

JANE M. READ

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EDUCATION

- Ph.D. 1999, Geography, Louisiana State University.
Dissertation: "Land-cover Change Detection for the Tropics Using Remote Sensing and Geographic Information Systems." Advisor: Nina Lam.
- M.Sc. 1990, Surveying, University of London (University College London).
- B.Sc. 1987 (with first class honors), Environmental Science, University of London (Queen Mary College).

ACADEMIC POSITIONS

- 2005- Associate Professor, Department of Geography, Syracuse University.
1999-2005 Assistant Professor, Department of Geography, Syracuse University.

HONORS AND AWARDS

- 2005 Moynihan Award for Teaching and Research, Maxwell School, Syracuse University.
- 2004 Chancellor's Award for Public Service: awarded to Spring 2004 Geo 383 Principles of Geographic Information Systems/Syracuse Hunger Project (course instructor).
- 2001 Finalist, Association of American Geographers J. Warren Nystrom Dissertation Award Competition, 2001.
- 1999 Association of American Geographers Remote Sensing Specialty Group Student Paper Competition 2nd place, *AAG Annual Meeting*, Honolulu, Hawaii.
- 1998 Association of American Geographers Remote Sensing Specialty Group Student Paper Competition 2nd place, *AAG Annual Meeting*, Boston, MA.
- 1997 EOSAT Award for Application of Digital Landsat-TM Data. Presented by the American Society for Photogrammetry and Remote Sensing in support of doctoral dissertation research.
- 1987-1988 Advanced Course M.Sc. Studentship, Natural Environment Research Council, U.K.

RESEARCH

GRANTS/FUNDING

- 2018/2019 Where are the women Geospatial Science leaders of tomorrow? Building the TRELIS to help retain and develop women leaders. Carolyn Merry Grant University Consortium for Geographic Information Science, \$4,000. (with J. Blanford).
- 2016 Unmanned aerial systems and the social and natural sciences. College of Engineering and Computer Sciences, Syracuse University, \$35,236. Co-PI.
- 2016/2017 Digital data visualization and interpretation in the public humanities. CNY Humanities Corridor, \$1,300 (2016), \$3,000 (2017), Co-PI.
- 2015 Onondaga Lake: Finding a restorative center in digital space. National Endowment for the Humanities, \$29,879 (co-investigator).
- 2009 Storing carbon in rangeland soils to mitigate global climate change. 2009 Chancellor's Leadership Project, Syracuse University, \$120,000. Co-PI.
- 2006 Acquisition of Networked Computers for the Integrated Spatial Dynamics Laboratory. National Science Foundation, Major Research Instrumentation, BCS: \$202,087. Co-PI.
- 2005 Maxwell Summer Project Assistantship (to fund Graduate Assistant): \$ 1,250. PI.
- 2005-2011 Biodiversity dynamics and land-use changes in the Amazon: multi-scale interactions between ecological systems and resource-use decisions by indigenous peoples. National Science Foundation, Behavioral and Cognitive Sciences Biocomplexity in the Environment: Dynamics of Coupled Natural and Human Systems Program: \$1,650,000. Co-PI. (PI on subcontract to SUNY-ESF).
- 2004 Interdisciplinary project to develop interactive tools for community empowerment in resource management (Yucatan, Mexico). *EnSPIRE Seed Grant Program, Syracuse University and State University of New York-Environmental Science and Forestry*: \$20,536. Co-PI.

- 2003 Cultures in Transition: Complexity in Human-Nature Interactions and Biodiversity Dynamics in Indigenous Areas. EnSPIRE Seed Grant Program, Syracuse University and State University of New York-Environmental Science and Forestry: \$24,525. Co-PI.
- 2003 Geographic Information Systems Support to FEMA Disaster Field Office. Federal Emergency Management Agency: \$12,500. PI.
- 2003 Fine-Resolution Remote Sensing of Tropical Forest Structure and Dynamics: Issues of Scale and Resolution. Apply-Mosher Fund, Maxwell School, Syracuse University: \$1,000. PI.
- 2001 Indicators of Land Use in Lowland Forest Environments Using Multisensor, Multiscale Remote Sensing. Department of Geography, Syracuse University: \$2,500. PI.
- 2000-2003 Response of Complex Ecosystems to Atmospheric Deposition. W.M. Keck Foundation: \$1,000,000. Co-PI.
- 2000 Preliminary research on land-use and land-cover in Brazil. Syracuse University: \$6,500.
- 1996-1998 Land-cover Change Detection for the Tropics Using Remote Sensing and Geographic Information Systems. National Science Foundation Doctoral Dissertation Improvement Grant, Geography & Regional Science Program: \$ 9,995. (PI: Nina Lam).
- 1996 Investigation of Human-induced Land-cover Change in the Tropics using Geographic Information Systems: A Case Study in Northern Costa Rica. R.C. West Field Research Award, Dept. Geography & Anthropology, Louisiana State University \$ 700. PI.
- 1990-1991 Conservation Status Survey of the Cracids of Bolivia. Field Research Grant, Wildlife Conservation Society, New York: \$21,000. Co-PI.

PUBLICATIONS

Refereed Articles and Book Chapters

Published/Accepted

- Read, J.M.**, C. Chambers, and M.J. Torrado. 2019. "Remote Sensing" In International Encyclopedia of Human Geography, Second Edition, Elsevier.
- A.R. Cummings, **J.M. Read**, J.M.V. Fragoso. 2018. "Implications of forest type and land tenure diversity for the sustainability of ecosystem services provided by northern Amazonia's multiple-use tree species." *Landscape Ecology*, DOI 10.1007/s10980-018-0614-3.
- A.R. Cummings and **J.M. Read**. 2016. "Drawing on Traditional Knowledge to Identify and Describe Ecosystem Services Associated with Northern Amazon's Multiple-Use Plants" *International Journal of Biodiversity Science, Ecosystem Services & Management* 12 (1-2), pp. 39-56. DOI: 10.1080/21513732.2015.1136841.
- José M. V. Fragoso, Taal Levi, Luiz F. B. Oliveira, Jeffrey B. Luzar, Han Overman, **Jane M. Read**, Kirsten M. Silvius. 2016. "Line Transect Surveys Underdetect Terrestrial Mammals: Implications for the Sustainability of Subsistence Hunting." *PLoS ONE* 11(4): e0152659. doi:10.1371/journal.pone.0152659.
- A.R. Cummings, **J.M. Read**, J.M.V. Fragoso. 2015. "Utilizing Amerindian Hunters' Description of Vegetation to Guide the Production of a vegetation Cover Map," *International Journal of Applied Geospatial Research* Vol 6(1): 118-142.
- B.E. McNeil, **J.M. Read**, and C.T. Driscoll. 2011. "Foliar Nitrogen Responses to the Environmental Gradient Matrix of the Adirondack Park, New York." *Annals of the Association of American Geographers* Vol 102(1): 1-16.
- J. Luzar, K.M. Silvius, J.P.M. Overman, S.T. Giery, **J.M. Read**, and J.M.V. Fragoso. 2011. "Large-scale environmental monitoring by indigenous peoples". *Bioscience* Vol 61: 771-781.
- Read, J.M.**, J.M.V. Fragoso, K.M. Silvius, J. Luzar, H. Overman, S.T. Giery and L.F. de Oliveira. 2010. "Space, Place, and Hunting among Amerindians of the Guyanese Rupununi" *Journal of Latin American Geography* 9(3), pp. 213-243.
- Read, J.M.** 2010. "Teaching Introductory Geographic Information Systems through Problem-based Learning and Public Scholarship" *Journal of Geography in Higher Education*. Vol 34(3), pp. 379-399.

- Read, J.M.** and M.J. Torrado. 2009. "Methods: Remote Sensing" In *International Encyclopedia of Human Geography*, Volume 9, pp. 335-346. Eds. Rob Kitchin and Nigel Thrift, Elsevier.
- McNeil, B.E., **J.M. Read**, T.J. Sullivan, T.C. McDonnell, I.J. Fernandez, and C.T. Driscoll. 2008. "The spatial pattern of nitrogen cycling in the Adirondack Park, New York." *Ecological Applications* Vol 18(2), pp 438-452..
- McNeil, B.E., **J.M. Read**, and C.T. Driscoll. 2007. Foliar nitrogen responses to elevated atmospheric nitrogen deposition in nine temperate forest canopy species. *Environmental Science & Technology* 41: 5191-5197.
- Read, J.M.** 2006. Satellite Remote Sensing for Management and Monitoring of Certified Forestry: An Example from the Brazilian Amazon. In *Globalization and New Geographies of Conservation* (ed. K. Zimmerer), pp71-91. University of Chicago Press, Chicago.
- McNeil, B.E., R.E. Martell, and **J.M. Read**. 2006. GIS and biogeochemical models for examining the legacy of forest disturbance in the Adirondack Park, NY, USA. *Ecological Modelling* Vol 195, pp. 281-295.
- McNeil, B.E., **J.M. Read**, and C.T. Driscoll. 2005. Identifying controls on the spatial variability of foliar nitrogen in a large, complex ecosystem: the role of atmospheric nitrogen deposition in the Adirondack Park, NY, USA. *Journal of Agricultural Meteorology* Vol 60(6), pp. 1157-1160.
- Powers, J.S., **J.M. Read**, J.S. Denslow, and S.M. Guzman. 2004. Estimating Carbon Dioxide Fluxes From Soil Carbon Pools Following Land-Cover Change: A Test of Some Critical Assumptions for a Region in Costa Rica. *Global Change Biology* Vol 10, pp. 170-181.
- Clark, D.B., **J.M. Read**, M. Clark, A. Murillo Cruz, M. Fallas Dotti, and D.A. Clark. 2004. Application of 1-m and 4-m Resolution Satellite Data to Studies of Tree Demography, Stand Structure and Land Use Classification in Tropical Rain Forest Landscapes. *Ecological Applications* Vol 14, No 1, pp. 61-74.
- Clark, D.B., C. Soto Castro, L.D. Alfaro Alvarado, and **J.M. Read**. 2004. Quantifying Mortality of Tropical Rain Forest Trees Using High-Spatial-Resolution Satellite Data. *Ecology Letters*, Vol 7, pp 52-59.
- Hurttt, G., X. Xiao, M. Keller, M. Palace, G.P. Asner, R. Braswell, E.S. Brondizio, M. Cardoso, C.J.R. Carvalho, M.G. Fearon, L. Guild, S. Hagen, **J.M. Read**, T. Sá, A. Schloss, G. Vourlitis, A.J. Wickel, B. Moore III, and C. Nobre. 2003. IKONOS Imagery for the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA). *Remote Sensing of Environment*, Vol 88, pp 111-127.
- Read, J.M.**, D.B. Clark, E.M. Venticinque, and M.P. Moreira. 2003. Application of Merged 1-m and 4-m Resolution Satellite Data to Research and Management in Tropical Forests. *Journal of Applied Ecology*, Vol 40, No 3, pp. 592-600.
- Read, J.M.** 2003. Spatial Analyses of Logging Impacts in Amazonia Using Remotely Sensed Data. *Photogrammetric Engineering and Remote Sensing* Vol 69, No 3, pp. 275-282.
- Read, J.M.** and N.S.-N. Lam. 2002. Spatial Methods for Characterizing Land Cover and Detecting Land-cover Changes for the Tropics. *International Journal of Remote Sensing*, Vol 23, No 12, pp. 2457-2474.
- Read, J.M.**, J.S. Denslow, and S.M. Guzman. 2001. Documenting Land-cover History of a Humid Tropical Environment in Northeastern Costa Rica Using Time-Series Remote Sensing Data. In *GIS and Remote Sensing Applications in Biogeography and Ecology* (eds. A.C. Millington, S.D. Walsh and P.E. Osborne), pp. 69-89. Kluwer, Boston.
- Clark, D.B., D.A. Clark and **J.M. Read**. 1998. Edaphic Variation and the Mesoscale Distribution of Tree Species in a Neotropical Rain Forest. *Journal of Ecology* Vol 86, pp. 101-112.
- G. Cox, **J.M. Read**, R.O.S. Clarke and V.S. Easty. 1997. Studies of Horned Curassow *Pauxi unicornis* in Bolivia. *Bird Conservation International* Vol 7, pp. 199-211.
- G. Cox and **J.M. Cox (Read)**. 1997. Cracidae Country Report for Bolivia. In *The Cracidae: Their Biology and Conservation* (eds. S.D. Strahl, S. Beaugon, D.M. Brooks, A.J. Begazo, G. Sedaghatksh, F. Olmos), pp. 474-481. Hancock House Publishers, WA.

Refereed Abstracts

- Read, J.M.** and N.S.-N. Lam. 2000. Land cover from Landsat-TM Data Using Selected Spatial Statistics.

Abstracts of GIScience 2000 First International Conference on Geographic Information Science, held in Savannah, GA, October 28-31. Ed. A.R. Caschetta (Savannah, GA: University of California Regents), pp 373-374.

Technical Reports and Editorials

- Mennis, J., Kemp, K. Sinton, D., **Read, J.**, Shaw, S-L 2021. "UCGIS at 25," *Transactions in GIS* <https://doi.org/10.1111/tgis.12856>
- Read, J.M.**, J.M.V. Fragoso, J. Luzar, H. Overman. 2013. "Village name, Rupununi, Guyana, Project Fauna Community Atlas". Unpublished report, Geography Dept., Syracuse University, Syracuse, NY, USA, pp 32. (23 atlases for the following villages: Achawaib, Aishalton, Apoteri, Awarewanau, Crashwater, Fairview, Karaudarnau, Katoka, Kwaimatta, Moco Moco, Nappi, Pai Pong, Para Bara, Quattata, Quiko, Rewa, Sand Creek, Sawariwao, Shea, Shiriri, Tipuru, Werimoor, Wowetta), Second edition.
- Read, J.M.**, J.M.V. Fragoso, J. Luzar, H. Overman. 2011. "*Village name*, Rupununi, Guyana, Project Fauna Community Atlas". Unpublished report, Geography Dept., Syracuse University, Syracuse, NY, USA, pp 32. (23 atlases for the following villages: Achawaib, Aishalton, Apoteri, Awarewanau, Crashwater, Fairview, Karaudarnau, Katoka, Kwaimatta, Moco Moco, Nappi, Pai Pong, Para Bara, Quattata, Quiko, Rewa, Sand Creek, Sawariwao, Shea, Shiriri, Tipuru, Werimoor, Wowetta)
- Read, J.M.** 2010. Guest editorial for Special Issue "GIS studies on Latin America" in *Journal of Latin American Geography* 9(3), pp. 5-8.
- G. Cox, **J.M. Cox (Read)**, T.A. Parker III and O. Rocha. 1992. Las Aves y los mamiferos de Perseverancia. *Ecología en Bolivia: Documentos, Serie Zoología, No. 1, La Paz, Bolivia.*

PRESENTATIONS

Invited Presentations and Panels

- "UAS in Higher Education – Challenges and Prospects in Instruction" *American Association of Geographers* Annual Meeting, Washington DC (April 2019). Panel.
- "Integrating geospatial technologies into higher education." NYS GIS Association, Webinar presenter. Sept 2018.
- "Data Science in Higher Education." University Consortium of Geographic Information Science Symposium Frontiers of Geospatial Data Science. (May 2018). Panel.
- "Onondaga Lake: Finding a Restorative Center in Digital Space," *Challenging Canada 150 symposium: Nipissing University*, October 2017 (with Rachel May and Philip Arnold).
- "The digital humanities at Syracuse University," Alumni panel, Sept 2016. Presenter and panelist.
- "Onondaga Lake: Finding a restorative center in digital space" Community Outreach & Applications: Challenges and Opportunities panel at the Cornell University Geospatial Forum, 13 Oct, 2015. (with Rachel May).
- "Hunting Patterns among Indigenous Peoples of Southern Guyana", *Department of Geography, Environment, and Society, University of Minnesota*, Oct 2014
- "Hunting patterns among indigenous peoples of Southern Guyana: a natural and human perspective". *Syracuse University*, Department of Geography Colloquium Series, April 2011. "Learning about hunger through community-based GIS: lessons from the Syracuse Hunger Project." *Auburn University*, Department of Geology and Geography, March 2008
- "Biodiversity dynamics and land-use changes in the Amazon: an interdisciplinary project." *The Pennsylvania State University*, Department of Geography. April 2007.
- "The Makushi Project", *Association for Tropical Biology and Conservation*, Morelia, Mexico, July 2007 (presented by Jose Fragoso).
- "The Syracuse Hunger Project: an academic, community, faith, and government collaboration," Department of Geography, *Denver University*, Denver, CO (May 19, 2005).
- "Mentoring Early Career Geographers: Issues and Strategies", Annual Meeting of the Association of American Geographers, Philadelphia, PA. March 2004. Panel.

- "Satellite Remote Sensing for Management and Monitoring of Certified Forestry: An Example from the Brazilian Amazon," Globalization and Geographies of Conservation Conference, *University of Wisconsin-Madison*, Madison WI (April 19, 2002).
- "Remote Sensing of Managed Tropical Forests: scale, disturbance, and structure," Department of Geography, *SUNY University at Buffalo*, Buffalo, NY (2002).
- "Remote Sensing of Managed Tropical Forests: scale, disturbance, and structure," Department of Geology and Geography, *University of West Virginia*, Morgantown, WV (2001).
- "Application of Ikonos satellite data to management of tropical forests," Setor de Estudos do Uso da Terra e Mudancas Globais - SETEM, *Universidade Federal do Acre*, Brasil (2001).
- "Métodos para la Detección de Cambios de Cobertura de Suelos en los Trópicos," La Selva Researchers' Talk Series, *La Selva Biological Station*, Heredia, Costa Rica (1996).
- "Costa Rica, Nicaragua and Panama." Geography & Anthropology Society Forum Lite, Dept. Geography & Anthropology, *Louisiana State University* (1996).

Presentations at Professional Meetings and Conferences

- "Geospatial Sciences: Where are the women leaders of tomorrow?" GIS Day, The Pennsylvania State University. Blanford and Read (Nov 2018).
- "Geospatial technologies for spatial storytelling: experiences from research and teaching." Spatial Humanities conference, Lancaster, UK. Read and May (Sept 2018).
- "Teaching Unmanned Aerial Vehicles for the Natural and Social Sciences," American Association of Geographers Annual Meeting, New Orleans 2018. Poster (with Christa Kelleher).
- "Unmanned Aerial Vehicles in the Geography Curriculum and Classroom," American Association of Geographers Annual Meeting, Boston 2017. Panel co-organizer.
- "Spatial Storytelling, the Geohumanities, and Stories of Onondaga Lake." American Association of Geographers Annual Meeting, Boston 2017. Poster (with Andree Finkelstein and Rachel May).
- "Onondaga Lake: Finding a restorative center in digital space," American Association of Geographers Annual Meeting, San Francisco 2016 (with Rachel May and Philip Arnold).
- "An Evaluation of the Environmental Factors Associated with the Distribution of Multiple-use Tree Species", Association of American Geographers Annual Meeting, Los Angeles, April 9-13, 2013. Co-author. Part of the paper session "People and Plants: Sustainable Use, Valuation, and Conservation of Natural Resources, including Non-Timber Forest Products (NTFPs)."
- "Changing Land Tenure and its influence on Land Use in the Rupununi, Guyana." Association of American Geographers Annual Meeting, New York, February 24-28 April, 2012. Co-author.
- "El Nino Climate Effects on Mid to Large Sized Mammal Species in the Amazon" *Assoc. of Tropical Biology and Conservation Meeting*, Arusha, Tanzania, June 12-16, 2011. Co-author.
- "Foliar nitrogen responses to the environmental gradient matrix of the Adirondack Park, New York" *Annual Meeting of the Ecological Society of America*, Pittsburgh, PA, Aug 1-6 2010. Co-author.
- "Space, Place and Hunting Behavior Among Indigenous Peoples of the Guyanese Amazon" *Association of American Geographers Annual Meeting*, Washington, D.C April 2010. Presenter and co-author.
- "Feedbacks in a Tropical Coupled Human-Natural System of the Amazon Basin" *Association of American Geographers Annual Meeting*, Washington, D.C April 2010. Co-author.
- "Mapping Wildlife Food Availability in the Rupununi, Guyana: Developing an Appropriate Methodology". *New York State GIS conference*, Lake Placid, New York, October 25-27, 2009. (Poster presentation by A.R. Cummings; co-authors J.M.V. Fragoso, K.M. Silvius, J.P. Gibbs, J.B. Luzar, S.T. Giery, L.F.V.Oliveira, J. Overman, P. Moses).
- "Biodiversity conservation through integrated conservation and development: has Iwokrama been successful?". Annual meeting of the Ecological Society of America, Albuquerque, New Mexico, August 2-7 2009. (Presented by E. Kachorek; co-authors Fragoso, J.M., Silvius, K., Giery, S., Luzar, J., de Oliveira, L.F., Gibbs, J., Stevens, M.L., Kneitel, J.M.
- "Land cover change in the Oneida Lake Watershed, 1987 - 2007." *Association of American Geographers Meeting*, Boston, MA 2008. (Presented by Anna Lumsden; co-authors Jay Puckett, Marla Torrado).

- “Teaching Introductory GIS through Public Scholarship.” *Association of American Geographers Meeting*, San Francisco 2007.
- “The changing landscape of hunger in Syracuse, NY: Intervening in a permanent crisis.” *103rd Annual Meeting of the Association of American Geographers*, March 2006, Chicago, IL. (with D. Mitchell and J. Allen).
- “Henry Gleason meets hyperspectral remote sensing: the importance of species in detecting foliar nitrogen response to nitrogen deposition.” *103rd Annual Meeting of the Association of American Geographers*, March 2006, Chicago, IL. (with B.E. McNeil and C.T. Driscoll; presented by B.E. McNeil).
- “Community Geography: Navigating the politics of participation in Syracuse, NY.” *103rd Annual Meeting of the Association of American Geographers*, March 2006, Chicago, IL. (with J. Allen and D. Mitchell; presented by J. Allen).
- “A proposal to study multi-scale interactions between ecological systems and resource-use practices by Amazonian indigenous peoples.” *Annual Meeting of the Association for Tropical Biology and Conservation*, Uberlandia, Brazil. 24-28 July 2005 (with K.M. Silvius, J.M.V. Fragoso, L.L. Martins, J. Chave, D. Swaney, and J.P. Gibbs; presented by Kirsten Silvius).
- “The role of faith-based organizations in community-based GIS: lessons learned from the Syracuse Hunger Project.” *2005 Public Participation GIS conference*, Cleveland, OH. 2005.
- “Fertilizing the Wilderness: Nitrogen in Acid Rain, Increased Foliar Nitrogen, and Implications for Adirondack Ecosystems” Poster Presentation at the *12th Annual Conference on the Adirondacks*, May 25-26, 2005. Lake Placid, NY (with B.E. McNeil and C.T. Driscoll; presented by B.E. McNeil).
- “Anthropogenic and Natural Controls on the Spatial Variation of Foliar Nitrogen in the Adirondack Park” Oral Paper Presentation at the *102nd Annual Meeting of the Association of American Geographers*, April 5-9, 2005, Denver, CO (with B.E. McNeil and C.T. Driscoll; presented by B.E. McNeil).
- “Incorporating texture in tropical land-cover classification using high-resolution satellite data.” *Annual Meeting of the Association of American Geographers*, Philadelphia, PA. 2004.
- “The legacy of forest disturbance in Adirondack Park, NY ecosystems: evidence from coupled GIS-biogeochemical models.” *Annual Meeting of the Association of American Geographers*, Philadelphia, PA. 2004. (with B.E. McNeil and R.E. Martell; presented by B.E. McNeil).
- “Is Nitrogen Deposition Altering the Nitrogen Status of Northeast U.S. ecosystems?: support for Aber et al. (2003) using a large, single-year foliar nitrogen dataset from the Adirondack Park.” *Northeast Ecosystem Research Cooperative 2004 Annual Meeting*, November 17-18, 2004, Durham, NH (with B.E. McNeil and C.T. Driscoll; presented by McNeil).
- “Anthropogenic and Natural Controls of Foliar Nitrogen Spatial Variability in the Adirondack Park, New York State, USA. *6th International Symposium on Plant Responses to Air Pollution and Global Change*, October 19-22, 2004. Tskuba, Ibaraki, Japan. (with B.E. McNeil and C.T. Driscoll; presented by McNeil).
- “Use of texture for land-cover classification of high spatial resolution satellite data.” *Open Meeting of the Human Dimensions of Global Environmental Change Research Community*, 16-18 October 2003. Montreal, Canada. (Poster).
- “Evaluating the long-term effect of anthropogenic forest disturbance on predictions of nitrogen cycling.” *Adirondack Research Consortium Annual Meeting*, May 28-29, 2003. Saranac Lake, NY. (with B.E. McNeil and R. Martell; presented given by B.E. McNeil.)
- “Introductory-level GIS modeling for reconstructing land cover change in the Adirondack Park, NY 1800-1916.” *Annual Meeting of the Association of American Geographers*, New Orleans, LA, 2003 (poster, with B.E. McNeil, M.R. Schramm, K. Cawley, E.M. Kad, A. Karns, C. Limbert, M. Lochner, C.D. Mackowiak, R. Martell, S.M. Reginelli, B.T. Ross, A.L. Shailer, B. Tevelin, S. Thompson, M. Trombley; presented by B.E. McNeil).
- “Applications of 1-m and 4-m resolution satellite imagery to studies of tropical forest ecology, management, and secondary forest detection.” *Annual Meeting of the Association for Tropical Biology*, Panama (with D.B. Clark, M. Clark, D.A. Clark, A. Murillo, M. Fallas, E.M. Venticinque, M. Moreira; presented

- by D.B. Clark). 2002.
- "Linking pattern to process in a managed tropical forest using multi-scale high-resolution satellite data." *Annual Meeting of the Association of American Geographers*, Los Angeles, CA. 2002.
- "Land-use and land-cover change in the Sarapiquí region of northeastern Costa Rica." *Open Science Meeting of the Human Dimensions of Global Environmental Change Research Community*, Rio de Janeiro, Brazil. (Poster). 2001.
- "Spatial methods for characterizing land cover and detecting land-cover changes for the tropics." *Annual Meeting of the Association of American Geographers*, New York, NY. 2001.
- "Use of GIS to analyze wildfire shape". *Annual Meeting of the Association of American Geographers*, New York, NY. (Poster, with J. Bendix). 2001.
- "Land Cover from Landsat-TM Data Using Selected Spatial Statistics." *GIScience 2000 First International Conference on Geographic Information Science*, Savannah, GA. (Poster, with N. Lam). 2000.
- "Documentation of Land-Cover History of Secondary Forests of Northeastern Costa Rica Using Time-Series Remote Sensing Data." *Annual Meeting of the Ecological Society of America*, Snowbird, Utah. (Poster, with J.S. Denslow, and S.M. Guzman: presented by J.S. Denslow). 2000.
- "Comparison of Digital Spatial Pattern Recognition Indices for Characterizing Land-Cover from Remote Sensing Data." *Annual Meeting of the Association of American Geographers*, Pittsburg, PA. (with N. Lam). 2000.
- "Dynamic Tropical Landscapes: Understanding Land-Cover and Land-Use Changes Using Remote Sensing and GIS." *Annual Meeting of the Association of American Geographers*, Honolulu, Hawaii. 1999.
- "Dynamic Tropical Landscapes: Documenting Land-Cover History of Secondary Forests in a Humid Tropical Environment Using Time-Series Remote Sensing Data". *International Symposium on Spatial Analysis in Biogeography and Ecology, Annual Meeting of the Institute of British Geographers*, Leicester, U.K. (with J.S. Denslow, S.M. Guzman). 1999.
- "Detecting Land-Cover Changes in a Lowland Tropical Environment Using Landsat-TM." *Annual Meeting of the Association of American Geographers*, Boston, MA. Remote Sensing Specialty Group Session Chair. 1998.
- "Land-Cover Changes in a Lowland Tropical Environment: deforestation, patterns of forest cover, and habitat fragmentation in northeastern Costa Rica." *Annual Meeting of the Association for Tropical Biology*, San José, Costa Rica (Poster, with N. Lam). 1997.
- "Methods of Land-Cover Change Detection for the Tropics using Landsat-TM." *Annual Meeting of the Association of American Geographers*, Ft. Worth, TX. (with N. Lam). 1997.
- "Métodos para la Detección de Cambios de Cobertura de Suelos en los Trópicos." *GeoProcesamiento 96: Sistemas de información geográfica, teledetección, sistemas de posicionamiento global en Costa Rica*, San José, Costa Rica (with N. Lam). 1996.
- "Variação Edáfica e a Distribuição a Nivel da Paisagem das Espécies das Árvores numa Floresta Tropical." *Third Brazilian Congress of Ecology*, Brasilia, Brazil. (Poster, with D.B. Clark and D.A. Clark: presented by D.B. Clark). 1996.
- "Edaphic Variation and the Meso-scale Distribution of Tropical Rain Forest Trees." *Annual Meeting of the Ecological Society of America*, Providence, RI (with D.B. Clark and D.A. Clark: presented by D.B. Clark). 1996.

TEACHING AND ADVISING

Academic Courses and Labs

Syracuse University: *Mapping Today: Technology and Spatial Thinking* (lower-level undergraduate), *Principles of Geographic Information Systems* (undergraduate/graduate); *Environmental Geographic Information Science* (undergraduate/graduate); *Global Environmental Change* (upper-level undergraduate; lower-level undergraduate), *Spatial Storytelling* (undergraduate/graduate), *Introduction to Unmanned Aerial Vehicles: Research and Applications* (undergraduate/graduate),

Tropical Environments (upper-level undergraduate), *Environmental Remote Sensing* (undergraduate/graduate), *Research on Land Change* (graduate research seminar), *First-Year Forum*.

Louisiana State University: *Physical Geography: Land and Water Surfaces, Plant and Animal Realms; Environmental Remote Sensing* (computer lab instructor); *Geographic Information Systems* (computer lab instructor).

Advising

Current advisees: Khila Pecoraro (MA)

Past advisees: Dakota Bailey (MA), Kelly Nickodem (MA), Anthony Cummings (PhD), Renee Huset (MA), Lucy Kammer (MA), Brenden McNeil (PhD), Marla Torrado (MA), Amy Work (MA), Michael Schramm (MA).

SERVICE

Community

- 2017-2018 Member of Central Square School District's *College and Career Readiness Committee*.
- 2013 Workshop leader, "Expanding your horizons", YWCA Syracuse and Onondaga county.
- 2009 Workshop leader, Sonya Kovalevsky Math Festival, Syracuse, NY.
- 2005-2018 Member of Syracuse Community Geographer Advisory and Steering Committees
- 2005 Member of the Program Advancement Committee for United Way's Earned Income Tax Credit Initiative.
- 2003-2005 Member of the Syracuse Hunger Project Steering Committee.
- April 2003 Sigma-Xi judge for the City of Syracuse Museum of Science and Technology Annual Science Fair (junior and senior divisions).

Profession

- 2021-2022 President, University Consortium for Geographic Information Science.
- 2021-2022 Chair, Symposium Organizing Committee for UCGIS Symposium 2022 *GIScience Forward: Meeting the Challenge*, Syracuse University, June 7-9, 2022.
- 2020-2021 President-Elect (Vice-President) University Consortium for Geographic Information Science.
- 2020-2021 Chair, UCGIS Carolyn Merry Mentoring Award Committee.
- 2018/2019 Co-organizer and co-leader of "Women in Geospatial Sciences, Building Leaders for Tomorrow" workshops. PSU Workshop Nov 1-2, 2018. SU Workshop May 2019 (with Justine Blanford).
- 2019 Panel Organizer and Chair: "Women in Geography, Building Leaders for Tomorrow." With J. Blanford. *American Association of Geographers* Annual Meeting, Washington DC.
- 2016-2017 Editor, UCGIS GIS&T Body of Knowledge 2.0, *Data Capture* knowledge area.
- 2016 Member, UCGIS Nominations Committee.
- 2015 National Endowment for the Humanities (NEH) grant review panel
- 2015 Co-organizer of the 2015 UCGIS Summer Symposium (May 28-30) in Washington, DC.
- 2014 Panel leader and workshop co-organizer, UCGIS "GIScience Master's and Certificate Programs: Improving practice and sharing experiences."
- 2013-2016 Member, UCGIS GIS&T Body of Knowledge Task Force Steering Committee
- 2012-2015 Board Member, University Consortium of Geographic Information Science
- 2011-2014 Chair, Awards Committee, *Remote Sensing Specialty Group, Association of American Geographers*.
- 2009 Panel Organizer, Chair and Panelist: Challenges of collaborative and interdisciplinary research projects. *Annual Meeting of the Association of American Geographers*, Las Vegas, NV. March 2009.

- 2007-2009 Geography and Regional Science National Science Foundation Doctoral Dissertation Research Improvement Grant Advisory Panel.
- 2007-2009 President, Syracuse Chapter, Sigma-Xi 2007-2009.
- 2006-2011 Member of Awards Committee, *Remote Sensing Specialty Group, Association of American Geographers.*
- 2005-2008 Chair, Communications Committee, *University Consortium for Geographic Information Science.*
- 2004-2006 Co-Director: *Remote Sensing Specialty Group, Association of American Geographers.*
- 2004 Judge: Cartography/GIS/RSSG Student Illustrated Paper Competition, *Annual Meeting of the Association of American Geographers*, Philadelphia, PA. March 2004.
- 2004 Sessions Organizer: Environmental Applications of High Resolution Remote Sensing I and II, Sponsored by the Remote Sensing Specialty Group, *Annual Meeting of the Association of American Geographers*, Philadelphia, PA. March 2004.
- 2003 Annual Meeting Program Co-Chair of the *Remote Sensing Specialty Group, Association of American Geographers.* (organized RSSG-sponsored paper sessions).
- Grant reviews *US Civilian Research and Development Foundation.*
National Aeronautics and Space Administration
National Science Foundation: Geography and Regional Science Program/Geography and Spatial Sciences Program; Professional Opportunities for Women in Research and Education Program; Cultural Anthropology Program; Division of International Programs; Ecosystem Studies Program; EaSM Program.
National Research Council: Collaboration in Basic Science and Engineering.
West Virginia University Senate
Mcintire-Stennis Research Program
- Journal reviews: *Biotropica, Geographical Review, International Journal of Geographic Information Science, Middle States Geographer, Photogrammetric Engineering and Remote Sensing, Environmental Conservation, Geocarto International, Landscape Ecology, Environmental Management, Landscape and Urban Planning, Remote Sensing of Environment, Forest Ecology and Management, Ecological Applications, Land Degradation and Development, Journal of Latin American Geography, Annals of the Association of American Geographers, International Journal of Remote Sensing, Ecological Modeling, Journal of Land Use Science, Transactions in GIS, Orxy, Ecology.*
- Book reviews: *Routledge.*

College and University

- 2021-2022 Faculty Liaison to University Senate Committee on Academic Freedom, Tenure, and Professional Ethics (AFTPE) and the Office of Equal Opportunity, Inclusion, and Resolution Services (EOIRS).
- 2020-2021 Chair, Arts & Sciences Promotion & Tenure Committee
- 2020-2021 Member, Faculty Search Committee - Indigenous Environmental Humanities
- 2019- Member, Faculty Steering Committee for the Autonomous Systems Policy Institute, Syracuse University.
- 2019- Member, Arts & Sciences Promotion & Tenure Committee
- 2019-2020 Member, Faculty Search Committee – Autonomous Systems
- 2019-2020 Member, Faculty Search Committee - Indigenous Environmental Humanities
- 2018/2019 Member of ad hoc group to develop a graduate Certificate in Advanced Studies in GIS and Spatial Analysis
- 2019 Member, Maxwell Celebration student paper award committee
- 2017 Faculty search committee, Department of Writing Studies, Rhetoric and Composition.
- 2016- Member, Honors Capstone Prize Committee.
- 2015 Member, Sustainability Education Faculty Advisory Group.
- 2015- Member, Campus Sustainability Committee.
- Fall 2014 Panelist, “Reimagining Student Writers: Rhetorical Genres”, Writing Program, Syracuse University
- 05-09/2014 Chair *pro tem* Academic Freedom Tenure and Professional Ethics committee of the University

Senate

- 2012-2014 Member, Academic Freedom Tenure and Professional Ethics committee of the University Senate
- 2012-2014 University Senate
- 2010-2011 Member of Planning Team, A&S Integrated Learning Major “Energy and its Impacts.”
- 2008-2012 Member of the University’s Conflict of Interest Committee.
- 2008-2011 Member of the Arts & Sciences Tenure and Promotion Committee.
- 2008-2009 Member of the University Lectures Advisory Board.
- 2007-2009 Lower division advising.
- 2006-2009 Syracuse University Delegate to the Organization for Tropical Studies.
- 2006 Member of Appleby Mosher grants committee
- 2005 Member of search committee for Community Geographer.
- 2005 Member of faculty search committee, Department of Biology.
- 2003-2005 Member of the Arts & Sciences Division of International Programs Abroad (DIPA) Committee.
- 2002/2003 Chair of the PLACA Graduate Student Research Awards Committee (Program on Latin America and the Caribbean).
- 2002-2003 Member of the interdisciplinary, cross-College group developing the proposal for a new Major in Environmental Sciences/Studies at Syracuse University.
- 2001-2002 Member: Information and Computing Technology (ICT) Advisory Committee, Maxwell School.
- 2000 Member of Search Committee for Maps and GIS Librarian, Syracuse University Library.
- 2000-2004 Member of the Program on Latin America and the Caribbean (PLACA) Steering Committee.
- 1999- Lead Delegate for Syracuse University to the University Consortium for Geographic Information Science (UCGIS).

Department

- 2021 Chair, Faculty Search Committee, Cartographies of Racial Justice
- 2020- Member, Untenured Mentoring Committee for Ethan Coffel
- 2019-2020 Member, Colloquium Committee
- 2017-2018 Chair, Assessment Committee for Geography programs.
- 2017 Co-organized geography/earth sciences “Drones over downtown” event, Tech Garden, Syracuse, Sept 2017.
- 2014-2018 Director of Undergraduate Studies
- 2014-2018 Coordinator of Environment and Society Minor
- 2013 & 2014 Faculty resource, Geofest
- 2013-2018 Member, Untenured Mentoring Committee for Jonnell Robinson
- 2012-2017 Member, Untenured Mentoring Committee for Natalie Koch
- 2009-2014 Member, Undergraduate Committee
- 2008-2012 Member, Untenured Mentoring Committee for Farhana Sultana.
- 2005-2006 Design, planning, and implementation of the new “Integrated Spatial Dynamics” laboratory.
- 2005-2010 Chair, Untenured Mentoring Committee for Peng Gao.
- 2005-2006 Member of Colloquium Committee.
- 2002-2011 Member of Faculty Search Committees: Climatologist, Geomorphologist/Biogeographer, Quantitative Physical Geographer, Community Geographer.
- 2002 Facilitator, Geographic Information Technologies and Spatial Analysis (GTSA) Research Group.
- 2001-2005 Supervision of the GIA Laboratory and Laboratory Manager.
- 2001 Chair of Search Committee for Manager, Geographic Information and Analysis (GIA) Laboratory.
- Fall 2000 Member of Search Committee: Cartographer.
- 1999-2001 GIA laboratory manager.

PROFESSIONAL DEVELOPMENT

- 2018 Member and Fellow of the inaugural cohort of the TRELIS (Training and Retaining Leaders in

- STEM - Geospatial Sciences) program (May 2018, Madison, WI).
- 2018 Fellow, Yale Summer Institute on Scientific Teaching (June 18-22, San Diego).
- 2018 Participant, EPA EPIC-N Partnerships for Local Action workshop (May 2018, NYC) for partnering higher education and communities.
- 2014 Participant, Summer Institute for Technology Enhanced Teaching and Learning, Syracuse Univ.
- 2009-2010 Participant, Chancellor's Leadership Projects Conversations, Syracuse University.
- Fall 2008 Participant: SU/SUNY-ESF Sustainability Leadership Seminar.
- 2005-2006 Participant: Meredith Teaching Seminar on incorporating travel into classes.
- 2003 Participant: Geography Faculty Development Alliance Workshop, June 1-7, Boulder, CO.
- 2000 Participant: "Summer Institute on Interdisciplinary Global Change Science in the Americas", Inter-American Institute for Global Change Research and University of Miami.