

Dr. Monica Marie Palta

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EDUCATION

2012. Ph.D. Rutgers University, Ecology and Evolution.
Dissertation: *Denitrification in urban brownfield wetlands*. Co-Advisors: Joan Ehrenfeld (deceased), Peter Groffman
2005. M.S. University of Georgia, Ecology.
Thesis: *Changes in diameter growth of Taxodium distichum (L.) Rich in response to flow alterations of the Savannah River*. Advisor: Judy Meyer
2000. B.A. Grinnell College, *with Honors in Biology*.
Honors Thesis: *Sources of Pollution in Ganga: a study of Varanasi*. Advisor: Diane Robertson
- 1998–1999. College Year in India Program (Varanasi, India), University of Wisconsin.

ADDITIONAL TRAINING

2013. Stable Isotope Biochemistry and Ecology Lecture Course (IsoCamp), University of Utah.
2003. Dendroclimatology (Summer Course), University of Arizona.

PROFESSIONAL EMPLOYMENT

- 2017–present. Assistant Professor, Department of Environmental Studies and Science, Pace University.
- 2016–2017. Postdoctoral Scholar, School of Life Sciences, Arizona State University.
- 2014–2016. Postdoctoral Research Fellow, School of Earth and Space Exploration, Arizona State University.
- 2012–2014. Postdoctoral Research Fellow, School of Life Sciences, Arizona State University.
- 2005–2012. Ph.D. Fellow/TA, Department of Ecology and Evolution, Rutgers University.
- 2002–2005. M.S. GA/TA, Institute of Ecology, University of Georgia.
- 2001–2002. Research Technician, Department of Marine Sciences, University of Georgia.
2000. Field Technician, Northern Temperate Lakes LTER, Trout Lake Station, Wisconsin.
- 1998–1999. Undergraduate Honors Project, Clean the Ganges Foundation (Varanasi, India).

PUBLICATIONS

Peer-Reviewed Journal Articles and Book Chapters

1. Creed, I.F., Bergström, A., Trick, C., Grimm, N.B., Hessen, D., Karlsson, J., Kidd, K., Kritzberg, E., McKnight, D., Freeman, E., Senar, O., Andersson, A., Ask, J., Berggren, M., Cherif, M., Giesler, R., Hotchkiss, E., Kortelainen, P., **Palta, M.**, Vrede, T., and G. Weyhenmeyer. 2018. Global change-driven effects on dissolved organic matter composition: Implications for food webs of northern lakes. *Accepted*, *Global Change Biology*.
2. **Palta M.M.** and H.E. Hartnett. 2018. Nitrogen Cycle. *In* Encyclopedia of Geochemistry. Encyclopedia of Earth Sciences Series (W. White, eds.). Springer, Cham.
3. **Palta, M.M.**, Grimm, N.B., and P.M. Groffman. 2017. “Accidental” urban wetlands: ecosystem functions in unexpected places. *Frontiers in Ecology and the Environment*, 15, 248-256. DOI 10.1002/fee.1494
4. **Palta, M.M.**, du Bray, M., Stotts, R., Wolf, A., and A. Wutich. 2016. Ecosystem services and disservices for a vulnerable population: Findings from urban waterways and wetlands in an American desert city. *Human Ecology*, 44, 463-478. DOI 10.1007/s10745-016-9843-8
5. **Palta, M.M.**, Ehrenfeld, J.E., Giménez, D., Groffman, P.M., and V. Subroy. 2016. Soil texture and water retention as spatial predictors of denitrification in urban wetlands. *Soil Biology and Biochemistry*, 101, 237-250.
6. Hopkins, K.G., Morse, N.B., Bain, D.J., Bettez, N.D., Grimm, N.B., Morse, J.L., and **M.M. Palta**. 2015. Type and timing of stream flow changes in urbanizing watersheds in the Eastern U.S. *Elementa: Science of the Anthropocene*, 3, 000056. DOI 10.12952/journal.elementa.000056
7. Hopkins, K.G., Morse, N.B., Bain, D.J., Bettez, N.D., Grimm, N.B., Morse, J.L., **Palta, M.M.**, Shuster, W.D., Bratt, A.R., and A.K. Suchy. 2015. Assessment of variation in streamflow responses to urbanization and the persistence of physiography. *Environmental Science and Technology*, 49, 2724-2732.
8. **Palta, M.M.**, Ehrenfeld, J.E., and P.M. Groffman. 2014. “Hotspots” and “hot moments” of denitrification in urban brownfield wetlands. *Ecosystems*, 17, 1121-1137.
9. **Palta, M.M.**, Ehrenfeld, J.E., and P.M. Groffman. 2013. Denitrification and potential nitrous oxide and carbon dioxide production in brownfield wetland soils. *Journal of Environmental Quality*, 42, 1507-1517.
10. **Palta, M.M.**, Doyle, T.W., Jackson, C.R., Meyer, J.L., and R.R. Sharitz. 2012. Changes in diameter growth of *Taxodium distichum* in response to flow alterations in the Savannah River. *Wetlands*, 32, 59-71.

11. Ehrenfeld, J.G., **Palta, M.**, and E. Stander. 2010. Wetlands and Much-modified Water Bodies. *In Handbook of Urban Ecology* (I. Douglas, D. Goode, M. Houck, and R. Wang, eds.). Routledge, New York, New York.
12. Doyle, T.W., O'Neil, C.P., Melder, M.P.V., From, A.S., and **M.M. Palta**. 2007. Tidal freshwater swamps of the southeastern United States: Effects of land use, hurricanes, sea-level rise, and climate change. *In: Ecology of Tidal Freshwater Forested Wetlands of the Southeastern United States* (W.H. Conner, T.W. Doyle, and K.W. Krauss, eds.). Springer-Verlag, New York, New York.
13. **Palta, M.**, Richardson, E., and R. Sharitz. 2003. Effects of altered flow regimes on floodplain processes in the Savannah River basin. *Proceedings of the Georgia Water Resources Conference, April 23-24, 2003*. Athens, Georgia.

Journal Articles and Book Chapters In Review

14. **Palta, M.**, McPhillips, L., Bienz, C., Clifford, C., Okoro, M.H., Jaeger, K., and K. Jaeger. Influence of hydrologic connectivity on ecosystem service provision and tradeoffs in aquatic systems. *Journal of the American Water Resources Association*, in review.

Other Publications

15. **Palta, M.M.** 2012. Denitrification in urban brownfield wetlands. Ph.D. Dissertation. Rutgers University, New Brunswick, New Jersey.
16. **Palta, M.M.** 2005. Changes in diameter growth of *Taxodium distichum* (L.) Rich in response to flow alterations of the Savannah River. M.S. Thesis. University of Georgia, Athens, Georgia.
17. Meyer, J., Alber, M., Duncan, W., Freeman, M., Hale, C., Jackson, C.R., Jennings, C., **Palta, M.**, Richardson, E., Sharitz, R., Sheldon, J., and R. Weyers. 2003. *Summary Report supporting the development of ecosystem flow recommendations for the Savannah River below Thurmond Dam*. Report to The Nature Conservancy of Georgia.

PROJECTS WITH DATA COLLECTED

(Manuscripts available upon request)

Palta, M.M., Groffman, P.M., Hartnett, H.E., and S.E.G. Findlay. Water table fluctuations drive nitrogen cycling in urban stormwater wetlands. In prep.

Hartnett, H.E., **Palta, M.M.**, Grimm, N.B., Ruhí, A., and M. van Schaijik. DOC quantity and quality in an urban reservoir: Time-series analysis of a long-term data set. In prep.

GRANTS AWARDED

2015 Central Arizona Project (CAP) LTER Working Group Proposals to Address Long-Term Data Analysis Funding. *Time-series analysis of Tempe Town Lake biogeochemistry*. \$9,780

- 2013 NSF Research Experience for Undergraduates (REU). *Ecosystem Services and Trade-offs Mediated by Urban Water Bodies for Homeless Populations in Phoenix*. \$4,000 [funding supported undergraduate student Amanda Wolf under my supervision in summer 2013]
- 2013 Central Arizona Project (CAP) LTER Summer Research Funding for Graduate Students. *Human Implications of 'Accidental' Wetlands: Evaluating Potential Ecosystem Services and Human Health Risks*. \$4,000 [funding supported graduate student Julie Gwiszcz under my supervision in summer 2013]
- 2012 Western Alliance to Expand Student Opportunities (WAESO) Undergraduate Funding. *Nutrient and Pathogen Removal in Urban Wetland Areas Downstream of Storm and Wastewater Discharge*. \$2,100 [funding supported undergraduate student Amada Hernandez under my supervision in summer–fall 2012]
- 2012–2014 ASU New American Postdoctoral Research Fund. \$40,000
- 2009–2010 The Rutgers University Graduate Program in Ecology and Evolution Academic Excellence Fund. *Use of C:N ratios to examine plant-microbe competition for nitrogen in brownfield wetlands*. \$1,000
- 2008–2009 New Jersey Water Resources Research Institute. *Process-based modeling of nitrogen removal dynamics in brownfield and intact remnant wetland systems*. \$5,000
- 2007–2008 The Society for Wetland Scientists Student Research Grants Program. *Management of nitrate removal in an urban setting: Examining hydrologic, geomorphic, and biogeochemical controls on denitrification over multiple spatiotemporal scales in urban wetlands*. \$1,000
- 2007–2008 The Rutgers University Graduate Program in Ecology and Evolution Academic Excellence Fund. *Linking form to function: Using soil properties to predict nitrogen removal across an urban wetland landscape*. \$1,000
- 2006–2007 New Jersey Water Resources Research Institute. *Nitrate removal in urban wetlands: examining the roles of vegetation, soils, and hydrology in the creation of 'hot spots' and 'hot moments' of denitrification*. \$5,000
- 2006–2007 Liberty State Park. *Nitrate removal in urban wetlands: Characterization and monitoring of soil biogeochemistry in a range of wetland community types across a highly altered landscape*. \$5,000
- 2006–2010 EPA STAR Research Fund. *Nitrate Removal in Urban Wetlands: Examining the Roles of Vegetation, Soils, and Hydrology in the Creation of 'Hot Spots' and 'Hot Moments' of Denitrification*. \$15,000

ACADEMIC TEACHING EXPERIENCE

2014–2015, **Guest Lecturer**, School of Sustainability, Arizona State University

SOS BIO 494/598: Human Impacts on Ecosystem Function (1 lecture)

SOS 326: Sustainable Ecosystems (1 lecture)

2013–2014, **Lecturer**, Arizona State University

SOS ASB BIO 598: Articulating the Broader Impacts of Scientific Research. 1 cr.

SOS BIO 494/598: Human Impacts on Ecosystem Function. 3 cr.

2009–2011, **Teaching Assistant**, Division of Life Sciences, Rutgers University

BIO 101: Introduction to Biology Lab (1 semester)

GEN 380: Genetics Recitation (3 semesters)

2005–2010, **Guest Lecturer**, Dept of Ecology, Evolution, & Natural Resources, Rutgers University

ENR 351: Principles of Ecology, 20% (2 semesters)

ENR 421: Wetland Ecology (1-2 times/yr)

ENR 451: Ecosystems Ecology and Global Change (1-2 times/yr)

2004–2005, **Teaching Assistant**, Dept of Biological Sciences, University of Georgia

BIOL 1108: Principles of Biology II (2 semesters)

PRESENTATIONS

Invited Presentations

Special Session, “Hydrologic connectivity and ecosystem services across a range of systems.”

(Co-organizer). American Water Resources Association Spring Specialty Conference: The Emerging Science of Aquatic System Connectivity, Snowbird Utah, May 2017.

Symposium, “Using Wetland ‘Turquoise’ Infrastructure to Design More Sustainable Cities.”

Invited presentation. Title: Ecosystem functions provided by urban 'accidental' wetlands. The 10th INTECOL International Wetlands Conference, Changshu, China, September 2016.

University of Minnesota Department of Soil, Water, and Climate Spring 2016 Seminar Series.

Invited Seminar. St. Paul, Minnesota, February 2016.

National Sustainability Teachers’ Academy, “Can ‘accidental’ wetlands benefit homeless

populations in Phoenix?” Invited presentations. Tempe, Arizona, June 2015 and July 2015.

Integrative Session, “A city is a city is a city? Comparative analyses in urban aquatic systems.”

Invited presentation. Title: The ecosystem functions of ‘accidental’ urban wetlands. Joint Aquatic Sciences Meeting, Portland, Oregon, May 2014.

International Workshop, “Climate-driven changes on coupled terrestrial-aquatic ecological

stoichiometry.” Invited presentation. Title: Nutrient and pathogen loading, cycling, and loss in urban water bodies. Abisko, Sweden, September 2014.

International Conference on Environmental Geochemistry in Tropics—Urban Issues. Invited

presentation. Title: Modeling Denitrification in Brownfield Wetlands: Using Hydrology to Optimize Nitrate Removal in Urban Areas. Xiamen, China, November 2010.

Contributed Presentations (* = coauthor, but not presenter)

2017

McPhillips, L. and **M.M. Palta** (co-presenters). 2017. Hydrologic connectivity and ecosystem services across a range of systems. American Water Resources Association Spring Specialty Conference, Snowbird Utah.

Caulkins, C.C., **Palta, M.M.***, and N.B. Grimm. 2017. Effects of land use on denitrification potential in Oak Creek. Poster presentation at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

Handler, A.M., Suchy, A.K., Grimm, N.B., **Palta, M.M.***, Childers, D.L., and J.C. Stromberg. 2017. Nitrate attenuation pathways and capacity in urban wetlands of Phoenix, Arizona. Poster presentation at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

2016

Suchy, A. K., **Palta, M.M.***, Childers, D.L. and J.C. Stromberg. 2016. “Patterns and predictors of denitrification potentials in ‘accidental’ urban wetlands in Phoenix, Arizona.” Oral presentation at the 101st Annual Meeting of the Ecological Society of America, Ft. Lauderdale, Florida.

Palta, M.M., du Bray, M.V., Stotts, R., Wutich, A. and A. Wolf. 2016. Urban “accidental” wetlands mediate water quality and heat exposure for homeless populations in a desert city. Poster presentation at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

Hartnett, H., van Schajik, M., **Palta, M.***, Ruhi, A. and N. Grimm. 2016. Modeling DOC quantity and quality in Tempe Town Lake: Time-series analysis of a 10-year data set. Poster presentation at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

Handler, A., Suchy, A., Grimm, N.B., **Palta, M.M.***, Childers, D.L., and J.C. Stromberg. 2016. Microbial nitrogen removal in the Salt River wetlands of Phoenix, AZ. Poster presentation at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

2015

Palta, M.M., du Bray, M.V., Stotts, R., Wutich, A. and A. Wolf. 2015. Urban “accidental” wetlands mediate water quality and heat exposure for homeless populations in a desert city. Poster presentation at American Geophysical Union Fall Meeting, San Francisco, California.

Hopkins, K., Morse N., Bain, D., Bettez, N.D., Grimm, N.B., Morse, J.L., and **M. Palta.*** 2015. Urban Growth Trajectories as a Window into Understanding Hydrologic Changes. Oral presentation at American Geophysical Union Fall Meeting, San Francisco, California.

Handler, A., Suchy, A., **Palta, M.M.***, Grimm, N.B., Childers, D.L., and J.C. Stromberg. 2015. Nitrogen removal in urban wetlands of the Salt River Channel in Phoenix, AZ. Poster presentation at the McDowell Sonoran Research Symposium, Scottsdale, Arizona.

Hartnett, H., **Palta, M.***, Ruhi, A., van Schaijik, M., and N. Grimm. A time-series analysis of Tempe Town Lake biogeochemistry. Poster presentation at the LTER All-Scientists Meeting, Estes Park, Colorado.

Palta, M.M., Grimm, N.B., and H. Hartnett. 2015. Pathogen and nutrient pulsing and attenuation in “accidental” urban wetland networks (Phoenix, AZ, USA). Oral presentation at the 5th International HydroEco Conference, Vienna, Austria.

Handler, A., Suchy, A., Grimm, N.B. **Palta, M.M.***, and D.L. Childers. 2015. Hydrologic and chemical connectivity between surface and soils in an urban accidental wetland: Implications for nitrogen removal. Poster presented at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

Suchy, A.K., **Palta, M.M.***, Childers, D.L., and J.C. Stromberg. 2015. Small- and large-scale drivers of denitrification patterns in “accidental” urban wetlands in Phoenix, Arizona. Poster presented at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

2014

Palta, M.M. and N.B. Grimm. 2014. “Nutrient removal by ‘accidental’ urban wetlands in Phoenix, AZ.” Poster presented at the Arizona Riparian Council Meeting, Tucson, Arizona.

Palta, M.M. and N.B. Grimm. 2014. “‘Accidental’ urban wetland networks along the Salt River in Phoenix, Arizona.” Poster presented at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, AZ.

Wolf, A., **Palta, M.M.***, Grimm, N.B., Gwyszcz, J., and O. Schwake. 2014. Ecosystem services and trade-offs mediated by urban water bodies for homeless populations in Phoenix.” Poster presented at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

2013

Palta, M.M. and N.B. Grimm. 2013. “‘Accidental’ urban wetland networks along the Salt River in Phoenix, Arizona.” Poster presented at the American Geophysical Union Fall Meeting, San Francisco, California.

Palta, M.M. and N.B. Grimm. 2013. “Pathogen and nutrient pulsing and attenuation in ‘accidental’ urban wetland networks along the Salt River in Phoenix, Arizona.” Oral presentation at the 98th Annual Meeting of the Ecological Society of America, Minneapolis, Minnesota.

Palta, M.M. and N.B. Grimm. 2013. “‘Accidental’ urban wetland networks along the Salt River in Phoenix, Arizona.” Poster presented at the Arizona Riparian Council Meeting, Phoenix, Arizona.

Hopkins, K.G., N. Morse, R. Smith, D.J. Bain, N.D. Bettez, N. Grimm, J.L. Morse, and **M. Palta***. 2013. “Characterizing hydrologic alterations following urbanization through time and across space among U.S. cities.” Poster presentation at the 98th Annual Meeting of the Ecological Society of America, Minneapolis, Minnesota.

Bishop, A., **M. Palta***, and A. Wutich. 2013. "Water insecurity and health in desert homeless populations." Oral presentation at the 73rd Annual Meeting of the Society for Applied Anthropology, Denver, Colorado.

Palta, M.M. and H.E. Hartnett. 2013. "Assessment of temporal patterns in dissolved organic carbon in Tempe Town Lake." Poster presented at the Central Arizona Project (CAP) LTER All-Scientists Meeting, Phoenix, Arizona.

2012

Palta, M.M., P. Groffman, and S. Findlay. 2012. "Use of nitrogen budgets and N₂ flux measurements to estimate the role of denitrification in brownfield stormwater wetlands." Poster presented at the American Geophysical Union Fall Meeting, San Francisco, California.

Palta, M.M., J.G. Ehrenfeld, and D. Gimenez. 2012. "Soil, texture, and water retention as spatial predictors of denitrification in urban wetlands." Poster presented at the 97th Annual Meeting of the Ecological Society of America, Portland, Oregon.

2009

Palta, M.M. and J.G. Ehrenfeld. 2009. "Denitrification function in brownfield soils: Using texture to predict nitrate removal across an urban riparian landscape." Oral presentation at the Society for Wetland Scientists Annual Conference, Madison, Wisconsin.

2008

Palta, M.M. and J.G. Ehrenfeld. 2008. "Linking form to function: Using soil properties to predict nitrogen removal across an urban riparian landscape." Oral presentation at the American Water Resources Association Summer Specialty Conference: Riparian Ecosystems and Buffers, Virginia Beach, Virginia.

2007

Palta, M.M. and J.G. Ehrenfeld. 2007. "Nitrate removal in urban wetlands: Examining the roles of vegetation, soils, and hydrology in the creation of 'hot spots' and 'hot moments' of microbial activity." Poster presented at the 92nd Annual Meeting of the Ecological Society of America, San Jose, California.

Palta, M.M. and J.G. Ehrenfeld. 2007. "Nitrate removal in urban wetlands: Examining the roles of vegetation, soils, and hydrology in the creation of 'hot spots' and 'hot moments' of denitrification." Poster presented at the 2nd Symposium of the Meadowlands Environmental Research Institute, Lyndhurst, New Jersey.

2004

Palta, M.M., R.R. Sharitz, and J.L. Meyer. 2004. Assessing response in diameter growth of bald cypress (*Taxodium distichum* (L.) Rich) to an altered flow regime. Poster presented at the 89th Annual Meeting of the Ecological Society of America, Portland, Oregon.

Palta, M.M., R.R. Sharitz, and J.L. Meyer. 2004. Assessing response in diameter growth of bald cypress (*Taxodium distichum* (L.) Rich) to an altered flow regime. Poster presented at the 25th Annual Meeting of the Society of Wetland Scientists, Seattle, Washington.

2003

Meyer, J.L., M. Alber, W. Duncan, M. Freeman, V.C. Hale, R. Jackson, K. Lutz, **M. Palta***, E. Richardson, B. Richter, R. Sharitz, and J. Sheldon. 2003. Specifying ecosystem flows for the Savannah River. Poster presented at the 88th Annual Meeting of the Ecological Society of America, Savannah, Georgia.

Palta, M., E. Richardson, and R. Sharitz. 2003. Impact of flow regime on floodplain processes in the Savannah River basin. Paper presented at The Nature Conservancy of Georgia's Savannah River Ecosystem Flows Workshop, Augusta, Georgia.

ACADEMIC MENTORING EXPERIENCE

Undergraduate and graduate students

- Personally hired (using small grant money), trained, and supervised *six undergraduate students* and *three graduate students* to assist me in lab and/or field work at Rutgers University
- Personally hired (using small grant money), trained, and supervised *four undergraduate students* and *one graduate student* to assist me in lab and/or field work at Arizona State University

Undergraduate research projects supervised:

(* = Primary advisor; † = Primary supervisor, ‡ = Committee member)

2016: Corey Caulkins,^{*} NSF REU/SOLUR project, “Measuring patterns of nitrate loading and removal in a desert stream.” School of Life Sciences, Arizona State University

2015: Stephanie Bone,[‡] honor's thesis, “Characterization of DOC in ‘accidental’ urban wetlands in Phoenix, AZ.” School of Earth and Space Exploration, Arizona State University

2013: Marena Sampson,[‡] honor's thesis, “Soil chemical and structural drivers of trace gas emissions from urban patches in Phoenix, AZ.” School of Life Sciences, Arizona State University

2013: Amanda Wolf,^{*} NSF REU project, “Ecosystem Services and Trade-Offs Mediated by Urban Water Bodies for Homeless Populations in Phoenix.” School of Life Sciences, Arizona State University

2012: Daniela Panfil,^{*} honor's thesis, “Analysis of Nitrogen Uptake in a Duckponics System.” School of Sustainability, Arizona State University

2012: Amada Hernandez,^{*} NSF REU/WAESO project, “Nutrient and Pathogen Removal in Wetland Areas Downstream of Storm and Wastewater Discharge.” School of Life Sciences, Arizona State University

2008: Jonathan LaFond,[†] independent research. “Quantification of the labile and recalcitrant organic matter fractions of a recently developed urban wetland soil through NaI density fractionation.” Department of Ecology and Evolution, Rutgers University

2007: Chidimma Ibeh,[†] independent research. “Denitrification in relation to vegetation in the Raritan River floodplain.” Department of Ecology and Evolution, Rutgers University

Graduate research projects supervised

2013: Julie Gwiszcz, CAP LTER project, “Use of ‘Accidental’ Urban Wetlands by Homeless Populations in a Desert City.” School of Human Evolution and Social Change, Arizona State University

WORKSHOP PARTICIPATION

November 2014-present (ongoing). Sustainable Future Scenarios for Phoenix, Arizona (facilitator). Arizona State University, Tempe, AZ

August 31-September 2, 2015. Long Term Ecological Research (LTER) Network All-Scientists Meeting (NSF). “From Long-term Data to Understanding: Toward a Predictive Ecology”; *Co-organizer of Working Group*: “Using long-term data to examine above- and below-ground interactions across a gradient of human influence in diverse ecosystems.” Estes Park, CO

September 7-12, 2014. Strategic International Workshop: “Climate-driven changes on coupled terrestrial-aquatic ecological stoichiometry.” Abisko Field Station, Abisko, Sweden

January 18-20, 2013. Urban Aquatic Ecosystems Working Group (LTER) (co-organizer). Arizona State University, Tempe, AZ

September 10-13, 2012. Long Term Ecological Research (LTER) Network All-Scientists Meeting (NSF). “The Unique Role of the LTER Network in the Anthropocene: Collaborative Science Across Scales”; Estes Park, CO

May 12-19, 2009. Denitrification Research Coordination Network (NSF). “Managing Denitrification in Human-Dominated Landscapes”; The Coastal Institute, University of Rhode Island, Narragansett, RI

May 5-7, 2009. Cary Conference XIII. “Effective Communication of Science in Environmental Controversies”; Cary Institute of Ecosystem Studies, Millbrook, NY

May 27-30, 2008. Denitrification Research Coordination Network (NSF). “Advancing Methods for Measuring Denitrification in Terrestrial and Aquatic Systems”; Horn Point Laboratory, Cambridge, MD

April 1-3, 2003. Savannah River Basin Ecological Flow Workshop (The Nature Conservancy and US Army Corps of Engineers); Augusta, GA

PROFESSIONAL SERVICE

Extramural Reviewer for Funding Agencies: National Science Foundation, ESA Graduate Student Travel Grant Program

Reviewer for Journals: *Biogeochemistry, Chemical Engineering Journal, Ecosphere, Ecological Engineering, Water*

2015. FameLab participant (science communication event at Phoenix ComicCon).

2012–2016. Volunteer for public outreach events at Arizona State University (School of Earth and Space Exploration).

2008–2011. Graduate fundraising committee for the Rutgers Department of Ecology & Evolution Graduate Program.

2007–2011. Committee for Rutgers Ecology & Evolution Graduate Program Eminent Ecologist Seminar.

2006–2009. Graduate student representative to the faculty, Department of Ecology and Evolution, Rutgers University.

HONORS AND AWARDS

ASU School of Earth and Space Exploration Postdoctoral Fellowship – 2014–2016

ASU New American University Postdoctoral Fellowship – 2012–2014

EPA STAR Fellowship – 2006–2009

Rutgers University Life Sciences Fellowship – 2005–2006

Society for Wetland Scientists Graduate Student Travel Award – 2004

University of Georgia Graduate School University-Wide Assistantship – 2002–2004

Phi Beta Kappa – 2000

Grinnell College Dean's List – 1996, 1997

Grinnell Trustee Honor Scholarship – 1996–2000