

MICHAEL P. MOORE, Ph.D.

Department of Integrative Biology
University of Colorado Denver
Denver, CO 80217

Website: <http://www.moore-evo-eco.weebly.com>

Institutional Email: michael.p.moore@ucdenver.edu

Alternative Email: moore.evo.eco@gmail.com

APPOINTMENTS

2022 – Present	Assistant Professor	Department of Integrative Biology University of Colorado Denver
2019 - 2022	Biodiversity Post-Doctoral Fellow	Living Earth Collaborative Washington University in St. Louis

EDUCATION

2019	Ph.D. Biology	Case Western Reserve University
2014	M.S. Watershed Science	Murray State University
2011	B.S. Biology <i>Cum Laude</i>	Gonzaga University

PEER-REVIEWED PUBLICATIONS (25 total, 17 first author, 2 senior)

Bold font – CU Denver Lab Member. § - equal contribution. 1 - high-school student. 2 – undergraduate student. ‡ - corresponding, but not first, author.

View articles on Google Scholar: <https://scholar.google.com/citations?user=Na6MQ4QAAAAJ&hl=en&oi=ao>

*Links to representative media coverage below

- 2023 **Moore MP**. In Press. Ornamented species incur higher male mortality in the larval stage. *Biology Letters*.
- 2023 **Moore MP** and **Khan F²**. In Press. Relatively large wings facilitate life at high elevations among Nearctic Dragonflies. *Journal of Animal Ecology*.
- 2023 Hersch K² and **Moore MP[‡]**. In Press. Ornamentation diversified faster than eco-morphology across Nearctic dragonflies. *Biological Journal of the Linnean Society*.
- 2022 Leith NT, Fowler-Finn KD, and **Moore MP**. 2022. Evolutionary interactions between thermal ecology and sexual selection. *Ecology Letters* 25(9): 1919-1936.
* Research highlighted by The Washington Post, Fast Company, and The Wildlife Society Newsletter

- 2021 **Moore MP**, Hersch K², Sricharoen C², Lee S², Reice C², Rice P², Kronick S², Medley KA, and Fowler-Finn KD. 2021. Sex-specific ornament evolution is a consistent feature of climatic adaptation across space and time in dragonflies. *Proceedings of the National Academy of Sciences* 118(28): e2101458118.
- * Article chosen to be one of the issue's featured articles - <https://www.pnas.org/content/118/28/eiti2821118>
 - * Research highlighted by *Nature Climate Change* – <https://rdcu.be/cvMaF>
 - * Press coverage by The Washington Post, CNN, The Guardian, The Hill, Environment & Energy News, Smithsonian Magazine, St. Louis Post-Dispatch, The Times of India, Natural History Magazine, New Scientist, Science News, and many other outlets
 - * Interviewed on public radio (KWMU – St. Louis) and the “Weather or Not” Podcast (WSVN – Miami)
 - * Adapted for K-12 classrooms by *Science Journal for Kids* - https://sciencejournalforkids.org/wp-content/uploads/2021/10/dragonfly_article.pdf
- 2021 **Moore MP**. 2021. Larval habitats impose trait-dependent limits on the direction and rate of adult evolution in dragonflies. *Biology Letters* 17(5): 20210023.
- 2021 **Moore MP** and Martin RA. 2021. Natural selection on adults has trait-dependent consequences for juvenile evolution in dragonflies. *The American Naturalist* 197(6): 677-689.
- 2021 Leith NT, Macchiano AT, **Moore MP**, and Fowler-Finn KD. 2021. Temperature impacts all behavioral interactions during insect and arachnid reproduction. *Current Opinions in Insect Science* 45: 106-114
- 2020 **Moore MP**, Pechmann JHK, and Whiteman HH. 2020. Relative size underlies alternative morph development in a salamander. *Oecologia* 193(4): 879-888.
- 2020 Lis C¹, **Moore MP**[‡], and Martin RA. 2020. Warm development temperatures induce non-adaptive plasticity in the intrasexually selected colouration of a dragonfly. *Ecological Entomology* 45: 663-670.
- 2019 **Moore MP** and Martin RA. 2019. On the evolution of carry-over effects. *Journal of Animal Ecology* 88(12): 1832-1844.
- * Finalist for the Sidnie Manton Award – A biennial competition for the best review paper by an early career researcher in *Journal of Animal Ecology*
- 2019 **Moore MP**, Whiteman HH, and Martin RA. 2019. A mother's legacy: the strength of maternal effects in animal populations. *Ecology Letters* 22(10): 1620-1628.
- 2019 Lackey ACR, **Moore MP**, Doyle J, Gerlanc N, Hagan A, Geile M, Eden C, and Whiteman HH. 2019. Lifetime fitness, sex-specific life history, and the maintenance of a polyphenism. *The American Naturalist* 194(2): 230-245.
- 2019 Khazan ES, Verstraaten T, **Moore MP**, and Dugas MB[‡]. 2019. Nursery crowding does not influence offspring, but might influence parental, fitness in a phytotelm-breeding frog. *Behavioral Ecology and Sociobiology* 73: 33.

- 2019 **Moore MP**, Lis C¹, Gherghel I, and Martin RA. 2019. Temperature shapes the costs, benefits, and geographic diversification of sexual coloration in a dragonfly. *Ecology Letters* 22(3): 437-446.
- * Press coverage by MSN, the Daily Kos, ScienceDaily, the iNaturalist blog, Amore a Quattro Zampe (Italian), and several other outlets
 - * CWRU Department of Biology Outstanding Paper Award – 2nd Place – 2019
 - * Highlighted as an exciting new use of iNaturalist data on the citizen-science SciStarter Podcast (~26 minute mark)
- 2018 **Moore MP**, Lis C¹, and Martin RA. 2018. Immune deployment increases larval vulnerability to predators and inhibits adult life-history traits in a dragonfly. *Journal of Evolutionary Biology* 31(9): 1365-1376.
- 2018 **Moore MP** and Martin RA. 2018. Trade-offs between larval survival and adult ornament development depend on predator regime in a dragonfly. *Oecologia* 188(1): 97-106.
- 2018 **Moore MP**, Lis C¹, and Martin RA. 2018. Larval body condition regulates predator-induced life-history variation in a dragonfly. *Ecology* 99(1): 224-230.
- * CWRU Department of Biology Outstanding Paper Award – Honorable Mention – 2018
- 2016 **Moore MP** and Martin RA. 2016. Intrasexual selection favours an immune-correlated colour ornament in a dragonfly. *Journal of Evolutionary Biology* 29(11): 2256-2265.
- 2016 Dugas MB[§], **Moore MP**[§], Martin RA, Richards-Zawacki CL, and Sprehn CG. 2016. The pay-offs of maternal care increase as offspring develop, favouring extended provisioning in an egg-feeding frog. *Journal of Evolutionary Biology*. 29(10): 1977-1985.
- 2016 **Moore MP** and Whiteman HH. 2016. Natal philopatry varies with larval condition in salamanders. *Behavioral Ecology and Sociobiology*. 70(8): 1247-1255.
- 2016 **Moore MP**, Riesch R, and Martin RA. 2016. The predictability and magnitude of life-history divergence to ecological agents of selection: a meta-analysis in livebearing fishes. *Ecology Letters* 19(4): 435-442.
- * CWRU Department of Biology Outstanding Paper Award – 1st Place – 2016
- 2015 **Moore MP**, Landberg T, and Whiteman HH. 2015. Maternal investment mediates offspring life history variation with context-dependent fitness consequences. *Ecology* 96(9): 2499-2509.
- * Research highlighted at Phys.org
- 2015 Dugas MB, **Moore MP**, Wamelink CN, Richards-Zawacki CL, and Martin RA. 2015. An experimental test for age-related improvements in reproductive performance in a frog that cares for its young. *The Science of Nature* 102: 48.
- 2012 **Moore MP**, Burt CR, Whitney TD, Hastings SA, and Chang GC[‡]. 2012. Does social feeding improve larval survival of the two-spotted lady beetle, *Adalia bipunctata*? *Journal of Insect Science* 12: 101.

MANUSCRIPTS IN REVIEW

(available upon request)

Moore MP. How citizen science is super-charging the study of evolutionary adaptation in the Anthropocene. *In Revision* at *Proceedings of the American Philosophical Society*.

Stroud JT, **Moore MP**, Langerhans RB, and Losos JB. Fluctuating selection maintains distinct species phenotypes in an ecological community in the wild. *In Revision* at *Proceedings of the National Academy of Sciences*.

Martin RA, da Silva CRB, **Moore MP**, and Diamond SE. When will a changing climate outpace adaptive evolution? *In Revision* at *WIREs Climate Change*.

OTHER PUBLICATIONS

Moore MP, Hersch K, Sricharoen C, Lee S, Reice C, Rice P, Kronick S, Medley KA, and Fowler-Finn KD. 2021. How will dragonflies adapt to a warmer Earth? *Environmental Science Journal for Teens*. https://sciencejournalforkids.org/wp-content/uploads/2021/10/dragonfly_article.pdf

Moore MP. 2021. Human activity imperils one of the Earth's great survivalists: dragonflies. *The Hill (Opinion)*. <https://thehill.com/opinion/energy-environment/562526-human-activity-imperils-one-of-the-earths-great-survivalists>

Moore MP. 2020. There are no second acts in the lives of animals. *Animal Ecology in Focus*. <https://animalecologyinfocus.com/2020/04/17/there-are-no-second-acts-in-animal-life-cycles/>

GRANTS, AWARDS, AND FELLOWSHIPS

2023	CU Denver ORS All-Discipline Seed Grant (\$9,372)
2020	Sidnie Manton Award Finalist from <i>Journal of Animal Ecology</i>
2019-2022	Living Earth Collaborative – Biodiversity Post-Doctoral Fellowship (salary & research budget \$183,000)
2019-2021	University of Arizona – G.G. Simpson Post-Doctoral Fellowship (salary & research budget \$105,318; <i>Offer Declined</i>)
2019	CWRU Department of Biology Outstanding Paper Award – 2 nd Place
2018	CWRU Department of Biology Outstanding Paper Award – Honorable Mention
2018	Oglebay Grant Award (\$1,500)
2017	Joanne Westin Distinguished Graduate Student Teaching Award
2017-2018	GAANN Fellowship

2017	Theodore Roosevelt Memorial Fund Award (\$2,000)
2017	Oglebay Grant Award (\$1,429)
2016	CWRU Department of Biology Outstanding Paper Award – 1 st Place
2015	Murray State University Libraries #RacerScholars of the Week (Oct. 6)
2014	Watershed Research Grant (\$1,000)
2013	Watershed Research Grant (\$1,200)
2012-2014	Murray State University Innovation Research Assistantship (\$15,300)

MENTORSHIP AND TEACHING

Graduate Students

2023-Present Sarah Nalley University of Colorado Denver
PhD Thesis Topic: The physiological impact of wildfires on mating dynamics

Graduate Thesis Committees

2023-Present Jasmine Vidrio University of Colorado Denver
MS Thesis Topic: Carry-over effects of thermal stress

2023-Present Francis Anaya University of Colorado Denver
MS Thesis Topic: Post-wildfire forest dynamics at high elevations

2023-Present Goran Shikak University of Colorado Denver
MS Thesis Topic: Diversification of Chihuahan Solfugidae

2022-Present Audrey Spencer University of Colorado Denver
PhD Thesis Topic: Evolution and biogeography of Rosaceae shrubs

2022-Present Michelle Levin-Deprenger University of Colorado Denver
PhD Thesis Topic: Life-history and restoration of rare plants

2022-Present Alex Moss University of Colorado Denver
PhD Thesis Topic: Behavioral Ecology of Pavement Ants

2022-Present Comonla Acakpo University of Colorado Denver
Masters Thesis Topic: Biomechanical constraints on sexual signals in stalk-eyed flies

2022-Present Erin Estes Illinois State University
Masters Thesis Topic: Signaling & resource allocation within bird nests

2020-Present Karissa Coffield Murray State University
Masters Thesis Topic: Adaptive plasticity of coloration in response to environmental change

Undergraduate & High-School Student Mentorship

(1 – high-school student; 2 – undergraduate student)

2023-Present	Colette Bennet ¹ Project: Using citizen science to study phenotypic shifts following a wildfire	Chatfield High School
2022-Present	Dalal Hamadah ² Project: Does desiccation drive the origins & maintenance of a sexual structure?	University of Colorado Denver
2022-Present	Faiza Khan ² Project: Morphological constraints of high elevation life in dragonflies	University of Colorado Denver
2022-Present	Jesse Shaich ² Project: Aerobic constraints on upslope migration in insects	University of Colorado Denver
2019-2021	Kaitlyn Hersch ² Honor's Thesis: Ornaments evolved faster than eco-morphological traits among dragonflies Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2021	Paul Rice ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2020-2021	Saanya Sharma ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2021	Chanont Sricharoen ² Project: Using citizen science to unravel the origins of a reproductive innovation Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2021	Caitlin Reice ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2021	Sarah Lee ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2021	Sophie Kronick ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2020	Isabelle Ciaverelli ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019-2020	Francis Serrano ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2019	Jonah Bernstein ² Project: Using citizen science to study climatic adaptation in dragonflies	Washington University in St. Louis
2016-2019	Cassandra Lis ¹ Senior Thesis: Rearing temperature and sexually selected color in dragonflies Project: Thermal effects of sexually selected color in dragonflies Project: Fitness costs of immune deployment in dragonflies Project: Predator-induced life-history variation in dragonflies * watch Cassandra on the local news: www.wkyc.com/video/home/cassandra-lis-farah-sayed-hathaway-browns-science-research-engineering-program-srep-101118/95-8278838	Hathaway Brown School
2018	Christian Precht ² Project: Predator-mediated selection on a male weapon in fairy shrimp	Case Western Reserve University

2018	Kayla Harris ² <i>Honor's Thesis: Carotenoid-mediated maternal effects in fire-bellied toads</i>	Case Western Reserve University
2016	Andrew Wiecek ² <i>Project: Adaptive decoupling and evolutionary trade-offs in dragonflies</i>	Case Western Reserve University
2016	Lindsey Robinson ² <i>Project: Ontogenetic conflict over sexually selected coloration in dragonflies</i>	Case Western Reserve University
2015	Jared Larson ² <i>Project: Fitness costs of immune deployment in dragonflies</i>	Case Western Reserve University
2012	Katie Mount ² <i>Project: Maternal effects and adult life-history variation in salamanders</i>	Murray State University
2012	Emily Clouse ² <i>Project: Maternal effects and adult life-history variation in salamanders</i>	Murray State University

Instructor of Record

2023	Synthetic Methods in Global Change Biology	University of Colorado Denver
2023	Integrative Biology Seminar	University of Colorado Denver
2022	Human Physiology	University of Colorado Denver
2022	Integrative Biology Seminar	University of Colorado Denver

Graduate Teaching

2018	Quantitative Biology	Case Western Reserve University
2017	Ecophysiology of Global Change	Case Western Reserve University
2017	Quantitative Biology	Case Western Reserve University
2016	Ecophysiology of Global Change	Case Western Reserve University
2016	Quantitative Biology	Case Western Reserve University
2015	Genes, Ecology, and Evolution	Case Western Reserve University
2014	Genes, Ecology, and Evolution	Case Western Reserve University
2012	Ecology	Murray State University

Guest Lectures

2021	“Adaptation in a changing world”	Advanced Evolutionary Biology (SLU)
2020	“Sexual Selection”	Evolutionary Biology (SLU)
2020	“Mating Systems”	Sex, Evolution, and Behavior (SLU)
2020	“Evolution of reproductive modes”	Sex, Evolution, and Behavior (SLU)
2019	“Sexual vs Natural Selection”	Evolutionary Biology (SLU)
2018	“Sexual Selection”	Advanced Topics in Evolution (CWRU)
2018	“Multi-level models”	Quantitative Biology (CWRU)

2017	“Writing an introduction and discussion”	Ecophysiology of Global Change (CWRU)
2017	“Multi-level models”	Quantitative Biology (CWRU)
2017	“Evolutionary responses to global change”	Ecophysiology of Global Change (CWRU)
2013	“Reptiles and amphibians”	Field Biology (MSU)
2012	“Amphibian life-history variation”	Evolution (MSU)

Other Teaching Experience

2007-2011	Substitute Teacher	Weare Middle School, Weare, NH 03281
-----------	--------------------	--------------------------------------

REPRESENTATIVE MEDIA COVERAGE

(Affiliation at time of article: 1 – Murray State; 2 – Case Western Reserve; 3 – WashU; 4 – CU Denver)

2023	NPR– Radio Interview ⁴ – <i>Living on Earth</i> https://www.loe.org/shows/segments.html?programID=23-P13-00009&segmentID=7
2022	KCBS San Fransisco – Radio Interview ⁴ – <i>Holly Quan Show</i> https://www.audacy.com/kcbsradio/podcasts/kcbs-on-demand-20757/the-climate-is-changing-mating-patterns-in-animals-1540001425
2022	Washington Post – Article ⁴ https://www.washingtonpost.com/climate-environment/2022/11/28/animal-people-sex-climate-change/
2022	Long Now Foundation – Article ⁴ https://longnow.org/ideas/peering-into-the-invisible-present/
2022	Columbia Missourian – Article ⁴ https://www.columbiamissourian.com/news/local/dragonflies-return-to-columbia-as-a-part-of-annual-migration/article_10ea53ba-385c-11ed-9fa7-ff5448fa6c4e.html
2021	CNN – Article ³ https://us.cnn.com/2021/07/06/us/dragonfly-wings-climate-change/index.html
2021	The Guardian – Article ³ https://www.theguardian.com/environment/2021/jul/06/climate-crisis-causing-male-dragonflies-to-lose-wing-bling-study-finds
2021	St. Louis Public Radio - Live Interview ³ – <i>St. Louis on the Air</i> https://news.stpublicradio.org/show/st-louis-on-the-air/2021-07-08/thursday-as-male-dragonflies-adapt-to-climate-change-females-might-be-less-attracted
2021	The Times of India – Article ³ https://www.indiatimes.com/technology/science-and-future/climate-change-dragonfly-shine-loss-544430.html
2021	St. Louis Post-Dispatch – Article ³ https://www.stltoday.com/news/local/metro/dragonflies-lose-wing-markings-in-warmer-climates-washu-and-slu-study-shows/article_487b4436-96da-5577-b502-e940018c77b3.html

- 2021 Smithsonian Magazine – Article³
<https://www.smithsonianmag.com/smart-news/warmer-climate-may-cause-male-dragonflies-lose-their-patchy-wings-180978141/>
- 2021 Science News – Article³
<https://www.sciencenews.org/article/climate-change-dragonfly-wing-spots-biology>
- 2021 New Scientist – Article³
<https://www.newscientist.com/article/2283184-male-dragonflies-may-become-less-colourful-as-the-climate-warms/>
- 2021 The Wildlife Society – Article³
<https://wildlife.org/warmer-weather-means-duller-dragonflies/>
- 2019 Discover Magazine – Podcast² (highlighted at 26 min mark)
<https://blog.scistarter.com/2019/10/explore-biodiversity-with-inaturalist-and-the-appalachian-mountain-club/>
- 2019 iNaturalist blog – Article²
<https://www.inaturalist.org/blog/22029-inat-photos-used-to-study-correlation-between-dragonfly-wing-coloration-and-temperature>
- 2019 Daily Kos – Article²
<https://www.dailykos.com/stories/2019/3/2/1838754/-Daily-Bucket-For-blue-dasher-dragonflies-every-picture-tells-a-story-and-stories-become-science>
- 2019 Amore a quattro zampe – Article² (Italian)
<https://www.amoreaquattrozampe.it/news/animali-cambiano-colore-cambiamenti-climatici/37025/>
- 2015 Phys.org – Article¹
<https://phys.org/news/2015-10-smaller-offspring-competitive-environments.html>
-

KEYNOTE ADDRESSES, INVITED SEMINARS, & PRESENTATIONS

(‡ -denotes upcoming seminar or presentation)

Keynote Addresses & Invited Panel Discussions

- 2021 American Philosophical Society Invited Panelist
 “*The promise of citizen science*”
 * Watch: <https://youtu.be/NEf3nAqXMxw>
- 2020 Hefner Museum of Natural History 46th Annual Lecture
 “*How your iNaturalist observations are supercharging evolutionary biology*”
 * Flyer: <https://www.miamioh.edu/cas/about/news/2020/10/hefner-lecture.html>
 * Watch: https://youtu.be/9_jjU4HITik
- 2019 Ohio Odonate Conference Keynote Address
 “*Too hot to trot? Climate & color adaptation in dragonflies*”
 * Flyer: <https://u.osu.edu/ohiodonatasurvey/2019/02/>

Invited Seminars

2023	University of Mississippi
2022	Southern Illinois University - Edwardsville
2022	University of Colorado - Denver
2022	George Washington University
2022	University of California – Santa Cruz
2022	Texas A&M University
2022	University of Illinois – Urbana-Champaign
2022	University of Dayton
2021	Towson University
2021	Oakland University
2021	Eawag
2021	University of North Carolina - Chapel Hill
2021	Eastern Michigan University
2020	Miami (OH) University
2020	Murray State University
2020	Tyson Research Center
	* watch replay here: https://youtu.be/nH5MfjPglr4
2019	Saint Louis University
2019	Washington University in St. Louis
2019	John Carroll University
2018	Case Western Reserve University
2018	University of California – Davis

Research Conferences

2022	Guild of Rocky Mountain Ecologists & Evolutionary Biologists	Poster Presentation
2022	Society for the Study of Evolution	Oral Presentation
2022	Society for Integrative and Comparative Biology	Oral Presentation
2022	Society for Integrative and Comparative Biology	Poster Presentation
2019	Society for the Study of Evolution	Oral Presentation

2019	Society for the Study of Evolution	Poster Presentation
2018	American Society of Naturalists	Oral Presentation
2017	Society of Integrative & Comparative Biology	Oral Presentation
2015	Ecological Society of America	Oral Presentation
2014	Ecological Society of America	Oral Presentation
2014	Southeastern Ecology & Evolution Conference	Oral Presentation
2013	Ecological Society of America	Poster Presentation
2013	Society for Study of Evolution	Poster Presentation
2013	Midwestern Ecology & Evolution Conference	Oral Presentation
2012	Southeastern Population Ecology & Evolutionary Genetics	Oral Presentation
2010	Murdock College Science Research Conference	Poster Presentation

Institutional Symposia

2015	CWRU Biology Graduate Research Symposium	Oral Presentation
2014	Watershed Science Research Symposium	Oral Presentation
2013	Watershed Science Research Symposium	Oral Presentation
2012	Watershed Science Research Symposium	Oral Presentation

SERVICE & OUTREACH

Service

2022-Present	Member – Graduate Advisory Committee	University of Colorado Denver
2020-2022	Organizer - Graduate Student Research Grant	Washington University in St. Louis
2021	Search Committee - LEC Post-doctoral Fellowship	Washington University in St. Louis
2021	Organizer - Panel on Demystifying Grad School	Tyson Research Center
2020-2021	Organizer - EEPB Seminar Series * Watch Fall 2020 here: https://www.youtube.com/playlist?list=PL1qK1_d1g_fvPujUhO_UzP-Ffh_OWSTF * Watch Spring 2021 here: https://www.youtube.com/playlist?list=PL1qK1_d1g_fsPTgVbdz7PnJ30OZGjh888	Washington University in St. Louis
2021	Co-organizer - Panel on Environmental Justice * Watch here: https://youtu.be/820MDO8iHoM	Washington University in St. Louis
2020-2021	Organizer - LEC Summer Activities	Washington University in St. Louis

2020	Organizer - Biodiversity Summer Seminar Series * Watch here: https://www.youtube.com/playlist?list=PL1qK1_d1g_fuWvNVI4D9zjiuEgX7WTCm0	Washington University in St. Louis
2019	Search Committee - LEC Post-doctoral Fellowship	Washington University in St. Louis
2017	Organizer - Graduate Research Symposium	Case Western Reserve University
2017	Organizer - Graduate Student-Invited Speaker	Case Western Reserve University
2012-2014	Organizer – Graduate Student Journal Club	Murray State University

Outreach

2021	Author -Adapted article for K-12 classrooms * View here: https://sciencejournalforkids.org/wp-content/uploads/2021/10/dragonfly_article.pdf	<i>Science Journal for Kids</i>
2021	Visiting Professional Presentation	Tyson Research Center
2020	Panelist - Career Panel	Tyson Research Center
2020	Presenter - Lunch & Learn Discussion	Tyson Research Center
2020	Panelist - Career Panel	Tyson Research Center
2019	Presenter - STEAM Night	Bristol Elementary School
2017	Exhibitor - Think and Drink with the Extinct	Cleveland Museum of Natural History
2014	Presenter - Herpetological Society	Murray State University
2013	Presenter - AP Biology Trip	Hancock Biological Station
2013	Presenter - 5 th Grade Science	Weare, NH Middle School
2012	Presenter - 5 th Grade Science	Weare, NH Middle School

OTHER PROFESSIONAL ACTIVITIES

Working Groups

2015	“Costs of phenotypic plasticity and adaptation to novel environments”. National Evolutionary Synthesis Center. Feb. 22-24.
------	--

Workshops

2020	“Understanding and Analyzing Systematic Racism”. Crossroads Antiracism Organizing & Training. St. Louis, MO USA. Feb. 26-28.
------	--

2019 “Get ahead of the game: writing effective proposals”. Dr. Saran Twombly, NSF DEB program director. Saint Louis University. Dec. 13.

Ad Hoc Manuscript Referee

Ecology Letters, Proceedings of the Royal Society of London B: Biological Sciences, Biology Letters, The American Naturalist, Evolution Letters, Evolutionary Applications, Heredity, Functional Ecology, Journal of Animal Ecology, Philosophical Transactions of the Royal Society B: Biological Sciences, Journal of Experimental Zoology-Part A, Ecography, Oikos, Oecologia, Evolutionary Ecology, Ecological Entomology, Current Research in Insect Science, Ethology, Journal of Herpetology, Écoscience, International Journal of Odonatology, Amphibia-Reptilia, Insect Science, Ecosphere, Ecology & Evolution, BMC Ecology and Evolution, Royal Society Open Science, PeerJ, PLoS One

Ad Hoc Grant Referee

NSF DEB: Population and Community Cluster