMITTEES

PhD.

Karp, David

Peterson, Sara

Townsend, Jonathan

Zhang, Han

DEPARTMENTAL SERVICE

Director of Undergraduate Studies	2018-Present
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

COLLEGE/UNIVERSITY SERVICE

Interim Director of the National Center for Geographic Information and Analysis
2020-2021
College of Arts and Sciences Appointments, Promotions and Tenure Committee
2014-2017
Faculty Senator *ad interim*
2008-2009
Faculty Senator
2009-2014

PROFESSIONAL SERVICE

Invited Lecture: **October 12, 2018**
"How useful are your patterns?" The Arthur Getis Lecture Series at the Department of
Geography, San Diego State University

Co-organizer: **May 3-4, 2018**
Antimicrobial Resistance Symposium, co-organized with Shamim Islam, Pediatrics and Diana
Aga, Chemistry, An international symposium of UB's Community for Global Health Equity

Co-organizer: **April 23, 2015**
5 conference sessions on Spatial Epidemiology at the annual meeting of Association of
American Geographers, Chicago, Illinois

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**

Acta Tropica **2017**
American Journal of Epidemiology **2012, 2015**
American Journal of Preventive Medicine **2020**
American Journal of Public Health **2009, 2010, 2011, 2013**
American Journal of Tropical Medicine and Hygiene
2009, 2010, 2011, 2012, 2013, 2014, 2016, 2017, 2018, 2019
Annals of the Association of American Geographers **2004, 2009, 2010, 2011**
Applied Geography **2016, 2017**
Cartography and Geographic Information Science **2019, 2021**
Computers, Environment and Urban Systems **2009, 2010, 2011, 2012, 2017**
Demography **2016**
Dengue Bulletin **2012**
Ecological Modelling **2019**
Emerging Infectious Diseases **2013, 2016**
Environment and Planning A **2007, 2013, 2015**
Environmental Geochemistry and Health **2008**
Environmental Health **2011**
Geographical Analysis
2006, 2009, 2010, 2011, 2012, 2014, 2017, 2018, 2019, 2020, 2021
Health and Place **2017, 2018**
International Journal of Applied Geospatial Research **2010, 2011**
International Journal of Climatology **2013**
International Journal of Geographical Information Science
2008, 2009, 2010, 2011, 2012, 2013, 2017, 2018, 2020
International Journal of Health Geographics **2012, 2016, 2019**
International Regional Science Review **2007, 2008, 2016**
Journal of Geographical Systems **2004, 2006, 2008, 2010, 2011**
Journal of Medical Entomology **2017, 2018**
Mathematical Geosciences **2009, 2010**
PLoS Neglected Tropical Diseases **2012, 2013, 2014, 2015, 2016, 2019, 2020**
PLoS ONE **2013, 2016**
Preventing Chronic Disease **2018**
Professional Geographer **2007**
Population Ecology **2010**
Stochastic Environmental Research and Risk Assessment **2006**
The Lancet Global Health **2019**
Tropical Medicine & International Health **2011, 2018, 2020**
Transactions of the Royal Society of Tropical Medicine and Hygiene **2014**
Vaccine **2011, 2015, 2019**

Books and Book Chapters

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

Proposals

- National Geographic Society* **2016**
NSF - Review Panel **2015, 2016, 2017, 2018**
NSF – Division of Behavioral and Cognitive Sciences - ad hoc reviewer **2011**
NSF – Division of Social and Economic Sciences - ad hoc reviewer
2011, 2012, 2013, 2014, 2019, 2020

Tutorial/Workshop Proposals

- GIScience 2012* **2012**

Editorial Board

- International Journal of Geographical Information Science* **2020-Present**
Spatial Demography **2012-Present**

Program Committee Member

- GIScience 2016, 2018, and 2020*

MEMBERSHIPS

- Association of American Geographers
 Spatial Analysis and Modeling Specialty Group
 Medical Geography Specialty Group
The American Society of Tropical Medicine and Hygiene