

Lauren Soliz

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Education

M.S. WILDLIFE, AQUATIC, AND WILDLAND SCIENCE AND MANAGEMENT | 2023 | Texas Tech University

Thesis title: "Assessing the effects of biological invasions and reduced flows on a spring-fed stream food web in San Felipe Creek (Del Rio, Texas, USA)." (accessible online at: <https://hdl.handle.net/2346/97299>)

Thesis committee chair: Scott Collins

B.S. NATURAL RESOURCE MANAGEMENT (Fisheries Biology Concentration) | 2021 | Texas Tech University

Professional Experience

RESEARCH ASSOCIATE – FIELD CREW LEAD

JAN 2024 – PRESENT

Environmental Institute of Houston, University of Houston Clear Lake Houston, TX

- Field crew leader for a team of 4-6 researchers as part of the National Rivers and Streams Assessment
- Responsible for communication, coordination, and information dissemination to private landowners, stakeholders, and state and federal agency representatives
- Assisting with routine water quality sample collection and data QA/QC for the Clean Rivers Program

RESEARCH ASSISTANT

AUG 2021 – DEC 2023

Department of Natural Resource Management, Texas Tech University, Lubbock, Texas

- Managed multiple field trips with students, interns, and volunteers to conduct field research
- Experience writing research grants and reports at the state and national level
- Experience in multiple data analysis programs

RESEARCH INTERN – BSL2 LABORATORY

AUG 2019 – AUG 2021

The Institute of Environmental and Human Health, Texas Tech University, Lubbock, Texas

- Investigated microplastic contamination in fish stomach and skin tissue and macroinvertebrates
- Experience with backpack electroshocking and fish ID/collection
- Experience with scientific communication and presentations

Presentations

Soliz, L. E., Collins, S. F., and Robertson, S. M. 2023. Effects of invasive Giant Reed on the stream food web of San Felipe Creek, Texas. American Fisheries Society 153rd Annual Meeting. Grand Rapids, Michigan. Oral Presentation.

Soliz, L. E., Collins, S. F. and Robertson, S. M. 2023. Effects of invasive Giant Reed on the stream food web of San Felipe Creek, Texas. Texas Tech University Department of Natural Resource Management Research Day. Texas Tech University. Poster Presentation.

Soliz, L. E., Collins, S. F., and Robertson, S. M. 2023. Effects of invasive Giant Reed on the stream food web of San Felipe Creek, Texas. Texas Academy of Science 126th Annual Meeting. San Angelo, Texas. Oral Presentation.

Soliz, L. E., Collins, S. F., and Robertson, S. M. 2023. Effects of invasive Giant Reed on the stream food web of San Felipe Creek, Texas. 2023 Annual Meeting of the Texas Chapter of the American Fisheries Society. Corpus Christi. Oral Presentation.

Becerril-Garcia, E. E., Wittmaack, C. Bernot-Simon, D., **Soliz, L.**, et al. 2021. Exploring a new alternative for the study of reproduction in threatened chondrichthyans: A minimal invasive approach. European Elasmobranch Association Annual Science Conference. Leiden, The Netherlands. Oral Presentation.

Publications

Soliz, L. E., Collins, S. F., and Robertson, S. M. In prep. The effects of a riparian invader (*Arundo donax*) on multiple trophic levels of the stream food web in San Felipe Creek. Intended for submission to Biological Invasions

Soliz, L. E., Collins, S. F., and Robertson, S. M. In prep. Assessing the loss of groundwater springs and threats to critical habitats of Devils River Minnow (*Dionda diaboli*) in San Felipe Creek, Texas (USA). Intended for submission to Environmental Biology of Fishes.

Awards and Scholarships

2023 **Texas Chapter of the American Fisheries Society Student Scholarship** | Texas Chapter of the American Fisheries Society

General Endowment Fund | Society of Freshwater Science

Harry Tennison Scholarship by the Sportsmen's Club of Fort Worth | Texas Chapter of the American Fisheries Society

2021 **Undergraduate Research Conference – 1st and 4th Place Winner** | The Center for Transformative Undergraduate Experiences (TrUE) | Texas Tech University

Presidential Scholarship | Texas Tech University

2020 **Undergraduate Scholar Project Funding** | The Center for Transformative Undergraduate Experiences (TrUE) | Texas Tech University

Presidential Scholarship | Texas Tech University

2019 **Presidential Scholarship** | Texas Tech University

2018 **Presidential Scholarship** | Texas Tech University

Certifications, Skills, and Additional Experiences

- SSI Open Water Diver Certification
- State Office of Risk Management Drivers Safety Certification
- State of Texas Boater's Safety Certification
- First Aid, CPR, and Bloodborne Pathogens Certification
- Experience in multiple data analysis programs (R, SPSS, PCord, JMP)
- Experience with creating and maintaining large databases (Excel)
- Experience with multiple wildlife and fisheries management techniques (mist netting, acoustic bat detecting, Sherman live-trapping, Daubenmire frames, aquatic serber samplers, animal telemetry, point transects, belt transects, turtle trapping, GPS and compass)
- Experience with fishery gears (backpack and boat electroshocking, seining, gill nets, and hoop nets)
- Experience working with federally threatened species and permitting
- Experience with scientific communication through multiple platforms (posters and presentations; online and in-person)