CURRICULUM VITAE

ERIN LOUISE SAUER

Department of Ecology, Evolution, and Natural Resources
Rutgers, The State University of New Jersey
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EDUCATION

2018 Ph.D. Ecology and Evolution, University of South Florida
Dissertation: *Behavioral thermoregulation and thermal mismatches influence disease dynamics in amphibians*. Advisor: Dr. Jason Rohr

2013 B.S. Biology. University of South Florida, Tampa, Florida. Department of Integrative Biology

RESEARCH APPOINTMENTS

2025-present Assistant Professor, Ecology, Evolution, and Natural Resources, Rutgers University

2021-2025 Postdoctoral Researcher, Biological Sciences, University of Arkansas. Supervisor: Dr. Sarah DuRant

2019-2020 Postdoctoral Researcher, Forest and Wildlife Ecology, University of Wisconsin – Madison. Supervisor: Dr. Daniel Preston

2019 Postdoctoral Researcher, Integrative Biology, University of South Florida. Supervisor: Dr. Jason Rohr

2012-2013 NSF REU Scholar, Integrative Biology, University of South Florida. Supervisor: Dr. Gordon Fox

2011-2013 Research Assistant, Integrative Biology, University of South Florida. Supervisor: Dr. Matthew Venesky

2011-2012 Research Intern, Fisheries Independent Monitoring Program, Florida Fish and Wildlife Conservation Commission. Supervisor: Jenna Tortorelli, M.S.

PUBLICATIONS

[1]undergraduate mentee; [2]graduate student mentee; [3]co-first author

In review/In revisions (additional preprints available upon request)

A. Love, K. Grisham, A. Anthony, J. Kodali, **E. Sauer**, C. Goodchild, S. DuRant. Prior maternal disease alters a key parental care behavior in songbirds and increases infection-induced pathology in offspring. *In review at Journal of Animal Ecology*

S. DuRant, **E. Sauer**, A. Love, W. Perrine, A. Morris, R. Paitz. Maternal disease history and diet affect egg yolk steroids but not antibodies. *In review at American Naturalist*

Peer reviewed publications In Press or Published

27. [2]M. Sudnick, **E. Sauer**, S. DuRant. **In press.** Prior infection induces long-lasting partial immunity to reduce transmission within flocks in an avian host-pathogen system. *Ecological and Evolutionary Physiology.*

26. **E. Sauer**, J. Hite, S. DuRant. **2025.** The nutritional content of anthropogenic resources affects wildlife disease dynamics. Integrative & Comparative Biology.

25. B. Shayhorn[1], C. Ramsay, K. Medina[1], **E. Sauer**, J. Rohr. 2025. Host-consumed resources may increase endoparasitic but decrease ectoparasitic infections. Diseases of Aquatic Organisms.

24. **E. Sauer**[3], C. Stacy[2,3], W. Perrine[2], A. Love, J. Lewis, S. DuRant. 2025. Diet driven differences in host tolerance are linked to shifts in global gene expression in a common avian host-pathogen system. *Molecular Ecology*. UArk Newswire, NPR station KUAF

23. W. Perrine[2], **E. Sauer**, A. Love, A. Morris, J. Novotny[1], S. DuRant. 2025. A high lipid diet leads to greater pathology and lower tolerance during infection than a high protein diet. Journal of Experimental Biology.

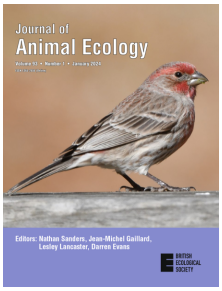
22. W. Kirkpatrick[2], **E. Sauer**, R. Carroll, J. Cohen, C. Davis, S. Fuhlendorf, S. DuRant. 2025. Critical reproductive behaviors in Scaled Quail and Northern Bobwhite are affected by thermal variability and mean temperature. Thermal Biology.

21. E. Sauer. 2024. Citizen science allows for a broadened understanding of how anthropogenic food sources influence wildlife disease. Journal of Animal Ecology.

20. A. Waddle[2], S. Clulow, A. Aquilian, **E. Sauer**, S. Kaiser, C. Miller, J. Flegg, P. Campbell, H. Gallagher, I. Dimovski, Y. Lambreghts, L. Berger, L. Skerratt, R. Shine. 2024. Hotspot shelters enable frogs to survive chytridiomycosis and stimulate resistance. Nature. **Featured on cover** and in: New York Times, Washington Post, Science, NatGeo, CBC News, Forbes, Smithsonian Mag, Yahoo, MSN, Popular Science, UArk Newswire, NPR station KUAF, and other news outlets.

19. E. Sauer, M. Venesky, T. McMahon, J. Cohen, S. Bessler, L. Brannelly, F. Brem, N. Halstead, O. Hyman, P. Johnson, C. Richards-Zawacki, S. Rumschlag, B. Sears, J. Rohr. 2024. Are novel or locally adapted pathogens more devastating and why? Resolving opposing hypotheses. Ecology Letters.

18. **E. Sauer**, C. Connelly[1], W. Perrine, A. Love, S. DuRant. 2023. Male pathology regardless of behaviour drives transmission in an avian host-pathogen system. Journal of Animal Ecology. **Featured on cover.**



17. E. Crone[2], **E. Sauer**, D. Preston. 2023. Nonnative fish facilitate nonnative snails and alter food web structure in experimental pond communities. Functional Ecology.

16. D. Trovillion[2], **E. Sauer**, G. Shay[1], E. Crone[2], D. Preston. 2023. Habitat complexity, connectivity, and introduced fish drive pond community structure along an urban to rural gradient. Ecological Applications. **Featured on cover**.

15. **E. Sauer**, J. Cruz, E. Crone[2], C. Lewis[1], E. Plumier[1], B. Cwynar[1], D. Drake, B. Herrick, D. Preston. 2022. Multiscale drivers of amphibian community occupancy in urban ponds. Urban Ecosystems. **Featured in The Atlantic, LTER Network, and on Wisconsin Public Radio.**

14. E. Crone[2], **E. Sauer**, B. Herrick, D. Drake, D. Preston. 2022. Effects of invasive jumping worms (Amynthas spp.) on microhabitat and trophic interactions of native herpetofauna. Biological Invasions.

13. D. Preston, E. Crone[2], A. Miller-ter Kuile, C. Lewis[1], **E. Sauer**, D. Trovillion[2]. 2021. Nonnative freshwater snails: A global synthesis of invasion status, mechanisms of introduction, and interactions with natural enemies. Freshwater Biology.

12. J. Cohen, **E. Sauer**, O. Santiago[1], S. Spencer[1], J. Rohr. 2020. Divergent impacts of warming weather on wildlife disease risk across climates. Science.

11. D. Preston & **E. Sauer**. 2020. Infection pathology and competition mediate host biomass overcompensation from disease. Ecology.

10. **E. Sauer**, J. Cohen, T. McMahon, M. Lajeunesse, D. Civitello, S. Knutie, K. Nguyen, E. Roznik, B. Sears, S. Bessler, B. Delius, N. Halstead, N. Ortega, M. Venesky, S. Young, J. Rohr. 2020 A meta-analysis reveals temperature, dose, life stage, and taxonomy influence host susceptibility to a fungal parasite. Ecology. **Featured on cover.**

9. **E. Sauer**, N. Trejo[1], J. Hoverman, J. Rohr. 2019. Behavioral fever reduces ranavirus infection in toads. Functional Ecology. **Featured at *Functional Ecology* and The Wildlife Society.**

8. J. Cohen, T. McMahon, C. Ramsay, E. Roznik, **E. Sauer**, S. Bessler, D. Civitello, B. Delius, N. Halstead, S. Knutie, K. Nguyen, N. Ortega, B. Sears, M. Venesky, S. Young, J.R. Rohr. 2019. Impacts of thermal mismatches on disease prevalence are moderated by life stage, body size, elevation and latitude. Ecology Letters. **Featured on cover.**

7. **E. Sauer**, R. Fuller, C. Richards-Zawacki, J. Sonn, J. Sperry, J. Rohr. 2018. Variation in individual temperature preferences, not behavioural fever, affects susceptibility to chytridiomycosis in amphibians. Proceedings of the Royal Society B. **Featured at Amphibia Web.**
6. J. Cohen, M. Venesky, **E. Sauer**, D. Civitello, T. McMahon, J. Rohr. 2016. The thermal mismatch hypothesis explains outbreaks of an emerging infectious disease. Ecology Letters. **Featured on cover and in *Nature*.**
5. **E. Sauer**, J. Sperry, J. Rohr. 2016. An efficient and inexpensive method for measuring long-term thermoregulatory behavior. Journal of Thermal Biology.
4. J. Cohen, D. Civitello, A. Brace, E. Feichtinger, N. Ortega, J. Richardson, **E. Sauer**, J. Rohr. 2016. Spatial scale modulates the strength of ecological processes driving disease distributions. Proceedings of the National Academy of Sciences.
3. D. Civitello, J. Cohen, H. Fatima, N. Halstead, J. Liriano, T. McMahon, N. Ortega, **E. Sauer**, T. Sehgal, S. Young, J. Rohr. 2015. Reply to Salkeld et al.: Diversity-disease patterns are robust to study design, selection criteria, and publication bias. Proceedings of the National Academy of Sciences.
2. D. Civitello, J. Cohen, H. Fatima, N. Halstead, J. Liriano, T. McMahon, N. Ortega, **E. Sauer**, T. Sehgal, S. Young, J. Rohr. 2015. Biodiversity inhibits parasites: broad evidence for the dilution effect. Proceedings of the National Academy of Sciences. **Featured in *PNAS* and *Science* and at** NPR, ScienceDaily, Earth Island Journal
1. M. Venesky, X. Liu, **E. Sauer**, J. Rohr. 2013. The Dilution Effect: Linking Experiments to Field Data and Evaluation its Relative Strength. Journal of Animal Ecology.

FUNDED & SUBMITTED GRANTS (TOTAL AWARDED: $58,750)

Submitted 2022	Australian Research Council, LP220100157, Manipulating amphibian behaviour to fight a wildlife pandemic. Co-PI, Lead PI: Dr. Richard Shine. Submitted July 2022; highly ranked but not funded. Total requested: $761,868 AUD
2014-2016	Department of the Army, EF-1241889, Thermoregulatory behavior of southeastern amphibians following exposure to the chytrid fungus *Batrachochytrium dendrobatidis*. Authored by E. Sauer, Lead PI: J. Rohr **Total awarded: $58,750**

FELLOWSHIPS & AWARDS (TOTAL AWARDED: $15,900 & £1000)

2025	Robert Lochmiller Early Career Investigator Award, Society of Integrative and Comparative Biology.
2018	Sigma Xi Honors Society, University of South Florida. Student nominee; included a monetary award.
2018	Mushinsky Award for outstanding research achievement, University of South Florida.
2017	VectorBiTE RCN travel award, Royal Holloway University, UK, National Institute of Health
2015-2016	Charlotte Magnum Funds, Society of Comparative and Integrative Biology
2013-2018	Intramural travel grants, University of South Florida
2012	REU stipend, National Science Foundation
2011	All Children's Hospital Scholarship
2009-2013	Florida Bright Futures Scholarship

INVITED RESEARCH SEMINARS

2025	Ecology and Evolution of Infectious Diseases Forum
2025	Department of Ecology, Evolution, and Natural Resources, Rutgers University – New Brunswick
2025	School of Biological Sciences, Southern Illinois University
2024	The Wildlife Society, University of Arkansas Chapter
2024	Department of Evolution, Ecology, and Organismal Biology, University of California – Riverside
2023	Department of Fisheries and Wildlife Sciences, New Mexico State University
2022	Department of Biological Sciences, Duquesne University

2022 School of Natural Resources and the Environment, University of Arizona
2021 Department of Biological Sciences, University of Arkansas
2021 Department of Biological Sciences, Boise State University
2020 Department of Biological Sciences, Northern Illinois University
2020 Biology Department, University of Tampa
2017 Biology Department, University of Tampa
2015 Herpetology Club, University of South Florida

OTHER INVITED TALKS

2021 Picture a Scientist event at a public high school in South Plainfield, New Jersey
2018 *Florida birding and eBird*. Main Branch, St. Petersburg Public Library, FL
2018 *Modern threats to reptiles & amphibians*, Florida Native Plant Society-Suncoast chapter
2014 Conservation biology interactive lecture, Camp Wai Lani Marine Science Lab, Girl Scouts of West Central Florida
2014 *How to get into grad school*. Biology Club, University of South Florida

CONFERENCE PRESENTATIONS

Invited Talks

2022 E. Sauer. Temperature variability and amphibian disease. Part of the organized session: Breaking Out the Average: Discussing Biological Responses to Neglected Climate Change Phenomena. Ecological Society of America & Canadian Society for Ecology and Evolution Joint Meeting, Montreal, Canada

Contributed Talks & Posters

2025 E. Sauer, C. Stacy, W. Perrine, A. Love, J. Lewis, J. Hite, S. DuRant. The nutritional content of anthropogenic resources affects host immune function and wildlife disease dynamics. Ecological Society of America, Baltimore, MD
2025 E. Sauer, C. Stacy, W. Perrine, A. Love, J. Lewis, S. DuRant. Diet driven differences in host tolerance to avian conjunctivitis are linked to shifts in global gene expression. Society for Integrative and Comparative Biology, Atlanta, GA
2024 E. Sauer, S. Roberts, D. Guillory, J. Novotny, W. Perrine, M. Sudnick, S. DuRant. Maternal behavior and disease history interact to influence offspring immune phenotypes. Society for Integrative and Comparative Biology, Seattle, WA
2023 E. Sauer, C. Connelly, W. Perrine, A. Love, S. DuRant. Male-biased disease dynamics of *Mycoplasma gallisepticum*. Society for Integrative and Comparative Biology, Austin, TX
2020 E. Sauer, E. Crone, C. Lewis, E. Plumier, B. Cwynar, D. Drake, B. Herrick, D. Preston. Amphibian communities in human-modified landscapes: Are urban ponds oases or ecological traps? The Wildlife Society, Regional Meeting, Wisconsin Rapids, WI
2020 E. Sauer, J. Cohen, T. McMahon, M. Lajeunesse, D. Civitello, S. Knutie, K. Nguyen, E. Roznik, B. Sears, S. Bessler, B. Delius, N. Halstead, N. Ortega, M. Venesky, S. Young, J. Rohr. A meta-analysis reveals temperature, dose, life stage, and taxonomy influence host susceptibility to a fungal parasite. 9th World Congress of Herpetology, Dunedin, New Zealand
2019 E. Sauer, D. Preston. Amphibian communities in human modified landscapes: Are stormwater ponds oases or ecological traps? Water Symposium, University of Wisconsin – Madison (poster)
2018 E. Sauer, J. Hoverman, N. Trejo, and J. Rohr. Behavioral fever reduces ranaviral infections in toads. Southeastern Ecology and Evolution Conference, Miami, FL
2017 E. Sauer, R. Fuller, C. Richards-Zawacki, J. Sonn, J. Sperry, J. Rohr. Some like it hot: thermoregulation and amphibian disease and decline. Ecological Society of America, Portland, OR

2016 E. Sauer, J. Hoverman, J. Sperry, J. Rohr. Influence of temperature preference and behavioral thermoregulation on disease resistance. World Congress of Herpetology, Hangzhou, China

2016 E. Sauer, J. Hoverman, J. Sperry, J. Rohr. Some like it hot: thermoregulation and amphibian disease and decline. Society of Comparative and Integrative Biology, Portland, OR

2015 E. Sauer, J. Sperry, J. Rohr. Interactions between behavioral thermoregulation and Batrachochytrium dendrobatidis infections in amphibians. Society of Comparative and Integrative Biology, West Palm Beach, FL

2013 M. Venesky, X. Liu, E. Sauer, and J. Rohr. The Dilution Effect: Linking Experiments to Field Data and Evaluation its Relative Strength. Society of Comparative and Integrative Biology, San Francisco, CA. (poster)

Student Presentations

presenter name is bolded; [1]advised undergraduate student; [2]advised graduate student

2025 **V. Singhal**[1], E. Sauer, K. Hendrix-Turner[1], S. Barraza-Del Barco[1], S. DuRant. Chronic stress results in greater pathology during MG infection in canaries. Society of Comparative and Integrative Biology, Atlanta, GA (poster)

2024 **M. Sudnick**[2], E. Sauer, A. Love, S. DuRant. Partial immunity after first infection is long lasting and reduces MG transmission. Society of Comparative and Integrative Biology, Seattle, WA (talk)

2023 **M. Sudnick**[2], E. Sauer, A. Love, S. DuRant. Partial immunity after first infection is long lasting and reduces MG transmission. American Ornithological Society, London, Canada (talk)

2023 **W. Perrine**[2], E. Sauer, A. Love, A. Morris, S. DuRant. Diet composition effects on *Serinus canaria* infected with *Mycoplasma gallisepticum*. American Ornithological Society, London, Canada (talk)

2023 **C. Connolly**[1], E. Sauer, W. Perrine, A. Love, S. DuRant. Sex differences in host resistance and tolerance to the common avian pathogen *Mycoplasma gallisepticum*. University of Arkansas Undergraduate Research Week Poster Competition, Fayetteville, AR (poster)

2023 **W. Perrine**[2], E. Sauer, A. Love, A. Morris, S. DuRant. Diet composition effects on *Serinus canaria* infected with *Mycoplasma gallisepticum*. Society of Comparative and Integrative Biology, Austin, TX (talk)

2023 **M. Sudnick**[2], E. Sauer, S. DuRant. Influence of a previous infection on *Mycoplasma gallisepticum* transmission in canaries. Society of Comparative and Integrative Biology, Austin, TX (poster)

2023 **C. Carter**[1], E. Sauer, W. Kirkpatrick, S. DuRant. Sex-differential growth and development in Eastern Bluebird nestlings. Society of Comparative and Integrative Biology, Austin, TX (poster)

2023 **D. Guillory**[1], E. Sauer, M. Sudnick, S. DuRant. Effect of maternal disease severity on transfer of antibodies to offspring. Society of Comparative and Integrative Biology, Austin, TX (poster)

2021 **E. Crone**[2], E. Sauer, D. Preston. Synergistic effects of invasive goldfish and Chinese mystery snails on a native pond community. Society of Freshwater Science Annual Meeting, Virtual meeting (talk)

2020 **E. Crone**[2], E. Sauer, B. Herrick, D. Preston. Experimental effects of an invasive earthworm on American toad (Anaxyrus americanus) habitat and prey consumption in Wisconsin. The Wildlife Society, Regional Meeting, Wisconsin Rapids, WI (talk)

2019 **C. Lewis**[1], E. Sauer, D. Preston. Assessment of Invasive Chinese Mystery Snails in Dane County. WISCIENCE Symposium, University of Wisconsin – Madison (poster)

2018 J. Cohen, E. Sauer, **O. Santiago**[1], **S. Spencer**[1], J. Rohr. Divergent impacts of warming weather on wildlife disease risk across climates. Southeastern Ecology and Evolution Conference, Miami, FL (poster)

TEACHING EXPERIENCE & TRAINING

Positions

2020 **Co-instructor**. Freshwater Conservation (FWE 375/875), University of Wisconsin-Madison

2017 **Teaching Assistant**. Human Anatomy and Physiology II Lab (BSC 2094C), University of South Florida

Guest Lecturers

2025 Disease Ecology, Advanced Ecology (graduate course), Rutgers University – New Brunswick

2025 Disease Ecology, Topics in Ecology, Evolution, & Natural Resources, Rutgers University – New Brunswick

2022 Direct human-causes of bird mortality, Ornithology, University of Arkansas
2020 Behavioral drivers of disease, Disease Ecology, University of Tampa
2016 Leaning and cognition, Animal Behavior, University of South Florida
2016 Amphibian declines, Introductory Biology II, University of Tampa
2014 Amphibian declines, Introductory Biology II, University of Tampa

MENTORING

***Graduate Students*:** As a postdoctoral researcher, I closely mentored two MS students at UW – Madison and two MS students at UArk - training them in various field and lab techniques and advising them on experimental and field survey design as well as data management, analysis, and manuscript writing. For six months during the 2022-23 academic year, I temporarily took on all PI duties for Dr. Sarah DuRant while she was on parental leave. Part of this responsibility involved directly supervising her two PhD students and MS student, along with my two Honors Thesis students, organizing and preparing six student presentations for the 2023 SICB conference.

Undergraduate Mentees

[1]Publication co-author; [2]Student presented at conference, [3]student submitted grant for independent research funding

2025-present Jackie Dreger (Rutgers University)
2024 Kamiah Hendrix-Turner (University of Arkansas – Pine Bluff) NSF REU Scholar
2023-present [2]Vansh Singhal (University of Arkansas) Honors Thesis Mentee & NSF REU Scholar
2023-2025 [2]Salvador Barraza-Del Barco (University of Arkansas) Honors Thesis Mentee & NSF REU Scholar
2022-2023 **[2]**Destiny Guillory (University of Arkansas – Pine Bluff) NSF REU Scholar
2022-2023 **[2]**Christopher Carter (University of Arkansas – Pine Bluff) NSF REU Scholar
2021-2023 **[1,3]**Sakura Roberts (University of Arkansas) Honors Thesis Mentee
2021-2023 **[1,2,3]**Chloe Connelly (University of Arkansas) Honors Thesis Mentee
2021 [1]Johnathan Novotny (University of Arkansas)
2019-2020 **[1,2,3]**Catherine Lewis (University of Wisconsin – Madison) WISCIENCE Scholar
2019-2020 **[1]**Gabriella Shay (University of Wisconsin – Madison)
2019-2020 **[1]**Ethan Plumier (University of Wisconsin – Madison)
2019-2020 **[1]**Blake Cwynar (University of Wisconsin – Madison)
2018 **[1,2]**Olivia Santiago (University of South Florida) Co-advised NSF REU Scholar
2018 **[1,2]**Samuel Spencer (University of South Florida) Co-advised NSF REU Scholar
2018 [1]Brin Sayhorn (University of South Florida)
2015-2016 Samantha Glazer (University of South Florida)
2014-2016 Anil Bhairo (University of South Florida)
2014-2016 Gabriella Goldring (University of South Florida)
2014-2016 Amber Styf Dvorak (University of South Florida)
2014-2016 **[1]**Kristi Medina (University of South Florida) Honors Thesis Mentee
2014-2015 **[1]**Nadia Trejo (University of South Florida)

High School Student Mentee

2016-2019 Diana Medina (Chamberlain High School, Tampa, FL). I mentored Diana as part of the Hillsborough Education Foundations' Take Stock in Children scholarship program.

SCIENTIFIC & SOCIETY SERVICE

I. REVIEWING ACTIVITIES (# of manuscripts)

I have reviewed 39 manuscripts for: Ecology (4), Ecology Letters (3), Scientific Reports (3), Oikos (3), Biological Conservation (3), Nature Communications (2), Proceedings of the Royal Society B (2), Journal of Animal Ecology (2), Freshwater Biology (2), Journal of Wildlife Diseases (2), Ichthyology and Herpetology (2), Trends in Ecology

and Evolution (1), Functional Ecology (1), Environmental Science & Technology (1), Journal of Thermal Biology (1), EcoHealth (1), Ecosphere (1), Conservation Physiology (1), Animal Conservation (1), Ecological Processes (1), Diversity (1), Microbes and Infection (1).

II. PROFESSIONAL MEMBERSHIP

Ecological Society of America, Society for Integrative and Comparative Biology, Sigma Xi

III. UNIVERSITY SERVICE

2021-2025	Founder & Coordinator – Bird Safe UArk Citizen Science Initiative.
2021-2022	Co-Coordinator – Having it all: A STEM work-life workshop.
2017-2018	Title IX Committee Member - University of South Florida
2017-2018	Graduate Council Member - University of South Florida.
2017-2018	President – USF Graduate Assistants United, United Faculty of Florida.
2017	Panelist – Attacks on science: where do we go from here? Other panelists: included USF's Senior VP for Research and Assoc. Dean for Research. Media coverage: Tampa Bay Times and 88.5 WMNF
2016-2017	Treasurer – USF Graduate Assistants United, United Faculty of Florida.
2015-2018	United Faculty of Florida Senator & Diversity and Leadership Committee member
2014-2016	Vice President, Biology Graduate Student Organization, University of South Florida
2013-2014	Social Event Chair, Biology Graduate Student Organization, University of South Florida
2011-2013	Co-founder – Biology Club, University of South Florida

IV. SCIENCE COMMUNICATION & COMMUNITY SERVICE

2025	Interviews for NPR station KUAF and Deutschlandfunk (German Public Broadcasting Corp.) about the impact of human food sources on wildlife health.
2023	Interviews for The Atlantic, the Hoosier Herpetological Society, and live on air with Wisconsin Public Radio (WNPR) about using your backyard for urban amphibian conservation.
2019-2021	Founder & coordinator - Feminist Bird Club – Madison, WI Chapter.
2018	Laboratory tour guide, University of South Florida STEM Academy
2017	Field Guide, BioBlitz event at Leaning Gate Community School
2016	Section Captain/Judge - Animal Science, Hillsborough Regional STEM Fair
2016	Field guide for GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs)
2015	Section Captain/Judge – Environmental Science, Hillsborough Regional STEM Fair
2014-2018	Volunteer, Sweetwater Organic Community Farm.
2014	Science educator, Jane Goodall's Roots and Shoots Program, Tampa, FL