Dr. Jennifer L. Morse
Assistant Professor

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Professional Preparation

Duke University Ecology Ph.D., 2010
Dissertation: *Farm fields to wetlands: biogeochemical consequences of re-flooding in coastal plain agricultural lands*. Supervisors: Drs. Emily Bernhardt and Curt Richardson

George Mason University Biology (Environmental Science and Policy) M.S., 2002
Thesis: *Sediment deposition and nutrient availability in two tidal freshwater marshes along the Mattaponi River, Virginia*. Supervisors: Drs. Mark Walbridge and J. Patrick Megonigal

College of William and Mary Biology and Environmental Science B.S. *cum laude*, 1997

Professional Experience

2013- Assistant Professor, Department of Environmental Science and Management, Portland State University, Portland, OR.

2010-2013 Postdoctoral Research Associate, Cary Institute of Ecosystem Studies, Millbrook, NY. Denitrification in northern hardwood forests. Supervisor: Dr. Peter Groffman

2010 Research Associate, Biology Department, Duke University, Durham, NC. Ecological consequences of mountaintop removal coal mining. Supervisor: Dr. Emily Bernhardt

2009 Adjunct Faculty, Environmental Studies Department, Elon University, Elon, NC.

2002-2004 Laboratory Manager, Department of Entomology, University of Maryland, College Park, MD. Nutrient cycling in urban streams in Maryland. Supervisor: Dr. Margaret Palmer

1998-2002 Environmental Scientist, Science and Engineering Group, DynCorp, Alexandria, VA.

Peer-reviewed Publications

1. Durán, J., **J.L. Morse**, P.M. Groffman, J.L. Campbell, L.M. Christenson, C.T. Driscoll, T.J. Fahey, M.C. Fisk, G.E. Likens, J.M. Melillo, and M.J. Mitchell. 2016. Climate change decreases nitrogen pools and mineralization rates in northern hardwood forests. Ecosphere, 7(3). DOI: 10.1002/ecs2.1251
2. Groffman P.M., J.M. Grove, C. Polsky, N.D. Bettez, **J.L. Morse**, J. Cavender-Bares, S.J. Hall, J.B. Heffernan, S.E. Hobbie, K.L. Larson, C. Neill. 2016. Satisfaction, water and fertilizer use in the American residential macrosystem. Environmental Research Letters 11(3):034004. DOI: 10.1088/1748-9326/11/3/034004
3. Trammell, T.L.E, D.E. Pataki, J. Cavender-Bares, P.M. Groffman, S.J. Hall, J.B. Heffernan, S.E. Hobbie, **J.L. Morse**, C. Neill, K.C. Nelson. 2016. Plant nitrogen concentration and isotopic composition in residential lawns across seven US cities. Oecologia. DOI: 10.1007/s00442-016-3566-9
4. Larson, K.L, K.C. Nelson, S.R. Samples, S.J. Hall, N. Bettez, J. Cavender-Bares, P.M. Groffman, M. Grove, J.B. Heffernan, S.E. Hobbie, J. Learned, **J.L. Morse**, C. Neill, L.A. Ogden, J. O'Neil-Dunne, D.E. Pataki, C. Polsky, R. Roy Chowdhury, M. Steele, T.L.E. Trammell. 2015. Ecosystem services in managing residential landscapes: priorities, value dimensions, and cross-regional patterns. Urban Ecosystems DOI: 10.1007/s11252-015-0477-1
5. Hopkins, K.G., N.B. Morse, D.J. Bain, N.D. Bettez, N.B. Grimm, **J.L. Morse**, M.M. Palta. 2015. Type and timing of stream flow changes in urbanizing watersheds in the Eastern US. Elementa: Science of the Anthropocene 3(1). DOI: 10.12952/journal.elementa.000056

6. Hopkins, K.G., N.B. Morse, D.J. Bain, N.D. Bettez, N.B. Grimm, **J.L. Morse**, M.M. Palta, W.D. Shuster, A.R. Bratt, and A.K. Suchy. 2015. Assessment of regional variation in streamflow responses to urbanization and the persistence of physiography. Environmental Science & Technology 49(5):2724–2732
7. **Morse, J.L.**, J. Durán, and P.M. Groffman. 2015. Soil denitrification fluxes in a northern hardwood forest: the importance of snowmelt and implications for ecosystem N budgets. Ecosystems 18(3): 520-532
8. **Morse, J.L.**, J. Durán, F. Beall, I. Creed, E. Enanga, I. Fernandez, and P.M. Groffman. 2015. Soil denitrification fluxes from three northeastern North American forests across a range of nitrogen deposition. Oecologia 177(1): 17-27
9. Waters, E. R., **J.L. Morse**, N. D. Bettez, and P.M. Groffman. 2014. Differential carbon and nitrogen controls of denitrification in riparian zones and streams along an urban to exurban gradient. Journal of Environmental Quality 43:955–963
10. Durán, J., **J.L. Morse**, P.M. Groffman, J.L. Campbell, L.M. Christenson, C.T. Driscoll, T.J. Fahey, M.C. Fisk, M.J. Mitchell, and P.H. Templer. 2014. Winter climate change affects growing-season soil microbial biomass and activity in northern hardwood forests. Global Change Biology 10.1111/gcb.12624
11. **Morse, J.L.**, S.F. Werner, C. Gillin, C.L. Goodale, S.W. Bailey, K.J. McGuire, and P.M. Groffman. 2014. Searching for biogeochemical hotspots in three dimensions: soil C and N cycling in hydropedologic units in a northern hardwood forest. Journal of Geophysical Research - Biogeosciences 10.1002/2013JG002589
12. Polsky, C., J.M. Grove, C. Knudson, P.M. Groffman, N. Bettez, J. Cavender-Bares, S.J. Hall, J.B. Heffernan, S.E. Hobbie, K.L. Larson, **J.L. Morse**, C. Neill, K.C. Nelson, L.A. Ogden, J. O'Neil-Dunne, D.E. Pataki, R. Roy Chowdhury, M.K. Steele. 2014. Assessing the homogenization of urban land management with an application to US residential lawn care. Proceedings of the National Academy of Science 111(12): 4432-4437
13. Steele, M.K. , J.B. Heffernan, N. Bettez, J. Cavender-Bares, P.M. Groffman, M. Grove, S. Hall, S.E. Hobbie, K. Larson, **J.L. Morse**, C. Neill, K.C. Nelson, J. O'Neil-Dunne , L. Ogden, D.E. Pataki, C. Polsky, R. Roy Chowdhury. 2014. Convergent surface water distributions in U.S. cities. Ecosystems 17(4): 685-697.
14. Groffman, P.M., J. Cavender-Bares, N.D. Bettez, J.M. Grove, S.J. Hall, J.B. Heffernan, S.E. Hobbie, K.L. Larson, **J.L. Morse**, C. Neill, K. Nelson, J. O'Neil-Dunne, L. Ogden, D.E. Pataki, C. Polsky, R. Roy Chowdury, M.K. Steele. 2014. Ecological homogenization of urban USA. Frontiers in Ecology and the Environment 12 (1): 74-81
15. Ardón, M., **J.L. Morse**, B.P. Colman, and E.S. Bernhardt. 2013. Drought-induced saltwater intrusion leads to increased wetland nitrogen export. Global Change Biology 19(10): 2976–2985.
16. Durán, J., Rodríguez, A., **J.L. Morse**, and P.M. Groffman. 2013. Winter climate change effects on soil C and N cycles in urban grasslands. Global Change Biology 19(9): 2826–2837.
17. **Morse, J.L.** and E.S. Bernhardt. 2013. Using ^{15}N tracers to estimate N_2O and N_2 emissions from nitrification and denitrification in coastal plain wetlands under contrasting land-uses. Soil Biology and Biochemistry 57(1): 635-643.
18. Groffman, P.M., L.E. Rustad, P.H. Templer, J.L. Campbell, L.M. Christenson, N.K. Lany, A.M. Socci, M.A. Vadeboncoeur, P.G. Schaberg, G.F. Wilson, C.T. Driscoll, T.J. Fahey, M.C. Fisk, C.L. Goodale, M.B. Green, S.P. Hamburg, C.E. Johnson, M.J. Mitchell, **J.L. Morse**, L.H. Pardo, N.L. Rodenhouse. 2012. Climate change effects are manifest in complex and surprising ways in the northern hardwood forest. BioScience 62: 1056–1066.
19. Villa, P., M. Boschetti, **J.L. Morse**, and N. Politte. 2012. A multitemporal analysis of tsunami impact on coastal vegetation using remote sensing – a case study on Koh Phra Thong island, Thailand. Natural Hazards 64(1): 667-689.

20. **Morse, J.L.**, M. Ardón, and E.S. Bernhardt. 2012. Using environmental variables and soil processes to forecast denitrification potential and nitrous oxide fluxes in coastal plain wetlands across different land uses. Journal of Geophysical Research-Biogeosciences 117: G02023.
21. Durán, J., **J.L. Morse**, and P.M. Groffman. 2012. Comparison of in-situ methods to measure N mineralization rates in soils. Soil Biology and Biochemistry 46: 145-147.
22. **Morse, J.L.**, M. Ardón, and E.S. Bernhardt. 2012. Greenhouse gas fluxes in southeastern US coastal plain wetlands under contrasting land uses. Ecological Applications 22: 264–280.
23. Ardón, M., **J.L. Morse**, M.W. Doyle, and E.S. Bernhardt. 2010. The water quality consequences of restoring wetland hydrology to a large agricultural watershed in the southeastern coastal plain. Ecosystems 13: 1060-1078.
24. Ardón, M., S. Montanari, **J.L. Morse**, M.W. Doyle, and E.S. Bernhardt. 2010. Phosphorus export from a restored wetland ecosystem in response to natural and experimental hydrologic fluctuations. Journal of Geophysical Research-Biogeosciences 115: G04031.
25. Groffman, P.M., K. Butterbach-Bahl, R.W. Fulweiler, A.J. Gold, **J.L. Morse**, E.K. Stander, C. Tague, C. Tonitto, and P. Vidon. 2009. Challenges to incorporating spatially and temporally explicit phenomena (hotspots and hot moments) in denitrification models. Biogeochemistry 93(1): 49-77.
26. Fierer, N., **J.L. Morse**, S.T. Berthrong, E.S. Bernhardt, and R.B. Jackson. 2007. Environmental controls on the landscape-scale biogeography of stream bacterial communities. Ecology 88(9): 2162–2173.
27. Palmer, M.A., E.S. Bernhardt, E.A. Chornesky, S.L. Collins, A.P. Dobson, C.S. Duke, B.D. Gold, R.B. Jacobson, S.E. Kingsland, R.H. Kranz, M.J. Mappin, M.L. Martinez, F. Micheli, **J.L. Morse**, M.L. Pace, M. Pascual, S.S. Palumbi, O.J. Reichman, A.R. Townsend, and M.G. Turner. 2005. Ecological science and sustainability for the 21st century. Frontiers in Ecology and the Environment 3(1): 4–11.
28. **Morse, J.L.**, J.P. Megonigal, and M.R. Walbridge. 2004. Sediment nutrient accumulation and nutrient availability in two tidal freshwater marshes along the Mattaponi River, Virginia, USA. Biogeochemistry 69: 175-206.
29. Palmer, M., E. Bernhardt, E. Chornesky, S. Collins, A. Dobson, C. Duke, B. Gold, R. Jacobson, S. Kingsland, R. Kranz, M. Mappin, M.L. Martinez, F. Micheli, **J. Morse**, M. Pace, M. Pascual, S. Palumbi, O.J. Reichman, A. Simons, A. Townsend, and M. Turner. 2004. Ecology for a crowded planet. Science 304: 1251-1252.

Other Publications

1. Bechtold, H.A., J. Durán, D.L. Strayer, K.C. Weathers, A. Alvarado, N.D. Bettez, M.H. Hersh, R.C. Johnson, E.G. Keeling, **J.L. Morse**, M.A. Previtali, A. Rodríguez. 2012. Chapter 17: Frontiers in Ecosystem Science. In: Fundamentals of Ecosystem Science (eds) K.C. Weathers, D.L. Strayer, G.E. Likens. Academic Press. ISBN 978-0-12-088774-3.
2. **Morse, J.L.** 2010. Adventures in the Science and Policy of Coastal Wetland Restoration. Invited article in *Johns Hopkins Global Water Program Online Magazine*. http://globalwater.jhu.edu/magazine/article/189/
3. Palmer, M.A., P. Arzberger, J.E. Cohen, A. Hastings, R.D. Holt, **J.L. Morse**, D. Sumners, and Z. Luthey-Schulten. 2003. Accelerating mathematical-biological linkages. Report of a joint NSF-NIH workshop held February 12-13, 2003 at the National Institutes of Health, Bethesda, MD.
4. **Morse, J.L.** 2001. A guide to writing in the biological sciences. General ecology course and Writing Center, George Mason University. http://classweb.gmu.edu/WAC/Biology/

Presentations

1. Morse, J.L. Searching for hot spots and hot moments of soil denitrification in northern hardwood forests. Invited presentation, American Geophysical Union fall meeting, San Francisco, CA. December 2014.

2. Morse, J.L. The influence of stormwater pipes and green infrastructure on sediment biogeochemistry in a rural-to-urban river network. Oral presentation, Institute of Urban Environment, Chinese Academy of Sciences, Xiamen, China. October 2014.
3. Morse, J.L. Searching for denitrification in northeastern forest soils. Invited seminar, Oregon State University, Corvallis, OR. November 2013.
4. Morse, J.L. Quantifying ecosystem functions in restored wetlands. Research to Action Symposium, Portland State University
5. Morse, J.L., J. Durán, F. Beall, I. Creed, E. Enanga, I. Fernandez, and P. M. Groffman. Soil denitrification fluxes and oxygen dynamics in three contrasting northeastern North American forests. Oral presentation, Ecological Society of America annual meeting, Minneapolis, MN. August 2013.
6. Morse, J.L. Frontiers in Freshwater Science: Advancing the science behind freshwater ecosystem services and their underlying ecosystem functions. Invited seminar, University of North Carolina-Chapel Hill. Chapel Hill, NC. February 2013.
7. Morse, J.L. Frontiers in Biogeochemistry: Advancing the science behind ecosystem services and their underlying ecosystem functions. Invited seminar, Portland State University, Portland, OR. February 2012.
8. Morse, J.L. Frontiers in Freshwater Science: Advancing the science behind freshwater ecosystem services and their underlying ecosystem functions. Invited seminar, Leibniz-Institute, Berlin, Germany. December 2012.
9. Morse, J.L., J. Durán, P.M. Groffman. Seasonal patterns of denitrification and trace gas emissions in a northern hardwood forest. Poster presentation, American Geophysical Union annual meeting, San Francisco, CA. December 2012.
10. Morse, J.L., J. Cavender-Bares, N. D. Bettez, Groffman, P. M., J. M. Grove, S. J. Hall, J. Heffernan, S. E. Hobbie, K. L. Larson, C. Neill, K. Nelson, J. O'Neil-Dunne, L. Ogden, D. E. Pataki, C. Polsky, R. Roy Chowdhury, M. K. Steele. Ecological homogenization of urban America. Baltimore Ecosystem Study annual meeting, Baltimore, MD. October 2012.
11. Morse, J.L., M. Ardón, M.W. Doyle, and E.S. Bernhardt. Biogeochemical tradeoffs and time lags in a large-scale coastal plain wetland restoration project. Invited presentation, EcoSummit, Columbus, OH. October 2012.
12. Morse, J.L., M. Ardón, and E.S. Bernhardt. Quantifying multiple ecosystem services and their underlying ecosystem functions in North Carolina's largest wetlands mitigation bank. Invited presentation, Ecological Society of America annual meeting, Portland, OR. August 2012.
13. Morse, J.L., J. Durán, and P.M. Groffman. Estimating N losses via soil denitrification in northern hardwood forests. Oral presentation, 49th Annual Cooperators' Meeting, Hubbard Brook Ecosystem Study, North Woodstock, NH. July 2012.
14. Morse, J.L., E. Bernhardt, M. Ardón, M. Doyle, P. Groffman, and J. Durán. Nitrogen cycling and greenhouse gases in forest soils: insights from coastal swamps and northern hardwood forests. Invited seminar, Bard College, Annandale-on-Hudson, NY. March 2011.
15. Morse, J.L., S.F. Werner, P.M. Groffman, and S.W. Bailey. Landscape and hillslope controls on soil biogeochemical processes in a northern hardwood forest. Poster, Ecological Society of America annual meeting, Austin, TX. August 2011.
16. Morse, J.L., S.F. Werner, P.M. Groffman, and S.W. Bailey. Landscape and hillslope controls on soil biogeochemical processes in a northern hardwood forest. Oral presentation, 48th Annual Cooperators' Meeting, Hubbard Brook Ecosystem Study, North Woodstock, NH. July 2011.
17. Morse, J.L., M. Ardón, and E. Bernhardt. Greenhouse gas fluxes in southeastern US coastal plain wetlands under contrasting land uses. Invited seminar, Cary Institute of Ecosystem Studies, Millbrook, NY. January 2011.

18. Morse, J.L., M. Ardón, and E. Bernhardt. Greenhouse gas fluxes in southeastern US coastal plain wetlands under contrasting land uses. Poster, American Geophysical Union Fall Meeting, San Francisco, CA. December 2010.
19. Morse, J.L., M. Ardón, and E. Bernhardt. Greenhouse gas fluxes in southeastern US coastal plain wetlands under contrasting land uses. Dissertation seminar, Duke University Program in Ecology seminar series, Durham, NC. March 2010.
20. Morse, J.L., M. Ardón, and E. Bernhardt. Nitrification and denitrification as sources of N_2O in coastal plain wetlands under contrasting land uses. Oral presentation, Ecological Society of America annual meeting, Albuquerque, NM. August 2009.
21. Morse, J.L., M. Ardón, and E. Bernhardt. Denitrification rates and products in coastal plain wetlands under contrasting land uses. Invited oral presentation, Society of Wetland Scientists annual meeting and International Symposium on Wetlands Biogeochemistry, Madison, WI. June 2009.
22. Morse, J.L., M. Ardón, and E. Bernhardt. Linking greenhouse gas fluxes and hydrologic variability in a restored agricultural wetland. Oral presentation, Ecological Society of America annual meeting, Milwaukee, WI. August 2008.
23. Morse, J.L., M. Ardón, and E. Bernhardt. Predicting the fate of nitrogen and the impact on water quality and greenhouse gas emissions from sea level rise and wetland restoration. Invited oral presentation, Lindbergh Foundation annual meeting, Atlanta, GA. May 2008.
24. Morse, J.L., M. Ardón, and E. Bernhardt. Farm fields to wetlands: biogeochemical consequences of re-flooding in coastal plain agricultural lands. Oral presentation, Oosting Memorial Lecture Graduate Symposium, Duke University, Durham, NC. April 2008.
25. Morse, J.L., M. Ardón, and E. Bernhardt. Scaling up gas flux measurements to annual and landscape scales. Oral presentation, National Science Foundation Riparian Zone Workshop, Indianapolis, IN. January 2008.
26. Morse, J.L., M. Ardón, M. Doyle, and E. Bernhardt. Farm fields to wetlands: biogeochemical consequences of re-flooding in coastal plain agricultural lands. Oral presentation, North American Benthological Society annual meeting, Columbia, SC. June 2007.
27. Morse, J.L., M. Ardón, M. Doyle, and E. Bernhardt. Controls over denitrification and trace gas emissions in a restored forested wetland. Oral presentation, International Symposium on Wetlands Biogeochemistry, Annapolis, MD. April 2007.
28. Morse, J.L., E. Bernhardt, and G. Poole. Linking hydrology and thermodynamics to understand biogeochemical transformations and fluxes in floodplain landscapes. Poster, Denitrification RCN Workshop: Modeling Denitrification, Institute of Ecosystem Studies, Millbrook, NY. November 2006.
29. Morse, J.L., E.S. Bernhardt, and G. Poole. Linking hydrological and thermodynamic models of floodplain biogeochemistry. Poster, North American Benthological Society annual meeting, Anchorage, AK. June 2006.
30. Morse, J.L., E.S. Bernhardt, and E.B. Sudduth. Stream confluences: simple mixing zones or biogeochemical hotspots? Poster, Ecological Society of America annual meeting, Montreal, Canada. August 2005.
31. Morse J.L., J.P. Megonigal, and M.R. Walbridge. Sediment nutrient accumulation and nutrient availability in two tidal freshwater marshes along the Mattaponi River, VA. Oral presentation, Ecological Society of America, Mid-Atlantic Chapter Meeting, Lancaster, PA. March 2004.
32. Morse, J.L., M. Boschetti, C. Conti, M. Aureggi, S. Nimsantijaroen. Mangrove forest research, conservation education, and ecotourism in Thailand: a pilot study using novice volunteers. Poster, Ecological Society of America annual meeting, Savannah, GA. August 2003.

33. Morse, J.L., J.P. Megonigal, and M.R. Walbridge. Nutrient characteristics and nutrient limitation in two Virginia tidal freshwater marshes. Oral presentation, Ecological Society of America annual meeting, Madison, WI. August 2001.

Grants and Contracts

MacroSystems Biology Grant, National Science Foundation, 2017-2020
Conservation Innovation Grant, US Department of Agriculture, Oregon Natural Resources Conservation Service, 2016-2018 ($75,000)
Category 1 Award, Institute for Sustainable Solutions, Portland State University, 2016 ($6,000)
Research Stimulus Award, Portland State University, 2015 ($5,000)
Specific Cooperative Agreement, Quantifying Sources of Variation in Denitrification in Agricultural Landscapes, US Department of Agriculture, 2014 ($49,854)
Research Stimulus Award, Institute for Sustainable Solutions, 2013 ($5,000)

Scholarships and Honors

Katherine Goodman Stern Dissertation Fellowship, Duke University, 2009-2010 (tuition + stipend)
Preparing Future Faculty Fellow, Duke University, 2008-2009
Lindbergh Foundation Grant, 2008 ($10,580)
Kenan Institute for Ethics Campus Grant Award, Duke University, 2008 ($500)
Oosting Memorial Graduate Student Symposium Speaker, Duke University, 2008
Graduate Student Seed Money Award, National Center for Airborne Laser Mapping, 2008 (~$30,000)
STAR Graduate Fellowship, US Environmental Protection Agency, 2005-2009 (tuition + stipend + $15,000)
Graduate Student Conservation Research Award, North American Benthological Society, 2005 ($1,000)
Biology Department Grant-in-Aid, Duke University, 2005 ($1,000)
Student Research Award, Society of Wetland Scientists, 2005 ($1,000)
Writing Across the Curriculum Grant, George Mason University, 2001 ($1,000)
Biology Department Fellowship, George Mason University, 2000 ($500)
Virginia Scholar, Commonwealth of Virginia, 1993-1997 ($12,000)
James Monroe Scholar, College of William and Mary, 1993-1997 ($3,000)
National Merit Scholar, 1993 ($3,000)

Teaching Experience

2013- Environmental Systems II (ESM 321, 324); Watershed Biogeochemistry (ESM 427/527); Ecosystem Restoration (ESM 416/516), Portland State University
2011-2013 Fundamentals of Ecosystem Ecology, lecturer, Cary Institute of Ecosystem Studies, Millbrook, NY
2009 Issues in Ecosystem Restoration, co-instructor, January term, Elon University, Elon, NC
2007 Ecology and Evolution, discussion instructor, Duke University
2006 Biogeochemistry (graduate course), discussion instructor, Duke University
2000-2001 Ecology Laboratory, lab instructor, George Mason University
2000-2001 Plant Biology Laboratory, lab instructor, George Mason University
1999 Introductory Biology Laboratory, lab instructor, George Mason University
1994-1997 Italian and French, recitation instructor, College of William and Mary

Undergraduate Research Mentoring

2015 Joshua Adams (Portland State University) – Honors thesis
2012 Emily Waters (Hampshire College) – Research Experience for Undergraduates and senior thesis
2009 Nicholas Politte (University of North Carolina at Chapel Hill) – Senior honors thesis in Geography
2007 Shankar Mundluru (Duke University) – Senior honors thesis in Biology

2006 Shaena Montanari (University of North Carolina at Chapel Hill) – Research Experience for Undergraduates (co-mentor)

Professional Service and Membership

Peer Reviewer: *Ecology*, *Ecological Applications, Limnology and Oceanography, Oecologia, Wetlands Ecology and Management, Aquatic Sciences, Journal of the North American Benthological Association, Freshwater Science, Soil Biology and Biochemistry, Plant and Soil, Journal of Geophysical Research-Biogeosciences, Soil Science Society of America Journal, Science of the Total Environment, Ecosystems, Water Resources Research, Restoration Ecology, Biology and Fertility of Soil.*

Proposal Reviewer: National Science Foundation (Geobiology and Low-temperature Geochemistry; Atmospheric Chemistry); Department of Energy (Terrestrial Ecosystem Science Panel)

Member: American Geophysical Union, Ecological Society of America, Society of Wetland Scientists

Webmaster: Ecological Society of America, Biogeosciences Section, 2005-2010

Cary Institute Sustainability Committee, 2011-2013

Cary Institute Postdoctoral Committee, 2011-2013

Mentor in Duke's Women in Science and Engineering program, 2006-2008

Mentor in Women and Math Mentoring Network, 2007-2008

Duke University UPE Seminar Series committee, 2006-2007

Languages and Computer Skills

Near-native proficiency: Italian and French

Proficient: Spanish

Programming and statistics: R, SAS, SPSS, ArcGIS, SigmaPlot, MS Access, Campbell Scientific dataloggers