

Meredith A. Zettlemoyer

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University of Montana • 32 Campus Dr. Natural Sciences Room 104A • Missoula, MT 59812

ACADEMIC APPOINTMENTS

- 2023-present **Assistant Professor**
Division of Biological Sciences, University of Montana, Missoula, MT
- 2020-2023 **Postdoctoral Research Associate**
Department of Plant Biology, University of Georgia, Athens, GA
- Spring 2020 **Adjunct Faculty**
Math & Science Department, Kellogg Community College, Battle Creek, MI
- 2018-2019 **Science Education & Outreach Fellow**
W.K. Kellogg Biological Station, Michigan State University, Hickory Corners, MI

EDUCATION

- 2020 **Ph.D., Plant Biology & Ecology, Evolutionary Biology and Behavior**
Michigan State University, East Lansing, MI
Advisor: Dr. Jennifer Lau
University Distinguished Fellow, Hensley Endowed Fellow in Science
- 2015 **Bachelor of Arts in Biology & English Literature**
University of Virginia, Charlottesville, VA
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, East Lansing, MI

PUBLICATIONS

*undergraduate coauthor; §equal contribution

Scientific publications:

- (20) **Zettlemoyer, M.A.**, Conner, R.J., Seaver, M.M., Waddle, E., DeMarche, M.L. 2024. A long-lived alpine perennial advances flowering under warmer conditions but not enough to maintain reproductive success. *American Naturalist*, accepted.
- (19) **Zettlemoyer, M.A.** 2024. Adding edaphic nuance to species distribution models complicates predictions of range shifts (commentary). *New Phytologist* 241, 5-6.
<https://doi.org/10.1111/nph.19326>
- (18) **Zettlemoyer, M.A.** 2023. A continuum of selection on life history traits under differential environmental heterogeneity. A commentary on "Chasing the fitness optimum: temporal variation in genetic and environmental expression of life-history traits for a perennial plant." *Annals of Botany* mcad176. <https://doi.org/10.1093/aob/mcad176>
- (17) Rutkoski, C., Scamehorn, T., Waterman, R., Klotz, M., **Zettlemoyer, M.A.** 2023. Nature Journaling: sharing perspectives between art and science. *Plant Science Bulletin* 69(3), 219-220.

- (16) **Zettlemoyer, M.A.** 2023. A demographic approach for predicting population responses to multifactorial stressors. *AoB Plants* 15, 1-9. <https://doi.org/10.1093/aobpla/plad023>
- (15) **Zettlemoyer, M.A.**, Cortijo-Robles, K.M.*[§] 2023. Extant species are more responsive than extirpated species to warming effects on soil communities. *Plant and Soil* 485, 117-131. <https://doi.org/10.1007/s11104-022-05792-9>
- (14) **Zettlemoyer, M.A.**, Wilson, J.*[‡], DeMarche, M.L. 2022. Estimating phenological sensitivity in contemporary vs. historical data sets: effects of climate resolution and spatial scale. *American Journal of Botany* 109(12), 1981-1990. <https://doi.org/10.1002/ajb2.16087>
- (13) **Zettlemoyer, M.A.**, Cortijo-Robles, K.M.*[‡], Srodes, N.*[‡], Johnson, S.E.*[‡] 2022. What're we reading? Hot topics and authorship in ecology literature across decades. *Bulletin of the Ecological Society of America* 104(1): e02025. <https://doi.org/10.1002/bes2.2025>
- (12) **Zettlemoyer, M.A.**, Ellis, S.L., Hale, C.W., Horne, E.C., Thoen, R.D., DeMarche, M.L. 2022. Limited evidence for phenological differences between nonnative and native species. *Frontiers in Ecology and Evolution* 10, 983172. <https://doi.org/10.3389/fevo.2022.983172>
- (11) **Zettlemoyer, M.A.** 2022. Monitoring demography of resurrected populations of locally extinct and extant species to investigate drivers of species loss. *American Naturalist* 200(2), e36-e51. <https://doi.org/10.1086/720206>
[†]Student Paper Award, American Society of Naturalists
- (10) **Zettlemoyer, M.A.** 2022. Leaf traits mediate herbivory across a nitrogen gradient differently in extirpated vs. extant prairie species. *Oecologia* 198, 711-720. <https://doi.org/10.1007/s00442-022-05130-x>
- (9) Johnson, S.E.*[‡], **Zettlemoyer, M.A.**[§] 2022. Seed predator preferences are associated with seed traits but an unlikely mechanism of local extinction. *Restoration Ecology* 30(7), e13637. <https://doi.org/10.1111/rec.13627>
- (8) **Zettlemoyer, M.A.**, DeMarche, M.L. 2021. Dissecting impacts of phenological shifts for performance across biological scales. *Trends in Ecology and Evolution* 37(2), 147-157. <https://doi.org/10.1016/j.tree.2021.10.004>
- (7) **Zettlemoyer, M.A.**, Lau, J.A. 2021. Maternal warming delays offspring germination in native and nonnative species. *Oikos* 130(11), 1880-1891. <https://doi.org/10.1111/oik.08345>
- (6) **Zettlemoyer, M.A.**, Peterson, M.L. 2021. Does phenological plasticity help or hinder range shifts under climate change? *Frontiers in Ecology and Evolution* 9, 689192. <https://doi.org/10.3389/fevo.2021.689192>
- (5) **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. <https://doi.org/10.1002/ajb2.1684>
- (4) **Zettlemoyer, 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(8), 1253-1263. <https://doi.org/10.1111/ele.13290>
[†]Outstanding Student Research in Ecology, Ecological Society of America
- (3) **Zettlemoyer, M.A.**, McKenna, D.D., Lau, J.A. 2019. Species characteristics affect local extinctions. *American Journal of Botany* 106(4), 547-559. <https://doi.org/10.1002/ajb2.1266>
- (2) **Zettlemoyer, M.A.** 2019. Invasion Meltdown: a lesson meltdown saved by invasion-wise elementary students. *Michigan Science Teachers Association Journal* 64(2), 45-48.
- (1) **Zettlemoyer, 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. <https://doi.org/10.1086/694185>

In review or in preparation (available upon request):

Zettlemoyer, M.A., Doak, D.F., Morris, W.F., DeMarche, M.L. Local adaptation to minimum

temperatures and climate variability shape thermal performance across an alpine species' range. In prep.

Zettlemoyer, M.A., Munck, S. §, Poschlod, P., Rosbakh, S. No changes in plant diversity in montane grasslands over the past eight decades. In prep.

Other publications:

Zettlemoyer, M.A. 2020. Phenological and demographic plant responses to global change. *Michigan State University ProQuest Dissertations* 28030011.

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

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

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

Zettlemoyer, 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.

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

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

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

FELLOWSHIPS & AWARDS

2023	Best Student Paper Award, American Society of Naturalists, \$500
2023	Postdoctoral Scholars Travel Award, University of Georgia, \$1310
2022	Jim F. Crow Institute for the Study of Evolution Early Career Scientist Seminars Award, University of Wisconsin Madison
2022	Travel Award, Botanical Society of America, \$500
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, total \$7048
2017-2020	Research Mentor Awards, MSU KBS, total \$7000
2017-2018	AgBio Research Fellowship, MSU, \$35000
2016-2020	EEBB ⁴ Travel Grants, MSU, total \$4500
2016-2020	Paul Taylor Travel Awards, Plant Biology, MSU, total \$4955
2016-2017	Plant Sciences Fellowship, MSU, \$41729
2015	College of Natural Science Fellowship, MSU, \$60500

RESEARCH GRANTS & WORKING GROUPS

¹ UGA: University of Georgia, Athens, GA

² MSU: Michigan State University, East Lansing, MI

³ KBS: W.K. Kellogg Biological Station, Hickory Corners, MI

⁴ EEBB: Ecology, Evolutionary Biology and Behavior Program, East Lansing, MI

- 2022 Senior Personnel, NSF DEB 2211721, “Integrating phenology and demography to understand the consequences of phenological shifts for plant population dynamics” (PI: A. Iler), \$639059 *awarded*
- 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:

- 2023 Wildflower Association of Michigan, East Lansing, MI
- 2023 Early Career Scientists Symposium, University of Michigan, MI
- 2023 Division of Biological Sciences, University of Montana, MT
- 2023 Land Resources and Environmental Sciences, Montana State University, MT
- 2023 Department of Biological Sciences, Kent State University, OH
- 2023 Department of Botany, University of Wisconsin Madison, WI
- 2023 New York Botanical Garden, The Bronx, NY
- 2023 Department of Biological Sciences, Binghamton University, NY
- 2023 School of Biological Sciences, Illinois State University, IL
- 2023 Master Gardener Volunteer Association of Northwest Michigan, Traverse City, MI
- 2022 Evolution Seminar Series, University of Wisconsin Madison, WI
- 2022 Department of Ecology & Evolution, University of Chicago, IL
- 2022 Department of Biology, University of Kentucky, KY
- 2022 Department of Biology, University of Nebraska Omaha, NE
- 2022 Department of Plant Biology, UGA
- 2022 Plant It Wild, Benzie, MI
- 2021 NSF LTER Data Nuggets Workshop, KBS & Harvard Forest LTER
- 2020 Ecology/Diversity/Genetics/Evolution Seminar, UGA
- 2020 ArtBreak, Kalamazoo Institute of Arts, Kalamazoo, MI
- 2019 Department of Biology, Butler University, IN
- 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 presentations⁵:

⁵ Talk unless otherwise indicated; first author is presenting author

Zettlemoyer, M.A., Doak, D.F., Morris, W.F., DeMarche, M.L. 2023. Local adaptation to minimum temperatures shapes thermal performance across an alpine species' range. *Evolution*, Albuquerque, NM.

DeMarche, M.L., **Zettlemoyer, M.A.** 2023. Consequences of earlier flowering in a warming world (invited talk). Botany, Boise, ID.

Hale, C., **Zettlemoyer, M.A.**, DeMarche, M.L. 2023. Earlier flowering in understory spring ephemerals lags behind forest leaf-out. Ecological Society of America, Portland, OR.

Zettlemoyer, M.A., Conner, R., Seaver, M., Waddle, E., DeMarche, M.L. 2022. Advancing phenology is adaptive but insufficient to maintain fitness under warmer climates. Botanical Society of America, Anchorage, AK.

Wilson, J.* , DeMarche, M.L., **Zettlemoyer, M.A.** Comparing phenological shifts under climate change using historical and observational datasets (poster). (1) 2022, Botanical Society of America, Anchorage, AK; (2) 2021, Georgia Undergraduate Research Collective, GA; (3) 2021, Center for Undergraduate Research Opportunities, UGA, GA.

Zettlemoyer, M.A. Nitrogen influences prairie plant population declines and local extinction. (1) 2021, American Society of Naturalists; (2) 2020, 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.** 2020. Plant performance is affected by soil communities and temperature. Ecological Society of America.

Zettlemoyer, 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.

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.

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

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

Zettlemoyer, 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.

Zettlemoyer, 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.

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.

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

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

Zettlemoyer, 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.

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.

Zettlemoyer, 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.

Zettlemoyer, 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.

Zettlemoyer, 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.

TEACHING

Instructor of Record:

S2024 Introductory Ecology (BIOE 172), University of Montana, Missoula, MT
S2020 Biology Laboratory (BIO 101), Kellogg Community College, Battle Creek, MI

Teaching Assistantships and Guest Lectures:

2023 *Guest Lecture:* 'The role of phenology in invasion and extinction', Intro Botany, UM
2022 *Guest Speaker,* Undergraduate Evolution Seminar, University of Wisconsin Madison
2021 *Guest Lecture:* 'Using Penstemon spp. (Plantaginaceae) to investigate phenological responses to global change', Plant Taxonomy, UGA
2021 *Guest Lecture:* 'Nitrogen effects on plant population dynamics and species interactions,' Honors Biology, UGA
2021 *Guest Lecture:* 'Community Ecology', Nature Journaling: Blending Art and Science, W.K. Kellogg Bird Sanctuary, MI
2018-2020 *Teaching Assistant,* Eminent Ecologist Series PLB891, MSU KBS
2019 *Teaching Assistant,* Field Botany, W.K. Kellogg Bird Sanctuary, MI
2018-2019 *Instructor,* 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 Education:

- 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 K-12 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

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- 2023-present Christopher Cardella (University of Montana⁶), Mentored Research (BIOB390)
- 2023-present Audrey Gustafson (UM), Mentored Research (BIOB390)
- 2023-present McKenna Hill (UM), Mentored Research (BIOB390)
- 2023-present Elizabeth Kent (UM), Mentored Research (BIOB390)
- 2023-present August Lawson (UM), Mentored Research (BIOB390)
- 2023-present Fouad Joe Mikati (UM), Mentored Research (BIOB390)
- 2023-present Delia Schmidt (UM), Mentored Research (BIOB390)
- 2023-present Madi Talley (UM), Wildlife Biology Senior Thesis
- 2021-2022 Jillian Wilson (UGA), Mentored Research
- 2019-2022 Karina Cortijo-Robles (University of Puerto Rico), Ecological Society of America SEEDS SPUR Fellowship, NSF Research Experience for Undergraduates (REU)

⁶ UM: University of Montana, Missoula, MT

2019 Nicholas Srodes (MSU), Undergraduate Research Apprentice (URA)
 2019 Brendan Canavan (MSU), URA
 2018-2022 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 Etzcorn, Zoe Folsom (Michigan Technological University), Stefany Tule (Western Michigan University)

ACADEMIC SERVICE

2023-present *Member*, Graduate Admissions Committee, Ecology & Evolution Program, UM
 2022-present *Member*, Workshop & Regional Meeting Committee, American Society of Naturalists
 2022-present *Mentor*, Promoting Geoscience Research, Education & Success (PROGRESS)
 2021-present *Mentor*, Científico Latino Graduate School Mentorship Initiative
 2021 *Search Committee*, Biology Labs Instructor, Plant Biology, UGA
 2020-2023 *Diversity, Equity & Inclusion (DEI) Committee*, 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

Zettlemoyer, 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

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

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

Zettlemoyer, 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.

Zettlemoyer, 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

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

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:

- 2022 Promoting Geoscience Research, Education & Success (PROGRESS) Mentor Training
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:

- 2023 Indian Education for All, Montana University System
2023 Field Futures Workshop, NSF LTER
2021 Understanding Diversity, Equity and Inclusion Series, UGA
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:

- 2023 Grant Writing, UGA
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

- 2023 ‘Scientists at the Mountain Research Station investigate changing behavior of an alpine plant’, *Institute of Arctic and Alpine Research*
- 2022 Science Spotlight, *Budburst Newsletter*
- 2022 ‘From summer program to published paper: sowing the seeds of research’, *Kellogg Biological Station News*
- 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 ‘Invasive species like it hot’, *Nature Plants* 5:645
- 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*
- 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*
- 2018 ‘Native plants and our changing planet’, *Wild Ones River City Chapter Blog*

REVIEWER

Journals:

- 2023 Am. J. Bot. (3), Biol. Inv., GISci. Remote Sens.; J. Ecol. (3); Nature Eco. Evol., New Phytol., PLOS ONE, PNAS
- 2022 Am. J. Bot. (2), Ann. Bot., Comm. Biol., J. Ecol., Glob. Ecol. Biogeogr., J. Ecol., New Phytol., Plant Biol., Proc. B. (2), Trends Ecol. Evol.
- 2021 Am. J. Bot. (2), Ann. Bot. (2), Biol. Inv., Biol. Rev., Clim. Chang. Ecol., Ecology, Glob. Chang. Biol., Glob. Ecol. Biogeogr., J. Anim. Ecol., J. Appl. Ecol., J. Ecol., PNAS
- 2020 Am. Nat., Ann. Bot., Clim. Chang. Ecol., Ecol. Appl., Ecol. Evol., Plant Ecol., Plant Ecol. Div., Rest. Ecol.
- 2019 Ann. Bot., Ecosphere, J. Rad. Biol., New Phytol., Plant Biol., Plant Ecol., Molec. Biol.

Grants:

- 2024 NSERC Evolution & Ecology (ad-hoc)
- 2023 NSF LTREB (ad-hoc)
- 2022 Minnesota Invasive Terrestrial Plants and Pests Center (ad-hoc)

PROFESSIONAL SOCIETIES & AFFILIATIONS

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

Updated 4 January 2024