

WILLIAM E. PETERMAN

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PROFESSIONAL EXPERIENCE

- 2015–present *Assistant Professor of Wildlife Ecology and Management*, School of Environment and Natural Resources, The Ohio State University
- 2014–2015 *Postdoctoral Research Associate*, Illinois Natural History Survey, Prairie Research Institute, University of Illinois, Champaign, IL
- 2013–2014 *Postdoctoral Fellow*, Division of Biological Sciences, University of Missouri, Columbia, MO

EDUCATION

Degrees

- 2013 **Ph.D.** University of Missouri, Division of Biological Sciences; Columbia, MO (Advisors: Raymond Semlitsch and Lori Eggert)
- 2008 **M.A.** University of Missouri, Division of Biological Sciences; Columbia, MO (Advisor: Raymond Semlitsch)
- 2005 **B.S.** Butler University, Department of Biological Sciences; Indianapolis, IN (High Honors)

Certificates / Training

- 2012–2013 Preparing future faculty, University of Missouri
- 2008 Graduate certificate in GIS technologies, University of Missouri

RESEARCH INTERESTS

Distribution / Abundance Modeling	Conservation Biology	Ecophysiology
Global Climate Change Biology	Landscape Ecology	Landscape Genetics
Network / Graph Theory	Spatial Population Dynamics	Urban Ecology

PUBLICATIONS (Undergraduate underlined; *Graduate student; **Corresponding author, when not lead)

Peer Reviewed

- 2020 Salces-Castellano, A., J. Patiño, N. Alvarez, C. Andújar, P. Arribas, J.J. Braojos-Ruiz, M. del Arco-Aguilar, V. García-Olivares, D. Karger, H. López, I. Manolopoulou, P. Oromí, A.J. Pérez-Delgado, **W.E. Peterman**, K.F. Rijdsdijk, and B.C. Emerson. Microclimate drives recurrent community-wide incipient speciation in an oceanic island. *Ecology Letters*. DOI: 10.1111/ele.13433
- 2020 Winiarski, K.J., A.R. Whiteley, **W.E. Peterman**, K. McGarigal. Multi-scale resistant kernel surfaces derived from inferred gene flow: An application with vernal pool breeding amphibians. *Molecular Ecology Resources*
- 2019 Gade, M.R.*, P.R. Gould*, and **W.E. Peterman**. Habitat-dependent responses of terrestrial salamanders to wildfire in the short-term. *Forest Ecology and Management* 449:117479.
- 2019 **Peterman, W.E.**, K.J. Winiarski, C.E. Moore*, C. da Silva Carvahlo, A.L. Gilbert*, S.F. Spear. A comparison of popular approaches to optimize landscape resistance surfaces. *Landscape Ecology* 34:2197–2208.
- 2019 Gade, M.R.* and **W.E. Peterman**. Multiple environmental gradients influence the distribution and abundance of a key forest-health indicator species in the Southern Appalachian Mountains. *Landscape Ecology* 34:569–582.

- 2018 **Peterman, W.E.** ResistanceGA: An R package for the optimization of resistance surfaces using genetic algorithms. *Methods in Ecology and Evolution* 9:1638–1647.
- 2018 **Peterman, W.E.**, T.L. Anderson, B.H. Ousterhout, D.L. Drake, F.E. Rowland, J.J. Burkhart, and R.D. Semlitsch. Using spatial demographic network models to optimize habitat management decisions. *Journal of Wildlife Management* 82:649–659.
- 2017 Crawford, J.A., C.A. Phillips, **W.E. Peterman**, I.E. MacAllister, N.A. Wesslund, A.R. Kuhns, and M.J. Dreslik. Seasonal dynamics of chytrid infection in amphibians on military and public lands in the Midwestern United States. *Journal of Fish and Wildlife Management* 8:344–352.
- 2017 Khimoun, A, **W.E. Peterman**, C. Eraud, B. Faivre, N. Navarro, and S. Garnier. Landscape genetic analyses reveal fine-scale effects of forest fragmentation in an insular tropical bird. *Molecular Ecology* 26:4906–4919.
- 2017 **Peterman, W.E.** and M. Gade*. The importance of assessing parameter sensitivity when using biophysical models: A case study with a plethodontid salamander. *Population Ecology* 59:275–286.
- 2017 Rhoden, C.M.*, **W.E. Peterman**, C.A. Taylor. Maxent-directed field surveys identify new populations of narrowly endemic habitat specialists. *PeerJ* 5:e3632.
- 2017 Burkhart, J.J.*, **W.E. Peterman**, E.R. Brocato, K. Romine, M.M. Willis, B.H. Ousterhout, T.L. Anderson, D.L. Drake, F. Rowland, R.D. Semlitsch, and L.S. Eggert. The influence of breeding phenology on the genetic structure of four pond-breeding salamanders. *Ecology and Evolution* 7:4670–4681.
- 2016 Crawford, J.A. **W.E. Peterman**, A.R. Kuhns, and L.S. Eggert. Influence of pond occupancy and connectivity on metapopulation genetic structure of a threatened salamander in an agroecosystem. *Landscape Ecology* 31:2231–2244.
- 2016 **Peterman, W.E.**, J.A. Crawford, and D.J. Hocking. Effects of elevation on plethodontid salamander body size. *Copeia* 104:202–208.
- 2016 Rhoden, C.M.*, C.A. Taylor, and **W.E. Peterman**. Highway to heaven? Roadsides as preferred habitat for two narrowly endemic crayfish. *Freshwater Science* 35:974–983.
- 2016 Anderson, T.L., B.H. Ousterhout, D.L. Drake, J.J. Burkhart, F. Rowland, **W.E. Peterman**, and R.D. Semlitsch. Differences in larval allometry among three ambystomatid salamanders. *Journal of Herpetology* 50:464–470.
- 2016 Connette, G.M., M.S. Osbourn, and **W.E. Peterman**. Distribution of a stream-breeding salamander, *Desmognathus ocoee*, in terrestrial habitat underscores the ecological importance of low-order streams. *Copeia* 104:149–156.
- 2016 **Peterman, W.E.**, E.R. Brocato, R.D. Semlitsch, and L.S. Eggert. Reducing bias in population and landscape genetic inferences: The effects of sampling related individuals and multiple life stages. *PeerJ* 4:e1813.
- 2016 Milanovich, J.R. and **W.E. Peterman**. Burton and Likens revisited: Examining the spatial variation of the standing crop of nutrients within a terrestrial salamander in a forest ecosystem. *Copeia* 104:165:171.
- 2016 Villemey, A., **W.E. Peterman**, M. Richard, A. Ouin, I. Van Halder; V.M. Stevens, M. Baguette, P. Roche, F. Archaux. Butterfly dispersal in farmland: a replicated landscape genetics study on the meadow brown butterfly (*Maniola jurtina*). *Landscape Ecology* 31:1629–1641.
- 2016 **Peterman, W.E.**, T.L. Anderson, D.L. Drake, B.H. Ousterhout, and R.D. Semlitsch. Assessing modularity in genetic networks to manage spatially structured metapopulations. *Ecosphere* 7:e01231

- 2016 Ruiz-Lopez, M.J., C. Barelli, F. Rovero, K. Hedges, C. Roos, **W.E. Peterman****, and N. Ting. A novel landscape genetic approach demonstrates the effects of human disturbance on the Udzungwa red colobus monkey (*Procolobus gordonorum*). *Heredity* 116:167–176.
- 2015 Anderson, T.L., J.L. Heemeyer, **W.E. Peterman****, B.H. Ousterhout, D.L. Drake, and R.D. Semlitsch. Using Thermochron iButton temperature data loggers to measure hydroperiod of vernal wetlands. *Wetlands Ecology and Management* 23:1039–1047.
- 2015 Anderson, T.L., B.H. Ousterhout, **W.E. Peterman**, D.L. Drake, and R.D. Semlitsch. Life history differences influence the impacts of drought on aquatic survival and occupancy of two pond-breeding salamanders. *Ecological Applications* 25:1896–1910.
- 2015 Ousterhout, B.H., T.L. Anderson, D.L. Drake, **W.E. Peterman**, and R.D. Semlitsch. Habitat traits and species interactions differentially affect abundance and body size in pond-breeding amphibians. *Journal of Animal Ecology* 84:914–924.
- 2015 Connette, G.M., J.A. Crawford, and **W.E. Peterman**. Climate change and shrinking salamanders: Alternative mechanisms for changes in plethodontid salamander body size. *Global Change Biology* 21:2834–3843.
- 2015 Milanovich, J.R., D.J. Hocking, **W.E. Peterman**, and J.A. Crawford. Effective use of trails for assessing terrestrial salamander abundance and detection: A case study at Great Smoky Mountains National Park. *Natural Areas Journal* 35:590–598
- 2015 Drake, D.L., B.H. Ousterhout, C.D. Shulse, D.J. Hocking, **W.E. Peterman**, T.A. Anderson, K.L. Lohraff, C.A. Conner, E.H. Harper, J.R. Johnson, T.A.G. Rittenhouse, B.B. Rothermel, L.S. Eggert, and R.D. Semlitsch. Pond-breeding amphibian community composition in Missouri. *American Midland Naturalist* 174:180–187.
- 2015 Semlitsch, R.D., **W.E. Peterman**, T.L. Anderson, D.L. Drake, and B.H. Ousterhout. Diversity, abundance, and disturbance relationships for pond-breeding amphibians. *PLoS ONE* 10:e0123055.
- 2015 Anderson, T.L., D.J. Hocking, C.A. Conner, J.E. Earl, E.B. Harper, M.J. Osbourn, **W.E. Peterman**, T.A.G. Rittenhouse, and R.D. Semlitsch. The influence of priority effects on metamorph traits and recruitment of two pond-breeding salamanders. *Oecologia*. 17:761–773. (cover photo)
- 2015 **Peterman, W.E.**, T.L. Anderson, B.H. Ousterhout, D.L. Drake, R.D. Semlitsch, and L.S. Eggert. Differential dispersal shapes population structure and patterns of genetic differentiation in two sympatric pond breeding salamanders. *Conservation Genetics* 16:59–69.
- 2014 **Peterman, W.E.** and R.D. Semlitsch. Spatial variation in water loss predicts terrestrial salamander distribution and population dynamics. *Oecologia* 176:357–369.
- 2014 **Peterman, W.E.**, G.M. Connette, R.D. Semlitsch, and L.S. Eggert. Ecological resistance surfaces predict fine scale genetic differentiation in a terrestrial woodland salamander. *Molecular Ecology* 23:2402–2413.
- 2014 Ryan, T.J., **W.E. Peterman**, J.D. Stephens, and S.C. Sterrett. Movements and habitat use of the snapping turtle in an urban landscape. *Urban Ecosystems* 17:613–623.
- 2014 Mackey, M.J., G.M. Connette, **W.E. Peterman**, and R.D. Semlitsch. Do golf courses reduce the ecological value of headwater streams for salamanders in the Appalachian Mountains? *Landscape and Urban Planning* 125:17–27.
- 2014 **Peterman, W.E.**, T.L. Anderson, D.L. Drake, B.H. Ousterhout, and R.D. Semlitsch. Maximizing pond biodiversity across the landscape: a case study of larval ambystomatid salamanders. *Animal Conservation* 17:275–285.
- 2013 Crawford, J.A. and **W.E. Peterman**. Biomass and habitat partitioning of *Desmognathus* on wet rock-faces in the southern Appalachian Mountains. *Journal of Herpetology* 47:580–584.

- 2013 **Peterman, W.E., L.R. Pauley, E.R. Brocato, E.C. Stuart, R.D. Semlitsch, and L.S. Eggert.** Development and characterization of twenty-two microsatellite loci for the ringed salamander (*Ambystoma annulatum*) using paired-end Illumina shotgun sequencing. *Conservation Genetics Resources*. 5:993–995.
- 2013 **Peterman, W.E., E.R. Brocato, L.R. Pauley, E.C. Stuart, R.D. Semlitsch, and L.S. Eggert.** Development and characterization of eighteen microsatellite loci for the spotted salamander (*Ambystoma maculatum*) using paired-end Illumina shotgun sequencing. *Conservation Genetics Resources* 5:989–991.
- 2013 **Peterman, W.E., T.A.G Ritenhouse, J.E. Earl, and R.D. Semlitsch.** Demographic network and multi-season occupancy modeling of *Rana sylvatica* reveal spatial and temporal patterns of population connectivity and persistence. *Landscape Ecology* 28:1601–1613.
- 2013 **Peterman, W.E. and R.D. Semlitsch.** Fine-scale habitat associations of a terrestrial salamander: The role of environmental gradients and implications for population dynamics. *PLoS ONE* 8: e62184.
- 2013 Gifford, M. E., T. A. Clay, and **W. E. Peterman.** The effects of temperature and activity on intraspecific scaling of metabolic rates in a lungless salamander. *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology* 319:230–236.
- 2013 **Peterman, W.E., J.L. Locke, and R.D. Semlitsch.** Spatial and temporal patterns of water loss in heterogeneous landscapes: Using plaster models as amphibian analogues. *Canadian Journal of Zoology* 91:135–140.
- 2013 **Peterman, W.E., J.A. Crawford, and A.R. Kuhns.** Using species distribution and occupancy modeling to guide survey efforts and assess species status. *Journal for Nature Conservation* 2:114–121.
- 2013 **Peterman, W.E., S.M. Feist, R.D. Semlitsch, and L.S. Eggert.** Conservation and management of peripheral populations: Spatial and temporal influences on the genetic structure of wood frog (*Rana sylvatica*) populations. *Biological Conservation* 158:351–358.
- 2013 Hocking, D.J., G.M. Connette, C.A. Conner, B.R. Scheffers, S.E. Pittman, **W.E. Peterman, R.D.Semlitsch.** Effects of experimental forest management on a terrestrial, woodland salamander in Missouri. *Forest Ecology and Management*. 287:32–39.
- 2013 Spatola, B.N., W.E. Peterman*, G.M. Connette, N.T. Stephens, D.B. Shepard, K.H. Kozak, R.D. Semlitsch, and L.S. Eggert. Development of microsatellite loci for the western slimy salamander (*Plethodon albagula*) using 454 sequencing. *Conservation Genetics Resources* 5:267–270.
- 2012 **Peterman, W.E., G.M. Connette, B.N. Spatola, L.S. Eggert, and R.D. Semlitsch.** Transferability of microsatellite loci: Identification of polymorphic loci in *Ambystoma annulatum* and review of cross-species microsatellite use in the genus *Ambystoma*. *Copeia*. 2012:570–577.
- 2012 Belden, L.K., **W.E. Peterman**, S.A. Smith, L.R. Brooks, E.F. Benfield, W. Black, Z. Yang, and J.M. Wojdak. *Metagonimoides oregonensis* (Digenea, Heterophyidae) infection in *Desmognathus quadramaculatus* salamander larvae. *Journal of Parasitology*. 98:760–767.
- 2012 Milanovich, J.R., **W.E. Peterman**, K. Barrett, M. Hopton. Do species distribution models predict species richness in urban and natural green spaces? A case study using amphibians. *Landscape and Urban Planning*. 107:409–418.
- 2011 **Peterman, W.E., J.A. Crawford, and R.D. Semlitsch.** Effects of even-aged timber harvest on stream salamanders: Support for the evacuation hypothesis. *Forest Ecology and Management* 262:2344–2353.
- 2011 Osbourn, M.S., D.J. Hocking, C.A. Conner, **W.E. Peterman**, and R.D. Semlitsch. Use of fluorescent visible implant Alphanumeric tags to individually mark juvenile ambystomatid salamanders. *Herpetological Review* 42:43–47.
- 2010 Milanovich, J.R., **W.E. Peterman**, N.P. Nibbelink, and J.C. Maerz. Projected loss of a salamander diversity hotspot as a consequence of projected global climate change. *PLoS ONE* 5:e12189.

- 2009 **Peterman, W.E.** and T.J. Ryan. Basking behavior of Emydid turtles (*Chrysemys picta*, *Graptemys geographica*, and *Trachemys scripta*) in an urban landscape. *Northeastern Naturalist* 16: 629–636.
- 2009 Camp, C.D., **W.E. Peterman**, J. Milanovich, T. Lamb, J.C. Maerz, and D.B. Wake. A new genus and species of lungless salamander (family Plethodontidae) from the Appalachian highlands of the south-eastern United States. *Journal of Zoology* 279: 86–94.
- 2009 **Peterman, W.E.** and R.D. Semlitsch. Efficacy of riparian buffers in mitigating local population declines and the effects of even-aged timber harvest on larval salamanders. *Forest Ecology and Management* 257: 8–14.
- 2008 **Peterman, W.E.**, J.A. Crawford, and R.D. Semlitsch. Productivity and significance of headwater streams: population structure and biomass of the black-bellied salamander (*Desmognathus quadramaculatus*). *Freshwater Biology* 53: 347–357. (cover photo)
- 2008 **Peterman, W.E.** and S.C. Truslow. Density estimation of larval *Eurycea wilderae*: a comparison of mark–recapture and depletion sampling. *Herpetological Review* 39: 438–441.
- 2007 **Peterman, W. E.** *Gyrinophilus porphyriticus danielsi* (blue-ridge spring salamander) and *Desmognathus monticola* (seal salamander). Predation/regurgitation. *Herpetological Review* 38: 433.
- 2006 **Peterman, W.E.** and R.D. Semlitsch. Effects of tricaine methanesulfonate (MS–222) concentration on anesthetization and recovery in four Plethodontid salamanders. *Herpetological Review* 37: 303–304.

Book Sections

- 2016 Rittenhouse, T.A.G., and **W.E. Peterman**. Connectivity of Wetlands. Pages 1-12 in C. M. Finlayson, M. Everard, K. Irvine, R. J. McInnes, B. A. Middleton, A. A. van Dam, and N. C. Davidson, editors. *The Wetland Book: I: Structure and Function, Management and Methods*. Springer Netherlands, Dordrecht.
- 2016 Rittenhouse, T.A.G., and **W.E. Peterman**. Source-Sink Dynamics of Wetlands. Pages 1-8 in C. M. Finlayson, M. Everard, K. Irvine, R. J. McInnes, B. A. Middleton, A. A. van Dam, and N. C. Davidson, editors. *The Wetland Book: I: Structure and Function, Management and Methods*. Springer Netherlands, Dordrecht.

Reports

- 2015 Eggert, L.S., R.D. Semlitsch, T.L. Anderson, J.J. Burkhart, A. Messerman, B. Ousterhout, **W.E. Peterman**, F.E. Rowland. Multi-Scale Approach to Understanding Source-Sink Dynamics of Amphibians. SERDP RC-2155

Popular Articles

- 2014 Semlitsch, R.D, **W.E. Peterman**, L.S. Eggert. Understanding the complex spatial and temporal variation in source-sink dynamics of salamanders. *Natural Selections: Department of Defense Natural Resources Programs*, Fall 2014.
- 2013 Semlitsch, R.D., T.L. Anderson, D.L. Drake, B.H. Ousterhout, **W.E. Peterman**, and C.D. Shulse. Small, clustered wetlands promote amphibian persistence. *National Wetlands Newsletter*, volume 35, number 5

Under Revision / Review

- Winiarski, K.J., **W.E. Peterman**, K. McGarigal. Evaluation of the R package ‘ResistanceGA’: A promising approach towards the accurate optimization of landscape resistance surfaces
- Dreslik, M.J., J.A. Crawford, S.J. Baker, **W.E. Peterman**, and C.A. Phillips. Factors affecting the detection and capture yield of an imperiled and cryptic species.
- D’Amore, A.A, K.C. Donlon*, A.H. Hoffman*, and **W.E. Peterman**. Evaluation of DNA extracted from timber rattlesnake (*Crotalus horridus*) cloacal and blood swabs for microsatellite genotyping.

GRANTS AND AWARDS

External Awards—\$2,051,865

- 2019 National Parks Service: Great Smoky Mountains National Park. “Effects of Wildfire on Salamander Populations in Great Smoky Mountains National Park”. Natural Resource Preservation Program, FY2019. Co-PI with D.J. Hocking, J.A. Crawford, and J.R. Milanovich
- 2019 World Wildlife Fund, Sall Family Foundation. “Identifying Key Wildlife Movement Corridors in Myanmar’s Tanintharyi Region.”
- 2018–2021 Ohio Department of Transportation: RFP Solicitation Number: 2019-05. “Eastern Massasauga Rattlesnake: Ohio Population Survey and Survey Technique Development.” Co-PI with G.Lipps.
- 2018–2019 Herpetologists’ League Raymond D Semlitsch Research Award. “The Genetics and Demographics of Amphibian Population Translocation.”
- 2018 Appalachian Highlands Science and Learning Center Research Program. “Effects of Wildfire on Salamander Populations in Great Smoky Mountains National Park.” Co-PI with D.J. Hocking, J.A. Crawford, and J.R. Milanovich.
- 2017 Great Smoky Mountains Conservation Association. “Short-term Effects of Wildfire on Salamander Populations in Great Smoky Mountains National Park.” Co-PI with D.J. Hocking, J.A. Crawford, and J.R. Milanovich.
- 2016–2022 Ohio Division of Wildlife (State Wildlife Grant via USFWS). “Forest management effects on the population ecology of Timber Rattlesnakes (*Crotalus horridus*).”
- 2016–2018 Illinois Department of Natural Resources (State Wildlife Grant via USFWS). “Distribution, abundance, and recruitment of amphibian SGNC from the Vermilion River Conservation Opportunity Area.” With A.R. Kuhns, J.A. Crawford, and C.A. Phillips.
- 2011–2015 Department of Defense (Strategic Environmental Research and Development Program). “Multi-scale approach to understanding source-sink dynamics of amphibians” With R.D. Semlitsch and L.S. Eggert.
- 2012–2013 National Geographic Society (Waite Grant). Climate change effects on elevational distributions of salamanders in Great Smoky Mountains National Park. With J.A. Crawford, J.R. Milanovich, and D.J. Hocking.
- 2009–2011 U.S. Army Corps of Engineers (Construction Engineering Research Laboratory). “Occupancy and detectability of chytrid fungus (*Batrachochytrium dendrobatidis*) in amphibian populations on U.S. military installations” With C.A. Phillips, J.A. Crawford, and M.J. Lannoo.
- 2006–2007 United States Forest Service (Southern Research Station Grant). “Beyond the edge: effects of riparian zone width on stream salamanders in the southern Appalachian mountains”. With J.A. Crawford and R.D. Semlitsch.

Internal Awards—\$47,300

- 2010–2012 University of Missouri Research Board. “Does landscape connectivity predict genetic structure?” With R.D. Semlitsch and L.S. Eggert.

Graduate Awards—\$23,557

- 2012–2013 Theodore Roosevelt Memorial Grant. “Effects of genetic diversity on growth, survival, and performance in wood frogs (*Rana sylvatica*)”
- 2012 Douglas D. Randall Young Scientist Development Fund. “The ties that bind: Fine scale habitat associations of terrestrial salamanders and implications for population dynamic”
- 2012–2013 Trans World Airlines Scholarship. “Growth, survival, and performance in peripheral wood frog (*Rana sylvatica*) populations”

- 2010 Best student poster, 2010 Midwest Fish & Wildlife Conference. “Using graph theory and occupancy modeling to assess population connectivity and persistence of Missouri wood frogs”
- 2009–2010 Prairie Biotic Research Grant. “From wasteland to prairie land: impacts of prairie restoration and management of reclaimed surface mines on crawfish frogs populations and amphibian species richness”
- 2008 Highlands Biological Station Research Grant. “Effects of Riparian Logging on Allelic Diversity of Plethodontid Salamanders”
- 2007–2008 Chicago Herpetological Society Research Grant. “Road effects on stream salamander assemblages in the southern Appalachian mountains”
- 2005–2007 Highlands Biological Station Research Grant. “Effects of Riparian Buffer Width on Larval Salamander Population Dynamics”

PROFESSIONAL WORKING GROUPS

- 2008 Appalachian salamander conservation working group. Hosted by Smithsonian’s National Zoological Park, Front Royal, VA

PRESENTATIONS

Invited

- 2019 Department of Biology Seminar Series, Grand Valley State University, Allendale, MI
- 2019 Ohio Wildlife Diversity Conference. Columbus, OH
- 2018 Landscape Genetics: Interdisciplinary Approach to Understanding the Intersection between Landscape Ecology and Population Genetics, Organized Symposia at The Ecology Society of America Conference, New Orleans, Louisiana
- 2018 Forestry and Wildlife Seminar Series, University of Kentucky, Lexington, KY
- 2018 Ohio Fish and Wildlife Management Association Conference. Ohio State University, Columbus, OH
- 2017 Biology Seminar Series, invited guest of the Biological Organization of Graduate Students. Eastern Kentucky University, Richmond, KY
- 2017 Biological Sciences Seminar Spring Series. Ohio University, Athens, OH
- 2016 Response of Amphibians and Reptiles to Anthropogenic Disturbance, Organized Symposia at The Wildlife Society Conference, Raleigh, North Carolina
- 2016 Department of Biology Seminar Series. John Carroll University, Cleveland, OH.
- 2016 Ecology, Evolution, and Environmental Biology Seminar Series. Miami University, Oxford, OH
- 2015 Ecology, Evolution, and Organismal Biology Seminar Series. The Ohio State University, Columbus, OH
- 2015 Application of Network Models in Wildlife Ecology, Organized Symposia at The Wildlife Society Conference, Winnipeg, Canada
- 2014 Illinois State Museum Researcher Seminar Series, Springfield, IL
- 2014 Program in Ecology, Evolution, and Conservation Biology Seminar Series. University of Illinois at Urbana-Champaign
- 2014 Wildlife Seminar Series. Auburn University, Auburn, AL
- 2014 Biology Seminar Series. Butler University, Indianapolis, IN
- 2013 Ecology, Evolution, and Behavior Seminar. University of Missouri, Columbia, MO

- 2010 Natural Areas Conference; Osage Beach, MO. Special Symposia on ecological genetics.
- 2009 Midwest Herpetological Symposium; Chicago, IL
- Oral Presentations** – (presented)
- 2019 **Peterman, W.E.**, Hoffman, A.*, A. Tutterow*. Timber Rattlesnakes in Ohio’s Forestry Lands. Ohio Biodiversity Conservation Partnership Research Review; Columbus, OH
- 2019 **Peterman, W.E.**, S. Matthews, and M. Graziano. Factors Affecting Functional Landscape Connectivity in a Pool Breeding Amphibian Community. The Wildlife Society Conference; Reno, NV
- 2019 **Peterman, W.E.** Improvements in landscape resistance modeling: accounting for heterogeneity in population size. United States International Association for Landscape Ecology Annual Conference, Fort Collins, CO.
- 2019 **Peterman, W.E.**, A. Hoffman, and A. Tutterow. Forest management and timber rattlesnakes: a thermal landscape perspective. Midwest Fish and Wildlife Conference; Cleveland, OH.
- 2018 **Peterman, W.E.**, K. Winiarski, and K. McGarigal. Understanding how landscape features affect gene flow: Advances in resistance surface optimization for landscape genetic studies. The Wildlife Society Conference, Cleveland, OH.
- 2018 **Peterman, W.E.**, K. Winiarski, and K. McGarigal. Understanding how landscape features affect gene flow: advances in resistance surface optimization for landscape genetic studies. US-IALE Annual Conference, Chicago, IL.
- 2017 **Peterman, W.E.**, A. Hoffman, and A. Tutterow. Forest management and timber rattlesnakes: a thermal landscape perspective. Annual Ohio Biodiversity Conservation Partnership Research Review; Columbus, OH.
- 2017 **Peterman, W.E.**, A. Hoffman. Timber rattlesnake habitat use and selection: a thermal landscape perspective. The Wildlife Society Conference, Albuquerque, NM.
- 2017 **Peterman, W.E.**, R. Schondelmeyer. The role of genetic diversity and stress on growth and survival in wood frogs. Joint Meeting of Ichthyologists & Herpetologists, Austin, TX.
- 2016 **Peterman, W.E.** Effects of climate change on *Plethodon shermani*. Special Conference on the Biology of Plethodontid Salamanders. Highlands, North Carolina.
- 2015 **Peterman, W.E.** et al. Implementing source-sink models for management recommendations. Ecological Society of America; Baltimore, MD (Ignite format)
- 2014 **Peterman, W.E.** Maximizing genetic and demographic connectivity of ringed salamanders. Ringed Salamander Symposium, University of Missouri, Columbia, MO
- 2014 **Peterman, W.E.** Abundance, physiology, and population dynamics: Fine-scale landscape genetics of a terrestrial salamander. 6th Conference on the Biology of Plethodontid Salamanders, Tulsa, OK
- 2012 **Peterman, W.E.**, R.D. Semlitsch. The ties that bind: Fine scale habitat associations of terrestrial salamanders and implications for population dynamics. Ecological Society of America; Portland, OR
- 2011 **Peterman, W.E.**, T.A. Rittenhouse, J.E. Earl, and R.D. Semlitsch. Patterns in time and space: Population connectivity and persistence of Missouri wood frogs. Missouri Herpetological Society Meeting; Reis Biological Station, MO
- 2011 **Peterman, W.E.**, T.A. Rittenhouse, J.E. Earl, and R.D. Semlitsch. Patterns in time and space: Population connectivity and persistence of Missouri wood frogs. Ecological Society of America; Austin, TX
- 2008 **Peterman, W.E.** Effects of riparian buffer width on stream salamander populations in the Southern Appalachian Mountains. Ecology seminar series; University of Missouri

2007 **Peterman, W.E.**, J.A. Crawford, and R.D. Semlitsch. Productivity and significance of headwater streams: population structure and biomass of the black-bellied salamander (*Desmognathus quadramaculatus*). 5th Conference on the Biology of Plethodontid Salamanders; San Cristobal de las Casas, Mexico

Poster Presentations – (presented)

- 2014 **Peterman, W.E.** et al. Landscape Effects on Amphibian Species Richness and Wetland Conservation Coefficients. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN
- 2014 **Peterman, W.E.** Abundance, physiology, and population structure: fine-scale landscape genetics of a terrestrial salamander. Prairie Lighting Symposium, Prairie Research Institute, University of Illinois, Champaign, IL
- 2013 **Peterman, W.E.**, R.D. Semlitsch, and L.S. Eggert. Abundance, physiology, and population structure: Fine-scale landscape genetics of a terrestrial salamander. Ecological Society of America, Minneapolis, MN
- 2013 **Peterman, W.E.** et al. Patterns in time and space: Using graph theory and occupancy modeling to assess population connectivity and persistence of Missouri wood frogs. Midwest Fish and Wildlife Conference; Minneapolis, MN (**Best student poster**)
- 2010 Crawford, J.A., **W.E. Peterman**, and A.R. Kuhns. Assessing the distribution of a secretive species using ecological niche and occupancy models. Southeast PARC Meeting; Ocala, FL
- 2008 **Peterman, W.E.** and T.J. Ryan. Movement and habitat use of the common snapping turtle in an urban landscape. 2008. Midwest Fish and Wildlife Conference; Columbus, OH
- 2008 Crawford, J.A., A.R. Kuhns, and **W.E. Peterman**. Using ecological niche modeling to prioritize sampling areas for Jefferson salamanders in Illinois. Midwest Fish and Wildlife Conference; Columbus, OH
- 2008 **Peterman, W.E.**, R.D. Semlitsch, and J.A. Crawford. Effects of riparian buffer width on stream salamander populations. Southeastern Partners for Amphibian and Reptile Conservation; Athens, GA
- 2008 Camp, C.D., **W.E. Peterman**, J. Milanovich, T. Lamb, J.C. Maerz, and D.B. Wake. A new, tiny salamander from the Appalachian foothills in northern GA, Southeastern Partners for Amphibian and Reptile Conservation; Athens, GA
- 2007 Camp, C.D., **W.E. Peterman**, J. Milanovich, T. Lamb, J.C. Maerz, and D.B. Wake. A new, tiny salamander from the Appalachian foothills in northern GA, 5th Conference on the Biology of Plethodontid Salamanders; San Cristobal de las Casas, Mexico

Oral Presentations – (student presented; undergraduate student; *graduate student)

- 2019 Gade, M.R.* and **W.E. Peterman**. Multiple environmental gradients influence the distribution and abundance of a key forest-health indicator species in the Southern Appalachian Mountain. United States International Association for Landscape Ecology Annual Conference, Fort Collins, CO.
- 2019 Gould, P.R.*. Evaluating Stream Salamander Distribution and Abundance Using a Community N-Mixture Model. The Wildlife Society Conference; Reno, NV.
- 2019 Wilk, A.J., K.C. Donlon, and **W.E. Peterman**. Effects of habitat reduction on urban salamander populations. Ohio Partners in Amphibian and Reptile Conservation Conference, Columbus, OH.
- 2019 Hoffman, A.S.*, A.M. Tutterow*, and **W.E. Peterman**. Habitat use and survival of timber rattlesnakes in Ohio's forestry lands. Ohio Partners in Amphibian and Reptile Conservation Conference, Columbus, OH.
- 2018 Graziano, M.P.*, **W.E. Peterman**, and S. Matthews. Forest communities and amphibians: linking trees to colonization. The Wildlife Society Conference, Cleveland, OH.

- 2018 Wilk, A., K. Donlon*, and W.E. Peterman. Effects of habitat patch size on the abundance of red-backed salamanders (*Plethodon cinereus*). Denman Undergraduate research Forum, The Ohio State University
- Poster Presentations – (student presented; undergraduate student; *graduate student)**
- 2019 Amber, E*, G. Lipps, and **W.E. Peterman**. Applying AHDrift to Survey for the Eastern Massasauga Rattlesnake in Northern Ohio. The Wildlife Society Conference; Reno, NV
- 2019 Hoffman, A. *, A. Tutterow*, and **W.E. Peterman**. Habitat Use and Survival of Timber Rattlesnakes in Ohio’s Forestry Lands. The Wildlife Society Conference; Reno, NV
- 2019 Behan, M., **W.E. Peterman**. Assessing Population Demographics Following Translocation. Ohio Biodiversity Conservation Partnership Research Review; Columbus, OH
- 2019 Donlon, K.C.* and W.E. Peterman. Strip mines and salamanders: Investigating the genetic impact of extreme habitat disturbance on populations. Ohio Partners in Amphibian and Reptile Conservation Conference; Columbus, OH.
- 2019 Hoffman, A.S. *, A.M. Tutterow*, and W.E. Peterman. Timber rattlesnake home range estimates and habitat use on forestry lands in Ohio. Midwest Fish and Wildlife Conference, Cleveland, OH.
- 2019 Hoffman, A.S. *, A.M. Tutterow*, and W.E. Peterman. Timber rattlesnake home range estimates and habitat use on forestry lands in Ohio. Ohio Wildlife Management Association Conference, Columbus, OH.
- 2019 K.C. Donlon* and W.E. Peterman. Strip mines and salamanders, investigating the genetic impact of extreme habitat disturbance on populations. Ohio Wildlife Management Association Conference, Columbus, OH.
- 2018 Wilk, A.J., K.C. Donlon*, and W.E. Peterman. Effects of urbanization on red-backed salamander population abundance and diversity. The Wildlife Society Conference, Cleveland, OH.
- 2018 Gould, P.R. *, M.R. Gade*, and W.E. Peterman. Assessing riparian land-use of salamanders following fire. The Wildlife Society Conference, Cleveland, OH.
- 2018 Gade, M.R.* and W.E. Peterman. Multiple environmental gradients influence the distribution and abundance of a key forest-health indicator species in the southern Appalachian Mountains. The Wildlife Society Conference, Cleveland, OH.
- 2018 Hoffman, A.S. *, A.M. Tutterow*, and W.E. Peterman. Timber rattlesnake home range estimates and habitat use on forestry lands in Ohio. The Wildlife Society Conference, Cleveland, OH.
- 2018 K.C. Donlon* and W.E. Peterman. Strip mines and salamanders, investigating the genetic impact of extreme habitat disturbance on populations. The Wildlife Society Conference, Cleveland, OH.
- 2018 D’Amore, A., K. Donlon*, and W.E. Peterman. Evaluation of DNA extracted from Timber Rattlesnake (*Crotalus horridus*) cloacal and blood swabs for microsatellite based genotyping. Denman Undergraduate Research Forum, The Ohio State University. [Received 3rd Place in Presentation in Category]
- 2018 Hoffman, A. *, A. Tutterow*, and W.E. Peterman. Using camera traps to assess prey availability for Timber Rattlesnakes (*Crotalus horridus*) in Ohio. Ohio Fish and Wildlife Management Association Conference; Columbus, OH.
- 2017 D’Amore, A., K. Donlon*, and W.E. Peterman. Evaluation of DNA extracted from Timber Rattlesnake (*Crotalus horridus*) cloacal and blood swabs for microsatellite based genotyping. Annual Ohio Biodiversity Conservation Partnership Research Review; Columbus, OH.
- 2017 Hoffman, A. *, A. Tutterow*, and W.E. Peterman. Using camera traps to assess prey availability for Timber Rattlesnakes (*Crotalus horridus*) in Ohio. Annual Ohio Biodiversity Conservation Partnership Research Review; Columbus, OH.

- 2017 Gade, M* and W.E. Peterman. Abundance patterns of terrestrial plethodontid salamanders across multiple environmental gradients. Annual Ohio Biodiversity Conservation Partnership Research Review; Columbus, OH.
- 2017 Gade, M* and W.E. Peterman. Abundance patterns of terrestrial plethodontid salamanders across multiple environmental gradients. Student Conference on Conservation Science, New York, NY.
- 2017 D'Amore, A, K. Donlon*, and W.E. Peterman. Evaluation of DNA extracted from Timber Rattlesnake (*Crotalus horridus*) cloacal and blood swabs for microsatellite based genotyping. Fall Student Poster Forum, The Ohio State University.
- 2017 Wilk, A, and W.E. Peterman. Effects of habitat patch size on the abundance of red-backed salamanders (*Plethodon cinereus*). 57th Ohio Fish and Wildlife Management Association, The Ohio State University, Columbus, OH.
- 2016 Wilk, A, and W.E. Peterman. Effects of habitat patch size on the abundance of red-backed salamanders (*Plethodon cinereus*). Fall Student Poster Forum, The Ohio State University

GRADUATE STUDENT ADVISING

- 2019–present **Andrew Wilk**, M.S. student, The Ohio State University, School of Environment and Natural Resources (Advisor)
- 2019–present **Evan Amber**, M.S. student, The Ohio State University, School of Environment and Natural Resources (Advisor)
- 2019–present **Connor Rosenblat**, M.S. student, The Ohio State University, School of Environment and Natural Resources (Thesis Committee Member)
- 2018–present **Caitlin Mothes**, Ph.D. student, University of Miami, Department of Biology (Dissertation Committee Member)
- 2018–present **Matthew Combs**, Ph.D. student, The Ohio State University, Ecology, Evolution, and Organismal Biology (Dissertation Committee Member)
- 2017–present **Scott Martin**, Ph.D. student, The Ohio State University, Ecology, Evolution, and Organismal Biology (Dissertation Committee Member)
- 2017–present **Annalee Tutterow**, M.S. student, The Ohio State University, School of Environment and Natural Resources (Advisor)
- 2016–present **Meaghan Gade**, Ph.D. student, The Ohio State University, School of Environment and Natural Resources (Advisor)
- 2016–present **Philip Gould**, Ph.D. student, The Ohio State University, School of Environment and Natural Resources (Advisor)
- 2016–present **Andrew Hoffman**, Ph.D. student, The Ohio State University, School of Environment and Natural Resources (Advisor)
- 2017–present **Mason Murphy**, Ph.D. student, Miami University, Department of Biology (Dissertation Committee Member)
- 2018–2019 **Jacey Brooks**, M.S. student, Frostburg State University, Department of Biology (Thesis Committee Member)
- 2017–2018 **James Hensen**, M.S. student, The Ohio State University, School of Environment and Natural Resources (Thesis Committee Member)
- 2017–2019 **Gretchen Anchor**, M.S. student, The Ohio State University, School of Environment and Natural Resources, (Thesis Committee Member)

- 2017–2018 **Elizabeth Berg**, M.S. student, The Ohio State University, School of Environment and Natural Resources, (Thesis Committee Member)
- 2016–2017 **Robert Denton**, Ph.D. student, The Ohio State University, Ecology, Evolution, and Organismal Biology (Dissertation Committee Member)
- 2015–2018 **Alicia Brunner**, M.S. student, The Ohio State University, School of Environment and Natural Resources (Thesis Committee Member)
- 2014–2016 **Cody Rhoden**, M.S. student, University of Illinois, Illinois Natural History Survey (Thesis Committee Member)

UNDERGRADUATE STUDENT ADVISING

- 2019–present **Mackenzie Brown**: Stress hormones in urban red-backed salamanders. Submitted a SEEDS proposal, and will be doing research data collection spring and summer 2020.
- 2019–present **Jennifer Myers**: Received grant from the Ohio Chapter of the American Chestnut Foundation to study amphibians in ponds with and without chestnut leaf litter.
- 2018–present **Margaret Behan**: Assessing population demographics of translocated wood frog populations. Recipient of 2019 SEEDS Undergraduate Research Award.
- 2015–2018 **Andrew Wilk**: Forest patch size and isolation effects on genetic diversity of red-backed salamanders. Recipient of 2016 URO Summer Research Fellowship. Presented research at Fall Student Poster Forum, Ohio Fish and Wildlife Management Association meeting, and Ohio State Denman Research Forum.
- 2017–2018 **Aaron D'Amore**: Comparison of DNA extracted from blood samples and cloacal swabs for Timber Rattlesnake genotyping. Presented research at Fall Student Poster Forum, Ohio Biodiversity Conservation Partnership Research Review, and Ohio State Denman Research Forum [Poster presentation received 3rd place in category].
- 2012–2014 **Emily Brocato**: Assessing the effects that sampling different amphibian life stages has on population genetic inferences. Development and optimization of microsatellite primers for ringed and spotted salamanders for use in population genetic studies of source-sink dynamics. Presented research at the University of Missouri Undergraduate Research Forum (Spring 2013). Co-author on two peer-reviewed manuscripts published in Conservation Genetics Resources, and is co-author on another manuscript to be submitted to PeerJ.
- 2012–2013 **Rio Schondelmeyer**: Conducted cattle tank experiment to assess the relationship between genetic diversity, environmental stress, and fitness. Presented research at the University of Missouri Undergraduate Research Forum (Summer 2012) and at Undergraduate Research Day at the state capital building in Jefferson City, MO (Fall 2012). Research will lead to two peer reviewed publications.
- 2012–2013 **Luke Pauley**: Development and optimization of microsatellite primers for ringed and spotted salamanders for use in population genetic studies of source-sink dynamics. Presented research at the University of Missouri Undergraduate Research Forum (Spring 2013). Co-author on two peer-reviewed manuscripts published in Conservation Genetics Resources.
- 2011–2013 **Brett Spatola**: Development and optimization of microsatellite primers for landscape genetics research on the western slimy salamander. Presented research at the University of Missouri Undergraduate Research Forum (Summer 2011, Spring 2012). This research led a co-authored manuscript published in Conservation Genetics Resources.
- 2011–2012 **Jeremy Locke**: Oversaw research to develop plaster models for amphibian water loss studies. Presented research at the University of Missouri Undergraduate Research Forum (Spring 2012). Research has led to a manuscript published in Canadian Journal of Zoology.

- 2011–2012 **Elsa Stuart:** Development and optimization of microsatellite primers for ringed and spotted salamanders for use in population genetic studies of source-sink dynamics. Co-author on two peer-reviewed manuscripts published in Conservation Genetics Resources.
- 2010–2011 **Sheena Feist:** Worked through the NSF sponsored UMEB program, oversaw the data collection, analysis, and writing of research on the population genetics of peripheral populations of wood frogs in Missouri. Presented research at the University of Missouri Undergraduate Research Forum (Summer 2010) and at the Ecological Society of America (2011). This research led to a co-authored manuscript published in Biological Conservation. Completed Masters at University of Missouri.
- 2007–2008 **Josh Wisdom:** Supervised development and implementation of summer research quantifying the effects of riparian forest removal on stream salamander population densities. Presented research at the University of Missouri Undergraduate Research Forum (Summer 2007). Data contributed to publication in Forest Ecology and Management.
- 2007–2008 **Sam Truslow:** Helped develop, implement, analyze, and publish study on the effectiveness of different sampling methodologies. Research led to a co-authored manuscript in Herpetological Review.

TEACHING

- 2019–present ENR 5374: Landscape Ecology for Natural Resource Management. A 3-credit course (with lab section) for graduate and advanced undergraduate students to provide practical working understanding of landscape ecology, with the goals of understanding how landscape processes operate at different scales, knowing how to assess spatial patterns and processes, and understanding how landscape ecology principles and theory apply to natural resource assessment and management.
- 2018, 2020 ENR 6193: Individual Studies – Landscape Genetics - Distributed Graduate Seminar. Serving as local instructor to graduate students enrolled in the online distributed graduate landscape genetics seminar. Also serving as a project leader, proving graduate students enrolled in the course the opportunity to participate in an international research collaboration.
- 2017–present ENR 8890.01: Hierarchical Models in Wildlife Ecology (AU17). A 3-credit graduate seminar course designed to expose students to the statistical and analytical tools at the forefront of ecology and conservation research, with special on application and interpretation of Bayesian models.
- 2017–present ENR 8890.01: Design of Ecological Field Studies (SP17, AU18). A 2-credit graduate seminar course designed to teach beginning early career scientists the principles of ecological study design in the context of wildlife, conservation, ecological, behavioral, and evolutionary research.
- 2016–present ENR 4900.02: Environment and Natural Resources Management for Forestry Fisheries and Wildlife (fall semester). A 3-credit course taught to 30–40 undergraduate students to provide the opportunity to integrate ideas, concepts and tools learned during their academic careers to natural resources planning, problem solving and decision-making.
- 2016–present ENR 5370: Management of Wildlife Habitats (spring semester). A 2-credit course taught to 30–40 grad/undergrad students to introduce the principles of wildlife- habitat relationships, concepts of landscape ecology as they relate to habitat configuration, and the conservation and management of wildlife habitats.
- 2015–present Landscape Ecology and Conservation of Amphibians, Highlands Biological Station, Highlands, NC (odd years, summer). A two-week course focused on the challenges of managing and conserving amphibians at the landscape scale. Students learn how the principles and tools of landscape ecology can be used monitor and manage amphibian populations.
- 2006–2012 General Biology for non-majors, Teaching Assistant, University of Missouri. Taught two sections of 24 students each semester. Responsibilities included instructing 2-hour labs and leading 50-minute discussion following each lab.

2005 General Ecology, Teaching Assistant, University of Missouri. Taught one section of 24 students in writing-intensive, field-based lab course. Oversaw labs, instructed students in methods of data collection, analysis, and presentation through writing.

WORKSHOPS

2019 Optimizing landscape resistance surfaces using *ResistanceGA*. United States International Association for Landscape Ecology Annual Conference, Fort Collins, CO. [22 participants]

SERVICE

Ohio State University

2019–present OSU IACUC committee

2019 ENRGP Fellowship Committee

2017 Judge OSU Fall Forum poster session

2015–2019 Honors Committee (School of Environment and Natural Resources)

2016–2018 CFAES Recognition Program Awards Selection Committee

2016 Search Committee Member to fill Zoo and Wildlife Medicine position in Veterinary Preventative Medicine

Outreach

2019 Taking Flight with Citizen Science. 6-hr extension course organized by Anne Baird. I developed and led the presentation and discussion on amphibian citizen science opportunities. Stratford Ecological Reserve, Delaware, OH

2017 Presented at the Forest Professionals Workshop organized by the Ohio Chapter of the Wildlife Society. The audience consisted of 40+ wildlife professionals and land managers at Vinton Furnace Experimental Forest.

2016–present Gave natural history talk in spring and fall at John Beltz Retreat Center to >25 parishioners of Overbrook Presbyterian Church.

2016 Presented at the ‘Wildlife and Human Interactions’ program organized by David Apsley, discussing conservation and management of Timber Rattlesnakes in Ohio. The audience consisted of 20 interested community members who gathered at Vinton Furnace Experimental Forest.

2016 Worked with ODNR to take photographer/filmmaker in the field to get footage of Timber Rattlesnakes and our research with them. Two informational videos were produced and shared on the ODNR’s Facebook and Vimeo pages.

2013–2018 Expert reviewer for Vital Signs (<http://vitalsignsme.org/>) online education program. I review species identification and comment on pictures of amphibian species observed by elementary school and community groups surveying vernal pools. This educational program is run through the Gulf of Maine Research Institute.

2012 Plethodontid salamander and biodiversity lecture for field ecology group of middle and high School students at Great Smoky Mountains Institute at Tremont.

2005–2009 Herpetology leader for Bioblitz; Columbia, MO (<http://bioblitz.missouri.edu/>)

2005–2007 Salamander Meander; Highlands, NC. Lectured on the biodiversity Appalachian salamanders and led an interpretive walk around Highlands Biological Field Station.

Professional Service

2019–present Editorial Board Landscape Ecology

- 2018–present Board member of the Molecular Ecology Working Group of The Wildlife Society
- 2018 Judge for EE Williams Grant, Herpetologists' League
- 2017–present Advisory board member on the Ohio chapter of Partners for Amphibian and Reptile Conservation Association
- 2016 Judge for student poster presentations, The Wildlife Society Conference, Raleigh, NC
- 2014 Judge, Henri Seibert Award (best student presentations in ecology), Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN.

Service at the University of Missouri

- 2008–2013 Seminar speaker host (7 seminars), Ecology and Biology Seminar Series
- 2012–2013 Graduate student representative on faculty divisional council committee
- 2011 Organized and led graduate semester-long seminar on Bayesian modeling with WinBUGS
- 2010–2011 President, Biology Graduate Student Association
- 2010 Science Saturday Instructor; Columbia, MO
- 2006–2007 Treasurer, Biology Graduate Student Association
- 2005–2006 Treasurer BioBlitz; Columbia, MO

Professional Membership

- Society for the Study of Amphibians and Reptiles
- The American Society of Ichthyologists and Herpetologist
- The Herpetologists' League
- US Regional Association of the International Association for Landscape Ecology
- The Wildlife Society

External Reviewer

Animal Conservation	Herpetological Conservation and Biology
Aquatic Conservation: Marine and Freshwater Ecosystems	Herpetological Journal
Biological Conservation	Herpetological Review
Biological Journal of the Linnean Society	Hydrobiologia
Canadian Journal of Zoology	Integrative Zoology
Cities and the Environment	Journal of Applied Ecology
Conservation Genetics	Journal of Ethology
Conservation Biology	Journal of Herpetology
Copeia	Journal of Wildlife Management
Diversity and Distributions	Landscape and Urban Planning
Ecography	Landscape Ecology
Ecology and Evolution	Molecular Ecology
Ecological Applications	Molecular Ecology Resources
Ecology Letters	Open Journal of Ecology
Forest Ecology and Management	Population Ecology
Forests	PLoS ONE
Freshwater Biology	Scientific Reports
Freshwater Science	Urban Ecosystems
Global Change Biology	National Geographic Society
Global Ecology and Biogeography	National Science Foundation (US)
Herpetologica	National Science Center (Poland)