

Meredith A. Zettlemoyer

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University of Georgia • 120 Carlton St., 2502 Miller Plant Sciences • Athens, GA 30602

ACADEMIC APPOINTMENTS

- 2020-present **Postdoctoral Research Associate**
Department of Plant Biology, University of Georgia
- Spring 2020 **Adjunct Faculty**
Math & Science Department, Kellogg Community College
- 2018-2019 **Science Education & Outreach Fellow**
W.K. Kellogg Biological Station, Michigan State University

EDUCATION

- 2020 **Ph.D., Plant Biology & Ecology, Evolutionary Biology and Behavior**
Michigan State University
Advisor: Dr. Jennifer Lau (Indiana University - Bloomington)
University Distinguished Fellow, Hensley Endowed Fellow in Science
- 2015 **Bachelor of Arts in Biology & English Literature**
University of Virginia
Advisor: Dr. Laura Galloway
Echols Scholar, Distinction in the College, Highest Honors in Biology

Certifications:

- 2020 **Environmental Educator Certification**
*North American Association for Environmental Education
& Michigan Alliance for Outdoor & Environmental Education*
- 2019 **Certification in Community Engagement (Teaching & Learning)**
Michigan State University

SCIENTIFIC PUBLICATIONS

*undergraduate coauthor; §co-lead authors

- Johnson, S.E.*, **Zettlemoyer, M.A.**§ 2022. Seed predator preferences are associated with seed traits but an unlikely mechanism of local extinction. *Restoration Ecology*, in press.
- Zettlemoyer, M.A.**, DeMarche, M.L. 2021. Dissecting impacts of phenological shifts for performance across biological scales. *Trends in Ecology and Evolution*, 10.1016/j.tree.2021.10.004.
- Zettlemoyer, M.A.**, Lau, J.A. Maternal warming delays offspring germination in native and nonnative species. *Oikos* 130, 1880-1891.
- Zettlemoyer, M.A.**, Peterson, M.L. 2021. Does phenological plasticity help or hinder range shifts under climate change? *Frontiers in Ecology and Evolution* 9(392), 10.3389/fevo.2021.689192.
- Zettlemoyer, M.A.**, Renaldi, K.*, Muzyka, M.D, Lau, J.A. 2021. Extirpated prairie species

demonstrate more variable phenological responses to warming than extant congeners. *American Journal of Botany* 108(6), 958-970.

† Featured in *AJB Highlights*

Zettlemyer, M.A., Schultheis, E.H., Lau, J.A. 2019. Phenology in a warming world: differences between native and non-native plant species. *Ecology Letters* 22, 1253-1263.

† Featured in *BBC Future, Forbes Magazine, National Science Foundation Research News, Science & Technology News at IU Bloomington, Science Daily, MSU Today*

Zettlemyer, M.A., McKenna, D.D., Lau, J.A. 2019. Species characteristics affect local extinctions. *American Journal of Botany* 106(4), 547-559.

† Featured in *AJB Highlights, MSU Today, Kellogg Biological E-Station to Station*

Zettlemyer, M.A. 2019. Invasion Meltdown: a lesson meltdown saved by invasion-wise elementary students. *Michigan Science Teachers Association Journal* 64(2), 45-48.

Zettlemyer, M.A., Prendeville, H.R., Galloway, L.F. 2017. The effect of a latitudinal temperature gradient on germination patterns. *International Journal of Plant Sciences* 178(9), 673-679.

In review or in preparation:

Zettlemyer, M.A. Monitoring demography of resurrected populations of locally extinct and extant species to investigate drivers of species loss (in revision at *American Naturalist*).

Zettlemyer, M.A. Leaf traits mediate herbivory across a nitrogen gradient differently in extirpated vs. extant prairie species (in revision at *Oecologia*).

Zettlemyer, M.A., DeMarche, M.L. Advancing flowering phenology is adaptive but insufficient to maintain reproductive success under warming climates (in prep for *Proceedings R. Soc. B.*).

Zettlemyer, M.A., Cortijo-Robles, K.M.*§ Effects of temperature and soil communities on extirpated vs. extant prairie plant performance (in prep for *Plant and Soil*).

Zettlemyer, M.A., Cortijo-Robles, K.R.*, Srodes, N.*, Johnson, S.E.* What're we reading? Hot topics and authorship in ecology literature across decades (in prep for *Bulletin of the Ecological Society of America*).

Other publications:

Zettlemyer, M.A., Rutkoski, C. 2020. The journey of noticing: nature journaling as a record of wonder and change. *Kellogg Biological Station Blogs & News*.

Zettlemyer, M.A., Srodes, N.* 2019. To Bloom Again: Can prairie restoration overcome habitat loss? *USDA NRCS Conservation Notes*, Nov-Dec 2019.

Zettlemyer, M.A. 2019. Natural history documents loss of plant species in Kalamazoo County. *USDA NRCS Conservation Notes*, May-June 2019.

Zettlemyer, M.A. 2019. Improving access to K-12 STEM education in rural southwestern Michigan communities. *Certification in Community Engagement*, Office for Public Engagement & Scholarship, Michigan State University.

Zettlemyer, M.A., Griffin, S., Haas, K. 2019. Michigan's Endangered Tallgrass Prairies. W.K. Kellogg Bird Sanctuary, Hickory Corners, MI (interpretive signs).

Zettlemyer, M.A. 2019. Venus fly traps and watermelons: Skype a Scientist encourages a generation of scientists. *Kellogg Biological Station Blogs & News*.

Zettlemyer, M.A. 2017. Dead but not gone? Resurveying historical prairie sites in Kalamazoo County. *Austin Lake Association Newsletter*.

FELLOWSHIPS & AWARDS

2022	Jim F. Crow Institute for the Study of Evolution Early Career Scientist Seminars Award, University of Wisconsin Madison
2021	Travel Award, Plant Biology, UGA ¹ , \$1075
2015-2020	University Distinguished Fellowship, MSU ² , \$104400
2019-2020	Dr. Martin Hensley Endowed Fellowship, MSU, \$8000
2020	Bessey Outstanding Graduate Student Research Award, Plant Biology, MSU, \$750
2019	Outstanding Student Research in Ecology, Ecological Society of America, \$300
2018-2019	Science Education & Outreach Fellowship, MSU KBS ³ , \$25000
2018-2020	K-12 Partnership Summer Fellowships, MSU KBS, \$7048
2017-2020	Research Mentor Awards, MSU KBS, \$7000
2017-2018	AgBioResearch Fellowship, MSU, \$35000
2016-2020	EEBB ⁴ Travel Grants, MSU, \$4500
2016-2020	Paul Taylor Travel Awards, Plant Biology, MSU, \$4955
2016-2017	Plant Sciences Fellowship, MSU, \$41729
2015	College of Natural Science Fellowship, MSU, \$60500

RESEARCH GRANTS & WORKING GROUPS

2021	DoD SERDP RCSON-22-C1, Lead PI, invited for full proposal
2021	Working Group, 'Terrestrial Responses to Emerging Environments through Time, Integrated from Moments to Eons' (TREETIME) Biology Integration Institute
2019	NSF LTER Small Grant, 'Effect of climate warming and seed limitation on local species declines', PI, \$2000
2019	Michigan Botanical Foundation Research Grant, 'The significance of seeds: effects of seed limitation and predation on local species loss', PI, \$1500
2019	Lauff & Porter Maxey Research Scholarship, \$3000
2018	Hanes Foundation, 'The role of anthropogenic changes and species traits in population declines,' PI, \$3325
2018	MSU Graduate School Research Fellowship, \$2200
2017	Lauff Research Scholars Award, \$1500
2017	Wayne & Porter Scholarship Award, \$1000
2017	MSU Graduate School Research Fellowship, \$1500
2016	Lauff Research Scholars Award, \$1000
2016	Wayne & Porter Scholarship Award, \$500

SCIENTIFIC PRESENTATIONS

*undergraduate coauthor

Invited Seminars:

2022	Department of Plant Biology, UGA
2021	NSF LTER Data Nuggets Workshop, KBS & Harvard Forest LTER
2020	Ecology/Diversity/Genetics/Evolution Seminar, UGA

¹ UGA: University of Georgia

² MSU: Michigan State University

³ KBS: W.K. Kellogg Biological Station

⁴ EEBB: Ecology, Evolutionary Biology and Behavior Program

2020 ArtBreak, Kalamazoo Institute of Arts, Kalamazoo, MI
2019 Michigan Botanical Club, Kalamazoo, MI
2019 Audubon Society, Battle Creek, MI
2018 Wild Ones, Grand Rapids, MI
2018 Conservation Stewards, Kalamazoo Nature Center & MI DNR, Kalamazoo, MI

Contributed talks:

Zettlemyer, M.A. Nitrogen influences prairie plant population declines and local extinction. (1) 2021, American Society of Naturalists; (2) 2020, Ecological Society of America.

Zettlemyer, M.A., Renaldi, K.* Failure to shift phenology may be associated with local extinction. (1) 2020, American Society of Naturalists, Pacific Grove, CA; (2) 2020, Midwest Ecology & Evolution Conference, Western IL University, IL; (3) 2019, Ecological Society of America, Louisville, KY; (4) 2019, Digital Data in Biodiversity Research Conference, New Haven, CT.

Zettlemyer, M.A. 2019. Effects of anthropogenic changes on native prairie plant population declines. Graduate Seminar Series, MSU KBS, MI.

Zettlemyer, M.A. 2019. Extinction, invasion, and climate change: forces of change in our natural communities. The Stewardship Network, East Lansing, MI.

Zettlemyer, M.A., McKenna, D.M., Lau, J.A. 2018. Prairie habitat specialists are at high risk of local extinction. Ecological Society of America, New Orleans, LA.

Zettlemyer, M.A., Schultheis, E.H., Lau, J.A. Temperature-mediated shifts in phenology may contribute to invasive species' success. (1) 2018, EEBB Symposium, MSU, MI; (2) 2017, Ecological Society of America, Portland, OR.

Zettlemyer, M.A. 2017. The role of anthropogenic changes and species traits in local species declines. Graduate Seminar Series, MSU KBS, MI.

Zettlemyer, M.A. 2017. Functional groups help predict regional species loss. (1) Society for Restoration Ecology, Grand Rapids, MI; (2) EEBB Symposium, MSU, MI.

Zettlemyer, M.A., Lau, J.A. Effects of habitat variation and functional groups on local extinction rates. (1) 2017, Midwest Ecology and Evolution Conference, University of Illinois Urbana-Champaign, IL; (2) 2016, Ecological Society of America, Fort Lauderdale, FL; (3) 2016, Plant Biology Student Lecture Series, MSU, MI.

Zettlemyer, M.A. 2016. Is local diversity loss predicted by anthropogenic disturbance and functional groups? (1) North American Congress for Conservation Biology, Madison, WI; (2) Graduate Seminar Series, MSU KBS, MI; (3) EEBB Colloquium, MSU, MI.

Zettlemyer, M.A., Lau, J.A. 2016. The effect of habitat variation and disturbance on local plant extinctions (poster). (1) Environmental Science & Policy Symposium, MSU, MI; (2) Plant Science Graduate Student Research Symposium, MSU, MI.

Zettlemyer, M.A., Galloway, L.F. 2015. The influence of local environmental conditions on the phenological development of *Campanulastrum americanum*. Richard D. Katz Research Symposium, University of Virginia, VA. †3rd place presentation.

Presentations by undergraduate mentees:

Wilson, J.*, DeMarche, M.L., **Zettlemoyer, M.A.** 2021. Comparing phenological shifts under climate change using historical and observational datasets (poster). Georgia Undergraduate Research Collective.

Cortijo-Robles, K.M.*, **Zettlemoyer, M.A.** 2020. Plant performance is affected by soil communities and temperature. Ecological Society of America.

Johnson, S.E.*, **Zettlemoyer, M.A.** Granivore preferences for local prairie plant species (poster). (1) 2020, Midwest Ecology & Evolution Conference, Western IL University, IL; (2) 2019, Ecological Society of America, Louisville, KY; (3) 2018, Summer Research Symposium, MSU KBS, MI.

Cortijo-Robles, K.M.*, **Zettlemoyer, M.A.** Climate change may affect extinctions via altered plant-soil feedbacks (poster). (1) 2020, Midwest Ecology & Evolution Conference, Western IL University, IL; (2) 2019, Summer Research Symposium, MSU KBS, MI.

Srodes, N.*, **Zettlemoyer, M.A.** 2019. Quantitative assessment of the species-area relationship in prairies of Kalamazoo County, MI (poster). Summer Research Symposium, MSU KBS, MI.

Srodes, N.*, **Zettlemoyer, M.A.** 2019. Effects of nitrogen and deer herbivory on prairie diversity and productivity (poster). Summer Research Symposium, MSU KBS, MI.

Canavan, B.*, **Zettlemoyer, M.A.** 2019. Insect herbivory as a driver for local prairie plant extinctions (poster). Summer Research Symposium, MSU KBS, MI.

Andrews, C.*, **Zettlemoyer, M.A.** 2018. Characterization of landscape context and plant diversity in two restored prairies (poster). Summer Research Symposium, MSU KBS, MI.

Renaldi, K.*, **Zettlemoyer, M.A.** 2018. Temperature-mediated differences in phenology may influence local species declines (poster). Midwest Ecology & Evolution Conference, MSU KBS, MI.

Renaldi, K.*, **Zettlemoyer, M.A.** 2017. Effects of experimental warming on population dynamics of locally extinct and extant prairie species (poster). Summer Research Symposium, MSU KBS, MI.

TEACHING

Instruction:

2021	<i>Guest Lecture:</i> ‘Using Penstemon spp. (Plantaginaceae) to investigate phenological responses to global change’, Plant Taxonomy, UGA
2021	<i>Guest Lecture:</i> ‘Nitrogen effects on plant population dynamics and species interactions,’ Honors Biology, UGA
2021	<i>Guest Lecture:</i> ‘Community Ecology’, Nature Journaling: Blending Art and Science, W.K. Kellogg Bird Sanctuary, MI
2020	<i>Instructor of Record,</i> Biology 101 Laboratory, Kellogg Community College, Battle Creek, MI
2018-2020	<i>Teaching Assistant,</i> Eminent Ecologist Series PLB891, MSU KBS
2019	<i>Teaching Assistant,</i> Field Botany, W.K. Kellogg Bird Sanctuary, MI
2018-2019	<i>Instructor,</i> Undergraduate R Workshop, MSU KBS

- 2017-2018 *Guest Lecture: 'Anthropogenic change, species traits and biodiversity loss', Ecology, Dept. Integrative Biology, MSU*
- 2016 *Teaching Assistant, Ecology Lab, Dept. Integrative Biology, MSU*
- 2013 *Naturalist, AmeriCorps and Mason Neck State Park, Lorton, VA*

K-12 Classroom Experience:

- 2019 *Stream Leaf Packs: Habitat Selection & Macroinvertebrate Diversity, Biology, Gull Lake HS, Richland, MI*
- 2019 *Macroinvertebrates, Comstock STEM Academy, Kalamazoo, MI*
- 2019 *Schoolyard BioBlitz, Godwin Middle School, Grand Rapids, MI*
- 2019 *Water Quality & Macroinvertebrate Diversity, AP Environmental Science, Kalamazoo Math & Science Center, Kalamazoo, MI*
- 2019 *Water Movement in Agricultural Landscapes & Dairy Management, Environmental Science, Gull Lake HS, MI*
- 2018 *Stream Leaf Packs: Habitat Selection & Macroinvertebrate Diversity, Environmental Science, Parchment HS, Parchment, MI*
- 2018 *Be a Botanist: creating a classroom herbarium, Botany, Parchment HS, MI*
- 2018 *Ecosystem Services, AP Environmental Science, Kalamazoo Math & Science Center, Kalamazoo, MI*
- 2018 *Macroinvertebrates, Gull Lake Gateway HS, Richland, MI*
- 2018 *Owl Pellets, St. Rose-Hastings Elementary Schools, MI*
- 2018 *Bird Adaptations, Galesburg-Augusta Elementary Schools, MI*
- 2017-2018 *TechGYRLS (robotics & social justice in STEM), Young Women's Christian Association (YWCA), Kalamazoo, MI*

Published Lesson Plans:

- Zettlemoyer, M.,** Johnson, S.* 2019. Sensational seeds: adaptations, dispersal & predation.
- Zettlemoyer, M.,** Logan, R. 2019. Population Booms and Busts: modeling population dynamics in the classroom.
- Zettlemoyer, M.,** Griffin, S. 2019. Schoolyard BioBlitz.
- Zettlemoyer, M.,** Griffin, S. 2018. Stream Leaf Packs: Macroinvertebrate Diversity.
- Griffin, S., **Zettlemoyer, M.** 2018. Ecosystem Services at the KBS Bird Sanctuary.
- Griffin, S., **Zettlemoyer, M.** 2018. What's an owl's favorite food?
- Zettlemoyer, M.** 2018. Invasion Meltdown!
- Zettlemoyer, M.** 2017. Be a Botanist: creating a classroom herbarium.

MENTORING

- 2021-present Jillian Wilson (UGA), Mentored Research Course
- 2019-present Karina Cortijo-Robles (Univ. of Puerto Rico), Ecological Society of America SEEDS SPUR Fellowship, NSF Research Experience for Undergraduates (REU)
- 2019 Nicholas Srodes (MSU), Undergraduate Research Apprentice (URA)
- 2019 Brendan Canavan (MSU), URA
- 2018-present Sarah Johnson (MSU), URA, Independent Research
- 2018 Cameron Andrews (MSU), URA
- 2017-2018 Katarina Renaldi (MSU), NSF REU, URA

2017-2019 Volunteers managed: William Bennett, Emma Carey (Northern Michigan University), John Eitzcorn, Zoe Folsom (Michigan Technological University), Stefany Tule (Western Michigan University)

ACADEMIC SERVICE

2021 *Search Committee*, Biology Labs Instructor, Plant Biology, UGA
2020-present *Diversity, Equity & Inclusion (DEI) Committee (and Training Subcommittee)*, Plant Biology, UGA
2019-2020 *Grad Representative*, Faculty Advisory Committee, MSU KBS
2018-2020 *Academic Programming Committee*, EEBB, MSU
2018-2019 *Mentor*, Diversify EEB Mentor Match Program
2018-2019 *Seminar Committee*, MSU KBS
2018-2019 *Outreach Committee*, MSU KBS
2017-2018 *Conference Committee Co-Chair*, Midwest Ecology & Evolution Conference
2017-2018 *Webmaster*, Plant Biology Graduate Student Organization, MSU
2016-2018 *Graduate Affairs Committee*, MSU KBS
2016-2018 *Secretary*, Plant Biology Graduate Student Organization, MSU
2017-2018 *Moderator/Panelist*, 'Getting Into & Succeeding in Graduate School', Midwest Ecology & Evolution Conferences
2016-2017 *Graduate Representative*, University Committee for the Library, MSU
2016 *Webmaster/Advertising Committee*, Plant Sciences Graduate Student Research Symposium, MSU
2015-2017 *Secretary*, Society for Conservation Biology, MSU
2014-2015 *Secretary*, Biology Society, University of Virginia

PROFESSIONAL OUTREACH & EDUCATION PRESENTATIONS

Zettlemyer, M.A., Rutkoski, C.E., Mendoza, O., Klotz, M. 2020. Nature Journaling: Blending Art & Science. (1) W.K. Kellogg Bird Sanctuary, Hickory Corners, MI; (2) Graduate Seminar Series, MSU KBS, MI

Zettlemyer, M.A., Rochow, E., et al. 2020. Kalamazoo County Citizen Science Panel. USDA NRCS & Kalamazoo Conservation District, Kalamazoo, MI.

Zettlemyer, M.A. 2020. Environmental Education Certification: Facilitating K-12 STEM education professional development in rural Michigan. Michigan Science Teachers' Association Conference, East Lansing, MI.

Klotz, M., **Zettlemyer, M.A.** 2020. Nature Journaling: Blending Art and Science. Michigan Science Teachers' Association Conference, East Lansing, MI.

Zettlemyer, M.A., Griffin, S. 2019. Community engagement with the K-12 Partnership: improving access to K-12 STEM education in rural communities. Certification in Community Engagement, Office for Public Engagement & Scholarship, MSU, MI.

Zettlemyer, M.A. 2019. Invasion Meltdown: teaching about invasive species in K-4 classrooms. Michigan Alliance for Environmental & Outdoor Education Conference, Tustin, MI.

Griffin, S., **Zettlemoyer, M.A.** 2019. Plants for Pollinators. Pollinator Workshop, W.K. Kellogg Bird Sanctuary, Hickory Corners, MI.

Zettlemoyer, M.A., Johnson, S.E. 2019. Sensational seeds: adaptations, dispersal, and predation. K-12 Partnership Summer Institute, MSU KBS, MI.

Hach, C., **Zettlemoyer, M.A.** 2019. What's Your Q? Determining the Water Quality Index (WQI) of local streams. K-12 Partnership Summer Institute, MSU KBS, MI.

Zettlemoyer, M.A., Logan, J.R. 2019. Population Booms & Busts: modeling population dynamics in the classroom. K-12 Partnership Spring Workshop, MSU KBS, MI.

Zettlemoyer, M.A. 2018. Invasion Meltdown: modeling invasive species effects. K-12 Fall Workshop, MSU KBS, MI.

Zettlemoyer, M.A. 2018. Be a Botanist: creating a classroom herbarium. K-12 Summer Institute, MSU KBS, MI.

PUBLIC OUTREACH & VOLUNTEERING

- 2021-present *Mentor*, Científico Latino Graduate School Mentorship Initiative
- 2020-2021 *Course Developer*, Nature Drawing: Blending Art & Science, W.K. Kellogg Bird Sanctuary & Kalamazoo Institute of Art, Kalamazoo, MI
- 2020 *Coordinator*, Kalamazoo County Citizen Science Panel, Kalamazoo Conservation District, Kalamazoo, MI
- 2019-present *Presenter*, Skype a Scientist (ca. 2 classrooms/semester)
- 2019-2020 *Volunteer*, USDA NRCS & Kalamazoo Conservation District, Kalamazoo, MI
- 2019 *Organizing Committee*, K-12 Partnership Summer Institute: 'Biodiversity Bonanza', MSU KBS
- 2019 *Presenter*, 'Macroinvertebrate Madness', Conservorama, Kalamazoo Conservation District & W.K. Kellogg Bird Sanctuary
- 2019 *Organizing Committee*, K-12 Partnership Spring Workshop: 'Data, Data, Everywhere', MSU KBS
- 2019 *Coordinator*, Night at the Museum (MSU Museum, Air Zoo Aerospace & Science Museum, Impression 5 Science Center), MSU Science Festival, MI
- 2019 *Presenter*, 'Historical Collections', Darwin Day, MSU Museum, MSU, MI
- 2019 *Exhibitor*, Battle Creek HS Career Fair & MI Career Quest, MI
- 2018 *Instructor*, 'Invasion Meltdown!', Girls STEM Day, MSU
- 2018 *Organizing Committee*, K-12 Partnership Fall Workshop: 'Science Isn't Spooky', MSU KBS
- 2018 *Organizing Committee*, K-12 Partnership Summer Institute: 'The Natural History of Now', MSU KBS
- 2018 *Tour Guide*, W.K. Kellogg Bird Sanctuary, Hickory Corners, MI
- 2018 *Volunteer*, Southwest Michigan Land Conservancy, MI
- 2017-2018 *Instructor*, TechGYRLS, Young Women's Christian Association, Kalamazoo, MI
- 2016 *Volunteer*, MSU Science Festival, MI
- 2016-2017 *Volunteer*, Girls Math & Science Day, MSU
- 2015 *Coach*, Science Olympiad Invasive Species Team, East Lansing HS, MI
- 2014-2015 *Secretary*, Biology Society, University of Virginia

2009-2010 *Science Counselor*, Camp Crossroads, Oakton, VA

RELEVANT WORK EXPERIENCE

2014-2015 *Research Assistant*, Department of Biology, University of Virginia
2014-2015 *Intern*, Southern Environmental Law Center, Charlottesville, Virginia
2014 *Research Technician*, Mountain Lake Biological Station, University of Virginia
2013 *AmeriCorps & Naturalist*, Mason Neck State Park, Lorton, VA
2011 *Journalism Intern*, Connection Newspapers, Alexandria, VA
2011 *Intern*, US House of Representatives (IL-14), Washington, D.C.
2009-2011 *Receptionist*, Petal Peddler Florist, Burke, VA

PROFESSIONAL DEVELOPMENT & TRAININGS

Quantitative methods:

2018 Demographic Models for Ecology & Evolution, MSU KBS
2018 Bayesian Modeling, MSU KBS
2017 Structural Equation Modeling, MSU KBS
2016 QGIS Training Workshop, MSU KBS
2015 Maximum Likelihood Statistics, MSU KBS
2015 Generalized Linear Modeling, MSU KBS

Teaching & Mentoring:

2020 Environmental Education Certification, North American Association for Environmental Education & Michigan Alliance for Environmental & Outdoor Education
2019 Certification in College Teaching Institute, MSU
2019 Michigan Environmental Education Curriculum, MSU
2019 Healthy Watersheds, Healthy Communities Vernal Pool Education Training, Michigan Natural Features Inventory
2018 Early Childhood STEM Integration Workshop, MSU
2017-2018 Mentoring Career Pathways Seminar, MSU KBS
2013 Interpretive Training, Dept. of Conservation and Recreation, VA

Diversity, Equity & Inclusion:

2021 Inclusive SciComm Strategies for the Classroom, ISCS Foundations
2021 Bystander Intervention Training, Hollaback
2020 Faculty Search Committee Training, UGA
2020 Cultural Intelligence Training, MSU KBS
2019 Implicit Bias Training, MSU KBS

Other:

2021 Data Governance & Open Science, American Geophysical Union
2017 Scientific Writing Seminar, MSU KBS
2016 Plant Systematics, MSU KBS
2016 Broader Impacts for Graduate and Professional Students, National Alliance for Broader Impacts, MSU
2015 Responsible Conduct of Research Series, MSU
2013 Leave No Trace Trainer Certification, Mason Neck State Park, Lorton, VA

- 2013 FOCUS Customer Service Training, Dept. of Conservation and Recreation, VA
 2013 Volunteer Management Training, Dept. of Conservation and Recreation, VA

MEDIA COVERAGE

- 2021 ‘Can flowering time act as an alert system for species at risk of extirpation?’,
American Journal of Botany Highlights
 2020 ‘Resurrecting prairie plants and mentoring the future’, *MSU Plant Biology
 Newsletter*
 2019 ‘The animals that will survive climate change’, *BBC Future*
 2019 ‘Earlier spring favors invasive plants’, *Forbes Magazine*
 2019 ‘Native plant species may be at greater risk from climate change than non-
 natives’, *NSF Research News; Science & Technology News at IU Bloomington,
 Science Daily, MSU Today*
 2019 ‘Before our very eyes: Species rarity and extinction in Michigan’s Kalamazoo
 County’, *MSU Today*
 2019 ‘Researcher looks to the past to gauge the future of plant species diversity’,
Kellogg Biological E-Station to Station
 2019 ‘Can we predict species extinctions?’, *American Journal of Botany Highlights*
 2018 ‘Native plants and our changing planet’, *Wild Ones River City Chapter Blog*
 2019 ‘Work experiences and writing tips’, Podcast #17, *Science in Progress*
 2019 ‘KBS educational, professional development efforts fueled by outreach fellows’,
KBS Blogs & News
 2019 ‘Area educators can register now for the 2019 K-12 Partnership Summer Institute,
Kellogg Biological E-Station to Station
 2018 ‘Science Education Fellows for 2018-2019’, *KBS Blogs & News*

REVIEWER

- 2021 Am. J. Bot., Ann. Bot., Biol. Inv., Biol. Rev., Clim. Chang. Ecol., Ecology, Ecol.
 Appl., Glob. Chang. Biol., Glob. Ecol. Biogeogr., J. Anim. Ecol., J. Appl. Ecol., J.
 Ecol., PNAS
 2020 Am. Nat., Ann. Bot., Clim. Chang. Ecol., Ecol. Evol., Plant Ecol., Plant Ecol.
 Div., Rest. Ecol.
 2019 Ann. Bot., Ecosphere, J. Rad. Biol., New Phytol., Plant Biol., Plant Ecol., Molec.
 Biol.

UNDERGRADUATE HONORS

- 2015 Richard Katz Research Symposium, 3rd Place Award, University of Virginia
 2014-2015 Distinguished Majors Program in Biology, University of Virginia
 2014 Air Force Officer’s Wives Club STEM Scholarship, Fort Belvoir, VA
 2014 Virginia Future Leaders Scholarship, VA
 2013-2015 Pi Epsilon Environmental Science Honor Society, University of Virginia
 2013 Orchestra Director, First Year Players, University of Virginia
 2012-2015 Dean’s List, University of Virginia
 2012, 2014 Scholarships for Military Children, Fort Belvoir, VA
 2011-2015 Co-Founder/Director, Hoos in the Stairwell A Cappella, University of Virginia

2011-2015 Echols Scholars, University of Virginia
2011-2015 University Achievement Scholarship, University of Virginia
2011 National Hispanic Merit Scholar

PROFESSIONAL SOCIETIES & AFFILIATIONS

American Society of Naturalists; Ecological Society of America (Plant Population Ecology Section); Botanical Society of America; Society of Ecological Restoration; Society for Conservation Biology, Long-Term Ecological Research (LTER) Network; SACNAS

Last Updated: 6 January 2022