NASH TURLEY

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CURRENT POSITION

2021-Present – **Postdoctoral Researcher**. Pennsylvania State University, USA.
Research project: "Monitoring Pennsylvania's bee biodiversity"
Advisor: Dr. Margarita M. López-Uribe
lopezuribelab.com/pa-bee-monitoring

PREVIOUS POSITIONS

2017-2021 – **Postdoctoral Fellow**. University of Central Florida, USA.
Research project: "Lawn to Wildflowers: plant-pollinator public science network"
Advisor: Dr. Barbara J. Sharanowski

2014-2017 – **Postdoctoral Research Associate**. Michigan State University, USA.
Research project: "Impacts of agricultural land-use legacies and restoration on biodiversity in longleaf pine savannas"
Advisor: Dr. Lars A. Brudvig

EDUCATION

2014 – **Ph.D.** Department of Ecology and Evolutionary Biology, University of Toronto, Canada.
Thesis: "Ecological and evolutionary consequences of herbivory on plant communities"
Advisor: Dr. Marc T. J. Johnson

2008 – **B.S.** University of Washington, USA.
Major: Biology (environment & conservation)
Research project: "Effects of habitat fragmentation on plant-herbivore interactions"
Research advisor: Dr. Joshua J. Tewksbury

GRANTS AND AWARDS

2023 – David Gibby Search for Excellence Award presented at International Master Gardener Conference
2022 – Pennsylvania State Extension award for best research program
2017 – FFAR Pollinator Health Fund, "Lawns to wild flowers: A citizen science project for pollinator health". Sharanowski BJ (PI), Turley NE (co-PI), Gibbs J (co-PI), JeanPierre B (co-PI), Goldstein B (senior personnel). $677, 230
2013 – Sigma Xi Grant In Aid of Research. $1000
2010 – National Science Foundation Graduate Research Fellowship. $91,000
2010 – Arthur B. Moss Travel Award. $500
2009 – North Carolina State University Provost Fellowship. $4000
2008 – NSF Travel Award. $1000
2008 – Frye Hotson Rig Endowment. $300

2007 – Mary Gates Scholar. $6000
2007 – Frye Hotson Rig Endowment. $2000

PUBLICATIONS * = Undergraduate mentees

In review - Turley NE, Pulido-Guarín H*, Nossa-Suárez D*, Hoffmann G*, Martín RD, Aguilar-Benavides L, López-Uribe MM. Tropical bee biodiversity declines with elevation while community body size increases.

2025 – Turley NE, Kania SE, Sandoval Arango S, Skvarla MJ, López-Uribe MM. Bees of Pennsylvania: A Guide to the Genera. **Penn State Extension**. https://extension.psu.edu/bees-of-pennsylvania-a-guide-to-the-genera

2025 – Carroll EP, Held DW, Turley NE, Bruckner S. (2025). Crape myrtle bark scale *Acanthococcus lagerstroemiae* (Coccidae: Eriococcidae) infestation seasonally alters the insect biodiversity on crape myrtle trees. **Oecologia**. 207(10), 155. https://doi.org/10.1007/s00442-025-05792-3

2025 – Underwood RM, Kelsey TW, Turley NE, López-Uribe MM. Organic colony management practices are profitable for backyard beekeepers. **Journal of Economic Entomology.** toaf133. https://doi.org/10.1093/jee/toaf133

2025 – Breland SJR, Turley NE, Gibbs J, Isaacs R, Brudvig LA. Land-use legacies affect flower visitation network structure after forest restoration. **Journal of Forestry**. 1-20. https://doi.org/10.1007/s44392-025-00014-3

2025 – Pizza RB, Turley NE, Brudvig LA. Relative effects of seed mix design, consumer pressure, and edge proximity on community structure in restored prairies. **Ecological Applications**. 35(1): e3083. https://doi.org/10.1002/eap.3083

2024 – Levenson HK., Messinger Carril O, Turley NE, Maffei C, LeBuhn G, Griswold T, Williams NM, Hung JH, Irwin RE, Du Clos B, Woodard SH. Standardized protocol for collecting community-level bee data. **Journal of Melittology**. 123. https://doi.org/10.17161/jom.vi123.22649

2024 – Turley NE, Kania SE, Petitta IR, Otruba EA, Biddinger DJ, Butzler TM, Sesler VV, López-Uribe MM. Bee monitoring by community scientists: comparing a collections-based program with iNaturalist. **Annals of the Entomological Society of America.** 117(4) 220–233. https://doi.org/10.1093/aesa/saae014

2023 – Underwood RM, Lawrence BL, Turley NE, Cambron-Kopco LD, Kietzman PM, Traver BE, López-Uribe MM. A longitudinal experiment demonstrates that honey bee colonies managed organically are as healthy and productive as those managed conventionally. **Scientific Reports**. (13) 6072. https://doi.org/10.1038/s41598-023-32824-w

2022 – Turley NE, Biddinger DJ, Joshi NK, López-Uribe MM. Six years of wild bee monitoring shows changes in biodiversity within and across years and declines in abundance**. Ecology and Evolution**. (12) e9190. https://doi.org/10.1002/ece3.9190

2022 – López-Uribe MM, Demchak K, Fleischer SJ, Bird S, Pettita I, Turley NE. Pollination of Blueberry Crops in Pennsylvania. **Penn State Extension**. https://extension.psu.edu/pollination-of-blueberry-crops-in-pennsylvania

In revision – Turley NE, Hogan J*, Diehl GJ*, Stack AC*, Sharanowski BJ. Nationwide survey on the barriers to converting turfgrass lawns to pollinator-friendly native wildflowers.

2021 – Brudvig LA, Turley NE (co-first authors), Bartel S, Bell-Dereske L, Breland S,

Damschen EI, Evans SE, Gibbs J, Hahn PG, Isaacs R, Ledvina JA, Orrock JL, Sorenson QM, Stuhler JD. Large ecosystem-scale effects of restoration fail to mitigate impacts of land-use legacies in longleaf pine savannas. **Proceedings of the National Academy of Sciences.** 118 (17) e2020935118. https://doi.org/10.1073/pnas.2020935118

2020 – Turley NE, Bell-Dereske L, Evans SE, Brudvig LA. Agricultural land-use history and restoration impacts soil microbial biodiversity. **Journal of Applied Ecology.** (57) 852-863. https://doi.org/10.1111/1365-2664.13591

2019 – Linabury MC*, Turley NE, Brudvig LA. Insects remove more seeds than mammals in first-year prairie restorations. **Restoration Ecology.** (27) 1300–1306. https://doi.org/10.1111/rec.13004

2019 – Odanaka K, Gibbs J, Turley NE, Isaacs R, Brudvig LA. Canopy thinning, not agricultural history, determines early responses of wild bees to longleaf pine savanna restoration. **Restoration Ecology**. (28) 138–146. https://doi.org/10.1111/rec.13043

2019 – Barker CA*, Turley NE, Orrock JL, Ledvina JA, Brudvig LA. Agricultural land-use history does not reduce woodland understory herb establishment. **Oecologia.** (189) 1049–1060. https://doi.org/10.1007/s00442-019-04348-6

2018 – Breland S, Turley NE, Gibbs J, Isaacs R, Brudvig LA. Restoration increases bee abundance and richness but not pollination in remnant and post‐agricultural woodlands. **Ecosphere**. (9) e02435. https://doi.org/10.1002/ecs2.2435

2017 – des Roches S, Post DM, Turley NE, Bailey JK, Hendry AP, Kinnison MT, Schweitzer JA, Palkovacs EP. The ecological effects of variation within species. **Nature Ecology and Evolution.** (2) 57. https://doi.org/10.1038/s41559-017-0402-5

2017 – Turley NE, Orrock JL, Ledvina JA, Brudvig LA. Dispersal and establishment limitation slows plant community recovery on post-agricultural longleaf pine savannas. **Journal of Applied Ecology**. (54) 1100–1109. https://doi.org/10.1111/1365-2664.12903

2017 – Brudvig LA, Barak RS, Bauer JT, Caughlin TT, Laughlin DC, Larios L, Matthews JW, Stuble KL, Turley NE, Zirbel CR. Interpreting variation to advance predictive restoration science. **Journal of Applied Ecology**. (54) 1018–1027. https://doi.org/10.1111/1365-2664.12938

2016 – Turley NE, Brudvig LA. Agricultural land-use history causes persistent loss of plant phylogenetic diversity. **Ecology**. (97) 2240–2247. https://doi.org/10.1002/ecy.1443

2015 – Palkovacs EP, Fryxell DC, Turley NE, Post DM. Ecological effects of intraspecific consumer biodiversity for aquatic communities and ecosystems. In *Aquatic Functional Biodiversity*. Belgrano A, Woodward G (editors). Academic Press. https://doi.org/10.1016/B978-0-12-417015-5.00002-5

2015 – Turcotte MM, Lochab AK, Turley NE, Johnson MTJ. Plant domestication slows pest evolution. **Ecology Letters**. (18) 907-915. https://doi.org/10.1111/ele.12467

2015 – Santangelo JS*, Turley NE, Johnson MTJ. Fungal endophytes of *Festuca rubra* increase in frequency following long-term exclusion of rabbits. **Botany**. (93) 233-241. https://doi.org/10.1139/cjb-2014-0187

2015 – Turley NE, Johnson MTJ. Ecological effects of aphid abundance, genotypic variation, and contemporary evolution on plants. **Oecologia**. (178) 747-759. https://doi.org/10.1007/s00442-015-3276-8

2014 – Turcotte MM, Turley NE, and Johnson MTJ. The impact of domestication on resistance to two generalist herbivores across 29 independent domestication events. **New Phytologist**. (204) 671–681. https://doi.org/10.1111/nph.12935

2014 – Didiano TJ*, Turley NE, Schaefer H, Everwand G, Crawley MJ, Johnson MTJ. Experimental test of plant defense evolution in four species using long-term rabbit exclosures. **Journal of Ecology**. (102) 584–594. https://doi.org/10.1111/1365-2745.12227

2013 – Evans DM, Turley NE, Tewksbury JJ. Habitat edge effects alter ant-guard protection against herbivory. **Landscape Ecology**. (28) 1743-1754. https://doi.org/10.1007/s10980-013-9917-6

2013 – Turley NE, Odell WC*, Schaefer H, Everwand G, Crawley MJ, Johnson MTJ. Contemporary evolution of plant growth rate following experimental removal of herbivores. **American Naturalist**. (181) S21–S34. https://doi.org/10.1086/668075

2013 – Turley NE, Godfrey RM, Johnson MTJ. Evolution of mixed strategies of plant defense against herbivores. **New Phytologist**. (197) 359–361. https://www.jstor.org/stable/newphytologist.197.2.359

2012 – Evans DM, Turley NE, Levey DJ, Tewksbury JJ. Habitat patch shape, not corridors, determines herbivory and fitness of a model plant species. **Ecology**. (93) 1016-1025. https://doi.org/10.1890/11-0642.1

2012 – Woods EC, Hastings AP, Turley NE, Heard SB, Agrawal AA. Adaptive geographical clines in the growth and defense of a native plant. **Ecological Monographs**. (82)149-168. https://doi.org/10.1890/11-1446.1

2011 – Hersch-Green EI, Turley NE, Johnson MTJ. Community genetics: what have we accomplished and where should we be going? **Philosophical Transactions of the Royal Society B**. (366) 1453-1460. https://doi.org/10.1098/rstb.2010.0331

SOFTWARE

2020 – Turley NE, Gibbs J, Hogan J*, Stack AC*, Stewart G*, Sharanowski BJ. Lawn to Wildflowers App. Available for Apple and Android mobile devices: https://www.lawntowildflowers.org/download

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ACADEMIC PRESENTATIONS

2025 – Turley NE. Pennsylvania Bee Monitoring Program Lessons from Four Years of Community Science. PSU Center for Pollinator Research Symposium. 29 May.

2024 – Turley NE, Kania SE, Petitta IR, Otruba EA, Biddinger DJ, Butzler TM, Sesler VV, López-Uribe MM. Bee monitoring by community scientists: comparing a collections-based program with iNaturalist. American Entomological Society meeting. National Academy of Sciences, Philadelphia, PA, USA, 24 April.

2023 – Turley NE, Kania SE, Butzler TM, Petitta IR, Sesler VV, Biddinger DJ, López-Uribe MM. Bee monitoring in Pennsylvania by community scientists: Comparing a collections-based program with iNaturalist. Entomological Society of America. National Harbor, MA, USA, 7 November.

2023 – Turley NE, Kania SE, Butzler TM, Petitta IR, Sesler VV, Biddinger DJ, López-Uribe MM. Pennsylvania Bee Monitoring Program. Poster at International Pollinator Conference, State College, PA, USA. 4 June.

2022 – Turley NE, Biddinger DJ, Joshi NK, López-Uribe MM. Studying bee population dynamics using 10 years of standardized sampling. Entomological Society of America, Bee Monitoring Symposium. Vancouver, BC, Canada. 15 November.

2022 – Turley NE, López-Uribe MM. Master Gardener Bee Monitoring Program. Entomological Society of America Eastern Branch. Community Science Symposium. *Invited talk. Philadelphia, PA, USA. 25 April.
2021 – Turley NE, Butzler TM, Sesler VV, Biddinger DJ, López-Uribe MM. Monitoring Bee Communities Across Pennsylvania, Past, Present, and FutureCenter for Pollinator Research Symposium. State College, PA, USA. 16 November.
2021 – University of Central Florida, Department of Biology Seminar. February.
2020 – Ecological Society of America, https://youtu.be/GPpBa3xzqmM August.
2019 – Florida Native Plant Society Symposium. Crystal River, FL. May.
2017 – INTECOL. Beijing, China. *Invited talk.
2017 – Ecological Society of America. Portland, Oregon, USA. *Invited talk.
2017 – Southern Section of the American Society for Plant Biologists, Orlando, FL, USA.
2016 – Ecological Society of America. Fort Lauderdale, FL, USA. *Invited talk.
2015 – Ecological Society of America. Baltimore, MA, USA.
2015 – Ecology and Evolutionary Biology Symposium. Michigan State University, MI, USA.
2014 – Ecological Society of America. Sacramento, CA, USA.
2014 – Canadian Society of Ecology and Evolution. Montreal, QC, Canada.
2013 – Canadian Society of Plant Biologists. Mississauga, ON, Canada.
2013 – Ecological Society of America. Minneapolis, MN, USA.
2013 – Ontario Ecology, Ethology, and Evolution Colloquium. London, Ontario, Canada.
2013 – Gordon Conference on Plant-Herbivore Interactions. Ventura, CA, USA.
2012 – Joint Congress on Evolutionary Biology. Ottawa, Ontario, Canada.
2011 – Symposium on Insect Plant Interactions. Wageningen, The Netherlands.
2011 – Ecological Society of America. Austin, TX, USA.
2010 – Sigma Xi Research Conference. Raleigh, NC, USA.
2009 – Ecological Society of America. Albuquerque, NM, USA.
2008 – Ecological Society of America. Milwaukee, WI, USA.

TEACHING

2023 – Instructor on NSF-IRES: Pollinators in Changing Climates Colombia, July-August
2022 – Introduction to R guest lecture for IRES Course. Link to Instructions and code here. June.
2018 – Instructor. 2 Sections of Ecology (IBIO 355). Kellogg Biological Station, Michigan State University.
2017 – Instructor. Ecology (IBIO 355). Kellogg Biological Station, Michigan State University.
2016 – Teaching certificate. Pathways to Scientific Teaching, Department of Plant Biology, Michigan State University, course taught by Dr. Diane Ebert-May
2016 – Guest lecturer. Evolution section of introductory biology course
2014 – Teaching assistant. Functional morphology of animals
2013 – Guest lecturer. Natural history and ecology of parasites and predators
2013 – Teaching assistant. Introduction to ecology
2012 – Guest lecturer. Ecological and evolutionary effects of herbivory and competition on plant communities at Silwood Park, England
2011 – NC State University Outstanding Teaching Assistant Award
2011 – Guest lecturer. Evolutionary ecology of plant-herbivore interactions
2010 – Teaching assistant. Introduction to ecology

2009 – Teaching assistant. Introduction to ecology

UNDERGRADUATE & GRADUATE MENTORING

2022-2024 – Alejandro Medina-Valencia
2019-2021 – Joshua Hogan
2017-2011 – Shiala Morales Naranjo
2015-2019 – Mary Linabury; first author of peer reviewed publication
2014-2019 – Carrie Barker; first author of peer reviewed publication
2013-2014 – James Santangelo; first author of peer reviewed publication
2012-2013 – Teresa Didiano: first author of peer reviewed publication
2009-2010 – Walter Odell; co-author of peer reviewed publication

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OUTREACH

2025 – Wild bee booth at Great Insect Fair. State College, PA, 20 Sep.
2025 – Wild bee booth and presentation at Ag. Progress Days. Rock Springs, PA, 12-14 Aug.
2025 – Talk on non-native bees for Penn State Extension. 6 June. 1728 people registered.
2024 – Wild bee booth at Great Insect Fair. State College, PA, 14 Sep.
2024 – Wild bee booth and presentation at Ag. Progress Days. Rock Springs, PA, 13-15 Aug.
2024 – Presentation for Osher Lifelong Learning Institute, State College, PA. 13 May.
2024 – Wild bee booth at native plant sale, State College, PA, 7 May.
2023 – Interview on Penn State Extension "Keeping it Green" podcast. Dec.
2023 – Wild bee poster at PA Beekeepers Conference, State College, PA, 21 October.
2023 – Wild bee booth and presentation at Ag. Progress Days. Rock Springs, PA, 8-10 August.
2023 – Interview on Jack's Backyard radio show WEEU, Berks Co. PA, 24 March.
2022 – Wild bee poster at PA Beekeepers Conference, State College, 6-7 November.
2022 – Wild bee booth at Ag. Progress Days. Rock Springs, PA, 8-11 May.
2022 – Presentation on Wild Bees. Butterflies, Birds, Bees, Bats, and Blooms - A Pollinator and Garden Faire. 18 June. Fairfax, PA.
2022 – Bee Monitoring Presentation, University of Pittsburgh-Bradford. Bradford, PA, 14 May.
2022 – ENVISION: STEM Career Day Supporting Young Women. State College, PA. 23 March.
2021 – Botany Conference, Invited panelist for SciComm Mixer. July.
2021 – Interview about lovebugs for WTSP-TV 10, Tampa Bay, FL. 8 Sept.
2021 – Lawn to Wildflowers presentation for Alvin Sherman Library, Davie, FL. 23 June.
2021 – Lawn to Wildflowers presentation for Orange Co. Audubon Society. 18 March.
2021 – Lawn to Wildflowers presentation for Gainesville Newcomers Club, 3 March.
2021 – Lawn to Wildflowers presentation for Florida Wildflower Foundation, 9 February. https://youtu.be/FMhnTHEx2XA
2020 – Lawn to Wildflowers presentation at Backyard Biodiversity Day, Mead Botanical Garden, 18 Oct.
2020 – Interview on WFTV Channel 9 News about Lawn to Wildflowers, 26 June https://www.wftv.com/news/local/orange-county/trading-grass-wildflowers-how-ucf-professor-is-using-landscaping-advice-help-save-bees/WXCHBPSMWZA4ZBFIGVJL4C2XWY/
2020 – Lawn to Wildflowers live-streamed presentation for Pawpaw Chapter of Florida Native Plant Society. 8 June.

2020 – Interview on WFTV Channel 9 News about lovebugs, 12 May: https://www.wftv.com/video/?id=4903067
2020 – Lawn to Wildflowers live-streamed presentation for IDEAS for US. 15 April.
2020 – Lawn to Wildflowers presentation at Pinellas Chapter of the Florida Native Plant Society. Clearwater, FL, March 4.
2020 – Lawn to Wildflowers presentation at Nature Coast Chapter of the Florida Native Plant Society. Land O' Lakes, FL, January 14.
2019 – Lawn to Wildflowers presentation at Conradina Chapter of the Florida Native Plant Society. Melbourne, FL, October 14.
2019 – Lawn to Wildflowers presentation at Sparkleberry Chapter of the Florida Native Plant Society. Branford, FL, October 8.
2019 – Entomology Society of Central Florida booth at Science Nite. Orlando Science Center, FL, October 5.
2019 – Lawn to Wildflowers presentation at Serenoa Chapter of the Florida Native Plant Society. Sarasota, FL, September 16.
2019 – Tour of Bug Closet at University of Central Florida for high school students Biology Summer Field Institute. Orlando, FL, July 17.
2019 – Tour of Bug Closet at University of Central Florida for high school students in the Orlando Science Center Catalyst Program. Orlando, FL, July.
2019 – Two-day field instruction on entomology and insect collecting methods, high school students in the Orlando Science Center Catalyst Program, Archbold Biological Station, FL, June.
2019 – Lawn to Wildflowers booth at Florida Wildflower Foundation Symposium
2019 – K-12 STEM day at the University of Central Florida, March.
2019 – Disney Wilderness Preserve Family Day with Entomology Society of Central Florida, Feb.
2019 – Lawn to Wildflowers presentation at Big Bend Chapter of the Florida Native Plant Society. Jan.
2018 – Insect display for Lake County Historical Museum, FL.
2018 – Entomological Society booth at of Central Florida at Florida Wildflower Symposium
2018 – Tour of Bug Closet at University of Central Florida to two groups of high school students from the COMPASS Program
2017 – Skype with a Scientist, Bridges Montessori, Bel Air, MD.
2017 – Skype with a Scientist, 1st grade class, Stafford Elementary School, Stafford, VA.
2017 – Skype with a Scientist, 7th grade class in Crapaud, PEI, Canada.
2017 – Skype with a Scientist, 11th grade class in Clinton, CT.
2017 – Backyard Biodiversity Day at Mead Botanical Gardens with Entomology Society of Central Florida
2017 – K-12 STEM day at the University of Central Florida
2012 – Two field courses for 6-8th grade students at the Peel Summer Academy on Natural History and Ecology
2011 – NC Natural History Museum, poster presentation on "How humans benefit from the evolution of plant dispersal mechanisms"
2011 – JY Joyner Elementary Science-Go-Round, four second grade presentations on plant diversity
2010 – Apex Elementary Science Spectacular, four fifth grade presentations on ecology of plant

life cycles
2010 – River Oaks Middle School for At-risk Students, Intro to ecology and evolution and a career in science
2010 – Fred Olds Elementary School, plant ecology introduction and DNA extraction exercise
2010 – Bugfest volunteer, North Carolina Museum of Natural Sciences
2009 – Entomology Graduate Student Association, NCSU. Four presentations to K-12 youth on entomology
2009 – Bugfest volunteer, North Carolina Museum of Natural Sciences
2009 – Northern Mariana Islands, Saipan Southern High School, presentation on ecology of bird loss

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PREVIOUS RESEARCH POSITIONS

2009 – Research assistant, Ecology of Bird Loss Project, Mariana Islands. Supervisors: Dr. Joshua J. Tewksbury, Dr. Janneke HilleRisLambers, Dr. Ross Miller, Dr. Haldre Rogers
2008 – Research associate, Corridor Project, Savannah River Site, SC. Supervisors: Dr. Joshua J. Tewksbury, Dr. Lars A. Brudvig
2007 – REU researcher, Corridor Project, Savannah River Site, SC. Supervisors: Dr. Joshua J. Tewksbury, Dr. Lars A. Brudvig
2006 – Field assistant, University of Washington. Supervisor: Dr. Michael Beecher, Dr. Chris Templeton

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PEER REVIEWING

2025 – Journal of Hymenoptera Research
2024 – PeerJ, Insect Conservation and Diversity, Ecological Applications, Apidologie, Ecology
2023 – Ecosphere, Restoration Ecology
2022 – Ecological Solutions, Restoration Ecology, Ecology, Ecological Restoration
2021 – Restoration Ecology, Landscape Ecology, Journal of Applied Ecology, Journal of Vegetative Science
2020 – Journal of Ecology, Trends in Ecology and Evolution, Restoration Ecology (3), Ecology, Landscape Ecology
2019 – Journal of Applied Ecology, Evolutionary Application, Restoration Ecology, Molecular Ecology, Oikos
2018 – Journal of Applied Ecology (3), Proceedings of the Royal Society B, Agricultural and Forest Entomology
2017 – Journal of Applied Ecology (2)
2016 – Ecology, Ecology Letters (2), Journal of Applied Ecology, National Science Foundation
2015 – PNAS, Oecologia (2), PeerJ, Oikos, Functional Ecology, Torrey Botanical Society
2014 – Functional Ecology
2013 – Ecological Entomology
2012 – Botany
2011 – Oecologia, Oikos, Trends in Plant Science
2010 – Ecology Letters, Functional Ecology, Oecologia
2009 – Ecology, Entomologia Experimentalis et Applicata, Oikos

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FURTHER EDUCATION

2024 – iDigBio Digitization Academy, Introduction to Biodiversity Specimen Digitization
2021 – Center for Wildlife Studies, Geospatial Modeling with QGIS and R

SKILLS

Data and Research: coding in R, statistical analyses (e.g. mixed effects models, multivariate statistics), map making and analyses with QGIS, data visualization, data collection, experimental design, data interpretation, literature review

Natural History: bird identification, plant identification, insect collecting and curation

Teamwork: project management, mentoring, grant writing, collaborative writing

Communications: public speaking, technical writing , social media (Twitter, Instagram, Facebook, Pinterest, YouTube), podcasting, video production, nature photography, digital marketing, blogging