

MYRNA H. P. HALL

Department of Environmental Studies
State University of New York
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ACADEMIC POSITIONS

2007 - Research Associate, Dept. of Environmental Studies, SUNY-ESF
2001 – 2007 Assistant Professor (half-time, non-tenure track), Environmental Studies, SUNY-ESF
2000 Visiting Assistant Professor, Environmental Forest Biology, SUNY-ESF
1994 – 1999 Visiting Instructor, Environmental Forest Biology, SUNY-ESF
1993 – 2002 Instructor, Division of Continuing Education, SUNY-ESF

ADMINISTRATIVE APPOINTMENTS

2007 - Director, Center for the Urban Environment, SUNY-ESF

EDUCATION

M.S., Natural Resources Management, SUNY ESF, 1995
Graduate studies, School of Architecture, University of Washington, 1985-1986
B. A., French, Education, University of Washington 1967

RECENT AWARDS AND GRANTS

2009 • Grant award, National Science Foundation, Urban Long-Term Research Area Exploratory Award (ULTRA-EX), “Positioning Rust-Belt Cities for a Sustainable Future: A Systems Approach to Enhancing Urban Quality of Life” (\$300,000, my research \$51,945)

- 2009 • Grant award, National Science Foundation, Urban Long-Term Research Area Exploratory Award (ULTRA-EX), “Social-Ecological System Change, Vulnerability, and the Future of a Tropical City” (\$300,000, my research \$30,000)
- 2009 • Grant award, Argentine National Government, “An Environmental Basis for Rural Planning in the Province of Cordoba, Argentina.” (\$1,000,000)
- 2009 • Travel award, Provost’s Travel Award to Attend Ecological Society of America Meeting, Albuquerque, NM, August, 2009 (\$600)
- 2008 • Grant award, Syracuse Center of Excellence: “Bridging the temporal mismatch between remotely-sensed land use changes and field-based water quality/quantity observations: Onondaga Creek, NY” (\$100,000, co-PI, my research \$900)
- 2006 • Grant award, U.S.D.A. Forest Service, “Highlands Regional Study, Connecticut, Growth Analysis and Impact Analysis” (In collaboration with Yale Global Institute of Sustainable Forestry; ESF PI, my research \$90,000)
- 2006 • Grant award, U.S.D.A. Forest Service, “Highlands Regional Study, Pennsylvania, Growth Analysis and Impact Analysis” (In collaboration with Yale Global Institute of Sustainable Forestry; ESF PI, my research \$37,000)
- 2006 • Grant award, Syracuse Center of Excellence: “An Integrated Monitoring/Modeling Framework for Assessing Human-Nature Interactions in Urbanizing Watersheds: Onondaga and Wappinger Creeks” (\$300,000, co-PI, my research \$20,538)
- 2004 • Grant award, NYS Dept of Environmental Conservation: “Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds” (\$275,000, PI, my research \$200,000)
- 2002 • Grant award, U.S.D.A. Forest Service, “Forest Fragmentation in the Northeastern United States” (\$100,000 in collaboration with Yale Global Institute of Sustainable Forestry, my research \$35,000)

OTHER EXPERIENCE

1992 – Present, President, Geographic Modeling Services with multiple contracts focused on carbon sequestration baseline modeling working with The Nature Conservancy and Winrock International in Belize, Brazil, Mexico and Bolivia; EPA technical assistance grant (TAG) consultant on Onondaga Lake Superfund site sediment toxicity and historical habitat recreation to Atlantic States Legal Foundation; Water quality modeling in the Rio Piedras Watershed, San Juan, Puerto Rico, GIS software language translation to Spanish and French for Resources Planning Associates.

PUBLICATIONS

Peer-Reviewed Journal Articles

Echeverria, C., D. Coomes, **M. Hall**, A. Newton. 2008. The application of GIS-based modeling techniques to analyze the patterns of forest loss and fragmentation between 1976 and 2020 in southern Chile, *Ecological Modeling* 212: 439-49.

Brown, S., **M. Hall**, K. Andrasko, F. Ruiz, W. Marzoli, G. Guerrero, O. Masera, A. Dushku, B. DeJong, and J. Cornell. 2007. Baselines for land-use change in the tropics: Application to avoided deforestation projects. *Adaptation and Mitigation Strategies for Global Change* 12 (6): 1001-1026.

Hall, M. H. and D. B. Fagre. 2003. Modeled Climate-Induced Glacier Change in Glacier National Park, 1850- 2100. *Bioscience* 53: 131-140 (cover article).

Wang, H. Q., C. A. S. Hall, J. D. Cornell, and **M. H. Hall**. 2002. Spatial dependence and the relationship of soil organic carbon and soil moisture in the Luquillo Experimental Forest, Puerto Rico, *Landscape Ecology*, 17 (8): 671-684.

Hall, C.A.S, and **M.H.P. Hall**. 1993. The efficiency of land and energy use in tropical economies and agriculture, *Agriculture, Ecosystems and Environment* 46: 1-30.

Peer-Reviewed Book Chapters

Hong, B., K. E. Limburg, **M. H. Hall**, and J. D. Erickson. 2007. Scenario Analysis of Economy-Ecology Interactions in the Hudson River Basin, pp. 97 – 112 in Erickson, J. D., F. Messner, and I. Ring (Eds.), *Advances in the Economics of Environmental Resources Vol. 7: Ecological Economics of Sustainable Watershed Management*. JAI press, Elsevier, Amsterdam.

Hall, M. H. A. Dushku, and S. Brown. 2007. Scale Issues in Developing a Deforestation Baseline for the Region of the Noel Kempff Mercado Climate Action Project, Bolivia, pp 280 – 302 in G. LeClerc and C. A. S. Hall (Eds.) *Making Development Work: Scientific Alternatives to Neoclassical Economic Theory*, University of New Mexico Press, Albuquerque, NM.

Hall, M.H., C.A.S. Hall and M.R. Taylor. 2000. Geographical Modeling: The Synthesis of GIS and Simulation Modeling. Pp177 – 202 in Hall, C. A. S.

(Ed.), *Quantifying Sustainable Development, The Future of Tropical Economies*, Academic Press, San Diego.

Hall, C. A. S., **M. Hall**, and B. Aguilar. 2000. A Brief Historical and Visual Introduction to Costa Rica. Pp. 19 – 42 in Hall, C. A. S. (Ed.), *Quantifying Sustainable Development, The Future of Tropical Economies*, Academic Press, San Diego.

Hall, M. H. and C. A. S. Hall. 1998. The Use of Geographic Modeling to Analyze Agricultural Energy Return on Investment, pp 315 – 326 in *Proceedings: International Workshop on Advances in Energy Studies*, Porto Venere, Italy, May 26-30, 1998.

Peer-Reviewed Reports

Anderson, N., R. Germain, and **M. H. Hall**. 2008, Exploration of the relation between parcelization, forest cover, and impervious surface. Ch. 4.1.2 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) *Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds*. Final report to the NY State Department of Environmental Conservation.
<http://www.esf.edu/es/hall/water.pdf> and
http://research.yale.edu/gisf/Catskill_report/index.htm.

Hall, M. H., R. Germain, N. Anderson and J. Caron. 2008. Comparison of land use change on non-parcelized lands to that observed on properties parcelized between 1984 and 2000 using classified satellite imagery. Ch. 4.1.4 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) *Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds*. Final report to the NY State Department of Environmental Conservation.
<http://www.esf.edu/es/hall/water.pdf> and
http://research.yale.edu/gisf/Catskill_report/index.htm.

Yavuz, M. and **M. H. Hall**. 2008. The land use and land cover classification of the Catskill /Delaware Watersheds for years 1975, 1987, 1991 and 2002, chpt. 4.1.6 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) *Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds*. Final report to the NY State Department of Environmental Conservation.
<http://www.esf.edu/es/hall/water.pdf> and
http://research.yale.edu/gisf/Catskill_report/index.htm.

Hall, M. H., N. Anderson, R. Germain, and M. Yavuz. 2008. Comparison of On-the-Ground Measurements to Remotely-Sensed Forest Cover and Impervious

Surface, chpt. 4.1.7 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Hall, M. H. 2008. Quantification of land cover transitions between four time periods (1975, 1987, 1991, 2002) and the analysis of parcelization, chpt 4.1.8 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Myers, S. J. and **M. H. Hall**. 2008. Prediction of land use change to 2022, chpt. 4.1.9 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Hall, M. H. 2008. Quantification of Post-2002 Indicators of Land Use Change and Parcelization Pressure in the NYC Watershed, chpt. 4.1.10 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Panday, P. and **M. H. Hall**. 2008. Exploration of the relation between 2002 land use and 2001-2003 water quality measurements, chpt. 4.2.1 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Panday, P. and **M. H. Hall**. 2008. Statistical analysis of the relation between the 2001-2003 median water quality analyte concentrations and landscape characteristics, chpt. 4.2.2 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of

Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Hall, M. H., S. J. Myers, and P. Panday. 2008. Derivation of export coefficients for each analyte, chpt. 4.2.4. in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

S. J. Myers and **M. H. Hall**. 2008. Statistical evaluation of importance of watershed landscape characteristics to individual analyte export, chpt. 4.2.5. in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Hall, M. H. and S. J. Myers. 2008. Calculation of future nutrient export (tons/ha/yr) based on land use projections and the statistical relation derived between export coefficients and land qualities chpt. 4.2.5 in **M. H. Hall**, R. Germain, M. Tyrrell (Eds.) Predicting Future Water Quality from Land Use Change Projections in the Catskill-Delaware Watersheds. Final report to the NY State Department of Environmental Conservation. <http://www.esf.edu/es/hall/water.pdf> and http://research.yale.edu/gisf/Catskill_report/index.htm.

Other Publications/Reports

Hall, M. H. and S. J. Myers. 2008, Chapters 7 – 10 of the Highlands Regional Study, Connecticut and Pennsylvania Updates, Forest & Agriculture Resources Analysis, Growth and Impact Analysis, Report to the USDA Forest Service, Northeastern Area State & Private Forestry. http://research.yale.edu/gisf/Highlands_report/index.htm

Tyrrell, M., **M. H. Hall**, and R. N. Sampson. 2003. Dynamic Models of Land Use Change in Northeastern USA: Developing Tools, Techniques, and Talents for Effective Conservation Action, Global Institute of Sustainable Forestry Research Paper 003, Yale University, New Haven, CT. Available for download at: <http://research.yale.edu/gisf/publications/index.html>

Hall, M. H. and G. Guerrero, O. Masera. 2003. Modeling Deforestation Baselines using GEOMOD for the Calakmul and Meseta Purépecha Regions in Mexico, Winrock International Report to the US AID, <http://www.ine.gob.mx/dgicurg/cclimatico/download/Deforestation%20baselines-Appendix%202.pdf>

Hall, M. H., D. Hughes, J. Mead, and P. Thompson. 2003. Quantification of Extent and Level of Benthic Toxicity of Onondaga Lake Sediments, Report to Atlantic States Legal Foundation, EPA Technical Assistance Grant.

Hughes, D., **M. H. Hall**, and S. Sage. 2003. Onondaga Lake's Contaminated Sediments: Characterization and Public Policy Implications. <http://www.epa.gov/superfund/resources/sediment/sedforum/hughes.pdf>

Hall, M. H. and A. Dushku. 2002. Spatial Modeling of the Averted Deforestation Baseline for the Noel Kempff Mercado Climate Action Project, Bolivia. Winrock International, EPA-supported Research, <http://www.winrock.org/general/Publications/EcoCoop.pdf>.

Hall, M. H. and J. D. Cornell. 2002. Spatial Modeling of the Averted Deforestation Baseline for the Scolel Té Region of Chiapas, Mexico, 1996 – 2030. Winrock International, EPA-supported Research, <http://www.winrock.org/what/PDF/eco/Product%206%20GEOMOD%20Chiapas.pdf>.

Hall, M. H. 2002. Spatial Modeling of the Averted Deforestation and Regeneration Baseline for the Guaraqueçaba (Itaqui) Climate Action Project, Brazil. Winrock International, EPA-supported Research, <http://www.winrock.org/what/PDF/eco/Product%204%20Geomod%20to%20GCAP.pdf>.

Brown, S., **M. H. Hall**, F. Ruiz, A. Flamenco, B. DeJong, L. Auckland, O. Masera, and D. Shoch. 2002. Land Use and Forestry Projects that Abate Greenhouse Gas Emissions: Baselines and Additionality. Winrock International, US AID-supported research. <http://www.irgltd.com/irgltd/Pubs/LAC/2002-04%20Land%20Use%20and%20Forestry%20Projects%20That%20Abate%20GHG-Mexico.pdf>

ACCEPTED and in press

Murphy, D. J. R., **M. H. Hall**, C. A. S. Hall, G. Heisler, S. Stehman, and C. Anselmi-Molina. The Relation Between Land Cover and the Urban Heat Island in Northeastern Puerto Rico, *International Journal of Climate*.

SUBMITTED and *under revision*

Yavuz, M. and **M. H. Hall**. Land Use / Land Cover Classification and Change Detection of the Catskill/Delaware Watersheds from 1975 to 2002 Using Cross-Correlation Analysis, *Photogrammetric Engineering and Remote Sensing*.

Anderson, N., R. Germain, and **M. H. Hall**, The Green Lie: Development on Private Forestland and Forest Cover Complacency Syndrome in the New York City Watershed. *Journal of Land Use Planning*.

IN PROGRESS

JOURNAL ARTICLE

Hall, M. H., S. J. Myers, P. Panday, and E. Bevilacqua. Deriving Water Quality Estimates Based on Loads Versus Concentration as a Function of Watershed Land Use

Hall M. H. and S. J. Myers. Predicting Water Quality as a Function of Land Use Land Cover in the NY City Watersheds

Hong, B., K. Limburg, **M. H. Hall**, and G. Mountrakis. An integrated monitoring/modeling framework for assessing human-nature interactions in urbanizing watersheds: Wappinger and Onondaga Creek watersheds

Varela, S., E. Carter, **M. H. Hall**, and D. Nowak. Urban green infrastructure and socio-environmental implications: Promoting environmental services, biological connectivity and human well being,

BOOK

Hall, M. H. (Ed) *Understanding Urban Ecology: An Interdisciplinary Systems Approach (in review Springer Verlag)*.

RESEARCH

Areas of Interest

Spatial Modeling – Integration of simulation modeling and GIS for studying the interaction of humans and their environment, exploring spatially distributed ecological interactions, graphic information visualization; how models can provide useful information to society.

Urban Systems – Ecology of the urban environment, socio-ecological metabolism as it relates to quality of life for both human and non-human species, environmental justice issues, and long-term urban sustainability, urban design.

Natural Resources – water supply and water quality particularly in urbanizing watersheds, climate change impacts on natural ecosystems, particularly glaciers and high alpine once glaciated ecotones.

Summary of Research Endeavors 1991 –

- 2010 – An Environmental Basis for Rural Planning in the Province of
- 2012 Cordoba, Argentina
- 2010 - Social-Ecological System Change, Vulnerability, and the Future of a
- 2012 Tropical City
- 2009-2011 Positioning Rust-Belt Cities for a Sustainable Future: A Systems Approach to Enhancing Urban Quality of Life
- 2009 Reconstruction of historical habitats and communities of species in and around Onondaga Lake, 1600 – 2010, EPA Technical Assistance Grant (TAG)-funded research, contracted by Atlantic States Legal Foundation
- 2008-2009 Bridging the temporal mismatch between remotely-sensed land use changes and field-based water quality/quantity observations: Onondaga Creek, NY
- 2006-2008 An Integrated Monitoring/Modeling Framework for Assessing Human-Nature Interactions in Urbanizing Watersheds: Onondaga and Wappinger Creeks, Co-PI, Sponsor: Syracuse Center of Excellence
- 2006-2008 Forest and Agriculture Resource Impact Analysis, Connecticut and Pennsylvania Highlands Regional Study, Joint ESF-Yale Study, M. Hall, ESF PI, Sponsor: USDA Forest Service
- 2006-2008 Growth and Impact Analysis, Connecticut and Pennsylvania Highlands Regional Study, Joint ESF-Yale project, M. Hall ESF PI, Sponsor: USDA Forest Service
- 2004-2008 Predicting Future Water Quality from Land Use Change Projections in the New York City Catskill-Delaware Watersheds. M. Hall, PI. Joint ESF-Yale School of Forestry and Environmental Studies Project, Sponsor NY State DEC, EPA SWDA
- 2002-2004 Forest Fragmentation in the Northeastern United States, Joint ESF-Yale School of Forestry Project, M. Hall, ESF P.I., Sponsor: USDA Forest Service
- 2001-2003 Spatial Modeling of the Averted Deforestation Baseline for Potential Carbon Offset Projects in the States of Chiapas, Michoacan and Campeche, Mexico. US AID funded research contract with Winrock

- Intl. Sandra Brown, PI.
- 2001-2002 Spatial Modeling of the Averted Deforestation Baseline for the Scolel Té Region of Chiapas, Mexico, 1996 – 2030, with J. D. Cornell. EPA-funded research contract with Winrock Intl. Sandra Brown, PI.
- 2001-2002 Spatial Modeling of the Averted Deforestation and Regeneration Baseline for the Guaraqueçaba (Itaqui) Climate Action Project, Brazil, for The Nature Conservancy, Arlington, VA.
- 2001-2002 Spatial Modeling of the Averted Deforestation Baseline for the Noel Kempff Mercado Climate Action Project, Bolivia. EPA-funded research contract with Winrock International. Sandra Brown, PI.
- 2003 Analysis of Chronic Toxicity to Benthic Organisms of Onondaga Lake Sediments. Funded by EPA Technical Assistance Grant to Atlantic States Legal Foundation, Syracuse, NY.
- 1999 GIS Analysis of Wetland Loss in Onondaga County to determine feasibility of creating constructed wetlands in urban Syracuse, NY. Joint ESF-Atlantic States Legal Foundation EPA-funded grant.
- 1998 Computer Visualization and GIS Data Base Query Program for Onondaga Lake Super Fund Site, EPA Technical Assistance Grant, for Atlantic States Legal Foundation, Syracuse, NY
- 1996-1997 Non-point Source Pollution Modeling, Rio Piedras Watershed, for San Juan Bay Estuary Project, San Juan, PR, Computer Visualization, for Caribbean National Forest Visitors' Center, El Portal, Puerto Rico Environmental Gradient Modeling of Commercial Species Growth and Distribution, for USDA Forest Service
- 1995 - GIS Subcontractor, for South Florida Water Management District
1996 Contract C-5348, linking GIS to Object-Oriented Hydrological Model.
- 1995 Modeling Human Carrying Capacity through Sustainable Forestry Practices, Maya Biosphere Reserve, for Project OLAFO, CATIE, Turrialba, Costa Rica
- 1993 - Computer Visualization of Glacier and Vegetation Change as a
1994 Function of Different Climate Scenarios, for Apgar Visitors Center, Glacier National Park, West Glacier, MT
- 1992 Forest cover and wildlife habitat modeling, for USDA Forest Service, Lolo National Forest, Missoula, MT
- 1991 Translation of GIS software commands into French and Spanish; for Resources Planning Associates, Inc., Ithaca, NY

TEACHING

Undergraduate Courses Taught

- 2007 - ESF 300 (formerly ERE 296), Introduction to Geographic Information Technology (2 hours lecture and 3-hour lab (3 sections)
- 2001 - EST/EFB 220, Urban Ecology (lecture, and weekly 3-hour field research)
- 1991 - EST496 Urban Ecology Seminar (1-hour weekly
- 2007 Readings/Discussion/Student Presentations; 3-day weekend field trip)

Graduate Level Courses Taught

- 1993- ENS/ EFB 519, Introduction to Geographic Modeling, *now* Spatial Ecology (2 hours lecture and 3-hour lab (1 section)
- 2001 – ENS 796, Urban Ecology Seminar (1-hour weekly
- 2007 Readings/Discussion/Student Presentations; 3 day weekend field trip)

PROFESSIONAL ACTIVITIES

Invited Talks

Local to International

- 2009 Modeling Climate-Induced Glacier Change to 2030 in Glacier National Park, Annual NY State Teaching with Spatial Technology (TwiST) Workshop, Auburn, NY (Keynote Address).
- 2008 A Comparison of Five Land Use / Land Cover Classifications in the New York City Watershed and Their Implications for Managing Future Water Quality, American Society for Photogrammetry and Remote Sensing, Central New York Region, 7th Annual Conference, Syracuse, NY, May, 2008 (1 of 3 featured speakers).
- 2007 Predicting Future Water Quality from Land Use Land Cover Change Projections in the New York City Watersheds, Forest Ecosystem Services Conference, Valdivia, Chile, November, 2007. (Day 2 Keynote Address)

- 2006 Assessing the Viability of Carbon Sequestration Projects, The Empire State Paper Research Institute Annual Meeting, Syracuse, NY, June, 2006 (Keynote Address).
- 2003 Modeling Averted Deforestation Carbon Baselines in the Calakmul using GEOMOD, US AID sponsored –meeting, SEMARNAP, Mexico City, Mexico, March, 2003.

OTHER TALKS (2007 – 2009)

National Conferences

- 2009 An Integrated Monitoring/Modeling Framework for Assessing Human-Nature Interactions in Urbanizing Watersheds: Onondaga and Wappinger Creeks (presentation of interdisciplinary team research), Ecological Society of America Annual Meeting in Albuquerque, NM, August, 2009.
- 2008 Quantifying future water quality as a function of projected land use change in the New York City drinking water catchments. American Association of Geographers Meeting, Boston, MA, April, 2008.
- 2007 Land Use Change and Nutrient Loading in the New York City Watershed: A Threat to Both Urban and Rural Sustainability, Emerging Issues at the Urban-Rural Interface Conference, Atlanta, GA, April, 2007.
- 2006 Land Use Change in the North Eastern United States: The Myth of Reforestation, International Association of Landscape Ecology, Syracuse, NY, March 2006.

Regional NE Conferences

- 2009 Prediction of Land Use Change and Nutrient Loading Consequences in the West of Hudson Watersheds to 2022, New York City Watershed Science and Technology Symposium, West Point, NY, September, 2009.
- 2008 Nutrient Loading, Agriculture, Forest Cover, and Impervious Surfaces Now and in the Future: How Long Can Filtration Be Avoided in the New York City Watershed? New York State GIS Conference, Syracuse, NY, October, 2008.
- 2008 Five estimates of future development growth in the NY City West of Hudson Watersheds and their implications for Water Quality. New York City Watershed Science and Technology Symposium, West Point, NY, September, 2008.
- 2008 Land Use Change 1975 – 2007, documented from space and public databases, presentation to Catskill Watershed Stakeholders, Catskill Center for Conservation and Development, Arkville, NY, June 2008.

- 2008 Quantifying and modeling future water quality as a function of projected land use change in the New York City drinking water catchments, final project presentation to Catskill Watershed Stakeholders, Catskill Center for Conservation and Development, Arkville, NY, June 2008.
- 2007 The Role of Impervious Surfaces in Future Nutrient Loading in the New York City West of Hudson Watersheds, New York City Watershed Science and Technology Conference, West Point, NY, October, 2007.
- 2007 An assessment of development pressure and water quality degradation in the New York City Catskill-Delaware watersheds, US Society of Ecological Economics Meeting, New York, NY, June 2007.
- 2007 Pennsylvania Highlands Growth Modeling Results, Pennsylvania Highlands Land Use Change Workshop with project partners, local developers, NGOs, govt. organizations, March, 2007, French Creek State Park, Pennsylvania
- 2007 Connecticut Highlands Growth Modeling Results, Connecticut Highlands Land Use Change Workshop with project partners, local developers, NGOs, govt. organizations, January 2007, Torrington, Connecticut.
- 2006 Building Statistical Water Quality Models for the Catskill-Delaware Watersheds as a Function of Landscape Characteristics, NY State GIS Conference, October, 2006, Lake Placid, NY. (presented by graduate student Prajjwal Panday).
- 2006 Land Use / Land Cover Classification and Change Detection for the Catskill-Delaware Watersheds from 1975 to 2002 Using Cross-Correlation Analysis, with graduate student M. Yavuz, NY State GIS Conference, October, 2006, Lake Placid, NY.
- 2006 Land Use / Land Cover Classification and Change Detection for the Catskill-Delaware Watersheds from 1975 to 2002 Using Cross-Correlation Analysis, with graduate student M. Yavuz, NY City Science and Technology Symposium, Fishkill, NY, September, 2006.
- 2006 Building Statistical Water Quality Models for the Catskill-Delaware Watersheds as a Function of Landscape Characteristics, presented by graduate student Prajjwal Panday), NY City Science and Technology Symposium, Fishkill, NY, September, 2006.
- 2006 Land Use Change in the North Eastern United States: The Myth of Reforestation, Highlands Project Start-Up, Grey Towers National Historic Site, Milford, PA, August, 2006.
- 2005 A geostatistical analysis of the extent and toxicity of contaminated sediments in Onondaga Lake, Syracuse, NY, Onondaga Lake Scientific Forum, Syracuse, NY, November 2005.

SERVICE

Editorial Service

Environmental Management (11/20/2008 and 3/29/2009)
Applied Geography (8/17/2009)
Landscape Journal (1/18/2007)
Global and Planetary Change (4/19/2007)
Environmental Modeling and Software (11/12/2008 and 6/29/2009)
Ecological Indicators (11/26/2006)

Grant Panel

McEntire-Stennis (2008) Review of annual ESF in-house forestry research grant applications.

Other Professional Service International

Teaching Spatial Ecosystem Modeling (*except where noted**) in Latin America (in Spanish)

- 1996,
- 1999, Universidad Nacional de Rio Cuarto, Rio Cuarto, Cordoba, Argentina,
- 2005, 2-week course, part of MS program in the Facultad de Veterinaria y
- 2008 Agricultura
- 2004 Centro de Investigación y de Estudios Avanzados (CINVESTAV),
Merida, Yucatan, Mexico; 2-day workshop on natural resources
assessment *
- 2003 Workshop on Land Use Change Modeling for International
Participants, The Nature Conservancy, Arlington, VA.
- 2003 Workshop
- 2002 Workshop on Land Use Change Modeling for US and International
Participants, US Department of Energy and The Nature Conservancy,
SUNY ESF, Syracuse, NY
- 2000 Centro de Investigaciones de Agricultura Tropical (CIAT), Santa Cruz
de la Sierra, Bolivia; Sponsor: Conservation Food and Health
Foundation; 2-week course
- 1997 Instituto de Investigaciones de Ecología y Media Ambiente,
Universidad Juan Misael Saracho, Tarija, Bolivia; 2-week course
- 1995 Instituto de Ecología, Jalapa, Mexico; Sponsor, USIA, 2-week course
- 1994 Universidad Nacional Autónoma Metropolitana, Xochimilco, Mexico
DF, Mexico.; Sponsor: USIA, 2-week course

College Service

College Service over the period 2001 to 2010		
Time-period	Committee	Role
2009-2010	Empire Innovations Faculty Search	Committee Member
2007 -	Center for the Urban Environment (CUE)	Director
2007 –	Faculty Governance Committee on Public Service and Outreach	Member
2006	Environmental Forest Biology Plant Ecologist Search	Committee Member
2005	Landscape Architecture Faculty Search	Committee Member
2003 – 2008	NY State GIS Conference Planning Committee (ESF Outreach)	Program Committee
2001 -	Urban Environmental Science Advisory Committee (UESAC)	Coordinator
2000 -	Council for Geospatial Modeling and Analysis (CGMA)	Active Participant
2000 -	University Scholars in Environmental Biology (UMEB) mentor	Undergraduate Mentor and Committee Member
2000 – 2004	USDA Scholars Mentoring Committee	Wrote two successful proposals of \$200,000, each to provide full 4-year support for 10 scholars and served as Undergraduate Mentor and Committee Member
2000 – 2001	ESF Urban Initiative	Coordinator of organizing activities, establishment of the urban environmental science minor, and course creation
2000	ESF Urban Initiative	Contributed to the

		University President's proposal to the SUNY Provost for funding to add an urban emphasis to the ESF curriculum and outreach (\$160,000)
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Professional Association Service

Organizing committee, -- 2006 Annual Meeting of IALE, Syracuse, NY.
ESA Urban Working Group – added ESF's Center for the Urban Environment and urban ecology minor web pages to the ESA Urban Group's webpage.
Judged student posters and talks at the ESA National meeting, August, 2009, Albuquerque, NM.

Professional Affiliations

Ecological Society of America (ESA) (2009 -)
American Association of Geographers (AAG) (2008 -)
International Association of Ecological Economics (IEE) (2007 –)
International Association of Landscape Ecology (IALE) (2006 – 2008)
American Institute of Biological Science (ABS) (2003 – 2007)