Seema Nayan Sheth

ssheth3@ncsu.edu Department of Plant and Microbial Biology Phone: (919) 515-4168 North Carolina State University Raleigh, NC 27695 http://www.seemasheth.weebly.com PROFESSIONAL APPOINTMENTS Assistant Professor 2018 - present Department of Plant and Microbial Biology North Carolina State University National Science Foundation Postdoctoral Fellow 2016 - 2017 Department of Integrative Biology Biology University of California, Berkeley Supporting scientists: Dr. David Ackerly and Dr. Bruce Baldwin Postdoctoral Research Associate 2014 - 2015 Department of Ecology, Evolution, and Behavior University of Minnesota Advisor: Dr. Ruth Shaw Research Scientist: Conservation, Ecology, and Evolution 2006 - 2008 Center for Conservation and Sustainable Development Missouri Botanical Garden **EDUCATION** 2008 - 2014 Ph.D., Ecology Colorado State University Advisor: Dr. Amy Angert M.S., Biology (Ecology, Evolution, and Systematics) 2003 - 2006 University of Missouri - St. Louis

RESEARCH INTERESTS

Washington University in St. Louis

Advisor: Dr. Bette Loiselle

evolutionary and population ecology; biogeography; plant community responses to climate change

1998 - 2002

PUBLICATIONS

Undergraduate student^u; Graduate student^g; Postdoctoral associate^p

B.A., Environmental Sciences and Spanish (double major)

- 26. Querns, A.g., R. Wooliver, M. Vallejo-Marín, and S. N. Sheth. In press. The evolution of thermal performance in native and invasive populations of *Mimulus guttatus*. *Evolution Letters*: DOI: 10.1002/evl3.275. Pre-print: https://doi.org/10.1101/2020.09.10.291252.
- 25. Lee-Yaw, J. A., McCune J. L., Pironon, S. and S. N. Sheth. 2022. On the predictive value of species distribution models in population biology. *Ecography*, https://doi.org/10.1111/ecog.05877.
- 24. Preston, J. C, <u>R. Wooliver^p</u>, H. Driscoll, A. Coughlin, and **S. N. Sheth**. 2022. Spatial variation in high temperature-regulated gene expression predicts evolution of plasticity with climate change in the scarlet monkeyflower. *Molecular Ecology*, https://doi.org/10.1111/mec.16300.

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- 23. Barley, J. M., B. S. Cheng, M. Sasaki, S. Gignoux-Wolfsohn, C. G. Hays, A. B. Putnam, S. N. Sheth, A. R. Villeneuve, and M. W. Kelly. 2021. Limited plasticity in thermally tolerant ectotherm populations: evidence for a trade-off. *Proceedings of the Royal Society B* 288: 20210765.
- 22. Vtipil, E. E.^{u,g} and S. N. Sheth. 2020. A resurrection study reveals limited evolution of phenology in response to recent climate change across the geographic range of the scarlet monkeyflower. *Ecology and Evolution* 10: 14165-14177.
- 21. Wooliver, R.P., S. B. Tittes, and S. N. Sheth. 2020. A resurrection study reveals limited evolution of thermal performance in response to recent climate change across the geographic range of the scarlet monkeyflower. *Evolution* 74: 1699-1710.
- 20. **Sheth, S.N.**, N. Morueta-Holme, and A. L. Angert. 2020. Determinants of geographic range size in plants. *New Phytologist* 226: 650-665.
- 19. Briscoe Runquist, R. D., A. J. Gorton, J. B. Yoder, N. J. Deacon, J. J. Grossman, S. A. Kothari, M. P. Lyons, **S. N. Sheth**, P. Tiffin, and D. A. Moeller. 2020. Context dependence of local adaptation to abiotic and biotic environments: a quantitative and qualitative synthesis. *American Naturalist* 195: 412-431.
- Smithers, B. V., M. F. Oldfather, M. J. Koontz, J. Bishop, C. Bishop, J. Nachlinger, and S. N. Sheth. 2020. Community turnover by composition and climate affinity across scales in an alpine system. *American Journal of Botany* 107: 239-249.
- 17. Oldfather, M. F., M. M. Kling, **S. N. Sheth**, N. C. Emery, and D. D. Ackerly. 2020. Range edges in heterogeneous landscapes: integrating geographic scale and climate complexity into range dynamics. *Global Change Biology* 26: 1055-1067.
- 16. Lowry D. B., J. M. Sobel, A. L. Angert, T-L. Ashman, R. L. Baker, B. K. Blackman, Y. Brandvain, K. J. R. P. Byers, A. M. Cooley, J. M. Coughlan, M. R. Dudash, C. B. Fenster, K. G. Ferris, L. Fishman, J. Friedman, D. L. Grossenbacher, L. M. Holeski, C. T. Ivey, K. M. Kay, V. A. Koelling, N. J. Kooyers, C. J. Murren, C. D. Muir, T. C. Nelson, M. L. Peterson, J. R. Puzey, M. C. Rotter, J. R. Seeman, J. P. Sexton, S. N. Sheth, M. A. Streisfeld, A. L. Sweigart, A. D. Twyford, M. Vallejo-Marin, J. H. Willis, C. A. Wu, and Y. W. Yuan. 2019. The case for the continued use of the genus name Mimulus for all monkeyflowers. Taxon 68: 617-623.
- 15. Kulbaba, M. W., **S. N. Sheth**, R. E. Pain, V. M. Eckhart, and R. G. Shaw. 2019. Additive genetic variance for lifetime fitness and the capacity for adaptation in the wild. *Evolution* 73: 1746-1758.
- 14. **Sheth, S. N.**, M. W. Kulbaba, R. E. Pain, and R. G. Shaw. 2018. Expression of additive genetic variance for fitness in a population of partridge pea in two field sites. *Evolution* 72: 2537-2545.
- 13. **Sheth, S. N.** and A. L. Angert. 2018. Demographic compensation does not rescue populations at a trailing range edge. *Proceedings of the National Academy of Sciences (USA)* 115: 2413-2418.
- 12. Pain, R. E., R. G. Shaw, and **S. N. Sheth**. 2018. Costs associated with N-fixing rhizobia early in the life of partridge pea *Chamaecrista fasciculata*. *American Journal of Botany* 105: 796-802.

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- Morueta-Holme, N., M. F. Oldfather, R. L. Olliff-Yang, A. P. Weitz, C. R. Levine, M. M. Kling, E. C. Riordan, C. Merow, S. N. Sheth, A. H. Thornhill, and D. D. Ackerly. 2018. The language of climate change: best practices in research and publication. *Nature Climate Change* 8: 92-94.
- 10. Angert, A. L., M. Bayly, **S. N. Sheth**, and J. R. Paul. 2018. Testing range-limit hypotheses using range-wide habitat suitability and occupancy for the scarlet monkeyflower (*Erythranthe cardinalis*). *American Naturalist* 191: E76-E89.
- 9. **Sheth, S. N.** and A. L. Angert. 2016. Artificial selection reveals high genetic variation in phenology at the trailing edge of a species range. *American Naturalist* 187: 182-193. (American Naturalist 2016 Student Paper Award)
- 8. **Sheth, S. N.**, I. Jiménez, and A. L. Angert. 2014. Identifying the paths leading to variation in geographical range size in western North American monkeyflowers. *Journal of Biogeography* 41: 2344-2356.
- Sheth, S. N. and A. L. Angert. 2014. The evolution of environmental tolerance and range size: a comparison of geographically restricted and widespread *Mimulus*. *Evolution* 68: 2917-2931.
- 6. **Sheth, S. N.**, L. G. Lohmann, T. Distler, and I. Jiménez. 2012. Understanding bias in geographic range size estimates. *Global Ecology and Biogeography* 21: 732-742.
- 5. Paul, J. R., S. N. Sheth, and A. L. Angert. 2011. Quantifying the impact of gene flow on phenotype-environment mismatch: a demonstration with the scarlet monkeyflower *Mimulus cardinalis*. *American Naturalist* 178: S62-S79.
- Angert, A. L., S. N. Sheth, and J. R. Paul. 2011. Incorporating population-level variation in thermal performance into predictions of geographic range shifts. *Integrative And Comparative Biology* 51: 733-750.
- 3. Sheth, S. N., B. A. Loiselle, and J. G. Blake. 2009. Phylogenetic constraints on fine-scale patterns of habitat use by eight primate species in eastern Ecuador. *Journal of Tropical Ecology* 25: 571-582.
- 2. Sheth, S. N., L. G. Lohmann, T. Consiglio, and I. Jiménez. 2008. Effects of detectability on estimates of geographic range size in Bignonieae. *Conservation Biology* 22: 200-211.
- 1. Amend, J. P., D. A. R. Meyer-Dombard, **S. N. Sheth**, N. Zolotova, and A. C. Amend. 2003. *Palaeococcus helgesonii* sp. nov., a facultatively anaerobic, hyperthermophilic archaeon from a geothermal well on Vulcano Island, Italy. *Archives of Microbiology* 179: 394-401.

Manuscripts in review/revision (available upon request)

- Coughlin, A. M., <u>R. Wooliver</u>, and **S. N. Sheth**. General-purpose genotypes with divergent niche optima shape population-level niche breadth in western North American monkeyflowers. In review at *Evolution*.
- Sasaki, M. J. M. Barley, S. Gignoux-Wolfsohn, C. G. Hays, M. W. Kelly, A. B. Putnam, S. N. Sheth, A. R. Villeneuve, and B. S. Cheng. Greater local adaptation to temperature in the ocean than on land. In revision for *Nature Climate Change*. Pre-print: https://www.researchsquare.com/article/rs-987225/v1.

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GRANTS, FELLOWSHIPS, AND AWARDS

| National Science Foundation, DEB, Total: \$1,452,695 (\$509,734 to NCSU) Collaborative Research: BEE: Integrating evolutionary genetics and population ecology to detect contemporary adaptation to climate change across a species range (lead PI). co-PIs: Chris Muir (U. of Hawai'i at Mānoa), Lluvia Flores-Rentería (San Diego State U.), Jason Sexton (U. of California, Merced), and Jeff Diez (U. of Oregon). | 2022-2025 |
|--|-------------|
| NCSU Faculty Research and Professional Development Fund, \$5,000 | 2019 - 2020 |
| Rapid evolution of thermal tolerance across a species' geographic range (PI) | |
| American Naturalist 2016 Student Paper Award | 2017 |
| NSF Postdoctoral Research Fellowship in Biology, \$138,000 | 2016 - 2017 |
| Relationships among climatic tolerance, trait evolution, and diversification in the California flora | |
| Postdoctoral Association Career Development Award, Univ. of Minnesota, \$400 | 2015 |
| Finalist, University of California President's Postdoctoral Fellowship | 2014 |
| NSF DEB Evolutionary Ecology, \$14,984 | 2012 - 2014 |
| Dissertation Research: Role of evolutionary potential in limiting species' distributions (co-PI) | |
| Outreach Grant, Society for the Study of Evolution, \$800 | 2012 |
| Global Sustainability Leadership Fellow, Colorado State University | 2012 |
| Rosemary Grant Award, Society for the Study of Evolution, \$2,500 | 2010 |
| Graduate Student Research Award, Botanical Society of America, \$500 | 2010 |
| Finalist, Environmental Protection Agency STAR Graduate Fellowship | 2009 |
| Steinkamp Fund, Colorado Native Plant Society, \$1,000 | 2009 |
| Women in Natural Sciences Travel Grant, Colorado State University, \$300 | 2009 |
| Awards from Department of Biology, Colorado State University, \$7,425 | 2009 - 2014 |
| Grad. Degree Program in Ecology Fellowship, Colorado State University, \$1,000 | 2008 |
| NSF GK-12 Fellowship, Colorado State University, \$4,000 | 2008 |
| NSF GK-12 Fellowship, Univ. of Missouri-St. Louis, \$30,000 | 2005 - 2006 |
| Awards from Department of Biology, Univ. of Missouri-St. Louis, \$3,500 | 2004 - 2005 |
| Primate Action Fund, Conservation International, \$3,000 | 2004 |
| PRESENTATIONS | |
| Undergraduate student ^u ; Graduate student ^g ; Postdoctoral associate ^p Invited symposia | |
| 46th Annual Southern California Botanists Symposium (virtual) | 2020 |
| Living on the edge - Plants in extreme environments | |
| "The role of demographic and evolutionary processes in buffering populations from climate change" | |

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| International Biogeography Society Humboldt-250 Meeting, Quito, Ecuador | 2019 |
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| Symposium: Architects of variation: How climate and physiology shape patterns of biodiversity | |
| "Can plant thermal tolerance evolve under climate change? A comparison of central and edge populations" (<u>R. Wooliver</u> ^p , S. Tittes, and S.N. Sheth ; presented by R. Wooliver) | |
| Green Life Sciences, University of Michigan, Ann Arbor, MI | 2018 |
| Symposium: Plant-environment interactions across scales | |
| "Do demographic compensation and adaptation buffer species from changing climate?" | |
| Society for the Study of Evolution, Portland, OR | 2017 |
| American Society of Naturalists Symposium: Across the Nth dimension: Quantitative and conceptual advances in the study of niche breadth | |
| "Does niche breadth predict vulnerability to changing environments? From population-level traits and demography to diversification in deep time" | |
| SACNAS, Long Beach, CA | 2016 |
| Scientific Symposium: (Day and) Night at the Museum: Exploring Research in Ecology and Evolution Behind the Scenes of Natural History Museums | |
| "Harnessing the power of herbarium specimen data for ecological and evolutionary studies" | |
| Jornadas Argentinas de Botanica, Corrientes, Argentina | 2007 |
| Symposium: Conservation and Threat Assessments of Plants | |
| "Riesgo de extinción en Bignonieae (Bignoniaceae): una perspectiva filogenética" (Sheth, S.N. , L.G. Lohmann, T. Consiglio, and I. Jiménez) | |
| Botanical Society of America and Plant Biology Joint Congress, Chicago, IL | 2007 |
| Colloquium: Integration of spatial and ecological data in evolutionary studies | |
| "Extinction risk in Bignonieae (Bignoniaceae): a phylogenetic perspective" (Sheth, S.N., L.G. Lohmann, T. Consiglio, and I. Jiménez) | |
| Invited seminars | |
| Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville | 2021 |
| Department of Ecology and Evolutionary Biology, University of Colorado, Boulder | 2021 |
| Department of Ecology and Evolutionary Biology, University of California, Irvine | 2021 |
| Ecology, Evolution, and Behavior Program, Michigan State University | 2021 |
| Department of Integrative Biology, University of California, Berkeley *** Graduate Student Invited Lecture *** | 2020 |
| Department of Ecology and Evolutionary Biology, University of Arizona | 2020 |
| Department of Ecology and Evolutionary Biology, Tulane University | 2019 |
| Program in Ecology, Duke University Kellogg Biological Station, Michigan State University | 2019 2019 |
| Genetics and Genomics Seminar Series, North Carolina State University | 2019 |
| Bio-Pop Seminar Series, Department of Biology, University of North Carolina | 2018 |
| Department of Plant Biology, University of Vermont | 2018 |
| EEBio Seminar Series, Department of Biology, University of Virginia | 2018 |
| Department of Forestry and Environmental Resources, North Carolina State University | 2018 |
| Department of Biological Sciences, California Polytechnic State University | 2017 |
| Department of Ecology and Evolutionary Biology, University of California, Los Angeles | 2017 |

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| Environmental Systems Graduate Group, University of California, Merced | 2017 |
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| School of Integrative Plant Science, Plant Biology Section, Cornell University | 2017 |
| Center for Population Biology, University of California, Davis | 2017 |
| Department of Biology, University of Utah | 2017 |
| Natural History Museum of Utah | 2017 |
| Department of Plant and Microbial Biology, North Carolina State University | 2017 |
| Department of Biology, Williams College | 2016 |
| Department of Biology, Williams Conlege Department of Biology, University of San Francisco | 2016 |
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| Department of Biology, Grinnell College | 2015 |
| Department of Plant Biology, University of Minnesota | 2015 |
| Department of Biology, Washington University in St. Louis | 2007 |
| Department of Biology, St. Louis University | 2007 |
| Contributed conference presentations | |
| Preston, J. C, <u>R. Wooliver^p</u> , H. Driscoll, E. Coughlin, and S. N. Sheth . "Spatial variation in high temperature-regulated gene expression predicts evolution of plasticity with climate change in the scarlet monkeyflower." Botany (virtual; presented by J. C. Preston) | 2021 |
| Olliff Yang, R. L., S. N. Sheth , and D. Ackerly. "Population differentiation in flowering time in <i>Lasthenia gracilis</i> , a widespread annual forb." Botany (virtual; presented by R. L. Olliff Yang) | 2021 |
| Smithers, B. V., M. F. Oldfather, M. J. Koontz, J. Bishop, C. Bishop, J. Nachlinger, and S. N. Sheth. "Community turnover by composition and climate affinity across scales in an alpine system." Ecological Society of America (virtual; presented by B. Smithers) | 2020 |
| Wooliver, R. ^p , E.E. Vtipil ^g , and S.N. Sheth . "A call for unified study of plant thermal performance in a warming world." Botany (virtual; presented by R. Wooliver) | 2020 |
| Querns, A. ^g , R. Wooliver ^p , M. Vallejo-Marín, and S.N. Sheth . "The evolution of thermal performance in native and invasive populations of <i>Mimulus guttatus</i> ." Botany (virtual; poster presented by A. Querns) | 2020 |
| *** Winner of Best Graduate Student Poster in Ecology *** | |
| Wooliver, R. ^p , S. Tittes, and S.N. Sheth . "Can plant thermal tolerance evolve under climate change? A comparison of central and edge populations." Southeast Population Ecology and Evolutionary Genetics, Clemson, SC (presented by R. Wooliver) | 2019 |
| Vtipil, E.E. ^{u,g} and S.N. Sheth . "The evolution of flowering time in response to climate change in <i>Erythranthe cardinalis</i> ." Southeast Population Ecology and Evolutionary Genetics, Clemson, SC (poster presented by E. Vtipil). | 2019 |
| *** Winner of Second Best Graduate Student Poster *** | |
| Kulbaba, M., S.N. Sheth, R.E. Pain, V.M. Eckhart, and R.G. Shaw. "Adaptive potential and realized changes in fitness in natural populations." Society for the Study of Evolution, Montpellier, France (poster presented by M. Kulbaba) | 2018 |
| Sheth, S.N. and A.L. Angert. "Demographic compensation does not rescue Erythranthe cardinalis populations at the southern edge of the species range." Ecological Society of America, Portland, OR | 2017 |

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| Kulbaba, M., R.E. Pain, V.M. Eckhart, S.N. Sheth , and R.G. Shaw. "The immediate capacity for adaptation and its realization in natural plant populations." International Botanical Congress, Shenzhen, China | 2017 |
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| Sheth, S.N., M. Kulbaba, R.E. Pain, and R.G. Shaw. "Expression of additive genetic variance for fitness in a population of partridge pea grown in two field sites." Society for the Study of Evolution, Portland, OR (presented by R.G. Shaw) | 2017 |
| Sheth, S.N., W.A. Freyman, B.G. Baldwin, and D.D. Ackerly. "Relationships among rates of climatic niche evolution and diversification." Society for the Study of Evolution, Austin, TX (poster) | 2016 |
| Sheth, S.N. and A.L. Angert. "Artificial selection reveals high genetic variation in phenology at the trailing edge of a species range." Ecological Society of America, Baltimore, MD | 2015 |
| Sheth, S.N. and A.L. Angert. "Does a jack-of-all-temperatures have a large geographic range?" Society for the Study of Evolution, Snowbird, UT | 2013 |
| Sheth, S.N., I. Jiménez, and A.L. Angert. "Effects of niche properties on variation in geographic range size among species of western North American monkeyflowers." Ecological Society of America, Portland, OR | 2012 |
| Sheth, S.N., L.G. Lohmann, T. Distler, and I. Jiménez. "The Wallacean shortfall: bias in estimates of geographic range size." Botanical Society of America, St. Louis, MO (presented by I. Jiménez) | 2011 |
| Sheth, S.N. and A.L. Angert. "Ecological niche attributes and geographic range size in western North American monkeyflowers." Society for the Study of Evolution, Portland, OR | 2010 |
| Sheth, S.N., L.G. Lohmann, I. Jiménez, and T. Consiglio. "Riesgo de extinción en Bignonieae (Bignoniaceae) estimado con datos de herbario." Congreso Latinoamericano de Botánica. Santo Domingo, Dominican Republic (presented by L. G. Lohmann) | 2006 |
| TEACHING | |
| North Carolina State University | |
| Plant Ecology, PB450/550-001, solo instructor | 2019 - present |
| Colorado State University | |
| Principles of Plant Biology Laboratory, teaching assistant Plant Ecology, guest lecturer Plant Ecology, teaching assistant Biology of Organisms, guest lecturer Cache La Poudre Junior High School, NSF GK-12 fellow, LaPorte, CO | 2008 - 2014 2012 - 2013 2011 - 2012 2009 2008 - 2009 |
| Missouri Botanical Garden | |
| Neotropical Plant Families, guest lecturer for University of Michigan course Conservation Biology, guest lecturer for University of Missouri - St. Louis course | 2008 2008 |
| University of Missouri - St. Louis | |
| McCluer High School, NSF GK-12 fellow, Florissant, MO Organisms and the Environment Laboratory, guest lecturer | 2005 - 2006 2005 |
| AmeriCorps Partnership for Youth | |
| Woodward Elementary School, tutor and teaching assistant, St. Louis, MO | 2002 - 2003 |

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MENTORING

North Carolina State University

| Postdoctoral | neencintee |
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| Dr. Rachel Wooliver | 2018 - 2020 |
| Graduate students | |
| Kaleb Goff (Ph.D.) Emma Vtipilthorpe (Ph.D.) Aleah Querns (M.S.) Emma Vtipil (M.R.) | 2021 - present 2020 - 2021 2018 - 2020 2019 - 2020 |
| Undergraduate researchers | |
| Devin Adas Brooke Caldwell Natalie Gold Mariah Kidd Daisy Ryan Emily Powell Jessie Torres Emma Vtipil (Honor's thesis student; recipient of NCSU Chilton Research A Mia Wiegmann Emma Wilson Collin Yurish | 2021 2019 - 2020 2019 - 2020 2020 - 2021 2021 - present 2018 - 2019 2018 - 2021 2021 - present 2018 - 2021 |
| $Graduate\ student\ committees$ | 2010 - 2018 |
| Samuel Flake, NCSU Kira Lindelof, NCSU Ryan O'Connell, Duke University Simon Pinilla-Gallego, NCSU Anita Simha, Duke University Greg Wilson, NCSU | 2018 - 2021 2020 - present 2020 - present 2018 - 2021 2020 - present 2018 - 2019 |
| University of California, Berkeley | |
| Mentored 7th graders at King Middle School as part of Be a Scientist outrea | ach program 2017 |
| University of Minnesota | |
| Sam Weaver (NSF REU student from St. Olaf College) | 2015 |
| Colorado State University | |
| Amber Weimer (Honor's thesis undergraduate student) Trained, mentored, and supervised 17 undergraduates & recent college graduates of Biological Summer Undergraduate Research Experience program committee | |
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SERVICE

University service

| Plant Biology Graduate admissions committee, NCSU | 2018 - present |
|--|----------------|
| College of Agricultural and Life Sciences greenhouse committee, NCSU | 2019 - present |
| Ecology faculty search committee, Dept. of Plant and Microbial Biology, NCSU | 2019 - 2020 |
| Biology faculty search committee, Colorado State University | 2012 - 2013 |

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Professional service

| Workshop and Regional Society committee member, American Society of Naturalists | 2021 - present |
|--|-------------------|
| Manuscript reviewer: American Journal of Botany, American Naturalist, Annals of Botany, AoB PLANTS, Biology Letters, BMC Evolutionary Biology, Current Biology, Ecography, Ecological Applications, Ecology, Ecology Letters, Evolution, Evolutionary Ecology, Functional Ecology, Journal of Animal Ecology, Journal of Ecology, Molecular Ecology, New Phytologist, Philosophical Transactions of the Royal Society B, PNAS, Proceedings of the Royal Society B, Science Advances, Trends in Ecology and Evolution | 2009 - present |
| Proposal reviewer: NSF Division of Environmental Biology | 2021 |
| Book proposal reviewer: Oxford University Press | 2018 |
| Proposal reviewer: NSF Division of Environmental Biology, Population and Community Ecology | 2014 |
| Other service | |
| Volunteer: Global Observation Research Initiative in Alpine Environments (GLORIA) Great Basin, California and Nevada | 2017 - present |
| Invited Panelist, PhD Career Panel (virtual), Graduate Degree Program in Ecology, Colorado State University | 2021 |
| Exhibitor, Darwin Day, North Carolina Museum of Natural Sciences | 2019, 2021 |
| Judge, Southeast Population Ecology and Evolutionary Genetics | 2019 |
| Advisory board member: Science Ambassador Scholarship (for undergraduate women in science, technology, engineering, or math), Cards Against Humanity | 2017 - 2018 |
| Collaborated with National Park Service to recruit Navajo Nation students to assist with fieldwork in Canyon de Chelly National Monument, AZ | 2009 |
| Volunteer, Putnam Elementary Science Carnival, Fort Collins, CO | 2009 |
| Volunteer, Unidad Técnica (environmental NGO), Managua, Nicaragua | 2001 |
| WORKING GROUPS AND WORKSHOPS | |
| Agricultural Leadership Learning Institute for Faculty, North Carolina State University, Raleigh, NC | 2019 |
| Evolution in Changing Seas Synthesis Workshop, Shoals Marine Laboratory, Appledore, ME | 2019 |
| Software Carpentry Workshop, Berkeley Institute of Data Sciences, Berkeley, CA | 2016 |
| Early Career Centennial Mentoring Program, Ecological Society of America, Baltimore, MD | 2015 |
| Quantitative Genetics and Mixed Models in Quantitative Genetics, Summer Institute in Statistical Genetics, University of Washington, Seattle, WA | 2013 |
| Intro to Python for ArcGIS Workshop, Colorado State University, Fort Collins, CO | 2013 |
| Science Communication Workshop, Colorado State University, Fort Collins, CO | 2012 |

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| Living on the edge: integrating science into the management of range-margin populations, University of Wyoming, Laramie, WY | 2010 |
|--|------|
| Applied Phylogenetics Workshop, Bodega Bay Marine Laboratory, CA | 2010 |
| Working with ArcGIS Spatial Analyst (short course), Environmental Systems Research Institute, St. Charles, MO | 2007 |
| Distance Sampling Workshop, University of Missouri - St. Louis, St. Louis, MO | 2006 |
| Assessing extinction risk in Bignonieae (summer internship), Center for Conservation and Sustainable Development, Missouri Botanical Garden, St. Louis, MO | 2005 |
| Geographic Information Systems (course), University of Missouri - St. Louis | 2004 |
| Tropical Biology: An Ecological Approach (course), Organization for Tropical Studies, Costa Rica | 2004 |
| Historical Biogeography (short course), University of Missouri - St. Louis | 2004 |

PROFESSIONAL AFFILIATIONS AND SOCIETIES

Science Director: GLORIA (Global Observation Research Initiative in Alpine Environments) Great Basin

Faculty Affiliate: Southeast Climate Science Center

American Society of Naturalists Botanical Society of America Ecological Society of America Society for the Study of Evolution

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