

## CURRICULUM VITAE

### John Andrew Kupfer

Department of Geography  
University of South Carolina, Columbia, SC 29208  
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#### Education:

##### *Degrees:*

1995. **Ph.D.** (Geography) The University of Iowa, Iowa City, IA. Dissertation: *Effects of Edge Vegetation on Interior Gap Successional Processes* (advisor: George Malanson).  
1991. **M.A.** (Geography) The University of Iowa, Iowa City, IA. Thesis: *Forest Structure, Composition, and Successional Dynamics in a Riparian Edge* (advisor: George Malanson).  
1988. **B.A. with highest distinction** (Geography) Valparaiso University, Valparaiso, IN.

##### *Major Fields:*

Biogeography, landscape ecology, spatial analysis, ecological modeling, forest conservation, GIScience.

#### Employment:

- Professor** (2008-present) and **Associate Professor** (2005-2008), Dept. of Geography, University of South Carolina, Columbia, SC. (Faculty Affiliate: Environment and Sustainability Program; Affiliated Researcher, USC Hazards and Vulnerability Research Institute)  
**Associate Professor** (2001-2005) and **Assistant Professor** (1999-2001), Dept. of Geography and Regional Development, University of Arizona, Tucson, AZ. (Affiliate Faculty Member: Global Change, Remote Sensing and Spatial Analysis, Arid Lands Resource Sciences, Latin American Studies)  
**Adjunct Professor** (1997-2005). Dept. of Biology, University of Memphis, Memphis, TN.  
**Assistant Professor** (1994-1999). Dept. of Geography & Planning, University of Memphis, Memphis, TN.  
**Instructor** and **Research Associate** (1993-1994). Dept. of Geography, University of Utah, Salt Lake City, UT.

#### Professional Memberships:

Association of American Geographers  
International Association for Landscape Ecology  
International Biogeography Society  
Southeast Division - Association of American Geographers

#### Honors and Awards:

2007. Henry Cowles Award for Excellence in Publication. Biogeography Specialty Group, Association of American Geographers.  
2004. Udall Center Fellow. Udall Center for Studies in Public Policy, University of Arizona, Tucson, AZ.  
2004. Summer Research Fellow. Edward J. Meeman Biological Field Station, Millington, TN.  
2003. University of Arizona Provost's General Education Teaching Award.  
1998. University of Memphis Alumni Association Distinguished Teaching Award.  
1998. University of Memphis, Student Ambassador Board. Faculty Mentor Award.  
1997. University of Memphis, College of Arts and Sciences. Early Career Research Award.  
1988-1992. University of Iowa Teaching-Research Fellowship.  
1987. National Park Service, Indiana Dunes National Lakeshore. Certificate of Merit.  
1985. Initiated into Gamma Theta Upsilon, National Geography Honor Society.

### Courses Taught:

University of South Carolina:

ENVR101: *Introduction to the Environment*  
GEOG200: *Introduction to Physical Geography*  
GEOG348: *Biogeography*  
GEOG370: *America's National Parks*  
GEOG570: *Geography of Public Land and Water Policy*  
GEOG747: *Seminar in Physical Geography: Landscape-level Effects of Hurricane Katrina*  
GEOG747: *Seminar in Physical Geography: Species Distribution Modeling*  
GEOG747: *Seminar in Physical Geography: Principles of Landscape Ecology*  
GEOG747: *Seminar in Physical Geography: Connectivity in Terrestrial and Aquatic Systems*  
GEOG847: *Adv. Sem. in Physical Geography: Habitat Fragmentation and Land Cover Change*

University of Arizona:

ECOL438/538: *Biogeography* (cross-listed as GEOG438/538 and GEOS438/538)  
NATS101: *Earth and its Environments: Introduction to Physical Geography*  
GEOG195: *Topics in Geography and Regional Development*  
GEOG303: *Field Methods in Environmental Geography*  
GEOG465/565: *Physical Aspects of Arid Lands* (cross-listed as ALRS565)  
GEOG523: *Ecological Plant Geography* (cross-listed as RNR523)  
GEOG525: *Vegetation and Ecosystem Geography* (cross-listed as RNR525)  
GEOG696C: *Seminar in Physical Geography: Landscape Ecology*  
GEOG696C: *Seminar in Physical Geography: Forest Fragmentation*  
GEOG696C: *Seminar in Physical Geography: Multivariate Analysis in Community and Landscape Ecology*

University of Memphis:

GEOG1001: *Introduction to Physical Geography: Weather and Climate*  
GEOG1002: *Introduction to Physical Geography: Landforms*  
GEOG3221: *Principles of Conservation*  
GEOG4/6251: *Environmental Threats to Human Survival*  
GEOG4/6241: *Biogeography*  
GEOG4/6531: *Field Methods*  
GEOG7241: *Graduate Seminar in Biogeography*  
GEOG7221: *Graduate Seminar in Conservation*  
BIOL7/8250: *Community and Landscape Ecology*

### Publications:

**Kupfer, J.A.** and Gao, P. Spatial patterns of ecological integrity in South Carolina watersheds. In press, *Southeastern Geographer*.

**Kupfer, J.A.** Theory in landscape ecology and its relevance to biogeography. In: *Handbook of Biogeography*, Millington, A. and Blumler, M. (eds.). Sage Press. In press.

**Kupfer, J.A.** Ecological Effects of Hurricane Katrina. In: *Mississippi Encyclopedia*. C.R. Wilson (ed.), University Press of Mississippi, Oxford, MS. In press.

Vaclavik, T.R., **Kupfer, J.A.** and Meentemeyer, R.K. 2011. Accounting for multi-scale spatial autocorrelation improves performance of invasive species distribution modelling (iSDM). *Journal of Biogeography* DOI: 10.1111/j.1365-2699.2011.02589.x

Hart, J.L. and **Kupfer, J.A.** 2011. Sapling richness and composition in canopy gaps of a southern Appalachian mixed *Quercus* forest. *Journal of the Torrey Botanical Society* 138: 207-219.

**Kupfer, J. A.** Meitzen, K. M., and A. R. Pipkin. 2010. Controls of early post-logging successional pathways in a southern floodplain forest. *Forest Ecology and Management*. <http://dx.doi.org/10.1016/j.foreco.2010.01.050>.

- Kupfer, J.A.** and Franklin, S.B. 2009. Linking spatial pattern and ecological responses in human-modified landscapes: The effects of deforestation and forest fragmentation on biodiversity. *Geography Compass* 3: 1331-1355. doi: 0.1111/j.1749-8198.2009.00245.x
- Franklin, S.B., **Kupfer, J.A.**, Pezeshki, S.R., Gentry, R. and Smith, R.D. 2009. Complex effects of channelization and levee construction on west Tennessee floodplain forest function. *Wetlands* 29: 451-464.
- Franklin, S.B., **Kupfer, J.A.**, Pezeshki, S.R., Gentry, R. and Smith, R.D. 2009. Efficacy of the hydrogeomorphic model: A case study from western Tennessee. *Ecological Indicators* 9: 267-283.
- Cavender- Bares, K., R. O'Malley, N. Christensen, G.T. Bancroft, S.S. Bell, R. Brown, C. Frissell, J. Gross, S. Haines, D. Heagerty, A. Janetos, K.B. Jones, A.J. Jordan, **J.A. Kupfer**, J.A. LaGro, Jr., K. Riitters, G.J. Roloff, E. Thompson, Jr. 2008. *Landscape Pattern Indicators for the Nation*. H. John Heinz III Center for Science, Economics and the Environment, Washington, DC. 108 pp.
- Kupfer, J.A.**, Glenn, D. and Sackett, J. 2008. Patterns and controls of hurricane-caused forest damage: A landscape-scale analysis of treefall direction following Hurricane Katrina. *Professional Geographer* 60: 478-494.
- Farris, C.A., Margolis, E.Q. and **Kupfer, J.A.** 2008. Spatial characteristics of fire severity in relation to fire growth in a Rocky Mountain subalpine forest. In: *Proceedings of the 2002 Fire Conference: Managing Fire and Fuels in the Remaining Wildlands and Open Spaces of the Southwestern United States*. M. Narog (tech. coord.) Gen. Tech. Rep. PSW-GTR-189, Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.
- Kupfer, J.A.**, Myers, A.T., McLane, S.E. and Melton, G. 2008. Factors associated with forest damage in a South Mississippi landscape following Hurricane Katrina. *Ecosystems* 11:45-60.
- Kupfer, J.A.**, M.A. Roberts, S. Walker, J.L. Pinckney, J.E. Moore, J.M. Quattro and S.B. Franklin. 2007. Ecological impacts and coastal ecosystem resiliency following Hurricane Katrina. *Southeastern Biology* 54: 407-418.
- Kupfer, J.A.** and Farris, C. 2007. Incorporating spatial non-stationarity of regression coefficients into predictive vegetation models. *Landscape Ecology* 22: 837-852.
- Malanson, G.P., Wang, Q. and **Kupfer, J.A.** 2007. Ecological processes and spatial patterns before, during and after simulated deforestation. *Ecological Modelling* 202: 397-409.
- Huang, C., Geiger, E. and **Kupfer, J.A.** 2006. Sensitivity of landscape metrics to classification scheme. *International Journal of Remote Sensing* 27: 2927-2948.
- Kupfer, J.A.** 2006. National assessments of forest fragmentation patterns in the U.S. *Global Environmental Change – Human and Policy Dimensions* 16: 73-82.
- Kupfer, J.A.**, Malanson, G.P. and Franklin, S.B. 2006. Not seeing the ocean for the islands: The influence of matrix-based processes on forest fragmentation effects. *Global Ecology and Biogeography* 15: 8-20.
- Kipfmuller, K.F. and **Kupfer, J.A.** 2005. Complexity of successional pathways in subalpine forests of the Selway-Bitterroot Wilderness Area, USA. *Annals of the Association of American Geographers* 95: 495-510.
- Kupfer, J.A.**, Balmat, J. and Smith, J.L. 2005. Shifts in the potential distribution of sky island plant communities in response to climate change. In: *Biodiversity and Management of the Madrean Archipelago II: Connecting Mountain Islands and Desert Seas*. Rocky Mountain Research Station, U.S.D.A. Forest Service, Logan, UT., pp. 485-490.
- Kupfer, J.A.** and Emerson, C.W. 2005. Remote sensing. In: *Encyclopedia of Social Measurement, Vol. 3*. Kempf-Leonard, K. (ed.). Academic Press, San Diego, pp. 377-383.
- Kupfer, J.A.** and Miller, J.D. 2005. Wildfire effects and post-fire responses of an invasive mesquite population: the interactive importance of grazing and non-native herbaceous species invasion. *Journal of Biogeography* 32: 453-466.

- Kupfer, J.A.**, Webbeking, A.L., and Franklin, S.B. 2004. The effects of landscape structure on plant regeneration patterns and soil characteristics in shifting cultivation fields near Indian Church, Belize. *Agriculture, Ecosystems and Environment* 103: 509–518.
- Franklin, S.B., **Kupfer, J.A.**, Grubaugh, J.W. and Kennedy, M.L. 2004. A multi-taxa analysis of biotic diversity in Natchez Trace State Forest, western Tennessee. *Environmental Monitoring and Assessment* 93: 31-54.
- Franklin, S.B. and **Kupfer, J.A.** 2004. Forest communities of Natchez Trace State Forest, western Tennessee Coastal Plain. *Castanea* 69: 15-29.
- Kupfer, J.A.** and Malanson, G.P. 2004. The biodiversity crisis. In: *WorldMinds: Geographical Perspectives on 100 Problems*. Warf, B., Hansen, K, and Janelle, D. (eds.). Kluwer Academic Publishers, Dordrecht, pp. 273-277.
- Kupfer, J.A.** and Runkle, J.R. 2003. Edge-mediated effects on stand dynamic processes in forest interiors: a coupled field and simulation approach. *Oikos* 101: 135-146.
- Franklin, S.B., **Kupfer, J.A.**, Pezeshki, R., Scheff, T., Hanson R., and Gentry, R. 2001. A comparison of hydrology and vegetation between a channelized stream and a non-channelized stream in Western Tennessee. *Physical Geography* 22:254-274.
- Allen, T.R. and **Kupfer, J.A.** 2001. Spectral response and spatial pattern of Fraser fir mortality and regeneration, Great Smoky Mountains. *Plant Ecology* 156: 59-74.
- Franklin, S.B., **Kupfer, J.A.**, Pezeshki, S.R, van Gestel, N. and Gentry, R.W. 2001. Channelization effects on floodplain functions in western Tennessee. In: *River Basin Management*. Falconer, R.A. and Blain, W.R. (eds.). WIT Press, Southampton, Boston, pp. 189-201.
- Allen, T.R. and **Kupfer, J.A.** 2000. Application of spherical statistics to change vector analysis of Landsat data: Southern Appalachian spruce-fir forests. *Remote Sensing of Environment* 74: 481-492.
- Kupfer, J.A.** and Franklin, S.B. 2000. Evaluation of an ecological land type classification, Natchez Trace State Forest, West Tennessee, USA. *Landscape and Urban Planning* 49:179-190.
- Anderson, S.C., **Kupfer, J.A.**, Wilson, R.R. and Cooper, R.J. 2000. Estimating crown area removed by selection cutting: A linked regression-GIS approach based on stump diameters. *Forest Ecology and Management* 137: 171-177.
- Kupfer, J.A.** and Kirsch, S.W. 1998. Heterogeneity of forest characteristics in primary and secondary forest stands on the Third Chickasaw Loess Bluff, Tennessee. *Physical Geography* 19: 35-54.
- Kupfer, J.A.**, Malanson, G.P. and Runkle, J.R. 1997. Factors influencing species composition in canopy gaps: The importance of edge proximity in Hueston Woods, Ohio. *Professional Geographer* 49: 165-178.
- Kupfer, J.A.** and Cairns, D.M. 1996. The suitability of montane ecotones as indicators of global climatic change. *Progress in Physical Geography* 20: 253-272.
- Kupfer, J.A.** and Runkle, J.R. 1996. Early gap successional pathways in a beech-maple forest preserve: patterns and determinants. *Journal of Vegetation Science* 7: 247-256.
- Coleman, D.S. and **Kupfer, J.A.** 1996. Riparian water quality buffers: estimates of effectiveness and minimum width in an agricultural landscape, western Tennessee. *Southeastern Geographer* 36: 113-127.
- Kupfer, J.A.** 1996. Patterns and determinants of edge vegetation of a Midwestern forest preserve. *Physical Geography* 17: 62-76.
- Coleman, D.S. and **Kupfer, J.A.** 1996. Estimates of effectiveness and minimum width of riparian water quality buffers in an agricultural landscape, western Tennessee. In: *Building the Community Through GIS: Proceedings of a Symposium*. Outlaw, J. and Brunson, R. (eds.). Groundwater Institute, University of Memphis, Memphis, TN., pp. 21-34.
- Kupfer, J.A.** 1995. Landscape ecology and biogeography. *Progress in Physical Geography* 19:18-34.
- Kupfer, J.A.** 1995. Review of *Faith in a Seed* by Henry David Thoreau. *Professional Geographer* 47: 232-234. (Book Review)

- Kupfer, J.A.** and Malanson, G.P. 1993. Observed and modeled directional change in riparian forest composition at a cutbank edge. *Landscape Ecology* 8: 185-199.
- Malanson, G.P. and **Kupfer, J.A.** 1993. Simulated fate of leaf litter and large woody debris at a riparian cutbank. *Canadian Journal of Forest Research* 23: 582-590.
- Kupfer, J.A.** and Malanson, G.P. 1993. Structure and composition of a riparian forest edge. *Physical Geography* 14: 154-170.

*White Papers and Reports:*

- Wilde, S.B., Haynie, R.S., Herrin, J.A., Hook, M.W., **Kupfer, J.A.** and Netherlan, M.D. 2011. *Environmental factors influencing blooms of a neurotoxic Stigonematalan cyanobacterium responsible for Avian Vacuolar Myelinopathy*. Final project report: US Army Corps of Engineers Aquatic Nuisance Species Research Program. 24pp.
- Kupfer, J.A.**, Meitzen, K., and Graf, W.L. 2009. *Forest Recovery and Hydrologic Modeling on New Park Lands*. Final Report for the National Park Service Piedmont-South Atlantic Cooperative Ecosystem Studies Unit. 71 pp.
- Balmat, J. and **Kupfer, J.A.** 2004. *Assessment of timber resources and logging history of the Valles Caldera National Preserve*. Final Report to the Valles Caldera Trust, Los Alamos, NM. 88 pp.
- Kupfer, J.A.**, Malanson, G.P. and Franklin, S.B. 2004. *Identifying the biodiversity research needs related to forest fragmentation*. National Commission for Science on Sustainable Forestry, Washington, DC. 218 pp.
- Franklin, S.B., **Kupfer, J.A.**, Pezeshki, R., and Gentry, R. 2002. *Forest communities and hydrology of western Tennessee low-gradient riverine wetlands*. Final Report to the U.S. Army Corps of Engineers, Waterways Experiment Station. 64 pp.
- Franklin, S.B., **Kupfer, J.A.**, Pezeshki, R., and Gentry, R. 1999. *Forest communities and hydrology of Stokes Creek prior to dechannelization*. Final Report to the Tennessee Department of Environment and Conservation. 56 pp.

*Other Publications:*

- National Commission on Science for Sustainable Forestry. 2007. *Conserving Biodiversity through Sustainable Forestry: A Guide to Applying NCSSF Research*. National Commission on Science for Sustainable Forestry, Washington, DC. (chapter contributor)
- Kupfer, J.A.** 2006. Effects of Hurricane Katrina on southern Mississippi coastal forests and projected post-hurricane responses: A multi-scale evaluation. In: *Coastal Resiliency Information Systems Initiative for the Southeast (CRISIS): Showcasing University of South Carolina Hurricane Katrina Research Projects*. Univ. of South Carolina, Columbia, SC, pp. 24-25.
- Kupfer, J.A.** 2005. President's Column: Confessions of a Generalist Living in a Specialists' World. *The Biogeographer* (online, *Newsletter of the Biogeography Specialty Group of the Association of American Geographers*): [http://www.departments.bucknell.edu/geography/The\\_Biogeographer/5-2\\_2005\\_Spring.html](http://www.departments.bucknell.edu/geography/The_Biogeographer/5-2_2005_Spring.html)
- Kupfer, J.A.** 2004. President's Column: The Diversification of U.S. Doctoral Programs in Biogeography. *The Biogeographer* (online, *Newsletter of the Biogeography Specialty Group of the Association of American Geographers*): [http://www.departments.bucknell.edu/geography/The\\_Biogeographer/5-1\\_2004\\_Fall.html](http://www.departments.bucknell.edu/geography/The_Biogeographer/5-1_2004_Fall.html)
- Kupfer, J.A.** 2003. President's Column: Directions of the BSG and Biogeography in America. *The Biogeographer* (online, *Newsletter of the Biogeography Specialty Group of the Association of American Geographers*): [http://www.departments.bucknell.edu/geography/The\\_Biogeographer/4-1\\_2003\\_Fall.html](http://www.departments.bucknell.edu/geography/The_Biogeographer/4-1_2003_Fall.html)

## Grants and Contracts:

### *External Grants and Funding Received:*

- US Department of the Interior, National Park Service. 2010-2013. Climate change-induced changes in flow regime, floodplain inundation and species habitats at Congaree National Park. (**J. Kupfer**, D. Tufford, G. Carbone and K. Meitzen). \$310,614.
- US Department of the Interior, National Park Service. 2008-2010. Fire-environment interactions in Great Basin shrub-steppe communities across an ecotonal gradient in Lava Beds National Monument. (C. Farris and **J. Kupfer**). \$40,000.
- US Department of the Interior, National Park Service. 2006-2007. Forest recovery and hydrologic modeling on new park lands at Congaree National Park. (**J. Kupfer** and W.L. Graf). \$42,280.
- Arizona Technology and Research Initiative Fund (TRIF). 2004-2005. Patterns of hydrologic connectivity on a desert riparian landscape. (E. Glenn, **J. Kupfer**, D. Meko and K. Morino). \$58,000
- US Department of the Interior, National Park Service. 2004. Vegetation History along the Western Margin of the Sonoran Desert, SE California, U.S. and N. Baja California, Mexico. (J. Betancourt and **J. Kupfer**). \$10,000.
- US Department of the Interior, National Park Service.. 2004. Historical Land Use Maps of the Upper Santa Cruz River. (**J. Kupfer**). \$2,400.
- National Commission on Science for Sustainable Forestry. 2002-2003. Identifying Biodiversity Research Needs Related to Forest Fragmentation (**J. Kupfer**, G. Malanson, and S. Franklin). \$65,000.
- Valles Caldera Trust. 2002-2004. Inventory and Monitoring at Valles Caldera National Preserve: Forest stand attributes and disturbance history. (**J. Kupfer**). \$38,900.
- International Arid Lands Consortium. 2001-2003. Restoration of semi-desert grasslands invaded by exotic lovegrasses. (**J. Kupfer**). \$72,160.
- U.S. Army Engineers, Waterways Experiment Station, Environmental Laboratory. 1999-2001. Floodplain dynamics of West Tennessee rivers and streams -- Phase II (S.B. Franklin, **J. Kupfer**, R. Pezeshki, and R. Gentry). \$94,000.
- Tennessee Valley Authority. 1999-2000. Restoration of a Shortleaf Pine forest, Land Between the Lakes, Tennessee (S.B. Franklin and **J. Kupfer**). \$30,000.
- National Science Foundation, Directorate for Social and Behavioral Sciences. 1998-2000. Coupling field, remote sensing and modeling techniques to examine processes at the deciduous-coniferous ecotone in Great Smoky Mountains National Park (**J. Kupfer**, D.M. Cairns and T.R. Allen). \$50,000.
- U.S. Army Engineers, Waterways Experiment Station, Environmental Laboratory. 1998-1999. Floodplain dynamics of West Tennessee rivers and streams -- Phase I (S.B. Franklin, **J. Kupfer**, R. Pezeshki, and J. Smith). \$65,000.
- Tennessee Department of Environment and Conservation, Natural Heritage Division. 1997-1998. An assessment of biotic diversity at Natchez Trace State Forest (S.B. Franklin, **J. Kupfer**, J. Grubaugh, M. Kennedy and D. Fung). \$20,000.
- Tennessee Department of Environment and Conservation. 1997-1998. Forest communities and hydrology of Stokes Creek prior to dechannelization. (S.B. Franklin, **J. Kupfer**, R. Pezeshki, and J.W. Smith). \$10,464.
- Association of American Geographers, Biogeography Specialty Group, Dissertation Enhancement Grant. 1992. Effects of Edge Vegetation on Interior Gap Successional Processes. (**J. Kupfer**) \$500.

### *Internal Grants and Funding Received:*

- Social Sciences Grant Program, Office of the Provost, Univ. of South Carolina. 2010-2011. Connecting livelihoods to the biophysical impacts of forest incursion. (E. Carr and **J.A. Kupfer**). \$19,962.

- Research Assistantships Program. USC Graduate School. 2008-2009. Patterns of ecological integrity in Southeastern riparian systems. (**J.A. Kupfer**). \$6,000.
- Research and Productive Scholarship Program, Office of Research, Univ. of South Carolina. 2006-2007. Forest regeneration patterns following logging of bottomland hardwood forests in Congaree National Park. (**J.A. Kupfer** and J. Grego) \$18,000.
- Coastal Resiliency Information Systems Initiative for the Southeast (CRISIS): Rapid Response Research on Social and Environmental Dimensions of Hurricane Katrina, Office of Research, Univ. of South Carolina. 2005-2006. Effects of Hurricane Katrina on southern Mississippi coastal forests and projected post-hurricane responses: A multi-scale evaluation. (**J.A. Kupfer**) \$25,000.
- Univ. of Arizona, Social and Behavioral Sciences Research Institute, GIS Assistance Grant. 2004. Perceptual boundaries between human and wildlife spaces and their changes due to drought, Tucson, AZ. (**J.A. Kupfer** and S.L. Simpson) \$2500.
- Univ. of Arizona, Social and Behavioral Sciences Research Institute, Faculty Summer Research Grant Development Award. 2000. \$4000.
- Univ. of Arizona, Social and Behavioral Sciences Research Institute, Mini-Grant Program. 1999. Insect-induced changes in spruce-fir ecosystem patterns at Great Smoky Mountains National Park: An Application of Spherical Statistics to Change Vector Analysis. \$750.
- Univ. of Memphis, Faculty Research Grant. 1999. Spatio-temporal dynamics of *milpa* recovery near the Lamanai Archeological Reserve, Belize (S.B. Franklin and **J. Kupfer**). \$4,000.
- Univ. of Memphis, Graduate College and College of Arts Sciences. 1999. Spatio-temporal dynamics of *milpa* recovery near the Lamanai Archeological Reserve, Belize (S.B. Franklin and **J. Kupfer**). \$1,500.
- Univ. of Memphis, Vice-President for Research. 1998. Funding for co-sponsorship of symposium, *Ecology and Management of Bottomland Hardwood Ecosystems: The state of our understanding*. (**J. Kupfer**, K. Maier, J. Grubaugh, and S. Franklin). \$500.
- Univ. of Memphis, Faculty Research Grant. 1995. Modeling the response of a mid-South forest community to projected global warming (**J. Kupfer** and S.W. Kirsch). \$4,000.

*Undergraduate Research Grants:*

- Magellan Scholars Program, Office of Undergraduate Research, Univ. of South Carolina. 2011-2012. Detecting Floodplain Microtopography and Sediment Flux Using Terrestrial Laser Scanning. (**J.A. Kupfer** and S. Bryant). \$500.
- Magellan Scholars Program, Office of Undergraduate Research, Univ. of South Carolina. 2009. Environmental controls of steppe-forest transitions in Lava Beds National Monument. (**J.A. Kupfer** and I. Johnson). \$3,000.
- Magellan Voyagers Program, Office of Undergraduate Research, Univ. of South Carolina. 2007. The role of soils in shaping the course of secondary succession on logged areas at Congaree National Park. (**J.A. Kupfer** and A. Pipkin). \$500.
- Magellan Scholars Program, Office of Undergraduate Research, Univ. of South Carolina. 2007-2008. The role of soils in shaping the course of secondary succession on logged areas at Congaree National Park. (**J.A. Kupfer** and A. Pipkin). \$3,000.

**Presentations:**

*Conferences: (presenter in bold)*

- 2011:** Accounting for multi-scale spatial autocorrelation improves performance of invasive species distribution modeling (iSDM). (**T. Vaclavik**, J. Kupfer, and R. Meentemeyer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Portland, OR.
- Modeling vegetation cover to predict greater sage-grouse nesting habitat in Lava Beds National Monument. (**W. Stangler** and J. Kupfer). Annual Symposium of the U.S.

- Regional Association of the International Association for Landscape Ecology, Portland, OR.
- Post-fire successional patterns and dynamics across the grassland-woodland ecotone in a Great Basin shrub-steppe landscape mosaic. (**J. Roberson**, J. Kupfer and C. Farris). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Portland, OR.
- Accounting for multi-scale spatial autocorrelation improves performance of invasive species distribution modeling (iSDM). (**T. Vaclavik**, J. Kupfer, and R. Meentemeyer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Portland, OR.
- 2010:** Investigations of the seasonality of avian vacuolar myelinopathy on J. Strom Thurmond Lake, a Monomictic Reservoir. (**J.A. Herrin**, M.W. Hook, J.A. Kupfer, S.B. Wilde, R.S. Haynie and S.M. Robertson). Annual Meeting of the Aquatic Plant Management Society, Bonita Springs, FL.
- Regionalization of national forest fragmentation patterns using contiguity constrained clustering and partitioning. (**J.A. Kupfer**, D. Guo and P. Gao). Annual Meeting of the Assoc. of American Geographers, Washington, DC.
- The role of fire-environment interactions in controlling vegetation patterns in a Great Basin shrub-steppe ecosystem. (**J.L. Roberson**, J.A. Kupfer and C.A. Farris). Annual Meeting of the Assoc. of American Geographers, Washington, DC.
- Regionalization of national forest fragmentation patterns using contiguity constrained clustering and partitioning. (**J.A. Kupfer**, D. Guo and P. Gao). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Athens, GA.
- 2009:** Advances in species distribution modeling: Applications in applied biogeographic research (**J.A. Kupfer**), Annual Meeting, Southeast Division of the AAG, Greensboro, NC.
- Hydrogeomorphic controls of early post-logging successional pathways in a southern floodplain forest (**J.A. Kupfer**, K. Meitzen, and A.R. Pipkin). Binghamton Geomorphology Symposium, Blacksburg, VA. (refereed poster).
- Hydrogeomorphic controls of early post-logging successional pathways in a southern floodplain forest (**J.A. Kupfer**). Piedmont-South Atlantic Coast CESU Annual Business Meeting, Orange Beach, AL. (invited presentation).
- Local contingencies and hydrogeomorphic responses to channel modifications in West Tennessee floodplain ecosystems (**J.A. Kupfer** and S.B. Franklin), Annual Meeting of the Assoc. of American Geographers, Las Vegas, NV.
- A flexible indicator-based approach to assessing the ecological integrity of South Carolina watersheds. (**P. Gao** and J.A. Kupfer), Annual Meeting of the Assoc. of American Geographers, Las Vegas, NV.
- 2008:** Assessing watershed integrity with a flexible indicator-based approach. (**J.A. Kupfer** and G. Peng). Annual Meeting, Southeast Division of the AAG, Greensboro, NC.
- A flexible indicator-based approach to assessing the ecological integrity of South Carolina watersheds. (**J.A. Kupfer** and G. Peng). South Carolina Water Resources Conference, Charleston, SC. (refereed)
- Post-disturbance regeneration in southeastern floodplain forests: Implications of environmental variability on successional pathways. (**J.A. Kupfer**, K. Meitzen, A. Pipkin). Annual Meeting of the Assoc. of American Geographers, Boston, MA.
- Climate change and species distribution modeling in the eastern United States. (**S. Dunham** and J.A. Kupfer) Annual Meeting of the Assoc. of American Geographers, Boston, MA.

- Bird species prediction modeling: A comparison of multiple modeling techniques at Francis Marion National Forest in South Carolina. (**J. Roberson** and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, Boston, MA.
- Early post-logging succession on the Bates Fork Tract, Congaree National Park. (**J.A. Kupfer**). Congaree National Park Science Symposium, Columbia, SC. (invited speaker)
- Complex effects of channelization and leveeing on Western Tennessee floodplain forest structure, composition and function. (**Franklin, S.B.**, Kupfer, J.A., Pezeshki, S.R., Gentry, R. and Smith, R.D. Floodplain Ecosystem Symposium: The Restoration and Management of Floodplain Ecosystems of the Southeast. Little Rock, AR. (refereed)
- 2007:** Coastal forest vulnerability and responses to hurricane damage: Lessons from Katrina (**J.A. Kupfer**). USGS Northern Gulf of Mexico Land Cover Characterization Workshop, November 14-16th, New Orleans, LA. (invited)
- Patterns and controls of forest damage caused by Hurricane Katrina in a Southern Mississippi landscape. (**J.A. Kupfer**). Annual Meeting, Southeastern Division of the Association of American Geographers. Charleston, SC, November 18 – 20.
- The roles of elevation, soils and microtopography in shaping the course of secondary succession on logged areas acquired by Congaree National Park (**A.L. Pipkin** and J.A. Kupfer). Annual Meeting, Southeastern Division of the Association of American Geographers. Charleston, SC, November 18 - 20.
- Early successional patterns on recently logged areas at Congaree National Park. (**J. Roberson, J.A. Kupfer, A.L. Pipkin** and K. Meitzen). Annual Meeting of the Assoc. of American Geographers, San Francisco, CA.
- Patterns and controls of forest damage following Hurricane Katrina in DeSoto National Forest, Mississippi. (**J.A. Kupfer**). Annual Meeting of the Association of Southeastern Biologists, Columbia, SC. (invited symposium speaker)
- Effects of Hurricane Katrina on Southern Mississippi Coastal Forest soil and water chemistry. (**J.E. Moore, J.A. Kupfer, S. Pierce** and S.B. Franklin). Annual Meeting of the Association of Southeastern Biologists, Columbia, SC. (invited speaker)
- 2006:** Analysis of blowdown directionality from Hurricane Katrina across Southeastern Mississippi. (**D.A. Glenn, J.P. Sackett** and J.A. Kupfer). Annual Meeting, Southeastern Division of the Association of American Geographers. Morgantown, WV.
- Implementation of regional and national landscape pattern and fragmentation indicators in the U.S. (**J.A. Kupfer**). Patterns and Processes in Forest Landscapes: Consequences of Human Management, International Union of Forest Research Organizations, Locorotondo, Italy.
- Incorporating spatial non-stationarity into predictive vegetation modeling: The use of geographically-weighted regression to model montane Ponderosa pine abundance (**J.A. Kupfer** and C. Farris). Annual Meeting of the Assoc. of American Geographers, Chicago, IL.
- 2005:** The *State of the Nation's Ecosystems*: The indicator landscape (K. Cavender-Bares, R. O'Malley, N. Christensen, G.T. Bancroft, S.S. Bell, R. Brown, C. Frissell, J. Gross, S. Haines, D. Heagerty, A. Janetos, K.B. Jones, A.J. Jordan, J. Kupfer, J.A. LaGro, Jr., K. Riitters, G.J. Roloff, E. Thompson, Jr.). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Syracuse, NY.
- Forest fragmentation and landscape representation: The influence of matrix-based processes on forest fragmentation effects (J.A. Kupfer, G.P. Malanson, S.B. Franklin) Annual Meeting of the Assoc. of American Geographers, Denver, CO.
- Unifying themes and issues in AAG biogeography. Annual Meeting of the Assoc. of American Geographers, Denver, CO. (invited panelist)

- Composition change and recovery on native and non-native grasslands following the 2002 Ryan Fire (K.J. Lombardo, J.A. Kupfer) Annual Meeting of the Assoc. of American Geographers, Denver, CO.
- Ecological responses to climate change and variability in the Southwest: Issues of temporal and spatial scale (J. Kupfer, A. Comrie, M. Crimmins) Climate Variability and Ecosystem Impacts in Southwest Forests and Woodlands Workshop, Sedona, AZ. (*invited speaker*)
- 2004:** Sensitivity of landscape metrics to number of land cover classes (C. Huang, E. Geiger, J. Kupfer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Las Vegas, NV.
- Landscape transformations: Changes in biodiversity and ecosystem functioning following the Ryan Fire of 2002 (K.J. Lombardo and J.A. Kupfer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Las Vegas, NV.
- Scale, pattern and controls of montane ecotones (J.A. Kupfer and J.T. Jones). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Las Vegas, NV.
- Landscape transformations: Changes in biodiversity and ecosystem functioning following the Ryan Fire of 2002 (K.J. Lombardo and J.A. Kupfer). Biodiversity and Management of the Madrean Archipelago II: Connecting Mountain Islands and Desert Seas, Tucson, AZ.
- Projected responses of vegetation pattern and ecotone location to climatic change in an Arizona sky island ecosystem (J.A. Kupfer). Biodiversity and Management of the Madrean Archipelago II: Connecting Mountain Islands and Desert Seas, Tucson, AZ.
- Scale, pattern and controls of montane ecotones in Saguaro National Park, Arizona (J.A. Kupfer and J.T. Jones). Annual Meeting of the Assoc. of American Geographers, Philadelphia, PA.
- 2003:** Community vegetation pattern analysis in Valles Caldera National Preserve, New Mexico (J. Balmat and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, New Orleans, LA.
- The interactive effects of fire and invasive species on an Arizona semi-desert grassland (K. Lombardo and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, New Orleans, LA.
- Not seeing the ocean for the islands: The need for new concepts and approaches to the study of forest fragmentation (J.A. Kupfer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Banff, AB
- 2002:** Landscape structure effects on vegetation recovery and soil characteristics in shifting cultivation fields (J.A. Kupfer, S.B. Franklin and A.L. Webbeking). Annual Meeting of the Assoc. of American Geographers, Los Angeles, CA.
- Predicting montane community distribution using discriminant analysis for southern Arizona. (J.L. Smith and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, Los Angeles, CA.
- Influence of topography and fire disturbance on vegetation patterns and ecotone position in the Rincon Mountains, Arizona. (J.T. Jones and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, Los Angeles, CA.
- Montane ecotone hierarchies in Arizona sky islands. (J.A. Kupfer, J.T. Jones and J.L. Smith). Annual Meeting of the Ecological Society of America, Tucson, AZ.
- Landscape structure effects on nutrient pools of recovering milpas in Belize, C.A. (S.B. Franklin and J.A. Kupfer). Annual Meeting of the Ecological Society of America, Tucson, AZ.

- 2001:** Evaluation of an ecological land type classification system, Natchez Trace State Forest, Western Tennessee, USA. (J.A. Kupfer and S.B. Franklin). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Tempe, AZ.
- The effects of landscape structure on plant regeneration patterns in shifting cultivation fields near Indian Church, Belize. (S.B. Franklin, A.L. Webbeking and J.A. Kupfer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Tempe, AZ.
- Scales of pattern and process in Fraser fir forest disturbance and regeneration, Great Smoky Mountains, USA. (T.R. Allen and J.A. Kupfer). Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology, Tempe, AZ.
- Channelization effects on floodplain nutrient pools in western Tennessee. (S.B. Franklin, J.A. Kupfer, S.R. Pezeshki, and N. van Gestel). Annual Meeting of the Association of Southeastern Biologists, New Orleans, LA.
- Landform-vegetation interactions in the mortality and regeneration of Fraser fir forests, Great Smoky Mountains National Park. (T.R. Allen and J.A. Kupfer). 2001 Binghamton International Geomorphology Symposium: Mountain Geomorphology – Integrating Earth Systems. Chapel Hill, NC.
- 2000:** Application of spherical geometry to change vector analysis of Landsat data. (T.R. Allen and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, Pittsburgh, PA.
- Implementation and evaluation of an ecological land type classification. (J.A. Kupfer and S.B. Franklin). Annual Meeting of the Assoc. of American Geographers, Pittsburgh, PA.
- Regeneration of slash-and-burn agricultural fields in relation to landscape structure in the Orange Walk District, Belize. (A.L. Webbeking, J.A. Kupfer and S.B. Franklin). Annual Meeting of the Ecological Society of America, Snowbird, UT.
- 1999:** The impact of forest ecotones on successional trajectories in Hueston Woods. (J.A. Kupfer). Quadrennial World Congress of the International Association for Landscape Ecology, Snowmass Village, CO.
- A comparison of plant communities along channelized and non-channelized streams in West Tennessee. (R. Hansen, S.B. Franklin and J.A. Kupfer) Tennessee Academy of Sciences West Tennessee Scholastic Meeting, Memphis, TN.
- Stream restoration demonstration project of Stokes Creek, Crockett County, Tennessee. (L. Turrini-Smith, E.M. Williams, S.B. Franklin, J.A. Kupfer and others). Ecology and Management of Bottomland Hardwood Ecosystems: The state of our understanding. Memphis, TN.
- Groundwater response to flooding of Stokes Creek prior to dechannelization. (T.L. Scheff, J.A. Kupfer and Franklin, S.B.) Tennessee Academy of Sciences West Tennessee Scholastic Meeting, Memphis, TN.
- 1998:** The impact of forest ecotones on successional trajectories in Hueston Woods. (J.A. Kupfer and J.R. Runkle). Annual Meeting of the Assoc. of American Geographers, Boston, MA.
- 1997:** Structural characteristics and temporal dynamics of Shelby Forest, West Tennessee. (J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, Fort Worth, TX.
- 1996:** Landscape ecological aspects of gap succession in a beech-maple preserve. (J.A. Kupfer). Annual Meeting of the Association of American Geographers, Charlotte, NC.
- 1995:** Early gap successional pathways in Hueston Woods Nature Preserve, Ohio: Patterns and determinants. (J.A. Kupfer, J.R. Runkle and G.P. Malanson). Annual Meeting of the Association of American Geographers, Chicago, IL.

- 1994:** The effect of edge vegetation on interior gap-successional processes. (J.A. Kupfer, J.R. Runkle and G.P. Malanson). Annual Meeting of the Association of American Geographers, San Francisco, CA.
- 1993:** Forest-stream ecotones: Structure, composition, and carbon dynamics along midwestern cutbank edges. (J.A. Kupfer and G.P. Malanson). Annual Meeting of the Association of American Geographers, Atlanta, GA.
- 1992:** The effect of edge vegetation on interior gap-successional processes. (J.A. Kupfer). Annual Meeting of the Association of American Geographers, Great Plains/Rocky Mountains Division, Manhattan, KS  
Beaver, treefall, and cutbank erosion in midwestern rivers. (D.R. Butler, G.P. Malanson and J.A. Kupfer). Annual Meeting of the Assoc. of American Geographers, San Diego, CA.
- 1991:** Successional processes in a naturally occurring forest edge. (J.A. Kupfer). Annual Meeting of the Association of American Geographers, Toronto, Canada.  
Vegetational structure, composition, and successional dynamics of a riparian forest edge. (J.A. Kupfer and G.P. Malanson). Quadrennial World Congress of the International Association for Landscape Ecology, Ottawa, Canada

*Departmental Colloquia/Seminars: (invited)*

- Linking floodplain inundation modeling to ecosystem patterns and processes in southern floodplain forests. Dept of Geography, East Carolina University. 2010.
- Putting the 'spatial' into spatial distribution modeling: Advances and applications in predictive species models. Center for Applied GIS, UNC-Charlotte. 2008.
- Putting the 'spatial' into spatial distribution modeling: Incorporating spatial non-stationarity into predictive vegetation models. Plant Biology Seminar, Dept. of Biology, Univ. of South Carolina. 2007.
- Trees, models and a bald guy: Predicting spatial patterns of ecological phenomena over heterogeneous landscapes. Environmental Brownbag Series, Dept. of Geography, Univ. of South Carolina. 2006.
- National assessments of forest fragmentation. Dept. of Political Science and Geography, Old Dominion University. 2005.
- Effects of Hurricane Katrina on southern Mississippi coastal forests and projected post-hurricane responses: A multi-scale evaluation. Dept. of Geography, Univ. of South Carolina. 2005.
- Not seeing the ocean for the islands: Spatial heterogeneity and forest fragmentation effects. Institute for the Study of Planet Earth and Udall Center for Studies in Public Policy (co-sponsored), University of Arizona. 2005.
- Invasive Grass Species in Southern Arizona Rangelands: Ecosystem Effects, Spatial Constraints and Management Implications. Dept. of Geography, Univ. of South Carolina. 2004.
- Johannes Warming, Henry Gleason and Mr. Spock: Lessons for understanding the effects of landscape structure on plant regeneration patterns and soil characteristics near Indian Church, Belize. Dept. of Biology, Carleton University. 2002.
- Ecosystem effects and management of desert grasslands invaded by African lovegrasses. Arid Lands Resource Sciences, Univ. of Arizona. 2001.
- Johannes Warming, Henry Gleason and Mr. Spock: Lessons for understanding the effects of landscape structure on plant regeneration patterns and soil characteristics near Indian Church, Belize. School of Renewable Natural Resources, Univ. of Arizona. 2001.
- Spatial aspects of mortality and regeneration in southern Appalachian Fraser fir ecosystems following an exotic insect outbreak. Laboratory of Tree Ring Research, Univ. of Arizona. 2000.
- Vegetation dynamics and (not so) shifting cultivation near Lamanai Archeological Reserve, Indian Church, Belize. Dept. of Geography and Regional Development, Univ. of Arizona. 2000.

Environmental and spatial aspects of forest dynamics in an Ohio nature preserve. John Treacy Memorial Lecture, Dept. of Geography, University of Wisconsin-Madison. 2000.

Threats to high elevation spruce-fir forests in Great Smoky Mountains National Park. Brown bag discussion series. Dept. of Geography, University of Wisconsin-Madison. 2000.

Spatial aspects of forest succession in a beech-maple forest reserve. Dept. of Geography, Arizona State University. 1999.

Landscape ecological aspects of gap succession in an Ohio beech-maple preserve. Dept. of Geography, Texas A&M University. 1997.

(De)Channelization effects in West Tennessee. Geography Awareness Week Series, Dept. of Geography, University of Memphis. 1997.

Modeling the effects of global climate change on forest communities in West Tennessee. Department of Geography and Planning, University of Memphis. 1996.

Early gap successional pathways in Hueston Woods: The effects of environment and spatial relations. Department of Biology. University of Memphis. 1995.

The effects of edge vegetation on interior gap successional processes Department of Geography, University of Utah. 1994.

*Workshop Participation:*

Visualizing Environmental Science. John Wiley & Sons and National Geographic Society, Washington, DC, 2007.

Identifying Biodiversity Research Needs Related to Forest Fragmentation. National Commission on Science for Sustainable Forestry, User's Meeting. Washington, D.C. 2003.

Identifying Biodiversity Research Needs Related to Forest Fragmentation. National Commission on Science for Sustainable Forestry, Annual Meeting, Portland, OR. 2002.

**Service**

*Graduate Student Committees:*

Completed Graduate Advisees: (with thesis title):

Michael Hook. MEERM. 2010. *Environmental determinants of Stigonematales in a southeastern reservoir.*

Justin Roberson. M.A. 2008. *Bird species prediction modeling: a comparison of multiple modeling techniques at Francis Marion National Forest in South Carolina.*

Sarah McLane. M.A. 2007. *An integrative approach to modeling invasive species as a part of a watershed management partnership in the Kohala Mountains, Hawaii.*

Susan Simpson. M.A. 2005. *Perceptual boundaries between human and wildlife spaces and their changes due to drought, Tucson, AZ.*

Jeff Balmat. M.A. 2004. *Assessment of timber resources and logging history of the Valles Caldera National Preserve.*

Candice Koski. M.A. 2004. *Forest community structure and composition in the Valles Caldera National Preserve, NM.*

Keith Lombardo. M.A. 2004. *Interactive effects of wildfire and non-native species on biodiversity and ecosystem functioning in a semi-desert grassland.*

Christine Hansell. M.A. 2003. Non-thesis.

Tyler Jones. M.A. 2003. *Predictive modeling of montane ecotone locations in an Arizona sky island ecosystem.*

Jacqueline Smith. M.A. 2002. *Analysis and predictive modeling of vegetation patterns in Saguaro National Park East, Arizona.*

Stacy Anderson. M.S., 2000. *The effects of silvicultural treatments on forest interior bird populations.*

Tony Coryell. M.S., 1997. *Effects of regulated discharge below the Douglas Dam on potential reintroduction of the muskellunge to the French Broad River, Tennessee.*

Joy Fritschle Mason. M.S., 1997. *A structural and compositional comparison of alluvial and nonalluvial redwood forest stands, Jedediah Smith Redwoods State Park, CA.*  
David Coleman. M.S., 1996. *An analysis of riparian water quality buffers in an agricultural landscape of Western Tennessee.*  
Keith Bell (co-chair with Dr. C.V. Dixon). M.A., 1995. *The Columbia Mule Day: A reason for celebration.*

Current Graduate Advisees:

Kimberly Meitzen (Ph.D.; Geography, Univ. of South Carolina ; co-chair with W. Graf); Peng Gao (Ph.D., Geography, Univ. of South Carolina); Justin Roberson (Ph.D., Geography, Univ. of South Carolina); Bill Stangler (M.S., Geography, Univ. of South Carolina); Josh Leisen (M.S., Geography, Univ. of South Carolina); Durphey Clifton (MEERM, School of the Environment, Univ. of South Carolina).

Current Graduate Committees (other than as Chair):

Bob Greeley (Ph.D., Geography, Univ. of South Carolina); Manali Baruah (Ph.D., Geography, Univ. of South Carolina); Mary Thompson (Ph.D., Geography, Univ. of South Carolina); Benjamin Haywood (Ph.D., Geography, Univ. of South Carolina); Jessica Brennan (M.S., continuing); Amy Davis (Ph.D. Geography; UNC-Charlotte; external reviewer).

Committee Member - Completed Ph.D.:

Tomas Vaclavik, UNC-Charlotte, Geography, 2011 (external reviewer), Tara Plewa, Univ. of South Carolina, Geography, 2009. Calvin Farris, Univ. of Arizona, Geography, 2008; Erika Geiger, Univ. of Arizona, Natural Resources, 2006; Jose Iniguez, Univ. of Arizona, Natural Resources, 2006; Kathryn Mauz, Univ. of Arizona, Arid Lands Resource Science, 2006; Theresa Mau-Crimmins, Univ. of Arizona, Natural Resources, 2005; Korine Kolivras, Univ. of Arizona, Geography, 2004; Kurt Kipfmuller, Univ. of Arizona, Geography, 2003; Hardson Kwandayi, Univ. of Arizona, Education, 2003; John All, Univ. of Arizona, Geography, 2002; Tom Contreras, Carleton Univ., Biology, 2002 (external examiner).

Committee Member - Completed M.A., M.S., M.A.T.:

Andy Maceyka, USC Geography, 2010; Ian Millar, USC Geography, 2009; Chris Van Dyke, USC Geography, 2009; Mary Thompson, USC Geography, 2008; Jovian Sackett, USC, Geography, 2007; Gregory Sprouse, USC, Geography, 2007; Kimberly Meitzen, USC, Geography, 2006; Miguel Villareal, UA, Geography, 2004; Tamara Wilson, UA, Geography, 2002; Erick Sanchez, UA, Geography, 2002; Joe Abraham, UA, Geography, 2001; David Brown, UA, Geography, 2001; Ann-Maree White, UA, Geography, 2001; Michelle Wagner, UA, MAT, 2001; J. Todd Graves, UM, Geography, 2001; Peter Johnson, UA, Geography 2001; Kevin Claridge, UM, Biology, 2000; Amy Webbeking, UM, Biology, 2000; Barbara Ball, UA, Geography, 2000; Jennifer Smith, UM, Geography, 1998; Susan Hutson, UM, Geography, 1997; Pete Anderson, UM, Biology, 1997; Suzanne Struve, UM, Geography, 1996; Herbert Cochrane, UM, Geography, 1996; Edward Esslinger, UM, Geography, 1995; Russ McKee, UM, Geography, 1995; Glenn Gallien, UM, Geography, 1994

*Departmental Service:*

Univ. of South Carolina – Department of Geography  
Director of Undergraduate Studies. 2006-2007, 2010-present.  
Promotion and Tenure Committee. 2008-present.  
Undergraduate Advisor. 2005-present.

Chair's Advisory Committee. 2009-2010.  
Graduate Admissions Committee. 2007-2010 (Chair: 2009-2010).  
Julian Minghi Distinguished Lectureship Selection Committee. 2007-2010.  
Colloquium Coordinator. 2005-2006.

Search Committees:

Assistant Professor, GeoVisualization. 2006.  
Assistant Professor, Ecological Mapping. 2008. (Chair)  
Assistant Professor, Environmental Microbiology (Biology Dept.). 2008.  
Assistant Professor, Ecological Forecasting (Biology Dept.). 2009-2010.

University of Arizona – Dept. of Geography & Regional Development:

Director of Undergraduate Studies. 2003-2004.  
Annual Performance Review Committee. 2001-2004. (Chair. 2002-2003).  
Promotion and Tenure Committee. 2001-2003.  
Undergraduate Advisor. 2000-2005.  
Undergraduate Committee. 2000-2001, 2003-2004. (Chair: 2003-2004)  
Colloquium. 1999-2003. (Coordinator: 2000-2003).  
Physical Geography Committee. 1999-2005.  
Graduate Committee. 1999-2000.

Search Committees:

Associate Professor, Water Resources Management. 2005.  
Visiting Assistant Professor, Climate and Health. 2001.

University of Memphis – Department of Geography and Planning Committees:

Undergraduate and graduate mentoring. 1994-1999.  
Undergraduate and graduate curriculum. 1994-1999.  
Environmental/earth science concentration. 1994-1999.  
Department of Geography Colloquium Series. 1994-1996, 1998.  
Search Committee Member, Physical Geography Assistant Professor position, 1999.

Formal undergraduate advising (approximate # of undergraduates advised per year):

University of South Carolina: 30; University of Arizona: 40; University of Memphis: 10.

*College and University Service:*

University of South Carolina

Office of the Vice President for Research: Promising Investigators Research Awards. Review Panel. 2009-2011 (Committee Chair: 2011).  
Carolina Core Oral Communication Subcommittee. 2011-present  
University Courses and Curriculum Committee. 2009-present  
College of Arts and Science Advising Assessment Taskforce. 2007-2008.  
Faculty Senate. 2006-2009.

University of Arizona

College of Social & Behavioral Sciences Research Institute. Advisory Board 2003-2005.  
College of Social & Behavioral Sciences. Academic Advisor Search Committees (4). 2003.  
Arid Lands Resource Sciences, McGinnies Award Selection Committee. 2002-2004.  
NASA Space Grant Internship Mentor. 2002.  
College of Social & Behavioral Sciences. Outstanding Senior Award Committee. 2000-2001.  
College of Social & Behavioral Sciences. Student Grade Appeals, Dept. Representative Committee. 2000-2001, 2003-2004.

University of Memphis:

Distinguished Teaching Award Selection Committee. 1998-1999.  
General Education Committee. 1998-1999.

*Scholarly/Professional Organizations and Journals:*

Editorial Service:

Physical Geography Editor. *Geography Compass*. 2011-present.

Coordinating Editor, *Landscape Ecology*. 2011-present.  
 Associate Editor, *Plant Ecology*. 2010-present.  
 Section Editor (Biogeography), *Geography Compass*. 2010-present.  
 Association of American Geographers:  
     Publications Committee. 2007-2010.  
 Biogeography Specialty Group, Association of American Geographers:  
     Past-president. 2005-2007.  
     President. 2003-2005.  
     Executive Board. 1998-2000.  
     Webmaster. 2005-present  
     Judge, Student Grants Competition. 1998-2000, 2008.  
     Coordinator, Henry Cowles Award for Excellence in Publication. 1998-2000.  
     Coordinator, James J. Parsons Distinguished Career Award. 1998-2000.  
     Chair for BSG-sponsored sessions, Annual Meeting of the AAG. 2000-present.

Southeast Division, Association of American Geographers (SED/AAG):  
     Program Committee, Annual SED/AAG Meeting. 2007, 2009-2010.  
     Session organizer. Annual SED/AAG Meeting. 2009.  
     Paper discussant, Annual SED/AAG Meeting. 1994-1996, 2007-2008.  
     State Representative, Tennessee. 1998-1999.  
     SED/AAG Steering Committee. 1998-1999.  
     Local Arrangements Committee, Annual SED/AAG Meeting. 1998.  
     Field Trip Leader, Annual SED/AAG Meeting. 1998.

International Association of Landscape Ecology, U.S. Regional Division (US-IALE):  
     Symposium organizer and chair, Annual US-IALE Meeting. 2003.  
     Student paper competition judge, Annual US-IALE Meeting. 2001, 2003.

The H. John Heinz III Center for Science, Economics and the Environment:  
     Landscape pattern workgroup for *State of the Nation's Ecosystems*. 2003-2008.

Arizona Climate Change-Vegetation Response Workgroup.  
     Member. 2003-2005.  
     Conference Co-organizer, "Climate Change & Ecosystem Impacts in Southwest Forests and Woodlands", Sedona, AZ (Feb. 7-9, 2005)  
     Workgroup leader, Spatial and temporal scales of vegetation responses. "Climate Change & Ecosystem Impacts in Southwest Forests and Woodlands", Sedona, AZ (Feb. 7-9, 2005)

Gamma Theta Upsilon, National Geography Honor Society:  
     Alpha Xi Chapter, Executive Board. 1987-1988.

Review panels:  
     National Science Foundation, Senior Advisory Panel, Geography and Spatial Sciences program. 2009.  
     National Science Foundation, Senior Advisory Panel, Geography and Regional Science program. 2007-2008  
     Environmental Protection Agency / U.S. Department of Agriculture. "Ecological Impacts from the Interactions of Climate Change, Land Use Change and Invasive Species".

Journal manuscript reviewer:  
*Ambio; American Midlands Naturalist; Annals of the Association of American Geographers; Agriculture, Ecosystems and Environment; Applied Vegetation Science; Biological Conservation; Catena; Climate Research; Ecological Applications; Ecological Modelling; Environmental Management; GeoCarto; Geomorphology; GIScience and Remote Sensing, Journal of Arid Environments; Journal of Biogeography;*

*Journal of the Torrey Botanical Society; Journal of Vegetation Science; Landscape and Urban Planning; Landscape Ecology; Ohio Journal of Science; Plant Ecology; Professional Geographer; Physical Geography; Southeastern Geographer; Southwestern Naturalist; Western North America Naturalist; Wetlands*