

Bradley J. Cosentino

Department of Biology
Hobart and William Smith Colleges
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Education

Ph.D., Ecology, Evolution, and Conservation Biology, University of Illinois, 2011.
B.A., Biology, Augustana College (IL), *summa cum laude*, 2004.

Professional positions

2024-present	Professor, Department of Biology, Hobart and William Smith Colleges
2024-2025	Chair, Environmental Science Program, Hobart and William Smith Colleges
2021-present	Adjunct Associate Professor, Department of Environmental Biology, SUNY College of Environmental Science and Forestry
2021-2024	Chair, Department of Biology, Hobart and William Smith Colleges
2018-2024	Associate Professor, Department of Biology, Hobart and William Smith Colleges.
2012-2018	Assistant Professor, Department of Biology, Hobart and William Smith Colleges
2011-2012	Postdoctoral Research Associate, Department of Natural Resources and Environmental Sciences, University of Illinois
2011-2012	Visiting Scientist, Jornada Basin LTER, USDA Agricultural Research Service, Las Cruces, NM.
2005	Research Technician, Cary Institute of Ecosystem Studies and Hubbard Brook Experimental Forest
2004	Research Technician, University of Missouri and Highlands Biological Station
2003	National Science Foundation Research Experiences for Undergraduates, Cary Institute of Ecosystem Studies

Publications

*Published peer-reviewed articles: (underline = undergrad co-author; * = graduate student coauthor)*

2025	Parlin, A.F., B.J. Cosentino , R.M. Lehtinen, J.E. McDonald, E.C.C. Sinclair, and J.P. Gibbs. Road mortality contributes to the evolution of an urban-rural cline in squirrel coat color. <i>Evolutionary Applications</i> 18(5), e70109.
2025	*Proctor, J., <u>A. Bryan</u> , B.J. Cosentino , and J.P. Gibbs. Crypsis in a polymorphic mammal along an urbanization gradient. <i>Urban Ecosystems</i> 28:94.
2024	Honzák, M., D. Will, G. Roberts, H. McKenzie-McHarg, A. Thieme, J.O. Sexton, M. Feng, B. Cosentino , J. Wilson. Toward the quantification of climate co-benefits of invasive mammal eradication on islands: A scalable framework for restoring monitoring. <i>Environmental Research Letters</i> 19:114018.
2024	<u>Tennant, J.H.</u> , B.J. Cosentino , L.B. Cleckner, K.M. Brubaker, and N.R. Razavi. Methylmercury concentrations more strongly associated with trait variation than food web position in plethodontid salamanders. <i>Environmental Toxicology and Chemistry</i> .
2024	Alexander, N.B.*, de Flamingh, A., B.J. Cosentino , and R.L. Schooley. Phylogenetic assessment within a species complex of a subterranean rodent (<i>Geomys bursarius</i>) with conservation implications for isolated subspecies. <i>Journal of Heredity</i> esae035.
2024	Alexander, N.B.*, B.J. Cosentino , and R.L. Schooley. Partitioning genetic structure of a subterranean rodent at multiple spatial scales: integrating isolation by barriers, distance, and environment. <i>Landscape Ecology</i> 39:92
2024	Wagnon, C.J.*, B.J. Cosentino , and R.L. Schooley. Linking animal personality and habitat restoration for a keystone species. <i>Animal Behaviour</i> 212:13-30.
2024	Fusco, N.A., B.J. Cosentino , et al. Population genomic structure of a widespread, urban-dwelling mammal: The eastern gray squirrel (<i>Sciurus carolinensis</i>). <i>Molecular Ecology</i> 33:e17230.

- 2023 **Cosentino, B.J.**, J.P. Vanek, and J.P. Gibbs. Rural selection drives the evolution of an urban-rural cline in coat color in gray squirrels. *Ecology and Evolution* 13:e10544.
- 2022 Alexander, N.B.*, **B.J. Cosentino**, and R.L. Schooley. Testing the niche reduction hypothesis for a fossorial rodent (*Geomys bursarius*) experiencing agricultural intensification. *Ecology and Evolution* 12:e9559.
- 2022 **B.J. Cosentino** and J.P. Gibbs. Parallel evolution of urban-rural clines in melanism in a widespread mammal. *Scientific Reports* 12:1752.
- 2021 Elmore, J.A.*, S.B. Hager, **B.J. Cosentino**, et al. Correlates of bird collisions with buildings across three North American countries. *Conservation Biology* 35:654-665.
- 2021 Brubaker, K. and **B.J. Cosentino**. Forest structure and biomass in post-agricultural forests: Lessons learned with new spatial tools. *Applied Vegetation Science* 24:e12552.
- 2020 Wagnon, C.J.*, R.L. Schooley, and **B.J. Cosentino**. Shrub encroachment creates a dynamic landscape of fear for desert lagomorphs via multiple pathways. *Ecosphere*, 11(9):e03240.
- 2019 **Cosentino, B.J.**, R.L. Schooley, B.T. Bestelmeyer, H. Campos, and L.M. Burkett. Does habitat disturbance promote geographical parthenogenesis in whiptail lizards? *Evolutionary Ecology* 33:839-853.
- 2019 Bowne, D.R., **B.J. Cosentino**, L.J. Anderson, et al. A broader approach to understanding urbanization effects on freshwater turtles: Reply to Lambert and Steen 2019. *Conservation Biology* 33:1197-1199.
- 2019 Marsh, D.M., and **B.J. Cosentino**. Causes and consequences of non-random drop-outs for citizen science projects: Lessons from the North American Amphibian Monitoring Program. *Freshwater Sciences* 38:292-302. Invited Paper.
- 2019 Kenyon, K.L., **B.J. Cosentino**, A.J. Gottesman, M.E. Onorato, J. Hoque, and S.G. Hoskins. From CREATE workshop to course implementation: examining the downstream impacts on teaching practices and student learning at 4YR institutions. *BioScience* 69:47-58.
- 2018 **Cosentino, B.J.**, and K.M. Brubaker. Effects of land use legacies and habitat fragmentation on salamander abundance. *Landscape Ecology* 33:1573-1584.
- 2018 Bowne, D.R., **B.J. Cosentino**, L.J. Anderson, C.P. Bloch, S. Cooke, et al. Effects of urbanization on population structure of freshwater turtles across the United States. *Conservation Biology* 32:1150-1161.
- 2017 Otaibi, B., Q. Johnson, and **B.J. Cosentino**. Postautotomy tail movement differs between colour morphs of the red-backed salamander (*Plethodon cinereus*). *Amphibia-Reptilia* 38:395-399.
- 2017 **Cosentino, B.J.**, J.D. Moore, N.E. Karraker, M. Ouellet, and J.P. Gibbs. Evolutionary response to global change: climate and land use interact to shape color polymorphism in a woodland salamander. *Ecology and Evolution* 7:5426-5434.
- 2017 Hager, S.B., **B.J. Cosentino**, M.A. Aguilar-Gómez, M. L. Anderson, M. Bakermans, et al. Continent-wide analysis of how urbanization affects bird-window collision mortality in North America. *Biological Conservation* 212:209-215. *Selected as Editor's choice.
- 2017 Marsh, D.M., **B.J. Cosentino**, K.S. Jones, J.J. Apodaca, K.H. Beard, J.M. Bell, C. Bozarth, D. Carper, J.F. Charbonnier, A. Dantas, E.A. Forys, M. Foster, J. General, K.S. Genet, M. Hanneken, K.R. Hess, S. Hill, F. Iqbal, N.E. Karraker, E.S. Kilpatrick, T.A. Langen, J. Langford, K. Lauer, A.J. McCarthy, J. Neale, S. Patel, A. Patton, C. Southwick, N. Stearrett, N. Steijn, M. Tasleem, J.M. Taylor, and J.R. Vonesh. Effects of roads and land use on frog distributions across spatial scales in the eastern and central United States. *Diversity and Distributions* 23:158-170.
- 2016 **Cosentino, B.J.** and D.C. Droney. Movement behaviour of woodland salamanders is repeatable and varies with forest age in a fragmented landscape. *Animal Behaviour* 121:137-146.
- 2015 **Cosentino, B.J.**, R.L. Schooley, B.T. Bestelmeyer, A.J. McCarthy, and K. Sierzega. Rapid genetic restoration of a keystone species exhibiting delayed demographic response. *Molecular Ecology* 24:6120-6133.
- 2014 **Cosentino, B.J.**, D.M. Marsh, K.S. Jones, J.J. Apodaca, C. Bates, J. Beach, K.H. Beard, K. Becklin, J.M. Bell, C. Crockett, G. Fawson, J. Fjelsted, E.A. Forys, K.S. Genet, M. Grover, J. Holmes, K. Indeck, N.E. Karraker, E. Kilpatrick, T.A. Langen, S.G. Mugele, A. Molina, J.R. Vonesh, R. Weaver, and A. Willey.

- Citizen science reveals widespread negative effects of roads on amphibian distributions. *Biological Conservation* 180:31–38. *Selected as Editor's choice.
- 2014 McAllister, M.M., R.L. Schooley, B.T. Bestelmeyer, J.M. Coffman, and **B.J. Cosentino**. Effects of grassland restoration efforts on mound-building ants in the Chihuahuan Desert. *Journal of Arid Environments* 111:79–83.
- 2014 **Cosentino, B.J.**, R.L. Schooley, B.T. Bestelmeyer, J.F. Kelly, and J.M. Coffman*. Constraints and time lags for recovery of a keystone species (*Dipodomys spectabilis*) after landscape restoration. *Landscape Ecology* 29:665–675.
- 2013 **Cosentino, B.J.**, R.L. Schooley, B.T. Bestelmeyer, and J.M. Coffman*. Response of lizard community structure to desert grassland restoration mediated by a keystone rodent. *Biodiversity and Conservation* 22:921–935.
- 2013 Hager, S.B., **B.J. Cosentino**, K.J. McKay, C. Monson, W. Zuurdeeg, and B. Blevins. Window area and development drive spatial variation in bird-window collisions in an urban landscape. *PLoS One* 8(1):e53371.
- 2013 Bluett, R.D., and **B.J. Cosentino**. Estimating occupancy of *Trachemys scripta* and *Chrysemys picta* with time-lapse cameras and basking rafts: a pilot study in Illinois, USA. *Transactions of the Illinois State Academy of Science* 106:15–21.
- 2012 **Cosentino, B.J.**, C.A. Phillips, R.L. Schooley, W.H. Lowe, and M.R. Douglas. Linking extinction-colonization dynamics to genetic structure in a salamander metapopulation. *Proceedings of the Royal Society B* 279:1575–1582.
- 2012 Hager, S.B., **B.J. Cosentino**, and K.J. McKay. Scavenging affects persistence of avian carcasses resulting from window collisions in an urban landscape. *Journal of Field Ornithology* 83:203–211.
- 2012 Lowe, W.H., M.A. McPeck, G.E. Likens, and **B.J. Cosentino**. Decoupling of genetic and phenotypic divergence in a headwater landscape. *Molecular Ecology* 21:2399–2409.
- 2011 **Cosentino, B.J.**, R.L. Schooley, and C.A. Phillips. Spatial connectivity moderates the effect of predatory fish on salamander metapopulation dynamics. *Ecosphere* 2(8):art95.
- 2011 **Cosentino, B.J.**, R.L. Schooley, and C.A. Phillips. Connectivity of agroecosystems: dispersal costs can vary among crops. *Landscape Ecology* 26:371–379.
- 2010 **Cosentino, B.J.**, R.L. Schooley, and C.A. Phillips. Wetland hydrology, area, and isolation influence occupancy and spatial turnover of the painted turtle, *Chrysemys picta*. *Landscape Ecology* 25:1589–1600.
- 2009 **Cosentino, B.J.**, W.H. Lowe, and G.E. Likens. Demography and movement of the northern spring salamander in four New Hampshire headwater streams. *Verh. Internat. Verein. Limnol.* 30:677–680.
- 2008 Lowe, W.H., M.A. McPeck, G.E. Likens, and **B.J. Cosentino**. Linking movement behavior to dispersal and divergence in plethodontid salamanders. *Molecular Ecology* 17:4459–4469.
- 2006 Hager, S.B., and **B.J. Cosentino**. An identification key to the rodent prey found in owl pellets: employing incisor size to distinguish among genera. *American Biology Teacher* 68:135–144.
- 2006 Lowe, W.H., G.E. Likens, and **B.J. Cosentino**. Self-organization in streams: the relationship between movement behavior and body condition in a headwater salamander. *Freshwater Biology* 51:2052–2062.
- Book chapters:*
- 2019 Gibbs, J.P., M.F. Buff, and **B.J. Cosentino**. The biological system – Urban wildlife, adaptation and evolution: urbanization as a driver of contemporary evolution in gray squirrels (*Sciurus carolinensis*). In Hall, M.A. and S. Balogh, eds. *Understanding Urban Ecology*, Springer, pp. 269–286.
- 2018 **Cosentino, B.J.** and R.L. Schooley. Dispersal and wetland fragmentation. In: Finlayson, C., et al. (editors). *The Wetland Book*. Springer, Dordrecht.
- 2018 Schooley, R.L. and **B.J. Cosentino**. Metapopulation dynamics of wetland species. In: Finlayson, C., et al. (editors). *The Wetland Book*. Springer, Dordrecht.

Technical reports:

- 2023 **Cosentino, B.J.** Trend estimation and effects of landscape composition on the distribution of Illinois chorus frogs (*Pseudacris illinoensis*) in Illinois. Illinois Department of Natural Resources, Springfield, Illinois.
- 2022 Will, D.J., G. Roberts, H. McKenzie-McHarg, A. Thieme, J. Sexton, and **B.J. Cosentino**. A natural capital accounting system for island-marine ecosystem restorations. Island Conservation. Published by Island Conservation, Santa Cruz, California.
- 2018 **Cosentino, B.J.** Examining occupancy and detection probability after three years of monitoring for the Illinois chorus frog (*Pseudacris streckeri illinoensis*). Illinois Department of Natural Resources, Springfield, Illinois.
- 2014 **Cosentino, B.J.** Monitoring plan to detect trends in occupancy of Illinois chorus frogs (*Pseudacris streckeri illinoensis*). Illinois Department of Natural Resources, Springfield, Illinois.
- 2008 **Cosentino, B.J.**, C.A. Phillips, and R.L. Schooley. Wetland occupancy and landscape connectivity for Blanding's and Western Painted Turtles in the Green River Valley. Illinois Natural History Survey Technical Report 2008(55).

Pre-prints:

- 2025 Bonar, M., A.J. Blumenfeld, N.A. Fusco, L. Campagna, A. Timpson, M.G. Thomas, **B.J. Cosentino**, J.P. Gibbs, and A. Caccone. Urban refuge? Squirrel pigmentation clines maintained by strong natural selection beyond city limits. Research Square. <https://doi.org/10.21203/rs.3.rs-6761695/v1>
- 2025 Borden, J.P., J.P. Gibbs, J.P. Vanek, and **B.J. Cosentino**. Beyond urbanization metrics: Using graphical causal models to investigate mechanisms in urban ecology and evolution. bioRxiv. <https://doi.org/10.1101/2024.09.03.611045>
- 2014 Hager, S.B., and **B.J. Cosentino**. Surveying for bird carcasses resulting from window collisions: a standardized protocol. *PeerJ PrePrints* 2:e406v1.

Book reviews:

- 2006 Hager, S.B., and **B.J. Cosentino**. Book review of The Naked Emperor: Darwinism Exposed. *Reports of the National Center for Science Education* 26(6):27–28.
- 2005 Mollan, T., **B.J. Cosentino**, and J.J. Williams. Book review of Law, Darwinism, and Public Education: the Establishment Clause and the Challenge of Intelligent Design. *Reports of the National Center for Science Education* 25(3–4):41–43.
- 2004 Williams, J.J., S.B. Hager, and **B.J. Cosentino**. Book review of Darwin's Proof: The Triumph of Religion Over Science. *Reports of the National Center for Science Education* 23(3–4):43–44.
- 2003 **Cosentino, B.J.**, J.J. Williams, L.B. Guderyahn, and S.B. Hager. Book review of Designer Universe: Intelligent Design and the Existence of God. *Reports of the National Center for Science Education* 23(1):28–29.

Other publications:

- 2018 Bio Box: Bird-window collisions. In Ornithology: Foundation, Critique, and Application. Morrison, M.L., A.D. Rodewald, G. Voelker, J.F. Prather, and M.R. Colon, editors. John Hopkins University Press.

Grants and other funding

Awarded:

- 2023 National Aeronautics and Space Administration (NASA). Biggest Bang for Your Buck: Using NASA Earth Observations to understand and maximize holistic ecosystem benefits from invasive mammal eradications on islands. Co-I/Science PI with D. Will, J. Sexton, J. Wilson, P. Wang, J. Gibbs, and A. Levine. Total award: \$871,500. Sub: \$217,467.
- 2020 National Science Foundation. Adaptive and nonadaptive mechanisms of phenotypic evolution in response to urbanization. PI with J.P. Gibbs and A. Caccone. Total award: \$1,500,000. Sub: \$426,452.
- 2016 USGS, DOI, NYS DEC, and Hudson River Estuary Program. Water Resources Research Grant Program. Linking land use and climate dynamics to ecological responses of amphibians and reptiles within New

	York State watersheds: An integrative approach using citizen science. Co-PI with J.P. Gibbs. Total award: \$10,024.
2016	United States Fish and Wildlife Service. Federal Aid in Wildlife Restoration. <i>Geomys bursarius</i> in Illinois. Distribution and co-occurrence with badgers, movements and survival, and spatial genetic structure. Co-PI with R.L. Schooley. Total award: \$509,373. Sub: \$100,000.
2016	United States Department of Agriculture. AFRI-BNRE: Agroecosystem Management. Spatial congruence between biodiversity and other ecosystem services across scales in a managed landscape mosaic. Co-PI with R.L. Schooley, B.T. Bestelmeyer, and B.B. Cutts. Total award: \$440,000 total. \$56,500.
2014	Illinois Department of Natural Resources. Creating a statewide monitoring plan for the Illinois Chorus Frog. Total award: \$11,170.
2007	Illinois Department of Natural Resources. Illinois Wildlife Preservation Fund. Wetland occupancy and landscape connectivity for Blanding's and western painted turtles in the Green River Valley. PI with C.A. Phillips and R.L. Schooley. Total award: \$5,000.

Teaching

Hobart and William Smith Colleges:

2012-present	Biostatistics (BIOL230), Evolutionary Genetics (BIOL215), Ecology (BIOL 225), Evolution (BIOL300), Wildlife Ecology and Management (BIOL315), Conservation Biology (BIOL316), Senior Seminar: Biology of the City (BIOL460), Senior Seminar: Human Nature (BIOL460), Senior Seminar: Animal Color (BIOL460)
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University of Illinois:

2010	Environmental Biology (IB105)
2006-2009	Teaching assistant, Organismal and Evolutionary Biology (IB150), Ecology (IB203), Genetics (IB204), Evolution (IB302), Honors Ecology and Evolution (IB372), Conservation Biology (IB451)

Mentoring of undergraduate students, graduate students, and postdoctoral associates

Postdoctoral associate advisor:

2024-present	Christy Wails, Department of Biology, Hobart and William Smith Colleges
2023-2024	Jesse Borden, Department of Biology, Hobart and William Smith Colleges
2021-2022	John Vanek, Department of Biology, Hobart and William Smith Colleges.

Graduate faculty advisor:

2021-2023	Jessica Proctor, M.S. Degree, Department of Environmental Biology, SUNY College of Environmental Science and Forestry. Co-advised with James Gibbs.
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Undergraduate faculty advisor:

2024	Calvin Lincoln, Independent Study in Biology. Antipredator behavior and color polymorphism in eastern gray squirrels.
2022	Samantha Sorensen and Henry Loudon, Independent Study in Biology. Linking coat color in eastern gray squirrels to predator attack rates in urban and rural environments.
2021	Mark Suchewski, Independent Study in Biology. Habitat selection by color morphs of eastern gray squirrels following translocation.
2019-2020	Alessandra Bryan, Honors Thesis in Biology. Effects of urbanization on the evolution of coat color in eastern gray squirrels.
2018-2019	Grace Marshall, Honors Thesis in Biology. Personality-dependent dispersal in a woodland salamander.
2018	Alessandra Bryan, Independent Study in Biology. Population genetic structure of the plains pocket gopher (<i>Geomys bursarius</i>)
2017-2018	Banan Otaibi, Honors Thesis in Biology. Evolutionary effects of land use legacies on color morphology in salamanders.
2017	Michael Conroy, Independent Study in Biology. Modeling spatial and temporal variation in the incidence and prevalence of sexually-transmitted diseases.

- 2015 Madeline Balman, Independent Study in Biology. Evolution of movement behavior in response to road mortality.
- 2014-2015 Alison McCarthy, Honors Thesis in Biology. Effects of forest edges on the behavior of red-backed salamanders.
- 2014 Lauren Walter, Independent Study in Biology. Effects of building structural features and land use on bird-window collisions.
- 2013-2014 Samuel Knopka, Honors Thesis in Biology. Spatial distribution of a terrestrial salamander along a forest fragmentation gradient.

Graduate student committee member:

- 2023-present Jeremiah Tennant, M.S. Degree, Department of Environmental Biology, SUNY College of Environmental Science and Forestry.
- 2018-2023 Nathan Alexander, Ph.D. Degree, Department of Natural Resources and Environmental Sciences, University of Illinois.
- 2018-2023 Casey Wagnon, Ph.D. Degree, Department of Natural Resources and Environmental Sciences, University of Illinois.
- 2018 Harrison Goldspiel, M.S. degree, Environmental and Forest Biology, SUNY-Environmental Science and Forestry
- 2014 Allen Hamilton, M.S. degree, Department of Natural Resources Science, University of Rhode Island

Undergraduate summer research mentor

- 2024 Calvin Lincoln, Magnus Von Krusenstiern, Jasmine Ho, Aidan Staunton
- 2023 Calvin Lincoln, Chidalu Nwokolo, James Nelson
- 2022 Ruben Navarro, Hannah Huston, Devon Adamo, Alexandra Miller, Jordan Britton, Henry Loudon
- 2021 Regina Hashim, Mark Suchewski, Anna Rider, Hanna Swett
- 2020 Connor Parrow
- 2019 Britta Goncarovs, Mark Suchewski, Alessandra Bryan
- 2018 Grace Marshall, Penelope Murphy, Alessandra Bryan, Britta Goncarovs, Josh Pugliese, Anna Leffler
- 2017 Banan Otaibi, Grace Marshall, Alessandra Bryan, Morgan Ross
- 2016 Banan Otaibi, Katie Rogan, Thomas Stephens (Union College)
- 2015 Madeline Balman, Shay Callahan
- 2014 Alison McCarthy, Nicholas Steijn
- 2013 Samuel Knopka, Alison McCarthy

Honors and awards

- 2024 Faculty Award for Outstanding Scholarship, Hobart and William Smith Colleges
- 2017 Editor's Choice, *Biological Conservation*.
- 2014 Editor's Choice, *Biological Conservation*
- 2010 NASA-Michigan State University Professional Enhancement Award, International Association for Landscape Ecology (US-IALE)
- 2006-2010 Recognized as Excellent Teacher by Students, University of Illinois
- 2009 John G. and Evelyn Hartman Heiligenstein Outstanding Teaching Assistant Award, School of Integrative Biology, University of Illinois
- 2006, 2007 NSF Graduate Research Fellowship Program – *Honorable Mention*
- 2005-2008 University of Illinois Distinguished Fellowship

Presentations

Invited talks:

- 2023 Rural selection drives the evolution of an urban-rural cline in coat color in gray squirrels. Cornell University. EvoDay Symposium on The Genomics of Adaptation.
- 2023 Urbanization and the evolution of coat color in eastern gray squirrels. Queens College – City University of New York, Department of Biology Colloquium.
- 2023 Urban evolution: how cities are changing our wildlife. Wood Library Seminar Series. Canandaigua, NY

- 2022 Urbanization and the evolution of coat color in eastern gray squirrels. Adaptive Peaks Seminar Series. SUNY School of Environmental Sciences and Forestry, NY.
- 2021 Salamanders and land use history in the Finger Lakes. Finger Lakes Museum, Branchport, NY.
- 2020 Wildlife responses to shrub encroachment and landscape restoration in the Chihuahuan Desert. University of Arizona, School of Natural Resources and the Environment.
- 2020 Wildlife responses to environmental change and management: From New Mexico to New England. University of Massachusetts, Department of Environmental Conservation.
- 2017 Effects of global change on trait variation in a woodland salamander. Utica College, NY.
- 2016 Behavioral divergence of woodland salamanders in a fragmented landscape. EvoDay Symposium on Evolution and Conservation. Cornell University, NY.
- 2016 Effects of global change on trait variation in a woodland salamander. University of Rhode Island, RI.
- 2015 Restoration of a keystone rodent in a shrub-encroached landscape. Skidmore College, NY.
- 2015 Insights into effects of roads on amphibians from citizen science. Road Ecology Symposium. 100th Annual Meeting of the Ecological Society of America.
- 2015 Landscape change and biodiversity conservation. Honors Institute Lecture Series, Monroe Community College, NY.
- 2015 Restoration of a keystone rodent in a shrub-encroached landscape. Clarkson University, NY.
- 2015 Restoration of a keystone rodent in a shrub-encroached landscape. SUNY Buffalo State, NY.
- 2015 How roads affect amphibians and what we can do about it. Speaking of Nature Lecture Series, Finger Lakes Community College Muller Field Station, NY.
- 2014 Responses of biodiversity to restoration of desert grasslands at landscape scales. SUNY School of Environmental Sciences and Forestry (SUNY-ESF), NY.
- 2014 Responses of biodiversity to restoration of desert grasslands at landscape scales. Union College, NY.
- 2014 Responses of biodiversity to restoration of desert grasslands at landscape scales. Ithaca College, NY.
- 2012 Landscape effects on wildlife populations and ecological restoration. Earlham College, IN.

Contributed presentations:

- 2023 International Urban Wildlife Conference, Washington DC. One first-authored presentation and two co-authored presentations.
- 2022 Society of Environmental Toxicology and Chemistry North America Annual Meeting, Pittsburgh, PA.
- 2022 American Society of Mammalogists Meeting. One co-authored presentation.
- 2022 International Association of Landscape Ecology – North America Meeting. One co-authored presentation.
- 2022 Annual Meeting of the New York Chapter of The Wildlife Society. Two co-authored presentations.
- 2021 International Association of Landscape Ecology – North America Meeting. One co-authored presentation.
- 2021 American Society of Mammalogists Meeting. Two co-authored presentation.
- 2019 U.S. – International Association of Landscape Ecology Meeting, Fort Collins, CO. One first-authored presentation.
- 2019 Evolution Meeting, Providence, RI. One co-authored presentation.
- 2019 Annual Meeting of the Ecological Society of America, Louisville, KY. One co-authored presentation.
- 2018 North American Congress for Conservation Biology. Toronto, Canada. One first-authored presentation.
- 2018 Joint Meeting of Ichthyologists and Herpetologists. Rochester, NY. One co-authored presentation.
- 2018 Annual Meeting of the Wilson Ornithological Society, Chattanooga, TN. One co-authored presentation.
- 2018 American Ornithology Meeting, Tucson, AZ. One co-authored presentation.
- 2017 Annual Meeting of the Ecological Society of America, Portland, OR. One first-authored presentation.
- 2017 U.S. – International Association of Landscape Ecology Meeting, Baltimore, MD. One co-authored presentation.
- 2017 Congreso para el Estudio y Conservación de las Aves de México. Morelia, Michoacán, México. One co-authored presentation.
- 2017 International Conference on Ecology and Transportation. Salt Lake City, UT. One co-authored presentation.
- 2017 Annual Meeting of the Wilson Ornithological Society, Fort Myers, FL. One co-authored presentation.
- 2016 Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL. One first-authored presentation.
- 2016 North American Ornithological Conference, Washington DC. One co-authored presentation.
- 2015 Annual Meeting of the Ecological Society of America, Baltimore, MD. One first-authored presentation.
- 2015 Ecological Research as Education Network Meeting, Elizabethtown, PA. One co-authored presentation.

2014	Annual Meeting of the Ecological Society of America, Sacramento, CA. One first-authored presentation and two co-authored presentations.
2014	North America Congress for Conservation Biology, Missoula, MT. One first-authored presentation.
2014	Ecological Research as Education Network Meeting, Rock Island, IL. One co-authored presentation.
2013	The 11 th International Mammalogical Congress, Belfast, UK. One first-authored presentation.
2013	Annual Meeting of the Ecological Society of America, Minneapolis, MN. One co-authored presentation.
2013	Ecological Research as Education Network Meeting, San Antonio, TX. One co-authored presentation.
2012	Annual Meeting of the Ecological Society of America, Portland, OR. One first-authored presentation.
2012	North American Ornithological Conference, Vancouver, Canada. One co-authored presentation.
2011	Annual Meeting of the Ecological Society of America, Austin, TX. One first-authored presentation.
2011	Annual Meeting of The Wildlife Society, Waikoloa, HI. One co-authored presentation.
2010	Annual Meeting of the US-International Association of Landscape Ecology, Athens GA. One first-authored presentation, One co-authored presentation.
2009	Midwest Fish and Wildlife Conference, Springfield, IL. One first-authored presentation.
2009	Annual Meeting of the US-International Association of Landscape Ecology, Snowbird, UT. One first-authored presentation.
2008	Midwest Fish and Wildlife Conference, Columbus, OH. One first-authored presentation.
2008	Annual Meeting of the Illinois State Academy of Science, Champaign, IL. One first-authored presentation.
2008	Annual Meeting of the Hubbard Brook Cooperators, West Thornton, NH. One co-authored presentation.
2008	Annual Meeting of the Ecological Society of America, Milwaukee, WI. One co-authored presentation.
2007	Midwest Fish and Wildlife Conference, Madison, WI. One first-authored presentation.
2007	Congress of the International Association of Theoretical and Applied Limnology, Montreal, Canada. One first-authored presentation.
2007	Conference on the Biology of Plethodontid Salamanders. San Cristóbal de las Casas, Chiapas, Mexico. One co-authored presentation.
2006	American Society of Limnology and Oceanography, Victoria, Canada. One co-authored presentation.
2005	Annual Meeting of the Illinois State Academy of Science, Galesburg, IL. One first-authored presentation.
2004	Annual Meeting of the Illinois State Academy of Science, Charleston, IL. One first-authored presentation.

Guest lectures and other presentations:

2016	Guest Lecture in Intro to Environmental Studies: Climate Change, Hobart and William Smith Colleges
2015, 2022	Faculty lunch speaker, Hobart and William Smith Colleges
2013	Guest Lecture in Aquatic Biology, Hobart and William Smith Colleges
2012	Guest Lecture in Biological Diversity, Earlham College, IN
2008-2012	Guest Lecture in Wildlife Population Ecology, University of Illinois
2007, 2011	Guest Field Instructor for Wildlife Field Techniques, University of Illinois
2011	Guest Field Instructor for Research in Field Biology, Augustana College, IL
2011	Guest Lecture in Environmental Biology, University of Illinois
2009	Guest Lecture in Honors Ecology and Evolution, University of Illinois
2009	Guest Lecture in Conservation Biology, University of Illinois
2008	EcoLunch Speaker, University of Illinois.
2008	Guest Lecture in Genetics, University of Illinois
2008	Guest Lecture in Neotropical Herpetology, Organization for Tropical Studies, Costa Rica.
2008	Guest Lecture in Herpetology, University of Illinois
2007	Guest Lecture in Research in Field Biology, Augustana College, IL
2007	Speaker, Illini Biological Society Research Symposium, University of Illinois
2005	Guest Lecture in Vertebrate Zoology, Augustana College, IL.

Service

Leadership roles at Hobart & William Smith Colleges, campus level

2023-24	Committee member, Academic Planning Committee
2023	Search committee member, Academic Department Coordinator for the Sciences
2023	Committee member, Tenure and promotion committee (RIII, International Relations)
2022	Committee member, Developing a program in environmental science
2021	Field examiner, Honors Program (Anna Rider, Environmental Studies)
2020-present	Chair, Institutional Animal Care and Use Committee

2020-present Committee member: HWS Land Use Committee
 2014-present Instructor, Environmental Studies Summer Youth Institute
 2014-2021 Chair, Hanley Field Station Steering Committee
 2020 Committee member: Tenure and promotion committee (RII, Economics)
 2018-2019 Chair, Committee on Committees
 2018-2019 Committee member, Data Governance Task Force
 2018-2019 Committee member, Executive Committee of the Faculty
 2012-2019 Committee member, Institutional Animal Care and Use Committee
 2018 Committee member, Search for Vice President for Academic Affairs & Senior Dean of Faculty
 2016-2018 Committee member, Committee on Committees
 2012-2017 Faculty Fellow, Hobart College Cross Country
 2017 Committee member, Exploratory subcommittee on a Scholar's Program
 2012-2015 Committee member, Goldwater Scholarship
 2015 Committee member, Grievance Committee
 2015 Faculty examiner, Honors Program (Kelly Haley, History)
 2015 Committee member: Faculty search (Economics)
 2015 Committee member: Faculty search (Mathematics)
 2014 Instructor, Quantitative Fellows training, Center for Teaching and Learning

Leadership roles at Hobart & William Smith Colleges, Department of Biology

2023 Search committee member, Animal and Plant Technician
 2023 Field examiner, Honors Program (Erika Sipos, Biology)
 2021-present Chair, Department of Biology
 2019 Field examiner, Honors Program (Penelope Murphy, Biology)
 2017-2018 Teaching Fellows Liaison
 2017-2018 Committee member, Introductory biology curriculum
 2017-2018 Committee member, Promotion review committee
 2015 Field examiner, Honors Program (Amanda Rappaport, Biology)
 2014-2015 Teaching Fellows Liaison
 2014, 2018 Biology representative, Admitted Student Meet and Greet
 2013 Biology representative, Science Research Fair for prospective students
 2013 Biology representative, Sophomore Majors and Minors Fair
 2012-2014 Seminar series organizer

External leadership roles

2023 Judge for student presentation awards. International Urban Wildlife Conference. Washington DC.
 2021-2022 External Reviewer, Undergraduate Honors Thesis (Jeremiah Tennant, SUNY-ESF)
 2015-present Co-Director, New York Amphibian and Reptile Survey, <https://www.nyherps.org/>
 2019-2021 Committee Member, Steering Committee for the New York Mammal Survey
 2017 Herpetofauna team leader, Cayuga Nature Center Bioblitz
 2015 Mentor, Graduate Student, Post Docs, and Mentor/Mentee Breakfast, Annual Meeting of the Ecological Society of America, Baltimore, MD
 2014 Provided guidance on sampling design for bird-window collisions to the Mitigating Bird Strikes on Campus Working Group.
 2012, 2014 Judge, Buell and Braun Awards (best student presentations), Annual Meeting of the Ecological Society of America, Portland, OR
 2012-2013 Ad hoc handling editor, *Conservation Biology*

Referee

Journal article reviews (# reviews):

Agriculture, Ecosystems and Environment (1)	Herpetological Conservation and Biology (1)
American Midland Naturalist (2)	Herpetological Review (2)
Amphibia-Reptilia (1)	Integrative Zoology (1)
Animal Conservation (2)	Journal of Animal Ecology (2)
Biodiversity and Conservation (2)	Journal of Applied Ecology (2)

Biological Conservation (6)
Bioscience (2)
Conservation Biology (5)
Ecography (6)
Ecological Applications (2)
Ecology (2)
Ecology and Evolution (2)
Ecological Indicators (2)
Ecosphere (3)
Frontiers in Ecology and the Environment (2)
Heredity (3)

Journal of Herpetology (4)
Journal of Mammalogy (1)
Journal of Wildlife Management (5)
Landscape Ecology (21)
Molecular Ecology (2)
Oecologia (2)
PLoS One (1)
Proceedings of the Royal Society B (2)
Restoration Ecology (1)
Urban Ecosystems (1)
Wildlife Biology (1)
Wilson Journal of Ornithology (1)

Grant reviews

National Science Foundation, Division of Environmental Biology
Natural Sciences and Engineering Research Council of Canada, Discovery Grant

Textbook reviews

Analysis of Biological Data (Whitlock and Schluter), 2nd Edition (8 chapters)

Other reviews

Tenure and promotion reviews (1)
Washington Connected Landscapes Project, U.S. Fish and Wildlife Service

Professional society membership

Society for the Study of Evolution
Ecological Society of America