Jane S. Rogosch
U.S. Geological Survey, Texas Cooperative Fish & Wildlife Research Unit
Agricultural Sciences Building, Texas Tech University
1312 Boston Ave
E-mail: jrogosch@ttu.edu, jrogosch@usgs.gov

Education

Ph.D. Aquatic and Fishery Sciences, University of Washington, 2019
M.S. Biology, Kansas State University, 2015
B.S Biology, minor in Statistics, *Magna Cum Laude*, University of New Mexico, 2009

Employment

2020 – present U.S. Geological Survey, Texas Cooperative Fish and Wildlife Research Unit, Department of Natural Resources Management, Texas Tech University
Assistant Unit Leader – Research Fish Biologist, Assistant Professor

2020 Missouri Cooperative Fish and Wildlife Research Unit, University of Missouri
Post-doctoral fellow

2015 – 2019 School of Aquatic and Fishery Sciences, University of Washington
Graduate Research Assistant, Graduate Teaching Assistant

2012 – 2015 Division of Biology, Kansas State University
Graduate Research Assistant, Graduate Teaching Assistant

2010 – 2011 Marsh & Associates, LLC. Tempe, AZ
Fisheries/Aquatic Biologist

2008 – 2010 University of New Mexico
REU Program Student (summer 2008) and Undergraduate Research Assistant

2006 – 2009 University of New Mexico, Main Campus & Valencia Campus
Tutor

Licenses and Certifications

CPR and First Aid, 2024
Motorboat Operator Certification Course (MOCC), 2022
Master Tutor, College Reading and Learning Association (CRLA certification), 2007

Membership in Professional and Honorary Societies

Professional Societies
American Fisheries Society, 2012 – present
Ecological Society of America, 2012 – present
Desert Fishes Council, 2010 – present
Society for Freshwater Science, 2009 – present

Publications

ǂ Indicates graduate student who I mentored

Note: Fencl is my former name

Book chapters

Fencl J.S. Slender Madtom and Rock Bass *in* Kansas Fishes. 2014. Eberle, M.E. and D. Edds (editors). University Press of Kansas. pp 287-288 and pp 358-359

Refereed journals

ǂ indicates graduate student author

Winikoff, S.G., C.P. Paukert, N.A. Sievert, and J.S. Rogosch. *Accepted*. A Conservation and Connectivity Prioritization Tool for Expanding Existing Conservation Networks. Fisheries.

ǂ Creamer, D.A, Rogosch, J.S., Patino, R.P. and McGaritty, M.M. 2025. Identifying lakes critical to the westward spread and establishment of zebra mussels. Biological Conservation. https://doi.org/10.1016/j.biocon.2024.110931

Daniel, W.M., H.R. Sofaer, C.S. Jarnevich, R.A. Erickson, B.A. DeGregorio, P.S. Engelstad, J. Freedman, S. Canavan, E.M. Dean, M.J. Adams, C.L. Anderson, M. Barnett, M.K. Brey, K.J. Brumm, M.S. Bunting, E. Caffrey, L. Cardador, J. Carter, P. Cassey, D.C. Chapman, N. Claunch, T.D. Counihan, K.P. Davis, A. Deshwal, A.K. Douglas, C.G. Dunn, C. Ehlo, K. Everett, J. M. Gleditsch, A. Grosse, Z. Hendrickson, S. Hess, J. Hill, N. Holmes, A.V. Longo, J.L. Lockwood, D. Mason, A. McDonald, M. Neilson, K. Reaver, R. Reed, C. Roberts, J.S. Rogosch, C. Romagosa, J.C. Russell, A. Simpson, S.A. Smith, J. Sperry, Q.M. Tuckett, K. VerCauteren, H. Waddle, C. Wanamaker, J.D. Willson, E. Williams and D. Lieurance. 2025. Vertebrates in trade that pose high invasion risk to the United States. Biological Conservation. https://doi.org/10.1016/j.biocon.2024.110887 Walters, A.W., N.G. Clancy, T.P. Archdeacon, S. Yu, **J.S. Rogosch**, and Elizabeth A. Rieger. 2024. Identifying and managing drought refuges to promote fish persistence under climate change. Fish and Fisheries. https://doi.org/10.1111/faf.12860

Price, A.N., M.A. Zimmer, A.J. Bergstrom, A.J. Burgin, E.C. Seybold, C.A. Krabbenhoft, S. Zipper, M.H. Busch, W.K. Dodds, T. Datry, A.W. Walters, **J.S. Rogosch**, R. Stubbington, R.H. Walker, J.C. Stegen, K.E. Kaiser, M.L. Messager, J.D. Olden, S. Godsey, D.A. Lytle, G.H. Allen, M.C. Mims, J.D. Tonkin, M. Bogan, R.M. Burrows, J. Hammond, K.S. Boersma, A.G. DelVecchia, D.C. Allen, S. Yu, A. Ward. 2024. Biogeochemical and community ecology responses to the wetting of non-perennial streams. Nature Water. https://doi.org/10.1038/s44221-024-00298-3

Roberts, C.P., W.E. Grant, M.L. Horton, L.A.P. LaBrie, M.R. Peterson, J.S. Rogosch, H. Wang. 2024. Balancing ecology and practicality to rank waterbodies for preventative invasive species management. Ecological Solutions and Evidence. https://doi.org/10.1002/2688-8319.12362

Rogosch, J.S., H.I.A. Boehm, R.W. Tingley, K.D. Wright, E.B. Webb, C.P. Paukert. 2024. Evaluating effectiveness of restoration to address current stressors to riverine fish. Freshwater Biology, 69, 607-622. https://doi.org/10.1111/fwb.14232

Messager, M.L., Olden J.D, Tonkin J.D., Stubbington R., **Rogosch J.S.**, Busch, M.H., Little C.J., Walters A.W., Atkinson C.L., Shanafield M., Yu S., Boersma K., Lytle D.A., Walker R.H., Burrows R.M., and Datry T. 2023. A metasystem approach to designing environmental flows. BioScience biad067, https://doi.org/10.1093/biosci/biad067

Patiño, R., Christensen, V.G., Graham, J.L., **Rogosch, J.S**, and Rosen, B.H. 2023. Toxic algae in inland waters of the conterminous United States—A review and synthesis. Water, 15(15), 2808. https://doi.org/10.3390/w15152808

Rolls, R.J., **Rogosch J.S.** and Kuehne L.M. 2022. How shall we meet? Embracing the opportunities of virtual conferencing. Fisheries, 47: 304-306. https://doi.org/10.1002/fsh.10765

Messager M.L., Comte L., Couto T.B.A., Koontz E.D., Kuehne L.M., **Rogosch, J.S**., Stiling R.R. and Olden, J.D. 2022. Course-based ecological data collection can advance education, environmental science, and management. Frontiers in Ecology and the Environment. https://doi.org/10.1002/fee.2507

Rogosch J.S. and J.D. Olden. 2021. Comparing opportunistic and strategic removal efforts to manage invasive fish species using a dynamic multi-state occupancy model. Journal of Applied Ecology. https://doi.org/10.1111/1365-2664.14012

Mather M.E., Smith J.M., Boles K.M., Taylor R.B., Kennedy C.G., Hitchman S.M., **Rogosch J.S.** and Frank H.J. 2021. Merging scientific silos: Integrating specialized approaches for thinking about and using spatial data that can provide new directions for persistent Fisheries problems. Fisheries. https://doi.org/10.1002/fsh.10645

Tonkin J.D., Olden J.D., Merritt D.M., and Reynolds L.V., **Rogosch J.S.**, and Lytle D.A. 2021. Designing flow regimes to support entire river ecosystems. Frontiers in Ecology and the Environment. https://doi.org/10.1002/fee.2348

Rogosch J.S. and J.D. Olden. 2020. Fish invaders induce trophic niche shifts in native species. Canadian Journal of Fisheries and Aquatic Sciences. https://doi.org/10.1139/cjfas-2019-0346

Rogosch J.S. and J.D. Olden. 2019. Dynamic contributions of intermittent and perennial streams to fish beta diversity in dryland rivers. Journal of Biogeography 46:2311-2322. https://doi.org/10.1111/jbi.13673

Rogosch J.S., Olden J.D., Tonkin J.D., Lytle D.A., Merritt D.M., and Reynolds L.V. 2019. Increasing droughts favor nonnative fishes in a dryland river: evidence from a multispecies demographic model. Ecosphere 10:e02681. https://doi.org/10.1002/ecs2.2681

Hitchman S.M., Mather M.E., Smith J.M., and **Fencl J.S.** 2018. Habitat mosaics and path analysis can improve biological conservation of aquatic biodiversity in ecosystems with low-head dams. Science of the Total Environment 619-620:221-231

Fencl J.S., Mather M.E., Smith, J.M., and Hitchman S.M. 2017. The blind men meet the elephant at the dam: alternative perspectives obscure low-head dam – biodiversity relationships. Ecosphere 8:e01973. https://doi.org/10.1002/ecs2.1973

Hitchman S.M., Mather M.E., Smith J.M., and **Fencl J.S**. 2017. Identifying keystone habitats with a mosaic approach can improve biodiversity conservation in disturbed ecosystems. Global Change Biology 24:308-321. https://doi.org/10.1111/gcb.13846

Fencl J.S., Mather M.E., Costigan K.B., and Daniels M.D. 2015. How big of an effect do small dams have?; Using geomorphological footprints to quantify spatial impact of low-head dams and identify patterns of across-dam variation. PLoS ONE 10:e0141210. doi: 10.1371/journal.pone.0141210

Burdett A.S., **Fencl J.S.,** and Turner T.F. 2015. Comparison of aquatic invertebrate sampling methods in a shallow aridland river (Rio Grande, New Mexico). Aquatic Biology 23:139–146. https://doi.org/10.3354/ab00616

Trentman M.T., Dodds W.K., **Fencl J.S**., Gerber K.M., Guarneri J., Hitchman S.M., Peterson Z., and Ruegg J. 2015. Quantifying ambient nutrient uptake and functional relationships in streams: a comparison of stable isotope, pulse, and plateau approaches. Biogeochemistry 125:65-79. https://doi.org/10.1007/s10533-015-0112-5

Refereed journals In Review

ǂ Wilson, W.M., **J.S. Rogosch**, S.F. Collins, B.W. Durham, K.B. Mayes, and S.M. Robertson. *In Review*. Application of fin tissue for nonlethal stable isotope analysis of small-bodied fishes. Environmental Biology of Fishes

ǂ Cooper, C.R., **J.S. Rogosch**, N.G. Smith, C.R. Robertson, and W.M. Wilson. *In Review.* Comparative assessment of STIC sensors, streamflow and rain gauges for quantifying river connectivity in intermittent systems. Water Biology and Security.

Krabbenhoft, C.A., **J.S. Rogosch**, and F.E. Rowland. *In Review*. Long-term regime shifts in xeric ecoregion climate and freshwater fish assemblages. Global Ecology and Biogeography.

Presentations and Lectures

Invited presentations

"Habitat Suitability and Distribution Modeling as Components of Integrated Risk Assessments," Gulf and South Atlantic Regional Panel on Aquatic Invasive Species. Texas Parks and Wildlife Department-Ed Werland Training Room, 19 Nov 2024

"Fish, flows, and the future: How to assess fish assemblages in dryland streams?," Turner Aquatic Conservation Lab Reunion and 'Silvery' Anniversary Symposium. University of New Mexico and Museum of Southwestern Biology, 21 Jul 2023

"River restoration effectiveness: a review and meta-analysis," National Fish Habitat Partnership, 9 Nov 2022

"Drought, flow conservation, and assessing long-term demography of prairie fishes," Quantitative Seminar, School of Aquatic and Fishery Sciences, University of Washington, 13 May 2022

"Conservation of arid and semi-arid stream fishes in a changing landscape," Biological Sciences Seminar Series, University of Arkansas, 21 April 2022

"Assessing restoration effectiveness: a review of river restoration," Ecology and Evolutionary Biology Seminar, Kansas State University, 18 Feb 2021

Contributed presentations (select talks since 2021)

* indicates undergraduate student presentation
ǂ indicates graduate student presentation

Oral

Harried, B.L., W. Fitzsimmons, K.J. Fogelman, C.P. Paukert**, J.S. Rogosch**, J.A. Stoeckel and J. T. Westhoff. Linking stream fish thermal ecology and adaptive capacity to prioritize watershed areas with greatest value for conservation. 85th Annual Meeting, Midwest Fish and Wildlife Conference, Saint Louis, MO, 19-22 January 2025.

Fork, M., A. Sponberg, **J. Rogosch**, B. Laursen, and L. Kuehne. 2024. The impact of virtual conferences on participation by diverse organizations and individuals. The Society for Freshwater Science Annual Meeting. Philadelphia, PA. Jun 2-6, 2024.

ǂWilson, W. M., **J.S. Rogosch**, S.F. Collins, B.W. Durham. 2024. Spatial and interspecific variation in feeding habits of four native prairie stream fishes. Society for Freshwater Science Annual Meeting. Philadelphia, PA. Jun 2-6, 2024.

Walters, A.W., N.G. Clancy, T.P. Archdeacon, S. Yu, **J.S. Rogosch**, and E.A. Rieger. 2024. Refuge identification as a climate adaptation strategy to promote fish persistence during drought. Wyoming Chapter of The Wildlife Society / Wyoming Landscape Conservation Initiative 2024 conference, Cody, WY, USA.

ǂHanson, C.R., J.S. Rogosch, N. Smith, and C. Roberston. 2024. Investigating the effectiveness of Stream Temperature, Intermittency, and Conductivity loggers to quantify river connectivity. Texas Chapter of the American Fisheries Society. Nacogdoches, TX. Feb 22-24, 2024.

Le Bouille, D., **J. Rogosch**, M. Bean, T. Birdsong, J. Broska, D. Bunting, A. Cohen, D. Hendrickson, and N. Smith. 2024. Decision making and prioritization for the conservation of Texas fish SGCN. Texas Chapter of the American Fisheries Society. Nacogdoches, TX. Feb 22-24, 2024.

*Saenz, G.P., W.M. Wilson, and **J.S. Rogosch**. 2024. A Gut Content Composition Analysis of Four Native Fishes of the Red River. Texas Chapter of the Wildlife Society Meeting, Houston TX Feb 19-22, 2024.

ǂCreamer, D., **J.S. Rogosch**, R. Patiño. 2023. Zebra mussel invasion risk: Estimating the likelihood of spread and establishment of an aquatic invasive species. Ecological Society of America Annual Meeting, Portland, OR. August 6-11, 2023.

Le Bouille, D., **J. Rogosch**, M. Bean, T. Birdsong, J. Broska, D. Bunting, A. Cohen, D. Hendrickson, N. Smith. 2023. Species distribution modeling of Texas SGCN fishes to guide landscape-level conservation. Ecological Society of America Annual Meeting. Portland, OR. August 6-11, 2023.

Messager, M.L., J. D. Olden, J. Tonkin, R.Stubbington, **J.S. Rogosch**, M.H. Busch, C. J. Little, A.W. Walters, C.L. Atkinson, M. Shanafield, S. Yu, K. Boersma, D. Lytle, R.H. Walker, R.M. Burrows, T.Datry. 2023. A metasystem approach to designing environmental flows. Symposium for European Freshwater Science.

Krabbenhoft, C.A., **J.S. Rogosch**, F.E. Rowland, and M. Lauck. 2023. Increasing intercontinental hydrologic and climatic variability are altering freshwater fish assemblages. Society for Freshwater Science annual meeting. Brisbane, Australia. Jun 3-7, 2023.

ǂHanson, C.R., **J.S. Rogosch**, N. Smith, and C. Roberston. 2023. Evaluating the effects of intermittent flow on the resilience and vulnerability of fish assemblage structure. Western Division of the American Fisheries Society. Boise, ID. May 8-11, 2023.

ǂWilson, W.M., **J.S. Rogosch**, S.F. Collins, B.W. Durham. 2023. Assessing the feeding habits of an imperiled prairie river fish assemblage. Texas Chapter of the American Fisheries Society. Corpus Christi, TX. February 23-25, 2023

*Wright, K., H. Boehm, A. Lynch, C. Paukert, **J. Rogosch**, R. Tingley III, E. Webb. Fishing for complements: A review of restoration effectiveness and opportunities for climate change adaptation for inland fish. Midwest Fish and Wildlife Conference. Overland Park, KS. 14 February 2023

Harried, B., W. Fitzsimmons, Fogelman, K., Paukert, C., **Rogosch, J.**, Stoeckel, J., and Westhoff, J. 2023. Addressing the need for lab experiments to fill the temperature gap in trait-based approaches in fishes. Southern Division American Fisheries Society, Norfolk, VA. February 7-9, 2023.

ǂBoehm, H., and **J. Rogosch**. 2022. Best Practices for Improving DEIJA in the Fisheries Employment Hiring Process. Oral Presentation. American Fisheries Society Annual Meeting, Spokane, WA. August 21 - 25, 2022

Rogosch, J.S., T. Birdsong, J. Broska, D. Buckmeier, D.P. Bunting, A. Cohen, G. Garrett, D. Hendrickson, K. Mayes, N. Smith. 2022. "Species distribution modeling and Native Fish Conservation Area prioritization to guide landscape-level conservation." Texas Chapter of the American Fisheries Society. May 17-19, 2022.

Rogosch, J.S., T.P. Archdeacon, and S. Davenport. "Fish population dynamics and conservation strategies in a communally important aridland river." Joint Aquatic Sciences Meeting. May 14-22, 2022

Rogosch, J.S., T.P. Archdeacon, and S. Davenport. 2021. "Population trends and trade-offs in long-term dynamics of a prairie stream fish community." American Fisheries Society, Annual Meeting. November 6-10, 2021

Mayes, K., J. Hatt, A. Rodger, T. Starks, and **J. Rogosch**. 2021. "Perspectives of southern Great Plains state agencies on prairie stream conservation." American Fisheries Society, Annual Meeting. November 6-10, 2021

Rogosch, J.S., H.I.A. Boehm, R.W. Tingley, III, E.B. Webb, K.D. Wright, and C.P. Paukert. "Assessing restoration effectiveness: a review of river restoration" Texas Chapter of the American Fisheries Society. Virtual Annual Meeting. Feb 2-4, 2021

Posters

*Rollefson, K.G. and **J.S. Rogosch**. 2025. Evaluation of invasive risk models using eDNA. Texas Chapter of the American Fisheries Society. Corpus Christi, TX. January 16-18, 2025.

Rogosch, J.S. 2023. Fish, flows, and the future: How to assess fish assemblages in dryland streams. SC CASC Annual Fall Science Meeting, 1-3 Nov 2023, Lubbock, TX

Teaching

Advanced Quantitative Analysis in Natural Resources Management (NRM 6003-004), Texas Tech University, Fall 2024

Guest Lecturer

Freshwater Bioassessment, Texas Tech University, Apr 2022
Professional Skills and Ethics, Kansas State University, Mar 2022
Stream Ecology, Texas Tech University, Oct 2021

Graduate Student Committees

Completed:

Post-doctoral associates

Dr. Diane LeBouille, Texas Tech University Apr 2022 – Apr 2024

Chaired

Cienna Hanson, M.S., "Evaluating Resilience and Vulnerability of Fish Assemblage Structure to Intermittent Flow", Texas Tech University, May 2022 – Dec 2024

Wade Wilson, M.S., "Characterizing Food Web Structure of a Southern Prairie River with Conservation Implications for Four Native Stream Fishes", Texas Tech University, May 2022 – Dec 2024

David Creamer, M.S., "Zebra mussel invasion risk: Identifying lakes critical to the spread and establishment of zebra mussels and modeling the western spread of the species", Texas Tech University, Aug 2021 – Jun 2023

Committee member

Kalin Bayes, M.S., "Assessing habitat quality through amphibian development and habitat selection", Texas Tech University, Oct 2022 – Jun 2024

Lauren Soliz, M.S., "Assessing the effects of biological invasions and reduced flows on a spring-fed stream food web in San Felipe Creek (Del Rio, Texas, USA)", Jan 2022 – Dec 2023

Ariana Rivera, M.S., "Changes in avian and plant community structure in response to habitat restoration of pinyon-juniper woodlands", Texas Tech University, Sep 2022- Jul 2023

Jillian Hochstrasser, M.S., "Effects of bigheaded carp on zooplankton size and community structure", Texas Tech University, Sep 2021 – Mar 2023

Samantha Lehker, M.S., "Associations of the Carbonate System and Nutrient Levels on Growth of *Prymnesium parvum*" Texas Tech University, Oct 2021 – Dec 2023

Bailey Robertory, M.S., "Effects of invasive piscivorous Brown trout (Salmo trutta) on native fish populations of the Jemez River basin, New Mexico", Texas Tech University, Mar 2021 – Dec 2022

Olivia Rhode, M.S., "An adaptive management framework for extracting additional insights from fish monitoring data to aid conservation," Kansas State University, May 2021 – Dec 2023

In progress:

Chaired

Eden Brody, M.S., "Threshold responses of riverine communities to land use and climate change", Texas Tech University, Jan 2025 –

Committee member

Hayden Hays, Ph.D., "Where did all the water go? The influence of habitat ephemerality on freshwater macroinvertebrate community assembly", Texas Tech University, 2021 – present

Sadie Roth, Ph.D., "Investigating threats to Sonoran Desert amphibians using occupancy modeling and landscape genetic inquiry", Texas Tech University, May 2024 - present

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Undergraduate Research Advising

Kate Rollefson, Evaluation of invasive risk models using eDNA, TTU,
May 2024 – present

Gavin Saenz, Evaluating diets of native fishes in the Red River with implications for conservation, TTU,
May 2023 – present

Davis College Research Scholars Program award recipient January 2024

Mia Fraser, A comparison of fish sampling methods used during droughts to measure biodiversity, TTU,
Aug 2022 – Dec 2022

NRM 4001: Undergraduate Research

Grants and Awards

Funded

2024 North Central Climate Adaptation Science Center ($597,700 Total; $134,489 to TTU)
Project: Spurgeon, J., Walters, A.W, **Rogosch, J.S. (Co-PI – 25%)**, and L.A. Bruckerhoff et al. Influence of environmental thresholds on trajectories of freshwater assemblages with implications for building climate resilience across prairie landscapes.

2023 NSF BIOLEAPS Evaluation Grant ($390,382 Total; $0 to TTU)
Project: Fork, M.L., Sponberg, A., Kuehne, L.M., and **J.S. Rogosch (Co-PI – 22%)**. Improving institutional diversity in professional society participation through virtual and hybrid conferencing (Note: g*rant was not awarded at TTU, I have a full salary and therefore made a project commitment without requesting funds for myself)*

2023 Texas Parks and Wildlife Department, State Wildlife Grant ($108,143 to TTU)
Project: Collins, S.C., **J.S. Rogosch (Co-PI –50%)**, and B. Durham. Food habits of SGCN fishes to inform habitat assessment and restoration in the Red River basin

2022 Texas Parks and Wildlife Department, State Wildlife Grant ($99,999 to TTU)
Project: Collins, S.C., **J.S. Rogosch (Co-PI – 50%)**. Assessment of Gila pandora in Little Aguja Creek (Davis Mountains), Texas

2022 Arkansas Game & Fish Commission ($90,000 Total; $0 to TTU)
Project: Roberts, C. and **J.S. Rogosch (Co-PI – 40%)**. Risk assessment for Giant Salvinia in Arkansas waters (Note: g*rant was not awarded at TTU, I have a full salary and therefore made a project commitment without requesting funds for myself)*

2022 Texas Parks and Wildlife Department, State Wildlife Grant ($117,863 to TTU)
Project: **Rogosch, J.S. (PI – 100%)** Evaluating resilience and vulnerability of fish assemblage structure to intermittent flow

2021 U.S. Fish and Wildlife Service, Interagency Agreement ($95,591 to TTU)
Project: **Rogosch, J.S. (PI- 100%)** Species distribution modeling and Native Fish Conservation Area prioritization to guide landscape-level conservation.

2021 U.S. Geological Survey, Biological Threats Program ($120,234 to TTU)
Project: **Rogosch, J.S. (PI- 100%)** and R. Patiño. Assessing risk for westward expansion of zebra mussels to guide EDRR strategies.

Pending

Texas Parks and Wildlife Department, State Wildlife Grants (FY25) (request: $124,723)
Proposal: Rogosch, J.S. (PI – 95%) and S.F. Collins, "Evaluating resistance and resilience of fish assemblages to intermittent flow"

Rejected (full proposals as PI only, does not include SOIs)

South Central Climate Adaptation Science Center (FY25) (request: $325,545)
SOI: Rogosch, J.S. (PI – 50%) and S.F. Collins, "Assessing the resilience of stream fishes in climate impacted rivers of the middle Rio Grande"

Texas Comptroller of Public Accounts, CFP for Red River Fishes Research (FY24) (request: $306,488)
Proposal: Rogosch, J.S. (**PI – 40%**), M.A. Barnes, S.F. Collins, B. Durham, "Assessing environmental determinants of species occurrence, distribution, and invasibility in the Red River fish assemblage"

Texas Parks and Wildlife Department, Aquatic Invasive Species Research Grants (FY24) (request: $133,191)
Proposal: **Rogosch, J.S. (PI – 60%)** and C. Roberts, "Identifying invasion risk of Texas lakes to Giant Salvinia"

South Central Climate Adaptation Science Center (FY24) (request: $363,897)
Proposal: **Rogosch, J.S. (PI – 50%)** and S.F. Collins, "Assessing the resilience of stream fishes in climate impacted headwaters of the Rio Grande"

Service to Professional Organizations

Officer Positions

Secretary, Equal Opportunities Section, American Fisheries Society, Oct 2021 – Oct 2023

Editorships

Associate Editor, Management of Biological Invasions, Feb 2024 - present

Subject Matter Editor - Freshwater Ecology Track, Ecosphere, Sep 2021 - present
Guest Associate Editor – Special Section, North American Journal of Fisheries Management, Dec 2021 – Feb 2023

Peer Review

Austral Ecology • Biological Invasions • Diversity and Distributions • Ecology • Ecology of Freshwater Fish • Ecosphere • Freshwater Biology • Hydrobiologia • Journal of Applied Ecology • Landscape Ecology • North American Journal of Fisheries Management • River Research and Applications • Southwest Naturalist • WIREs Water

Other Professional Service

Professional Activities

Committee chair, Diversity Equity and Inclusion Committee, Cooperative Research Unit Program, U.S. Geological Survey, Oct 2024 - present

Committee member, Diversity Equity and Inclusion Committee, Cooperative Research Unit Program, U.S. Geological Survey, Oct 2023 – Sep 2024

Committee member, Freshwater Fisheries Advisory Committee. Serve to advise both TPWD staff and the Commission on a wide range of issues for which a Commission action is under consideration or being contemplated, Oct 2022 – present

Member, Guiding Team, Non-Native Aquatic Species Community of Practice, Science Applications, U.S. Fish and Wildlife Service, 2021 – 2022

Co-organizer, Symposium, Resilient by design: Measuring effectiveness of freshwater restoration, American Fisheries Society, Honolulu, HI, 2024

Co-organizer, Symposium, Creating and implementing an ecosystem-wide integrated research agenda and conservation plan for prairie streams: A shared vision, next generation synthesis, and future action plan, American Fisheries Society, Baltimore, MD, 2022

Technical Assistance

Structured Decision Analysis for the Heart of the Hills Fisheries Science Center facilities with regard to future conservation and management priorities. Texas Parks and Wildlife Department, March – April 2025

Review of the GCDAMP triennial work plan to provide guidance on monitoring and research methods, priorities, and the management of natural, cultural, and recreational resources in Glen and Grand Canyon affected by dam operations and related actions. U.S. Bureau of Reclammation and U.S. Geological Survey, 11 Jun 2024

Review of the Draft Recovery Plan for the Arkansas River shiner (*Notropis girardi*) for U.S. Fish and Wildlife Service, 31 Oct 2023

Southwest Regional Horizon Scan, U.S. Fish and Wildlife Service. Screening for invasive species to identify species with the highest risk of establishment, spread, and impact from consultation of experts.

Yields actionable assessment for early detection and rapid response strategies to detect and respond to novel invasive species. Sep 2023 – Oct 2023

Sustainable Rivers Program, e-flows workshop participant. Work with USACE, TNC, and other stakeholders including irrigation districts to form e-flow prescriptions for the Pecos River in NM, 19-20 July 2022

Review of the Draft Recovery Plan and Draft Recovery Implementation Strategy for the Sharpnose (*Notropis oxyrhynchus*) and Smalleye (*N. buccula*) Shiner for U.S. Fish and Wildlife Service, 23 Dec 2021

Review and update the Rio Grande Silvery Minnow Conceptual Ecological Model, part of the Middle Rio Grande Endangered Species Collaborative Program (MRGESCP) Science and Adaptive Management Plan, Apr 2021 – Apr 2022

National Horizon Scan - Fish Team, U.S. Geological Survey. Screening for invasive species to identify species with the highest risk of establishment, spread, and impact from consultation of experts. Yields actionable assessment for early detection and rapid response strategies to detect and respond to novel invasive species. Feb 2021 – Nov 2021

Service to

Department

Member, San Antonio Livestock and Expo (SALE) Endowed Graduate Fellowship Committee, Department of Natural Resources Management, Texas Tech University, Jan 2025 -

Member, Undergraduate Scholarship Committee, Department of Natural Resources Management, Texas Tech University, Jan 2025 -

Member, Internship Committee: Create standard language, learning outcomes, and assessments for Undergraduate Internship and Research Courses and credit requirements, Sep 2022 – Feb 2023

Member, Committee for 2023 NRM Research Day: Plan and organize events for NRM Research day including calls for abstracts, judging rubrics, keynote speaker, etc. Nov 2022 – Apr 2023

Community Outreach

Texas Master Naturalist Program, South Plains Chapter

Guest speaker, Lubbock TX, 13 January 2024

Llano River Watershed Alliance

Information request, Review of low-head dam impacts, South Llano River, 28 November 2023