

DANIEL J. MCGARVEY

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EDUCATION

- PH.D. IN BIOLOGY (NSF IGERT – FRESHWATER INTERDISCIPLINARY SCIENCE)* 2007
University of Alabama, Tuscaloosa, AL
Committee: Milton Ward (chair), Phil Harris, Leslie Rissler, Robert Hughes, Albrey Arrington
GPA: 4.0
- M.S. IN FISHERIES SCIENCE* 2001
Pennsylvania State University, University Park, PA
Committee: Robert Carline (chair), Robert Brooks, Thomas Martin
GPA: 3.75
- B.A. IN BIOLOGY AND GEOLOGY* 1997
Wittenberg University, Springfield, OH
GPA: 3.54 (*Cum Laude*)

PROFESSIONAL EXPERIENCE

- GRADUATE PROGRAM DIRECTOR*
Center for Environmental Studies, Virginia Commonwealth University, Richmond, VA 2018-current
- ASSOCIATE PROFESSOR OF ENVIRONMENTAL STUDIES (WITH TENURE)*
Center for Environmental Studies, Virginia Commonwealth University, Richmond, VA 2017-current
- ASSISTANT PROFESSOR OF ENVIRONMENTAL STUDIES*
Center for Environmental Studies, Virginia Commonwealth University, Richmond, VA 2011-2017
- ASSOCIATE / SCIENCE EDITOR*
Fisheries Magazine, The American Fisheries Society, Bethesda, MD 2010-2018
- FRESHWATER COMMUNITY ECOLOGIST / ENVIRONMENTAL MODELER (POST-DOC)*
Oak Ridge Institute for Science and Education (ORISE) Fellow 2010-2011
U.S. Environmental Protection Agency, Ecosystems Research Division, Athens, GA 2007-2010
- ADJUNCT PROFESSOR / COURSE INSTRUCTOR*
Odum School of Ecology, University of Georgia, Athens, GA 2008-2011
- FISHERIES ECOLOGIST*
Independent Multidisciplinary Science Team (IMST), Corvallis, OR 2007
- COURSE INSTRUCTOR*
Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR 2006

FISH ECOLOGIST (DOCTORAL RESEARCH APPOINTMENT)

U.S. Environmental Protection Agency, Western Ecology Division, Corvallis, OR 2003-2007

STREAM ECOLOGIST

National Council for Air and Stream Improvement, Anacortes, WA 1999-2002

BIOLOGICAL/FISHERIES CONSULTANT

U.S. Fish and Wildlife Service, State College, PA 1998-1999

SALMON HABITAT RESTORATION SPECIALIST

U.S. Forest Service, Tongass National Forest, Sitka, AK 1997

GRANTS AND FELLOWSHIPS

National Science Foundation (2020-2025; DEB-2032146; Co-P.I.) <i>Emerge: Broadening Participation and Leadership in Freshwater Science</i>	total \$2,006,746 subaward \$82,064
National Science Foundation (2016-2022; DEB-1553111; P.I.) <i>CAREER: A Size-Based Test of Species-Energy Theory in Stream Ecosystems – Linking Individuals, Communities, and Underrepresented Minorities</i>	\$600,679
U.S. Department of Defense, Strategic Environmental Research and Development Program – SERDP (2015-2017; 15RC01-016; P.I.) <i>Quantifying the Stability of Fish Interaction Networks Along Environmental Disturbance Gradients</i>	\$150,000
VCU Quest Innovation Fund (2014-2016; P.I.) <i>eESP 2.0 – Ecological and Environmental Science Perception 2.0</i>	\$57,000
The Eppley Foundation for Scientific Research (2013-2015; P.I.) <i>Rediscovering the Story of Freshwater Fishes in Southern West Virginia: An Effort to Preserve Mountaintop Streams</i>	\$24,588
VCU Presidential Research Incentive Program (PRIP) grant (2012-2014; Co-P.I.) <i>Transboundary Nutrient Management in the Chesapeake Bay Watershed: A Cost-effective, Interstate Approach to Meeting the Bay TMDL Requirements</i>	\$50,000
Oak Ridge Institute for Science and Education (ORISE) Fellowship (2010-2011)	\$72,000
U.S. Environmental Protection Agency, Science to Achieve Results (STAR) Fellowship (2005-2007)	\$76,242
National Fish and Wildlife Foundation, Budweiser Conservation Fellowship (2005)	\$10,000
NSF Integrative Graduate Education and Research Traineeship (IGERT) Fellowship (2003-2005)	\$75,104
University of Alabama, Graduate Enhancement Fellowship (2002-2003)	\$16,952
Wittenberg University, Independent Research Grant (1996)	\$2,000

PUBLICATIONS

33. Walls, F.N. and **D.J. McGarvey**. In press. *Building a macrosystems ecology framework to identify links between environmental and human health: a random forest modeling approach*. People and Nature.
32. Woods, T.E. and **D.J. McGarvey**. In press. *Drivers of Odonata flight timing revealed by natural history collection data*. Journal of Animal Ecology. <https://doi.org/10.1111/1365-2656.13795>
31. **McGarvey, D.J.**, A.L. Brown, E.B. Chen, C.B. Viverette, P.A. Tuley, O.C. Latham, P.M. Gibbs, A.E. Richins, M.C. Deadwyler, B. Lin, and E.A. Kaseloo. 2021. *Do fishes enjoy the view? A MaxEnt assessment of fish habitat suitability within scenic rivers*. Biological Conservation 263(11):109357.
30. **McGarvey, D.J.** 2021. *Individual-level data reveal high prevalence of positive size-trophic position relationships for vertebrates in temperate streams*. Freshwater Biology 66(4):628-639.
29. **McGarvey, D.J.**, T.E. Woods, and A. Kirk. 2019. *Modeling the size spectrum for macroinvertebrates and fishes in stream ecosystems*. Journal of Visualized Experiments 149:e59945.
28. Flanary-Hendrick, L. and **D.J. McGarvey**. 2019. *Climate change and mountaintop-removal mining: a maxent assessment of the potential threat to West Virginian fishes*. Northeastern Naturalist 26(3):499-522.
27. Fernandez, L. and **D.J. McGarvey**. 2019. *Water quality decisions and policy for an interstate watershed*. Water Resources and Economics 27:100130.
26. **McGarvey, D.J.** and S.E. Faris. 2019. *An arts-based approach to science communication training*. Scientia (<https://doi.org/10.26320/SCIENTIA311>).
25. Patrick, C.J., **D.J. McGarvey**, J.H. Larson, W.F. Cross, D.C. Allen, A.C. Benke, T.Brey, A.D. Huryn, J. Jones, C. Murphy, C. Ruffing, P. Saffarinia, M.R. Whiles, J.B. Wallace, and G. Woodward. 2019. *Precipitation and temperature drive continental to global patterns in stream invertebrate production*. Science Advances 5:eaav2348.
24. **McGarvey, D.J.** and J.A. Veech. 2018. *Modular structure in fish co-occurrence networks: a comparison across spatial scales and grouping methodologies*. PLOS One 13(12):e0208720.
23. Woods, T.E. and **D.J. McGarvey**. 2018. *Assessing the relative influences of abiotic and biotic factors on American Eel (*Anguilla rostrata*) distribution using hydrologic, physical habitat, and functional trait data*. Ecography 41(12):2067-2079.
22. **McGarvey, D.J.** and A. Kirk. 2018. *Seasonal comparison of community-level size-spectra in southern coalfield streams of West Virginia (USA)*. Hydrobiologia 809(1):65-77.
21. **McGarvey, D.J.**, M. Menon, T. Woods, S. Tassone, J. Reese, M. Vergamini, and E. Kellogg. 2018. *On the use of climate covariates in aquatic species distribution models: are we at risk of throwing out the baby with the bath water?* Ecography 41(4):695-712. [Dryad data @ [doi:10.5061/dryad.925mv](https://doi.org/10.5061/dryad.925mv).]
20. **McGarvey, D.J.**, J. A Falke, H. W. Li, and J. L. Li. 2017. *Fish assemblages*. Ch. 16 IN: *Methods in stream ecology* (eds. R. Hauer and G. Lamberti), pp. 321-353. Elsevier, Amsterdam, The Netherlands.
19. **McGarvey, D.J.** and B.F. Terra. 2016. *Using river discharge to model and deconstruct the species-discharge relationship for riverine fishes of the Western Hemisphere*. Journal of Biogeography 43(7):1436-1449. [Corrigendum published in Journal of Biogeography 43(7):1477.]
18. **McGarvey, D.J.** and C.A. Mason. 2015. *Re-envisioning the communication of our science*. Limnology and Oceanography Bulletin 24(1):1-4.

17. Hughes, R.M., **D.J. McGarvey**, and B. Terra. 2014. *Carry a big net – cast it far and wide*. IN: Future of fisheries: perspectives for emerging professionals (eds. W. Taylor, A. Lynch, and N. Leonard). American Fisheries Society Press, Bethesda, MD.
16. **McGarvey, D.J.** 2014. *Moving beyond species–discharge relationships to a flow-mediated, macroecological theory of fish species richness*. Freshwater Science 33(1):18-31.
15. **McGarvey, D.J.** and J.M. Johnston. 2013. *'Fishing' for alternatives to mountaintop mining in southern West Virginia*. Ambio 42(3):298-308.
14. **McGarvey, D.J.** 2012. *Differential saturation of Pacific Northwest and Southeast (U.S.A.) fish assemblages*. Ecology of Freshwater Fish 21(4):617-626.
13. **McGarvey, D.J.** 2012. *U.S. Fish and Wildlife Service is expecting multiples*. Fisheries 37(4):177.
12. **McGarvey, D.J.** and J.M. Johnston. 2011. *A simple method to predict regional fish abundance: an example in the McKenzie River Basin, Oregon*. Fisheries 36(11):534-546.
11. Johnston, J.M., **D.J. McGarvey**, M.C. Barber, G. Laniak, J. Babendreier, R. Parmar, K. Wolfe, S.R. Kraemer, M. Cyterski, C. Knightes, B. Rashleigh, L. Suarez, and R. Ambrose. 2011. *An integrated process-based modeling system for performing multi-scale ecosystem assessments: application to ecosystem services in the Albemarle-Pamlico Basins (NC, USA)*. Ecological Modelling 222(14):2471-2484.
10. **McGarvey, D.J.** 2011. *Quantifying ichthyofaunal zonation and species richness along a 2,800 km reach of the Rio Chama and Rio Grande (U.S.A.)*. Ecology of Freshwater Fish 20(2):231-242.
9. **McGarvey, D.J.**, J.M. Johnston, and M.C. Barber. 2010. *Predicting fish densities in lotic systems: a simple modeling approach*. Journal of the North American Benthological Society 29(4):1212-1227.
8. Purucker, S.T., H.E. Golden, G.F. Laniak, L.S. Matott, **D.J. McGarvey**, & K. Wolfe. 2009. *Free and open-source GIS tools: role and relevance in the environmental assessment community*. IN: Manual of Geographic Information Systems (ed. M. Madden), pp. 293-310. American Society for Photogrammetry and Remote Sensing, Bethesda, MD.
7. **McGarvey, D.J.** 2008. *Tap into the law review literature - better yet, submit an article!* Frontiers in Ecology and the Environment 6(4):217-218.
6. **McGarvey, D.J.** and R.M. Hughes. 2008. *Longitudinal zonation of Pacific Northwest (U.S.A.) fish assemblages and the species-discharge relationship*. Copeia 2008(2):311-321.
5. **McGarvey, D.J.** and G.M. Ward. 2008. *Scale dependence in the species-discharge relationship for fishes of the southeastern U.S.A.* Freshwater Biology 53(10):2206-2219.
4. **McGarvey, D.J.** 2007. *Merging precaution with sound science under the Endangered Species Act*. BioScience 57(1):65-70.
3. **McGarvey, D.J.** 2007. Book review: Intelligent courage – natural resource careers that make a difference (by M.E. Fraidenburg). The Tributary 31(2):8.
2. **McGarvey, D.J.** and B. Marshall. 2005. *Making sense of scientists and "sound science": truth and consequences for endangered species in the Klamath Basin and beyond*. Ecology Law Quarterly 32:73-110.

1. Carline, R.F., **D.J. McGarvey**, and D.A. Peterman. 1999. *Effects of acidic runoff episodes on fish populations and diversity in Pennsylvania*. IN: *The Effects of Acidic Deposition on Pennsylvania's Forests, Volume II* (eds. W.E. Sharpe & J.R. Drohan), pp. 11-16. Env. Resource Research Institute, Univ. Park, PA.

IN REVIEW MANUSCRIPTS

35. Walls, F.N. and **D.J. McGarvey**. In review. *A systems-level model of direct and indirect links between environmental health, socioeconomic factors, and human mortality*. Science of the Total Environment.
34. Racanelli, G.A. and **D.J. McGarvey**. In review. *Fish and Invertebrate Size Spectra in Piedmont Streams of Virginia (USA)*. Hydrobiologia.

INVITED PRESENTATIONS

- Exceptional abundance of large individuals revealed in temperate streams by National Ecological Observatory Network data*
Annual Symposium, NEON Headquarters, Boulder, CO 2022
- Swimming up a river of (mis)information: a fish ecologist's perspective.*
Department of Biology, Randolph Macon College, Ashland, VA 2021
- Size spectra in streams: the foundational importance of size-trophic position relationships.*
National Science Foundation Macrosystems Biology Symposium (virtual) 2021
- Identifying and addressing challenges to a fully inclusive freshwater community.*
Society for Freshwater Science panel (virtual) 2020
- Look at me! I have something I want to show you.*
Organization of Fish and Wildlife Information Managers Symposium, Harpers Ferry, WV 2019
- Size spectra in streams: linking individuals, communities, and underrepresented minorities.*
National Science Foundation Macrosystems Biology Symposium, Boulder, CO 2019
- Body size scaling in fish and invertebrate communities from eastern U.S. streams.*
Great Smokey Mountains Park Science Colloquium, Gatlinburg, TN 2019
- Small steps in small streams: a pathway to aquatic ecology for students of color.*
Soc. Advance. Chicanos and Native Americans in Sci. (annual meeting), San Antonio, TX 2018
- An eye for design: a graduate student perspective on the benefits of Communication Arts training.*
Society for Freshwater Science (annual meeting), Detroit, MI [co-author] 2018
- Some amazing things that I've done with an interdisciplinary background in environmental science.*
Environmental Science Program, Wittenberg University, Springfield, OH 2017
- Body size, universal scaling, and the places you'll go.*
Department of Biology, Wittenberg University, Springfield, OH 2017
- Data viz, or how a hack is trying to change science training and save the world.*
Statistics Program, Wittenberg University, Springfield, OH 2017
- Ties that bind: can a network approach provide new, general understanding of biotic communities?*
Department of Biology, Virginia Tech, Blacksburg, VA 2017

<i>Using network analysis to anticipate secondary effects of species losses in stream fish assemblages.</i>	North American Wildlife and Natural Resources Conference, Spokane, WA	2017
<i>Coequal goals, coequal processes – how systems-level thinking can enhance the conservation of fish and freshwater in the Golden State.</i>	Department of Fisheries and Wildlife Conservation, UC Davis, Davis, CA	2016
<i>Bringing it together: towards a systems-level framework to model fish assemblages in lotic ecosystems.</i>	Department of Biology, Georgia Southern University, Statesboro, GA	2016
<i>What a tangled web we weave: analysis of fish co-occurrence networks within U.S. rivers.</i>	Department of Biology, Texas State University, San Marcos, TX	2016
<i>Envisioning ecology.</i>	Alliance for the Arts in Research Universities panel, Ames, IA	2014
<i>eESP 2.0 – an interdisciplinary effort to merge ecological and environmental science with art in the city of tattoos.</i>	Joint Aquatic Sciences Meeting, Portland, OR	2014
<i>Best of the best – top gun science for endangered species management.</i>	Center for the Study of Biological Complexity (annual symposium), Richmond, VA	2013
<i>Life after IGERT.</i>	National Science Foundation, IGERT Alumni panel, Washington, D.C.	2012
<i>Conservation of freshwater biodiversity in Virginia: adding a phylogenetic perspective.</i>	Society for Freshwater Science (annual meeting), Louisville, KY	2012
<i>Capitalizing on the natural heritage of Central Appalachia: ‘fishing’ for alternatives in mountaintop mining country.</i>	North American Benthological Society (annual meeting), Providence, RI	2011
<i>Seeing the big picture in freshwater fish ecology: can we connect the dots?</i>	Odum School of Ecology, University of Georgia, Athens, GA	2009
<i>Careers other than academia.</i>	U.S. EPA, Science to Achieve Results panel, Washington, D.C.	2008
<i>Are freshwater fishes really more diverse in the Southeast than the Northwest? Yes! And no.</i>	Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR	2007
<i>Global trends in human and ecosystem health: links between land use, trade and climate change.</i>	U.S. EPA, Science to Achieve Results panel, Washington, D.C.	2006
<i>O.J. Simpson and the Endangered Species Act: a quest for sound science in the Klamath Basin.</i>	U.S. Fish and Wildlife Service, Klamath Falls, OR	2005
<i>Unsaturated fish assemblages in Oregon rivers: evidence of regional controls on biodiversity.</i>	North American Benthological Society (annual meeting), Vancouver, B.C.	2004

SUBMITTED PRESENTATIONS

- Fluid and functional: linking flow characteristics to functional diversity in an inclusive learning environment.*
Joint Aquatic Sciences Meeting, Grand Rapids, MI 2022
- Building a macroecological framework to identify links between environmental and human health: a random forest modeling approach.*
Joint Aquatic Sciences Meeting, Grand Rapids, MI [co-author] 2022
- From a trickle, to a river, to an ocean: the future of water depends on holistic inclusion in the aquatic sciences.*
Joint Aquatic Sciences Meeting, Grand Rapids, MI [co-author] 2022
- Bridging human and functional diversity: a NEON data baseline for freshwater functional traits.*
Joint Aquatic Sciences Meeting, Grand Rapids, MI [co-author] 2022
- Learning and community building through online collaborative projects in the SFS Emerge program*
Joint Aquatic Sciences Meeting, Grand Rapids, MI [co-author] 2022
- Do fishes enjoy the view? A MaxEnt assessment of fish habitat with Virginia scenic rivers.*
Society for Freshwater Science (virtual annual meeting) 2021
- Can't stop won't stop – continuing the journey to full inclusivity in freshwater science with the Emerge program.*
Society for Freshwater Science (virtual annual meeting) [co-author] 2021
- Identifying links between human and environmental health: a macroecological approach.*
Society for Freshwater Science (virtual annual meeting) [co-author] 2021
- Characterizing community-level size spectra in Mid-Atlantic, Piedmont streams of Virginia.*
Society for Freshwater Science (virtual annual meeting) [co-author] 2021
- Fish and invertebrate abundances are near-universal functions of body size in U.S. streams.*
River Management Society (virtual annual meeting) 2021
- Taxonomic and functional trait structure within the size spectrum: common building blocks or idiosyncrasy?*
Society for Freshwater Science (annual meeting), Salt Lake City, UT 2019
- Innovative ways to increase diversity in recruitment of freshwater scientists.*
Society for Freshwater Science (annual meeting), Salt Lake City, UT [co-author] 2019
- Potential links between stream/river health and human health indicators.*
Society for Freshwater Science (annual meeting), Salt Lake City, UT [co-author] 2019
- Biogeography of benthic invertebrate biomass: does family-level biomass track regional Variation in stream temperature?*
Society for Freshwater Science (annual meeting), Salt Lake City, UT [co-author] 2019
- Do stream invertebrate functional feeding groups reflect macroscale variation in terrestrial vegetation?*
Society for Freshwater Science (annual meeting), Salt Lake City, UT [co-author] 2019

Gut content mass vs. individual body mass: is there a predictable relationship in predatory stream fishes?
Society for Freshwater Science (annual meeting), Salt Lake City, UT [co-author] 2019

Seasonal variation in community size structure: potential effects of temperature and hydrology on the size-spectrum.
Society for Freshwater Science (annual meeting), Detroit, MI 2018

Climate change and mountaintop removal mining: a MaxEnt assessment of the potential dual threat to West Virginia fishes.
Society for Freshwater Science (annual meeting), Detroit, MI [co-author] 2018

Identification of taxonomic and functional ichthyofaunal zones within the James River Basin, VA.
Society for Freshwater Science (annual meeting), Detroit, MI [co-author] 2018

Fish and invertebrate size-spectra in eastern U.S. streams: searching for a latitudinal gradient in lotic size structure.
Society for Freshwater Science (annual meeting), Detroit, MI [co-author] 2018

Is individual body size a reliable predictor of trophic position in eastern U.S. streams?
Society for Freshwater Science (annual meeting), Detroit, MI [co-author] 2018

We can do this ourselves; preparing STEM graduate students to engage broad audiences through digital media and the communication arts.
Society for Freshwater Science (annual meeting), Raleigh, NC 2017

A novel application of MaxEnt response functions to identify abiotic and biotic determinants of American Eel distribution in Mid-Atlantic U.S. rivers
Society for Freshwater Science (annual meeting), Raleigh, NC [co-author] 2017

Population genomics supports speciation with gene flow, not genomic islands of differentiation, in sky-island populations of southwestern white pine.
Evolution 2017, Portland, OR [co-author] 2017

*Ecological speciation of *P. strobiformis* and *P. flexilis*.*
Evolution 2017, Portland, OR [co-author] 2017

Water quality policy in an integrated urban and agricultural water basin.
International Water Resource Economics Consortium, Washington, DC [co-author] 2016

Environmental science communication and the Communication Arts – initial reflections on an interdisciplinary marriage in the city of tattoos.
North American Congress for Conservation Biology, Madison, WI 2016

*The origin of species: influence of demography and climate on patterns of genetic diversity in *Pinus strobiformis* (Southwestern white pine).*
Society for the Study of Evolution (annual meeting), Austin, TX [co-author] 2016

Niche conservatism or divergence: a comparison of distribution models across a clade of pine species native to the eastern United States.
Society for the Study of Evolution (annual meeting), Austin, TX [co-author] 2016

Facebook for fish: new insight into fish assemblage structure and stability through social network analysis.
Society for Freshwater Science (annual meeting), Sacramento, CA 2016

Seasonal variation of fish and macroinvertebrate biomass spectra in southern West Virginia streams.
Society for Freshwater Science (annual meeting), Sacramento, CA [co-author] 2016

Towards understanding drivers of community-level invertebrate production using structural equation modeling.
Society for Freshwater Science (annual meeting), Sacramento, CA [co-author] 2016

Challenges and opportunities for advancing food web theory and analysis in stream ecosystems through modeling.
Society for Freshwater Science (annual meeting), Sacramento, CA [co-author] 2016

Combined threats of global warming and mountaintop mining for West Virginia fishes.
Rice Center Research Symposium, Charles City, VA 2015

Using biomass spectra to quantify fish and macroinvertebrate community structure in southern West Virginia.
Rice Center Research Symposium, Charles City, VA 2015

Building a general, flow-mediated theory of fish species richness – a case-study in the Pacific Northwest (USA).
Society for Freshwater Science (annual meeting), Milwaukee, WI [co-author] 2015

Species-discharge relationships for tropical and temperate fishes of the Western Hemisphere.
Joint Aquatic Sciences Meeting, Portland, OR [co-author] 2014

Summer fish assemblage structure and biomass in southern West Virginia streams.
Joint Aquatic Sciences Meeting, Portland, OR [co-author] 2014

Benthic macroinvertebrate assemblage structure and biomass in pristine streams of southern West Virginia.
Joint Aquatic Sciences Meeting, Portland, OR [co-author] 2014

Using equivalence tests to reverse the burden of proof in endangered species science: A 'BASE-HIT' for imperiled species' advocates.
Society for Conservation Biology (annual meeting), Baltimore, MD 2013

Better use of the best available science in endangered species management.
Rice Center Research Symposium, Charles City, VA 2012

Predicting the total abundance of resident salmonids within the Willamette River Basin, Oregon – a macroecological modeling approach.
North American Benthological Society (annual meeting), Santa Fe, NM 2010

Using biomass pyramids and body mass scaling relationships to predict freshwater fish densities at large spatial scales.
North American Benthological Society (annual meeting), Grand Rapids, MI 2009

Fishing for novel approaches to ecosystem service forecasts.
Society for Conservation Biology (annual meeting), Chattanooga, TN 2008

<i>A macroecological approach to ecoservices: how much energy does it take to catch a fish?</i> University of Kiel, Ecosystem Services workshop, Kiel, Germany	2008
<i>Longitudinal succession of fish assemblages within a highly diverse, southeastern river: distinguishing biotic zonation from sampling artifact.</i> North American Benthological Society (annual meeting), Anchorage, AK	2006
<i>The "power" of science: confronting Type II error under the Endangered Species Act.</i> Society for Conservation Biology (annual meeting), San Jose, CA	2006
<i>Spatial scaling effects on nested subset structure within Oregon fish assemblages.</i> Ecological Society of America (annual meeting), Montreal, Quebec	2005
<i>Biological assessment of a riparian restoration project in central Pennsylvania.</i> North American Benthological Society (annual meeting), Pittsburg, PA	2002
<i>Microhabitat use by fish populations within the Little Miami River, Ohio.</i> National Conferences on Undergraduate Research (annual meeting), Austin, TX	1997

AWARDS AND RECOGNITIONS

Organization of Fish and Wildlife Information Managers, Best Presentation Award (2020)	--
University of Alabama, Outstanding Dissertation Award finalist (2008)	--
Society for Conservation Biology, Best Student Presentation Award finalist (2006)	\$100
North American Benthological Society, Best Student Presentation in Basic Research (2005)	\$400
North American Benthological Society, President's Award (2004)	\$500
University of Alabama, Joab Langston Thomas Scholarship (2004)	\$1,000

COURSES TAUGHT

Species Distribution Modeling (graduate-level)

Virginia Commonwealth University, Center for Environmental Studies

Spring 2020: enrollment = 10; mean overall course evaluation (5 point scale) = 4.75

Fall 2017: enrollment = 6; mean overall course evaluation (5 point scale) = 4.60

Stream Survey Methods (undergrad/graduate-level)

Virginia Commonwealth University, Center for Environmental Studies

Spring 2022: enrollment = 12; mean overall course evaluation (5 point scale) = 4.80

Fall 2020: enrollment = 12; mean overall course evaluation (5 point scale) = 4.83

Spring 2019: enrollment = 10; mean overall course evaluation (5 point scale) = 4.82

Infographics: Visualization of Scientific Data (co-instructor; graduate-level)

Virginia Commonwealth University, Center for Environmental Studies / Communication Arts

Spring 2021: enrollment = 5; mean overall course evaluation (5 point scale) = 4.97

Spring 2020: enrollment = 18; (evaluations not administered due to Covid-19)

Spring 2018: enrollment = 9; mean overall course evaluation (5 point scale) = 4.73

Fall 2016: enrollment = 7; mean overall course evaluation (5 point scale) = 4.79

Fall 2015: enrollment = 6; (evaluations not administered due to <10 enrollment)
Fall 2014: enrollment = 7; (evaluations not administered due to <10 enrollment)

Network Modeling in Ecology (graduate-level)

Virginia Commonwealth University, Center for Environmental Studies / Communication Arts
Fall 2018: enrollment = 7; mean overall course evaluation (5 point scale) = 4.72

Fish Biology (co-instructor; graduate-level)

Virginia Commonwealth University, Center for Environmental Studies
Fall 2016: enrollment = 7; mean overall course evaluation (5 point scale) = 4.24

Web Design for Scientists (co-instructor; graduate-level)

Virginia Commonwealth University, Center for Environmental Studies / Communication Arts
Spring 2016: enrollment = 5; (evaluations not administered due to <10 enrollment)

Conservation Biogeography (graduate-level)

Virginia Commonwealth University, Center for Environmental Studies
Fall 2017: enrollment = 10; mean overall course evaluation (5 point scale) = 4.63
Spring 2016: enrollment = 8; mean overall course evaluation (5 point scale) = 4.44
Spring 2015: enrollment = 5; (evaluations not administered due to <10 enrollment)
Spring 2014: enrollment = 7; (evaluations not administered due to <10 enrollment)
Spring 2012: enrollment = 10; mean overall course evaluation (5 point scale) = 4.80

Senior Seminar (Capstone) in Environmental Studies (undergraduate-level)

Virginia Commonwealth University, Center for Environmental Studies
Spring 2018: enrollment = 28 (course currently being taught)
Spring 2017: enrollment = 30; mean overall course evaluation (5 point scale) = 4.61
Fall 2015: enrollment = 30; mean overall course evaluation (5 point scale) = 4.36
Fall 2014: enrollment = 30; mean overall course evaluation (5 point scale) = 4.14
Fall 2013: enrollment = 30; mean overall course evaluation (5 point scale) = 4.26
Fall 2012: enrollment = 66; mean overall course evaluation (5 point scale) = 4.50
Fall 2011: enrollment = 50; mean overall course evaluation (5 point scale) = 4.23

Conservation Ecology (undergraduate-level)

University of Georgia, Odum School of Ecology
Fall 2009: enrollment = 76; (did not receive course evaluations)
Fall 2008: enrollment = 49; mean overall course evaluation (5 point scale) = 4.56

Multicultural Perspectives in Natural Resources (primary instructor; undergraduate-level)

Oregon State University, Department of Fisheries and Wildlife
Fall 2006: enrollment = 27; median overall course evaluation (6 point scale) = 5.2
Spring 2006: enrollment = 26; median overall course evaluation (6 point scale) = 5.07

GRADUATE STUDENT AND POST-DOC ADVISEES (* - indicates that I am/was the major advisor)

Anderson, Reid	VCU, Environmental Studies (M.S.; graduated December 2019)
Brown, Alex	VCU, Biology (M.S.; graduated May 2021)
Bertin, Tor Gareth	VCU, Biology (M.S.; graduated August 2019)
Bolte, Connie	VCU, Biology (M.S.; graduated May 2017); Integrative Life Sci. (Ph.D.)

Caplins, Serena	VCU, Biology (M.S.; graduated May 2013)
Colteaux, Benjamin	VCU, Integrative Life Sciences (Ph.D.; graduated December 2017)
Devore, Dana	VCU, Environmental Studies (M.S.; graduated May 2015)
Dodson, Jenna	VCU, Environmental Studies (M.S.; graduated August 2015)
Dunlap, Thomas	VCU, Biology (M.S.; graduated May 2014)
Faunce, Kaycee*	VCU, Environmental Studies (M.S.; graduated December 2020)
Hendrick, Lindsey*	VCU, Environmental Studies (M.S.; graduated May 2018)
Hickey, Laura	VCU, Biology (M.S.; graduated May 2022)
Isenberg, William	VCU, Environmental Studies (M.S.; graduated May 2012)
Kirk, Andrew*	VCU, Biology (M.S.; graduated May 2016)
Langford, Bree	VCU, Environmental Studies (M.S.; graduated May 2012)
Lee, William	VCU, Environmental Studies (M.Envs.; graduated May 2012)
Lin, Baron	VCU, Biology (M.S.; graduated May 2021)
Lucas, Rikki	VCU, Biology (M.S.; graduated May 2019)
Madrone, Justin	VCU, Environmental Studies (M.S.; graduated May 2013)
Mason, Chris*	VCU, Environmental Studies (M.Envs.; graduated December 2016)
McCulloch, Danielle	VCU, Environmental Studies (M.S.; graduated August 2018)
Moretz, Brittany	VCU, Biology (M.S.; graduated December 2020)
Noel, Joseph*	VCU, Environmental Studies (M.S.; graduated May 2018)
Racanelli, Giancarlo*	VCU, Environmental Studies (M.S.; graduated August 2021)
Rellick, Joshua*	VCU, Environmental Studies (M.Envs.; graduated May 2013)
Roderique, Bonnie	VCU, Environmental Studies (M.S.; graduated August 2018)
Rouch, Matthew*	VCU, Environmental Studies (M.S.; graduated August 2014)
Sinclair, Michael	VCU, Biology (M.S.; graduated May 2018)
Staats, Ethan	VCU, Biology (M.S.; graduated May 2015)
Tassone, Spencer	VCU, Biology (M.S.; graduated May 2017)
Terra, Bianca*	Post-doc (Universidade Federal Rural do Rio de Janeiro)
Thompson, Lily	VCU, Biology (M.S.; graduated May 2014)
Trache, Brendan	VCU, Environmental Studies (M.S.; graduated May 2015)
Via, Stephen	VCU, Integrative Life Sciences (Ph.D.; graduated August 2016)
Vergamini, Marie	VCU, Integrative Life Sciences (Ph.D.)
Walls, Felisha*	VCU, Integrative Life Sciences (Ph.D.; graduated December 2022)
Williams, Laurel	VCU, Environmental Studies (M.S.; graduated May 2014)
Wood, Joe	VCU, Integrative Life Sciences (Ph.D.; graduated May 2014)
Woods, Taylor*	VCU, Environmental Studies (M.S.; graduated May 2018)

PROFESSIONAL SERVICE

Manuscript Reviewer:

Canadian Journal of Fisheries and Aquatic Sciences; Conservation Biology; Diversity and Distributions; Ecography; Ecohydrology; Ecological Applications; Ecological Modelling; Ecosphere; Ecosystems; Endangered Species Research; Environmental Management; Environmental Science & Technology; Freshwater Biology; Fisheries Magazine (Associate/Science Editor 2011-2019); Global Ecology and Biogeography; International Journal of Environmental Science and Technology; Journal of Biogeography; Limnology and Oceanography Letters; Marine and Freshwater Research; Oecologia; PLoS One; Reviews in Fish Biology and Fisheries; Teaching Issues and Experiments in Ecology; Transactions of the American Fisheries Society

Review Panelist:

National Science Foundation, Division of Graduate Education (2013, 2019, 2022)
National Science Foundation, Division of Environmental Biology (2021)
U.S. Environmental Protection Agency, National Center for Environmental Research (2013)
EURAC Research, Institute for Alpine Environment (Italy; 2020)
National Council for Scientific and Technological Development (CNPq, Brazil; 2015)

K-12 Education:

Invited speaker, *Maggie L. Walker Governor's School*, Richmond, VA (2013)
Invited speaker, *Driven to Discover Science Summer Camp* (NSF), Powhatan, VA (2013, 2014)
Invited speaker, *Chesapeake Bay Governor's School*, Richmond, VA (2014)
Invited speaker, *Virginia Association of Environmental Education*, Lynchburg, VA (2021)