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
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
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 Natural History Museum of Utah	2017
Department of Plant and Microbial Biology, North Carolina State University	2017 2017
Department of Fight and Microbial Biology, North Carolina State University Department of Biology, Williams College	2017
Department of Biology, Williams Conlege Department of Biology, University of San Francisco	2016
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, R. Wooliver ^p , H. Driscoll, E. Coughlin, and S. N. Sheth.	2021
"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)	
Olliff Yang, R. L., S. N. Sheth, and D. Ackerly. "Population differentiation in	2021
flowering time in Lasthenia gracilis, a widespread annual forb." Botany	
(virtual; presented by R. L. Olliff Yang)	
Smithers, B. V., M. F. Oldfather, M. J. Koontz, J. Bishop, C. Bishop, J.	2020
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)	
Wooliver, R. ^p , E.E. Vtipil ^g , and S.N. Sheth. "A call for unified study of plant	2020
thermal performance in a warming world." Botany (virtual; presented by	
R. Wooliver)	
Querns, A. ^g , R. Wooliver ^p , M. Vallejo-Marín, and S.N. Sheth. "The	2020
evolution of thermal performance in native and invasive populations of	
Mimulus guttatus." Botany (virtual; poster presented by A. Querns)	
*** Winner of Best Graduate Student Poster in Ecology ***	
Wooliver, R. ^p , S. Tittes, and S.N. Sheth . "Can plant thermal tolerance	2019
evolve under climate change? A comparison of central and edge	
populations." Southeast Population Ecology and Evolutionary Genetics,	
Clemson, SC (presented by R. Wooliver)	
Vtipil, E.E. ^{u,g} and S.N. Sheth . "The evolution of flowering time in response	2019
to climate change in <i>Erythranthe cardinalis</i> ." Southeast Population	
Ecology and Evolutionary Genetics, Clemson, SC (poster presented by E.	
Vtipil).	
*** Winner of Second Best Graduate Student Poster ***	
Kulbaba, M., S.N. Sheth, R.E. Pain, V.M. Eckhart, and R.G. Shaw.	2018
"Adaptive potential and realized changes in fitness in natural populations."	
Society for the Study of Evolution, Montpellier, France (poster presented	
by M. Kulbaba)	
Sheth, S.N. and A.L. Angert. "Demographic compensation does not rescue	2017
Erythranthe cardinalis populations at the southern edge of the species	
range." Ecological Society of America, Portland, OR	

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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
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	associates

Postdoctoral associates	
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	
Daisy Ryan Emily Powell Jessie Torres Emma Vtipil (Honor's thesis student; recipient of NCSU Chilton Research Award Mia Wiegmann	2021 2019 - 2020 2019 2019 - 2020 2021 - present 2020 - 2021 2021 2018 - 2019 2018 - 2019 2018 - 2021 2021 - present
Collin Yurish	2018 - 2019
Graduate student committees	
Ryan O'Connell, Duke University Simon Pinilla-Gallego, 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 outreach pr	rogram 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 Biological Summer Undergraduate Research Experience program committee mem	2013 - 2014 2009 - 2014 ber 2012
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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