Edwards Aquifer Habitat Conservation Plan

# Report of the 2024 Science Committee Vacancy Work Group

September 19, 2024

# Overview

The Edwards Aquifer Habitat Conservation Plan (EAHCP) Program Adaptive Management Stakeholder Committee (SH) approved the creation of the Science Committee Vacancy Work Group at their meeting on March 24, 2022. An updated charge for the Work Group was subsequently approved by the SH at their meeting on July 25, 2024.

The Work Group was established to address a vacancy in the Adaptive Management Science Committee (SC). The SC comprises members with technical expertise in the Edwards Aquifer, the Comal or San Marcos springs systems, or the Covered Species, as outlined in the EAHCP Funding and Management Agreement (§ 7.9). The EAHCP Implementing Committee (IC) and SH each select an equal number of members for the SC, with one additional member selected jointly. The SC vacancy arose due to the resignation of Megan Bean, who was appointed by the Stakeholder Committee. Mrs. Bean, previously with the Texas Parks and Wildlife Department, accepted a position with the U.S. Fish and Wildlife Service, where she will be involved in the Service's ongoing oversight responsibilities for the EAHCP.

Beginning in August 2024, EAHCP staff solicited recommendations from members of the EAHCP Science, Stakeholder, and Implementing committees. A final call for nominations was made prior to the Work Group meeting on August 29, 2024.

## Charge of the Science Committee Vacancy Work Group

The Work Group was charged with reviewing nominations to fill the vacancy for Stakeholder-Committee-appointed positions on the Science Committee identified during the term of the Work Group and with presenting a recommendation to the Stakeholder Committee for filling the vacancy. See **Appendix A** – 2024 Science Committee Vacancy Work Group Charge.

## Members of the Science Committee Vacancy Work Group

Members of the Work Group met August 29, 2024, to discuss a nomination submitted for consideration to fill the SC vacancy. The Work Group met virtually on Microsoft Teams and operated by consensus. The meeting agenda (**Appendix B**), presentation (**Appendix C**), and meeting minutes (**Appendix D**) are included as referenced. Members of the 2024 Work Group are:

- Kevin Mayes – Texas Parks and Wildlife Department
- Rachel Sanborn – San Marcos River Foundation
- Dr. Kimberly Meitzen – Texas State University
- Patrick Shriver – San Antonio Water System
- Shaun Donovan – San Antonio River Authority

The nominations and a summary of the Work Group's discussion follows.

## Nominations to the Science Committee Vacancy Work Group

The Work Group received a single nomination – Dr. Joshuah Perkin, Ph.D., an Associate Professor in the Department of Ecology and Conservation at Texas A&M University. Dr. Perkin's research and teaching specialize in freshwater fish ecology and native species conservation. For more details on his qualifications, please refer to his curriculum vitae in **Appendix E.**

## Discussion of the Science Committee Vacancy Work Group

The Work Group was reminded of the Science Committee's responsibilities and the expertise of its current members, with a focus on finding a replacement for Megan Bean, a fish conservation expert with the Texas Parks and Wildlife Department. Dr. Joshuah Perkin, a native fish conservation expert and Associate Professor at Texas A&M University, was the sole nominee received for the vacant position. His educational background, expertise in fisheries biology, familiarity with the San Marcos River system, and willingness to serve were presented to the Work Group. Dr. Kimberly Meitzen praised Dr. Perkin as an excellent addition to the committee, highlighting his relevant expertise and research contributions. Kevin Mayes, who has closely collaborated with Dr. Perkin through contracted research and publications, fully endorsed his nomination. Patrick Shriver expressed concerns about the single nomination and potential biases due to personal relationships, stressing the need for independence and impartiality. Mr. Mayes attested to Dr. Perkin's independence in his research and professional roles, and Shaun Donovan supported this by sharing positive experiences working with Dr. Perkin at the San Antonio River Authority.

## Recommendations of the Science Committee Vacancy Work Group

The Work Group recommends, by consensus, that the SH appoints Dr. Joshuah Perkin to the Science Committee.

Appendix A

# 2024 Science Committee Vacancy Work Group Charge

**2024 Science Committee Vacancy Work Group Charge**

**Background:** The Stakeholder Committee and the Implementing Committee each are charged, pursuant to Subsection 7.9.1 of the FMA, with appointing an equal number of members to the Science Committee, with one appointment made jointly. Currently, there is a vacancy, resulting from the resignation of Megan Bean, for one of the positions appointed by the Stakeholder Committee. Megan, who previously worked for the Texas Parks and Wildlife Department and has extensive knowledge of the biology and ecology of fishes, has taken a position with the U.S. Fish and Wildlife Service and will be involved in the Service's ongoing oversight responsibilities for the EAHCP.

**Work Group Membership:** TBD following Stakeholder Committee discussion on July 25th, 2024, goal of at least five members including the Work Group chair.

- Kevin Mayes – Texas Parks and Wildlife
- Rachel Sanborn – San Marcos River Foundation
- Kimberly Meitzen – Texas State University
- Patrick Shriver – San Antonio Water System
- Shaun Donovan – San Antonio River Authority

**Charge:** The Work Group is charged with reviewing nominations to fill the vacancy for a Stakeholder-Committee-appointed position on the Science Committee and with presenting a recommendation to the Stakeholder Committee at the December 19, 2024, meeting for filling the vacancy. Anyone can submit a nomination by providing relevant information about the nominee, including contact information and confirmation of the nominee's willingness to serve, to EAHCP staff, preferably by August 23rd, 2024. We are tentatively planning for a virtual meeting of this Work Group the week of August 26th-30th to discuss nominations and recommend a specific nominee.

**Term:** The term of membership on the Work Group is initially set to extend until the end of the Stakeholder Committee meeting held on December 19, 2024.

**Procedures:** Pursuant to Subsections 8.1 and 8.7 of the Stakeholder Committee Program Operational Rules, the Work Group is authorized to conduct its business and hold meetings, with appropriate notice and opportunity for public input, entirely through virtual communication channels, including, but not limited to, Zoom or Microsoft Teams. For purposes of approving the final text of a Work Group report and/or approving meeting minutes, the Work Group also is authorized to rely solely on email communications or individual conversations, including by phone call, in lieu of a meeting. Adopted by the EAHCP Stakeholder Committee on July 25, 2024.

Approved by the Stakeholder Committee on July 25, 2024

Appendix B

# 2024 Science Committee Vacancy Work Group Agenda

# Science Committee Vacancy Work Group

## Agenda

August 29, 2024

Microsoft Teams Link

1. Call to Order.
2. Review of the Work Group Charge.
3. Discuss nominations to the Science Committee.
4. Science Committee Vacancy Work Group approval of final nomination(s) to the Science Committee or consider additional meeting to discuss nominations.
5. Next Steps.
6. Public Comment.
7. Future meetings: TBD
8. Adjourn.

Appendix C

# 2024 Science Committee Vacancy Work Group Presentation

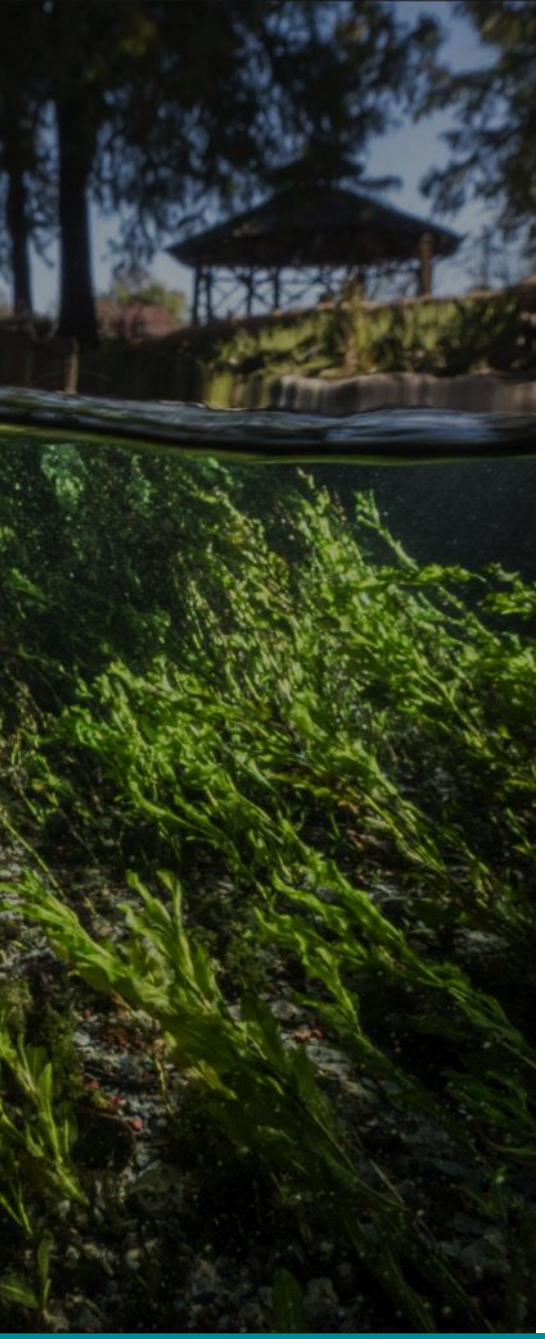
# Science Committee Vacancy Work Group

August 29, 2024

Microsoft Teams

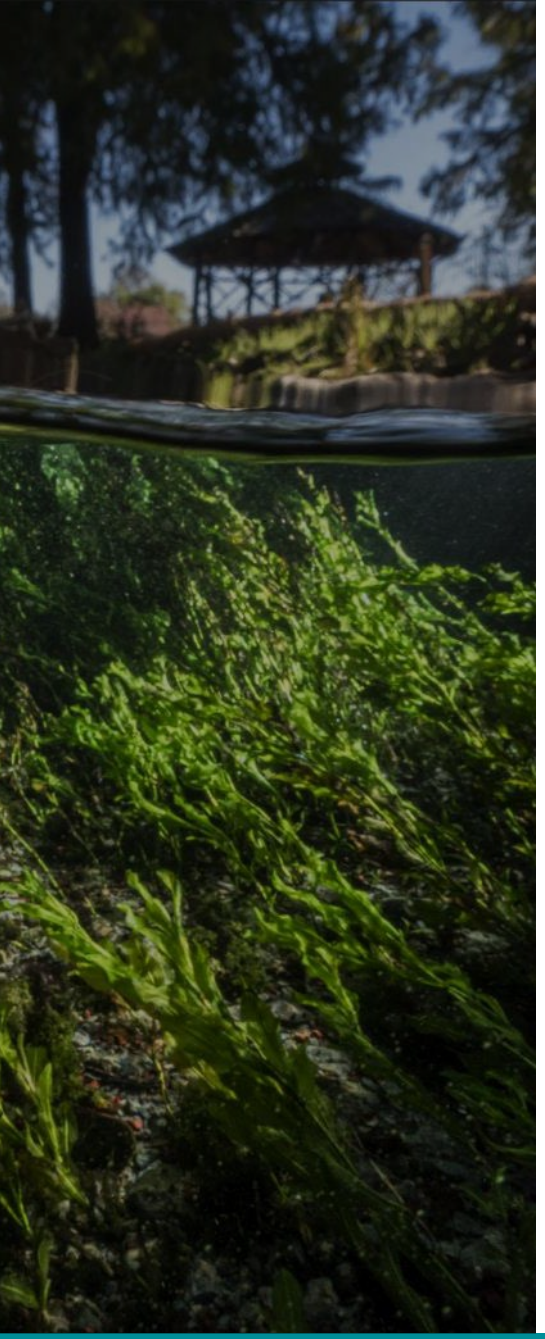
**This meeting is being recorded**

EAHCP
EDWARDS AQUIFER
HABITAT CONSERVATION PLAN



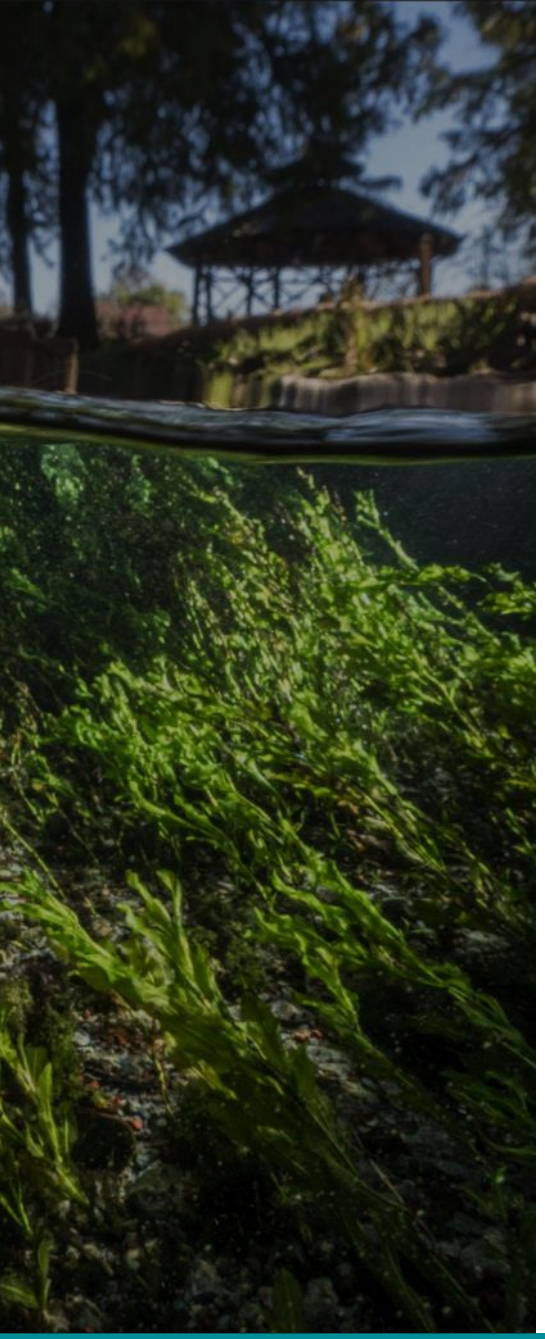
# Science Committee Vacancy Work Group

- Call to order:
- Roll Call:
  - Kevin Mayes – TPWD
  - Rachel Sanborn – SMRF
  - Kimberly Meitzen – TXST
  - Patrick Shriver – SAWS
  - Shaun Donovan - SARA



# Charge

- The Work Group is charged with reviewing nominations to fill the vacancy for a Stakeholder Committee-appointed position on the Science Committee and with presenting a recommendation to the Stakeholder Committee at the December 19, 2024, meeting for filling the vacancy.



# Term and Procedure

**Term**: The term of membership on the Work Group is initially set to extend until the end of the Stakeholder Committee meeting held on December 19, 2024.

**Procedures:** Pursuant to Subsections 8.1 and 8.7 of the Stakeholder Committee Program Operational Rules, the Work Group is authorized to conduct its business and hold meetings, with appropriate notice and opportunity for public input, entirely through virtual communication channels, including, but not limited to, Zoom or Microsoft Teams.

For purposes of approving the final text of a Work Group report and/or approving meeting minutes, the Work Group also is **authorized to rely solely on email communications or individual conversations, including by phone call, in lieu of a meeting.** Adopted by the EAHCP Stakeholder Committee on July 25, 2024.

# FMA § 7.9.1. Membership on the Science Committee.

The Implementing Committee and the Stakeholder Committee will each select an equal number of members of the Science Committee and will coordinate with one another in making selections in order *to ensure balance and proper coverage of areas of expertise*.

The Implementing Committee and the Stakeholder Committee will jointly select one additional member of the Science Committee. In the case of a vacancy on the Science Committee, the committee, or committees, that made the initial appointment for that position will appoint a replacement member.

# FMA § 7.9.1.a Invitations to Serve

Any person to which the Implementing Committee or the Stakeholder Committee extends an invitation to be a member of the Science Committee will be requested to respond in writing to the Program Manager within 30 days of the date of the invitation advising of the acceptance of the invitation and to provide the invitee's contact information.

If an invitee does not timely respond with acceptance, that invitation will be considered declined and another qualified person will be invited to become a member of the Science Committee in the same manner as for the invitation that was declined.

# The Science Committee's role is to:

- Consult with, advise and make recommendations to the Program Manager, the Implementing Committee and the Stakeholder Committee on any Adaptive Management Process (AMP) Decision upon request.
- Provide independent and unbiased advice based on their best scientific judgment so that all AMP Decisions will be made consistent with the best scientific and commercial data available.

# Current Science Committee Members and Expertise

- Jason Martina – Aquatic Macrophytes
- Tom Arsuffi – Stream Ecology
- Jacquelyn Duke – Riparian Ecology
- Conrad Lamon – Environmental Statistics
- Butch Weckerly – Environmental Statistics
- Nathan Bendik – Central Texas Salamanders
- Janis Bush – Biological Diversity and Sustainability
- Charlie Kreitler – Hydrogeology
- Chad Norris – Macroinvertebrates/Spring Systems
- Jack Sharp - Hydrogeology

# Nominee – Dr. Josh Perkin

- Education:
  - Ph.D. Kansas State University, Biology, 2012
  - M.S. Texas State University, Aquatic Resources, 2009
  - B.S. Texas State University, Aquatic Biology, 2006
- Current Position:
  - Associate Professor
  - Department of Ecology and Conservation Biology, Texas A&M University

# Nomination

- Science Committee Vacancy Work Group approval of final nomination(s) to the Science Committee or consider additional meeting to discuss nominations.

# Next Steps

- Draft report and report approval.
- Stakeholder Committee Meeting – December 19th
- Comments from the public.
- Future Meetings: TBD
- Adjourn.


Questions?

# Meeting Adjourned.

Appendix D

# 2024 Science Committee Vacancy Work Group Meeting Minutes

# EAHCP

# Science Committee Vacancy Work Group

## Meeting Minutes

## August 29, 2024

1. **Call to Order**

   The meeting was called to order by Olivia Lopez, EAHCP Coordinator, at 11:02 AM. Work Group members present: Rachel Sanborn, Kimberly Meitzen, Kevin Mayes, Shaun Donovan, and Patrick Shriver.

2. **Review of the Work Group Charge**

   Ms. Lopez summarized the work group charge to review the nomination to fill the vacancy and to present the recommendation to the Stakeholder Committee. The term of the work group extends through December 2024. To finalize the text of the work group report and/or approve meeting minutes, the work group is authorized to use email communications or individual conversations, including phone calls, instead of convening a formal meeting.

3. **Discussion of Nominations to the Science Committee**

   The work group was reminded of the responsibilities of the Science Committee and the expertise of the current members of the Science Committee. The vacant membership was previously held by Megan Bean, a fish conservation expert employed by the Texas Parks and Wildlife Department. Therefore, the Stakeholder Committee is seeking a fish conservation expert to fill the vacant position.

   Dr. Josh Perkin is a native fish conservation expert and was the sole nominee received by the Science Committee Vacancy Work Group for consideration. Information about his educational background and current position at Texas A&M University was presented to the work group as well as his willingness to serve on the Science Committee.

   Dr. Kimberly Meitzen commended Dr. Perkin as an excellent addition to the Science Committee, highlighting his expertise as a fisheries biologist, familiarity with the San Marcos River system, contributions to fish species research, and interest in contributing to habitat conservation.

   Kevin Mayes described his close working relationship with Dr. Perkin including contracted research and joint publications. He mentioned Dr. Perkin's experience with the Texas Parks and Wildlife Department and work at Texas A&M University. Mr. Mayes fully endorsed Dr. Perkin.

   Patrick Shriver raised concerns about having only one nomination and the potential for biases stemming from personal relationships. Although he acknowledged Dr. Perkin's impressive CV, Mr. Shriver emphasized the need for assurance regarding Dr. Perkin's ability to work independently and impartially. Mr. Mayes addressed these concerns by affirming

Dr. Perkin's demonstrated independence in his research and service on the Texas Parks and Wildlife Freshwater Fisheries Advisory Board. Shaun Donovan added that he had positive experiences working with Dr. Perkin on projects at the San Antonio River Authority.

4. **Science Committee Vacancy Work Group approval of final nomination(s) to the Science Committee or consider additional meeting to discuss nominations.**

   A motion was made by Dr. Kimberly Meitzen, seconded by Kevin Mayes, to approve Dr. Perkin as the Stakeholder Committee nomination to join the Science Committee. All members present voted in favor of the nomination. There were no objections.

5. **Next Steps**

   EAHCP staff will prepare a draft report and submit it to the Science Committee Vacancy Work Group for approval. Dr. Kimberly Meitzen will present the Work Group's recommended nomination at the Stakeholder Committee meeting on December 19, 2024. Additionally, EAHCP staff will notify Dr. Perkin about the upcoming Science Committee meeting and encourage his attendance. The next Science Committee meeting is scheduled for September 5, 2024.

6. **Public Comment**

   There were no citizens who requested to address the Science Committee Vacancy Work Group.

7. **Future Meetings**

   There are no future meetings scheduled for the Science Committee Vacancy Work Group.

8. **Adjournment**

   There being no further business to discuss, the meeting was adjourned at 11:27 AM.

Appendix E

# Curriculum Vitae

# CURRICULUM VITAE

**August 2024**

## 1. Personal information

Joshuah S. Perkin
Associate Professor
Department of Ecology and Conservation Biology
Texas A&M University, College Station, TX 77843-2258
Date of Appointment: September 2023

## 2. Education

Ph.D. Kansas State University, Biology, 2012
M.S. Texas State University, Aquatic Resources, 2009
B.S. Texas State University, Aquatic Biology, 2006

## 3. Professional experience

### 3.1 Current position

Associate Professor
September 2023-present
Department of Ecology and Conservation Biology, Texas A&M University

### 3.2 Current position description

Research: 60% Effort
The field of inquiry is freshwater fish ecology and conservation, aquatic landscape ecology, ecohydrology, and aquatic invasive species management.

Teaching: 30% Effort
Teaching responsibilities include an undergraduate course in fisheries management, a special topics writing intensive course for undergraduate students, and a graduate course in applied computer programming.

Service: 10% Effort
Service responsibilities include serving as the faculty sponsor for the Texas A&M University Student Subunit of the American Fisheries Society, chair of the Texas Chapter American Fisheries Society Student Outreach Committee, visiting associate editor for the North American Journal of Fisheries Management, and member of the American Fisheries Society Publication Overview Committee.

### 3.3 Former positions

Assistant Professor
2017-2023
Department of Ecology and Conservation Biology, Texas A&M University

Assistant Professor
2014-2017
Department of Biology, Tennessee Technological University

Postdoctoral Research Associate
2013-2014
Division of Biology, Kansas State University

## 4 Research

### 4.1 Peer-reviewed journal articles

[U] Indicates undergraduate student author and [G] Indicates graduate student author.

72. Santee[G], N.S., K.W. Conway, W.H. Nowlin, D. Smith, and **J.S. Perkin**. *In Press*. Alterations to water quality and quantity elicit similar stream fish functional trait responses in three North American rivers. Ecological Indicators.
71. Yancy[U], L.E., N.S. Santee[G], E.B. Parker[U], M.J. Madewell[U], F.E. Chavez[U], L.W. Stevens[U], J.P. Wolff[G], H. Evans[U], and **J.S. Perkin**. *In Press*. A framework for integrating stream ecosystem theories into spatial modelling of fish richness and assemblage structure. Freshwater Science.
70. Winemiller, K.O., **J.S. Perkin**, J. Trungale, D. Hoeinghaus, G. Moore, A. Schwalb, Z. Mitchell, A. Trimble, C. Reeves, H. Hardy, and D. Buzan. *In Press*. Advancing environmental flows science: Hindcasting and forecasting flow-ecology. Fisheries.
69. Elkins[G], L.C., M.R. Acre, M.G. Bean, S.M. Robertson, R. Smith, and **J.S. Perkin**. *In Press*. A multiscale perspective for improving conservation of Conchos Pupfish. Animal Conservation.
68. Ellard[G], J.K., H.C. Roberts, D.J. Daugherty, P. Fleming, M.R. Acre, and **J.S. Perkin**. *In Press*. Scale-dependent tradeoffs between habitat and time in explaining Alligator Gar (*Atractosteus spatula*) movement. Environmental Biology of Fishes.
67. Steffensmeier[G], Z.D., K.B. Mayes, and **J.S. Perkin**. 2024. Linking short-term movement rate of pelagic-broadcast spawning fishes to river fragment length and conservation status. Biological Conservation 293:110585.
66. Blanchard[G], R.C., S. Young, T.J. DeWitt, and **J.S. Perkin**. 2024. Predictability and conceptual repeatability of the predator associated burst speed ecophenotype in western mosquitofish (*Gambusia affinis*). Journal of Fish Biology 104:1276-1279.
65. Shepta, E.G, **J.S. Perkin**, K. Mayes, M.E. McGarrity, C.M. Schalk & C.G. Montaña. 2024. Live bait industry as a pathway for movement of nonnative and invasive species: implications for conservation of native Texas fishes. North American Journal of Fisheries Management 44:394-406.

64. Arend[U], W.A., R.D. Mangold[U], C.L. Riggins, C. Groutte, Y. Rodriguez, T.C. Heard, N. Menchaca, J. Williamson, D. McDonald, D. Daugherty, M. McGarrity, K.W. Conway, and **J.S. Perkin**. 2023. Sexual dimorphism in an invasive population of suckermouth armored catfish: Implications for management. North American Journal of Fisheries Management 43:1735-1749.
63. Shepta, E., **J.S. Perkin**. K.B. Mayes, C.M. Schalk, C.G. Montaña. 2023. The ecological niche of native and invasive fish congeners in Texas streams: Evidence from morphology, stable isotope analysis, and stomach contents analysis. Biological Invasions 25:3993-4008.
62. Evans[U], H.A., M.I. Booknis[U], N.S. Santee[G], R.D. Mangold[G], H.C. Roberts[G], J.P. Wolff[G], J.K. Ellard[G], D. Smith, and **J.S. Perkin**. 2023. Mesohabitat and macroecological correlates for blue sucker (*Cycleptus elongatus*) occurrence in regulated rivers. River Research and Applications 39:2102-2109.
61. Perkin, J.S., S.K. Brewer, A.A. Echelle, and P.M. Kocovsky. 2023. Avoiding a macabre future for Macrhybopsis - A special section on improving management and conservation of chubs. North American Journal of Fisheries Management 43:1145-1150.
60. Perkin, J.S., P. Kocovsky, Z.D. Steffensmeier[G], and G.B. Gido. 2023. Why are larger fish farther upstream? Testing multiple hypotheses using Silver Chub (*Macrhybopsis storeriana*) in two Midwestern United States riverscapes. North American Journal of Fisheries Management 43:1225-1245.
59. Nguyen[G], E., K.B. Mayes, R. Smith, J.F. Trungale, and **J.S. Perkin**. 2023. The duality of drought: Pelagic- and benthic-spawning stream fishes show opposing responses to drought in the southern Great Plains. North American Journal of Fisheries Management 43:1276-1293.
58. Steffensmeier[G], Z.D., S.K. Brewer, M. Wedgeworth, T.A. Starks, A.W. Rodgers, E. Nguyen[G], and **J.S. Perkin**. 2023. Conservation at the nexus of niches: Multidimensional niche modelling to improve management of Prairie Chub (*Macrhybopsis australis*). North American Journal of Fisheries Management 43:1205-1224.
57. **Perkin, J.S.**, M.R. Acre, J.K. Ellard[U], A.W. Rodger, J.F. Trungale, K.O. Winemiller, and L.E. Yancy[U]. 2023. Flow-recruitment relationships for Shoal Chub (*Macrhybopsis hyostoma*) and implications for managing environmental flows. North American Journal of Fisheries Management 43:1260-1275.
56. Roberts[G], H.C., M.R. Acre, M.P.A. Claus[G], F.J. Kappen[G], K.O. Winemiller, D.J. Daugherty, and **J.S. Perkin**. 2023. Tributary streams provide migratory fish with access to floodplain habitats in a regulated river: Evidence from Alligator gar, *Atractosteus spatula*. Canadian Journal of Fisheries and Aquatic Sciences 80(2): 393-407.
55. Troia, M.J, and J.S. Perkin. 2022. Can fisheries bioenergetics modelling refine spatially explicit assessments of climate change vulnerability? Conservation Physiology 10(1):coac035
54. Hay[U], A., C. Riggins, T.C. Heard, C. Garoutte, Y. Rodriguez, F. Fillipone, K. Smith, N. Menchaca, J. Williamson, and J.S. Perkin. 2022. Movement and mortality of invasive suckermouth armored catfish during a spearfishing control experiment. Biological Invasions 24:3119–3131.

53. Best, A., **J.S. Perkin**, A.K. Pinion[G], H. Binkley[U], and K.W. Conway. 2022. First record of the Gangetic Swamp Eel, *Ophichthys cuchia* (Hamilton, 1822)(Teleostei: Synbranchidae), from Texas (USA) based on museum vouchered material, and confirmation of a second established non-native population in the USA. Check List 18:475-482.
52. **Perkin, J.S.**, C.G. Montaña, E.J. Nogueira, B.B. Brandão, G.M.T. Mattox, and K.W. Conway. 2022. Estimated richness and environmental correlates of miniature fish assemblages in the Rio Jacundá, Brazil. Neotropical Ichthyology 20(2):e210051
51. Steffensmeier[G], Z.D., M. Wedgeworth, L.E. Yancy, N.S. Santee, S.K. Brewer, **J.S. Perkin**. 2022. Paradigm versus paradox on the prairie: Testing competing stream fish movement frameworks using an imperiled Great Plains minnow. Movement Ecology 10:8.
50. Malone[G], E.W., **J.S. Perkin**, W.K. Gibbs, M. Padgett, M.A. Kulp, and S. Moore. 2022. High and dry in days gone by: Life history theory predicts Appalachian Mountain stream fish assemblage transformation during historical drought. Ecology of Freshwater Fish 31:29-44.
49. **Perkin, J.S.**, M.J. Trioa, M.R. Acre. 2021. Conservation status of native fishes in the Chihuahuan Desert region of the United States: A spatial perspective. Proceedings of the Desert Fishes Council Special Publication 2021:77-101.
48. Mollenhauer, R., S.K. Brewer, **J.S. Perkin**, D. Swedberg, M. Wedgeworth, Z.D. Steffensmeier[G]. 2021. Connectivity and flow regime direct conservation priorities for pelagophil fishes. Aquatic Conservation: Marine and Freshwater Ecosystems 31(11):3215-3227.
47. Nguyen[G], E., **J.S. Perkin**, R. Smith, K. Mayes, J. Trungale. 2021. Characteristics of the natural flow regime paradigm explain occurrence of imperiled Great Plains fishes. Ecosphere.
46. Godwin, C.D., D.M. Walker, A.S. Romer, A. Gragal-Puche, M. Grisik, J.M. Goessling, **J.S. Perkin**, and C.M. Murray. 2021. Testing the febrile response of snakes inoculated with *Ophidiomyces ophidiicola*, the causative agent of snake fungal disease. Journal of Thermal Biology 100:103065.
45. **Perkin, J.S.**, I.F. Papraniku[G], W.K. Gibbs, D.J. Hoeinghaus, D.M. Walker. 2021. Temporal trajectories in metacommunity structure: Insights from interdisciplinary research in intermittent streams. Wiley Interdisciplinary Reviews: Water 8(4):e1531.
44. Parker[G], S. D., **J.S. Perkin**, M.G. Bean, D. Lutz-Carrillo, M.R. Acre. 2021. Temporal distribution modelling reveals upstream habitat drying and downstream non-native introgression are squeezing out an imperiled headwater fish. Diversity and Distributions 27:533-551.
43. Acre, M.R., **J.S. Perkin**, M.G. Bean. 2021. Multiple survey methods reveal greater abundance of endangered pupfish in restored habitats. Aquatic Conservation: Marine and Freshwater Ecosystems 31:198-209.
42. Sante[U], N.S., L.E. Yancy[U], Z.R. Steffensmeieir[G], and **J.S. Perkin**. 2020. Testing restricted movement of plains killifish (*Fundulus zebrinus*). Southwestern Naturalist.

41. **Perkin, J.S.**, M.R. Acre, J. Graham, K. Hoenke. 2020. An integrative conservation planning framework for aquatic landscapes fragmented by road-stream crossings. Landscape and Urban Planning 202:103860.
40. Blanton[U], C.S., **J.S. Perkin**, N. Menchaca, K.A. Kollaus. 2020. A gap in the armor: Spearfishing reduces biomass of invasive suckermouth armored catfish. Fisheries 45:293-302.
39. **Perkin, J.S.**, K.W. Gibbs, J. Ridgway[G], S.B. Cook. 2019. Riverscape correlates for distribution of threatened spotfin chub (*Erimonax monachus*) in the Tennessee River Basin, USA. Endangered Species Research 40:91-105.
38. **Perkin, J.S.**, T.A. Starks, C.A. Pennock[G], K.B. Gido, G.W. Hopper[G], and S.C. Hedden[G]. 2019. Extreme drought causes fish recruitment failure in a fragmented Great Plains riverscape. Ecohydrology 12:e2120.
37. George[G], S.D., A.K. Pinion[G], K.W. Conway, and **J.S. Perkin**. 2019. Observations on habitat use of age-0 Rio Grande blue sucker *(Cycleptus* sp. cf. *elongatus*). Western North American Naturalist 79:463-469.
36. **Perkin, J.S.**, S. Murphy[U], C.M. Murray, W.K. Gibbs, A.E. Gebhard[G]. 2019. If you build it, they will go: A case study of stream fish diversity loss in an urbanizing riverscape. Aquatic Conservation: Marine and Freshwater Ecosystems 29:623-638.
35. Wellemeyer[G], J.C., **J.S. Perkin**, M.L. Jameson, K.H. Costigan, R. Waters. 2019. Hierarchy theory reveals multiscale predictors of Arkansas Darter (*Etheostoma cragini*) abundance in a Great Plains riverscape. Freshwater Biology 64:659-670.
34. McManamay, R.A., **J.S. Perkin**, and H. Jager. 2019. Commonalities in stream connectivity restoration alternatives: An attempt to simplify barrier removal optimization. Ecosphere 10(2):1-25.
33. Pinion[G], A.K., S.D. George[G], **J.S. Perkin**, K.W. Conway. 2018. First record of the Conchos Shiner *Cyprinella panarcys* (Hubbs & Miller, 1978) from the mainstem of the Rio Grande along the US-México Border. Check List 14:1123-1129.
32. Merchant, M., D. Savage, A. Cooper, M. Slaughter, **J.S. Perkin**, and C.M. Murray. 2018. Nest attendance patterns in the American Alligator (*Alligator mississippiensis*). Copeia 106:421-426.
31. Curtis[U], W.J., A.E. Gebhard[G], and **J.S. Perkin**. 2018. The river continuum concept predicts prey community structure for an insectivorous fish. Freshwater Science 37:618-630.
30. Malone[G], E.W., **J.S. Perkin**, B.M. Leckie, M.A. Kulp, C.R. Hurt, and D.M. Walker. 2018. Which species, how many, and from where: integrating habitat suitability, population genomics, and abundance estimates into species reintroduction planning. Global Change Biology 24:3729-3748.
29. Wellemeyer[G], J.C., **J.S. Perkin**, J.D. Fore, C. Boyd. 2018. Comparing assembly processes for multimetric indices of biotic integrity. Ecological Indicators 89:590-609.
28. Worthington, T.A., S.K. Brewer, N. Farless[G], D. Logue[G], J. Dyer[G], **J.S. Perkin** and T. Echelle. 2018. The emblematic minnows of the North American Great Plains: Identifying information needs to benefit persistence and recovery. Fish and Fisheries 19:271-307.

27. Krosnick, S.E., **J.S. Perkin**, T.S. Shroeder, L.G. Campbell, E.B. Jackson, S.C. Maynord, C.G. Waters, and J.S. Mitchell. 2017. New insights into floral morph variation in *Passiflora incarnata L.* (Passifloraceae) in Tennessee, U.S.A. Flora 236-237:115-125.
26 Gebhard[G], A.E., and **J.S. Perkin**. 2017. Assessing riverscape-scale variation in fish life history using Banded Sculpin (*Cottus carolinae*). Environmental Biology of Fishes 100:1397–1410.
25. **Perkin, J.S.**, K.B.Gido, J. Falke, K. Fausch, H. Crockett, E. Johnson, J. Sanderson. 2017. Groundwater declines are linked to changes in Great Plains stream fish assemblages. Proceedings of the National Academy of Sciences 114:7373-7378.
24. Gebhard[G], A.E., R.T.R. Paine[G], L.A. Hix[G], T.C. Johnson[G], W.G. Wells[G], H.N. Ferrell[G], and **J.S. Perkin**. 2017. Testing cross-system transferability of fish habitat associations using *Cottus carolinae* (Banded Sculpin). Southeastern Naturalist 16:70-86.
23. **Perkin, J.S.**, N.E. Knorp[G], T.C. Boersig[G], A.E. Gebhard[G], L.A. Hix[G], T.C. Johnson[G]. 2017. Life history theory predicts long-term fish assemblage response to stream impoundment. Canadian Journal of Fisheries and Aquatic Sciences 74:228-239.
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21. Pennock[G], C.A., K.B. Gido, **J.S. Perkin**, V.D. Weaver. 2017. Collapsing Range of an Endemic Great Plains Minnow, Peppered Chub *Macrhybopsis tetranema*. American Midland Naturalist 177:57-68.
20. Wellemeyer[G], J.C., C. Harty[G], and **J.S. Perkin**. 2016. Occurrence of *Lepomis miniatus* (Redspotted Sunfish) in the Cumberland River Basin of Tennessee. Southeastern Naturalist 15:N33-N36.
19. **Perkin, J.S.**, and T.H. Bonner. 2016. Historical changes in assemblage composition following improved water quality in the mainstem Trinity River of Texas. River Research and Applications 32:85-99.
18. Costigan, K.H., C.M. Ruffing, **J.S. Perkin**, M.D. Daniels. 2016. Rapid response of a sand-dominated rive to installation and removal of a temporary run-of-the-river dam. River Research and Applications 32:110-124.
17. **Perkin, J.S.**, M.J. Troia, D.C.R. Shaw[U], J.E. Gerken, K.B. Gido. 2016. Multiple watershed alterations influence fish community structure in Great Plains prairie streams. Ecology of Freshwater Fish 25:141-155.
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13. Costigan, K.H., M.D. Daniels, **J.S. Perkin**, and K.B. Gido. 2014. Longitudinal variability in hydraulic geometry and substrate characteristics of a Great Plains sand-bed river. Geomorphology 210:48-58.
12. Alexander[U], A.M., and **J.S. Perkin**. 2013. Notes on the feeding ecology of a relict population of the Cardinal Shiner, *Luxilus cardinalis* (Teleostei: Cyprinidae), in Kansas. Transactions of the Kansas Academy of Science 167:11-21.
11. Dodds, W.K., **J.S. Perkin**, and J.E. Gerken. 2013. Global human impact on freshwater ecosystem goods and services. Environmental Science and Technology 47:9060-9068.
10. **Perkin, J.**S.**,** Z.R. Shattuck, J.E. Gerken, and T.H. Bonner. 2013. Fragmentation and drought legacy correlate with burrhead chub distribution in subtropical streams of North America. Transactions of the American Fisheries Society 142:1287-1298.
9. **Perkin, J.S.**, K.B. Gido, O. Al-Ta'ani, C. Scoglio. 2013. Simulating fish dispersal in stream networks fragmented by multiple road crossings. Ecological Modelling 257:44-56.
8. **Perkin, J.S.**, and K.B. Gido. 2012. Fragmentation alters stream fish community structure in dendritic ecological networks. Ecological Applications 22: 2176-2187.
7. **Perkin, J.S.**, Z.R. Shattuck, and T.H. Bonner. 2012. Reproductive ecology of a relict ironcolor shiner (*Notropis chalybaeus*) population in the headwaters of the San Marcos River, Texas. American Currents 37(2):13-23.
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5. **Perkin, J.S.**, Z.R. Shattuck, and T.H. Bonner. 2012. Life history aspects of a relict ironcolor shiner *Notropis chalybaeus* population in a novel spring environment. American Midland Naturalist 167:111-126.
4. **Perkin, J.S.**, and K.B. Gido. 2011. Stream fragmentation thresholds for a reproductive guild of Great Plains fishes. Fisheries 36:371-383.
3. **Perkin, J.S.**, and T.H. Bonner. 2011. Long-term changes in flow regime and fish assemblage composition in the Guadalupe and San Marcos rivers of Texas. River Research and Applications 27:566–579.
2. **Perkin, J.S.,** Z.R. Shattuck, P.T. Bean, T.H. Bonner, E. Saraeva, and T.B. Hardy. 2010. Movement and microhabitat associations of Guadalupe bass in two Texas Rivers. North American Journal of Fisheries Management 30:31-45.
1. **Perkin, J.S.**, C.S. Williams, and T.H. Bonner. 2009. Aspects of chub shiner *Notropis potteri* life history with comments on native distribution and conservation status. American Midland Naturalist 162:279-291.

### 4.2 Invited book chapters

9. Vaughn, CC., K.B. Gido, K.R. Bestgen, **J.S. Perkin**, and S.P. Platania. 2023. Chapter 7: Southern Plains Rivers. Pages 273-314 *In* Rivers of North America, Second Edition. Academic Press, Cambridge, MA.
8. Labay, B.J., **J.S. Perkin**, D.A. Hendrickson, A.R. Cooper, G.P. Garrett, and T.W. Birdsong. 2019. Who's Asking?: Inter-jurisdictional conservation assessment and

planning for Great Plains fishes. Pages 57-83 *In* Multispecies & Watershed Approaches to Freshwater Fish Conservation. American Fisheries Society Symposium 91, Bethesda, MD.

7. **Perkin, J.S.**, J.C. Wellemeyer[G], J.D. Fore. 2019. Multiscale fish assemblage distribution models to guide riverscape conservation planning. Pages 409-440 *In* (Hughes, Infante, and Li; eds) Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages. American Fisheries Society Symposium 90, Bethesda, MD.
6. Gido, K.B., J.E. Whitney, **J.S. Perkin**, and T.F. Turner. 2015. Fragmentation, connectivity, and species persistence in freshwater ecosystems. Pages 292-323 *In* G. Closs, M. Krkosek, and J. Olden (editors). Conservation of Freshwater Fishes. Cambridge University Press.
5. Curtis, S.G., **J.S. Perkin**, P.T. Bean, M.S. Sullivan, and T.H. Bonner. 2015. Guadalupe Bass *Micropterus treculii* (Vaillant & Bocourt, 1874). Pages 55-60 In M.D. Tringali, J.M. Long, T.W. Birdsong, and M.S. Allen (editors). Black Bass Diversity: Multidisciplinary Science for Conservation. American Fisheries Society Symposium 82, Bethesda, MD.
4. **Perkin, J.S.** 2014. Prairie Chub *Macrhybopsis australis*. Page 443 *In* Kansas Fishes, University of Kansas Press, Lawrence.
3. **Perkin, J.S.** 2014. Shoal Chub *Macrhybopsis hyostoma.* Pages 181-183 *In* Kansas Fishes, University of Kansas Press, Lawrence.
2. **Perkin, J.S.** 2014. Peppered Chub *Macrhybopsis tetranema*. Pages 189-191 *In* Kansas Fishes, University of Kansas Press, Lawrence.
1. Eberle, M.E., D.R. Edds, **J.S. Perkin**, and J. Tiemann. 2014. Kansas Stream and Native Species Conservation. Pages 9-16 *In* Kansas Fishes, University of Kansas Press, Lawrence.

**4.3 Invited book reviews**

1. **Perkin, J.S.** 2018. Synthesizing stream fish community dynamics in the southern Great Plains and beyond. Ecology 99:763-764.

**4.4 Invited research seminars**

24. **Perkin, J.S.** 2024. Little fish, big decisions: Theory and practice of advancing environmental management using minnows. U.S. Geological Survey Columbia Environmental Research Center.
23. **Perkin, J.S.** 2024. Little fish, big decisions: Theory and practice of advancing environmental management using minnows. Iowa State University.
22. **Perkin, J.S.** 2024. Application of functional traits in understanding and addressing freshwater fish diversity conservation. Texas A&M University.
21. **Perkin, J.S.** 2021. Fish Ecology and Conservation in Four-Dimensional Riverscapes. Baylor University.
20. **Perkin, J.S.** 2021. The young and the wetless: Stream fish life history traits predict response to drought. Southeastern Louisiana University.

19. **Perkin, J.S.** 2019. The dimensions and scales of fish conservation in riverscapes. Middle Tennessee State University.
18. **Perkin, J.S.** 2019. Fish SCALES: Scaling, conservation, and landscape ecology in streams. Texas State University.
17. **Perkin, J.S.** 2018. When in drought: extreme climatic events homogenize stream fish assemblages. Sam Houston State University.
16. **Perkin, J.S.** 2018. Fish ecology and conservation in riverscapes, or what to do about these dammed Great Plains rivers. Texas A&M University.
15. **Perkin, J.S.** 2018. Dams, Drought, and Desiccation Constrain the Macroecology of Great Plains Stream Fishes. University of North Texas.
14. **Perkin, J.S.** 2017. Fish landscape ecology and conservation in the Great Plains. Texas A&M University.
13. **Perkin, J.S.** 2016. Life history theory as a framework for predicting fish assemblage structure in altered riverscapes. Southern Illinois University.
12. **Perkin, J.S.** 2016. Groundwater extraction form the High Plains Aquifer drains streams that support Great Plains fishes. Great Plains Landscape Conservation Cooperative.
11. **Perkin, J.S.** 2016. All dry on the western front: applying landscape ecology theory to conceptualize the past, present, and future of Great Plains fishes. University of Oklahoma.
10. **Perkin, J.S.** 2015. FRAGMENTS: Fish responses along gradients of modified ecological networks in temperate streams. University of Missouri.
9. **Perkin, J.S.** and K.B. Gido. 2015. Conservation priorities for Great Plains fish communities based on riverscape connectivity and genetic integrity of populations. Great Plains Landscape Conservation Cooperative.
8. **Perkin, J.S.** 2014. The trilateral continuum of doom: broad-scale environmental changes threaten Great Plains stream fishes. Oak Ridge National Laboratory.
7. **Perkin, J.S.** 2014. A riverine landscape approach to fish conservation and management. Tennessee Technological University.
6. **Perkin, J.S.** 2014. A riverine landscape approach to fish conservation and management. Murray State University.
5. **Perkin, J.S.**, K.B. Gido, T.F. Turner, M.J. Osborne, E.R. Johnson, K.B. Mayes. 2014. Conservation priorities for Great Plains fish communities based on riverscape connectivity and genetic integrity of populations. Great Plains Landscape Conservation Cooperative Steering Committee Meeting, Kansas City, MO.
4. **Perkin, J.S.** 2013. Stream fragmentation and desiccation threaten fish biodiversity in the Great Plains. Center for Limnology Seminar, University of Wisconsin.
3. **Perkin, J.S.** 2013. A riverine landscape approach to fisheries conservation and management. Georgia Southern University.
2. **Perkin, J.S.** 2013. Evaluating fish community response to habitat fragmentation in Great Plains streams. Ottawa State University.
1. **Perkin, J.S.** 2012. Conservation of Great Plains fishes in human-dominated riverine landscapes. Wichita State University.

**4.5 Presentations at professional meetings**

First author listed was the presenter, $^{U}$ designates undergraduate presenter and $^{G}$ designated graduate student presenter. Presentations were oral unless noted as (poster)

2024

255. Roberts$^{G}$, H.C., P.T. Bean, K.W. Conway, G. Voelker, H.L. Bart, and **J.S. Perkin**. Edwards Plateau Anomaly: Morphology and Genetics of a Potentially Undescribed Catostomid, the Llano River Carpsucker (*Carpiodes* sp.) of Central Texas. Joint Meeting of Ichthyologists and Herpetologists, Pittsburgh, PA.
254. **Perkin, J.S.**, L.C. Elkins$^{G}$, R.D. Mangold$^{G}$, J.P. Wolff$^{G}$, M. Perez Rocha, A.N. Schwalb, B.F. Schwartz, W.H. Nowlin, M.J. Troia, C. Saltus, R. Johansen, and D. Smith. 2024. Integrating climate and land use projections to assess ecological futures for stream fish assemblages arranged along an aridity gradient. Society for Freshwater Science, Philadelphia, PA.
253. Perez Rocha1,M., E. Austin-Bingamon1, M. Sams, N. Santee$^{G}$, B. Schwartz, **J.S. Perkin**, W. Nowlin, and A. Schwalb. 2024. When dryer makes it more diverse: hydrological gradients affect facets of biodiversity in similar ways. Society for Freshwater Science, Philadelphia, PA.
252. Mangold$^{G}$, R.D., J.K. Ellard$^{G}$, K.W. Conway, C.G. Montaña, K.M. Kubicek, A. Umstott, and **J.S. Perkin**. 2024. Exorcising the ghosts of riverscape past: Historical alterations to a riverine landscape shape contemporary fish assemblages and guide future restoration actions. Society for Freshwater Science, Philadelphia, PA.
251. Ellard$^{G}$, J.K., R.D. Mangold$^{G}$, K.W. Conway, C.G. Montaña, K.M. Kubicek, A. Umstott, and **J.S. Perkin**. 2024. Spatially intensive fish inventories conducted 70 years apart reveal strong spatial footprints of reservoirs in a regulated temperate river. Society for Freshwater Science, Philadelphia, PA.
250. Mangold$^{G}$, R.D., L.C. Elkins, C. Saltus, R. Johansen, and **J.S. Perkin**. 2024. Multiscale stream fish species-discharge relationships: The relative roles of evenness, density, and spatial aggregation. Society for Freshwater Science, Philadelphia, PA. (poster)
249. Yancy$^{U}$, L.E., N.S. Santee$^{G}$, E.B. Parker$^{U}$, M.J. Madewell$^{U}$, F.E. Chavez$^{U}$, L.W. Stevens$^{U}$, J.P. Wolff$^{G}$, H. Evans$^{U}$, and **J.S. Perkin**. 2024. A framework for integrating stream ecosystem theories into spatial modelling of fish richness and assemblage structure. Society for Freshwater Science, Philadelphia, PA. (poster)
248. Ellard$^{G}$, J.K., H.C. Roberts, D.J. Daugherty, P. Fleming, M.R. Acre, and **J.S. Perkin**. *In Press*. Scale-dependent tradeoffs between habitat and time in explaining Alligator Gar (*Atractosteus spatula*) movement. Society for Freshwater Science, Philadelphia, PA. (poster)
247. **Perkin, J.S.** 2024. Freshwater fish data products for advancing applied ecological models. Collaborative project meeting of US Army Corps Engineering Research and Development Center (ERDC) and Texas Research Institute for Aquatic and Groundwater Ecology (TRIAGE) at Texas State University, San Marcos, TX.
246. Booknis$^{U}$, M., H. Evans$^{U}$, N. Santee$^{G}$, H. Roberts$^{G}$, D. Smith, and **J.S. Perkin**. 2024. Mesohabitat and macroecological correlates for Blue Sucker (*Cycleptus elongatus*) occurrence in regulated rivers. Collaborative project meeting of US Army Corps Engineering Research and Development Center (ERDC) and Texas Research Institute

for Aquatic and Groundwater Ecology (TRIAGE) at Texas State University, San Marcos, TX. (poster)

245. Dodson[G], T., J. Barrett[G], N. Santee,[G] D. Smith, and **J.S. Perkin**. 2024. Combining spatial gradients and sparse time series data to predict fish assemblage response to increasing aridity. Collaborative project meeting of US Army Corps Engineering Research and Development Center (ERDC) and Texas Research Institute for Aquatic and Groundwater Ecology (TRIAGE) at Texas State University, San Marcos, TX. (poster)
244. Barrett[G], J., T. Dodson[G], D. Smith, and **J.S. Perkin**. 2024. Longitudinal gradients of fish assemblages in proximity to potential passage barriers in the San Antonio River. Collaborative project meeting of US Army Corps Engineering Research and Development Center (ERDC) and Texas Research Institute for Aquatic and Groundwater Ecology (TRIAGE) at Texas State University, San Marcos, TX. (poster)
243. **Perkin, J.S.**, J.J. Jones, J. Barrett[G], T. Dodson[G], M. Booknis[U], and D. Smith. 2024. Application of ground-based LiDAR to measure and model the dimensions of potential fish passage structures. Collaborative project meeting of US Army Corps Engineering Research and Development Center (ERDC) and Texas Research Institute for Aquatic and Groundwater Ecology (TRIAGE) at Texas State University, San Marcos, TX. (poster)
242. Alves, A., Nowlin W., **Perkin J.S.**, and A. N. Schwalb. 2024. Impacts of changes in fish community composition on stream functioning during drying and flowing conditions in remnant pools. Collaborative project meeting of US Army Corps Engineering Research and Development Center (ERDC) and Texas Research Institute for Aquatic and Groundwater Ecology (TRIAGE) at Texas State University, San Marcos, TX. (poster)
241. Ellard[G], J.K., R.D. Mangold[G], K.W. Conway, C.G. Montaña, K.M. Kubicek, A. Umstott, and **J.S. Perkin**. 2024. Spatially intensive fish inventories conducted 70 years apart reveal strong spatial footprints of reservoirs in a regulated temperate river. Texas A&M University Ecological Integration Symposium, College Station, TX.
240. Mangold[G], R.D., J.K. Ellard[G], K.W. Conway, C.G. Montaña, K.M. Kubicek, A. Umstott, and **J.S. Perkin**. 2024. Long-term changes in fish assemblage structure across the Neches River basin. Texas A&M University Ecological Integration Symposium, College Station, TX.
239. Evans[U], H., M. Booknis[U], N. Santee[G], H. Roberts[G], D. Smith, and **J.S. Perkin**. 2024. Mesohabitat and macroecological correlates for Blue Sucker (*Cycleptus elongatus*) occurrence in regulated rivers. Texas A&M University Ecological Integration Symposium, College Station, TX. (poster)
238. Stevens[U], L.W., L.E. Yancy[U], N.S. Santee[G], E.B. Parker[U], M.J. Madewell[U], F.E. Chavez[U], J.P. Wolff[G], H. Evans[U], and **J.S. Perkin**. 2024. A framework for integrating stream ecosystem theories into spatial modelling of fish richness and assemblage structure. Texas A&M University Ecological Integration Symposium, College Station, TX. (poster)
237. Elzi[U], B., H. Evans[U], L. Stevens[U], and **J.S. Perkin**. Hydrodynamics and fish assemblage fluxes in a forested riverscape. Texas A&M University Ecological Integration Symposium, College Station, TX. (poster)

236. Arend[U], W.A., R.D. Mangold[U], C.L. Riggins, C. Groutte, Y. Rodriguez, T.C. Heard, N. Menchaca, J. Williamson, D. McDonald, D. Daugherty, M. McGarrity, K.W. Conway, and **J.S. Perkin**. 2023. Sexual dimorphism in an invasive population of suckermouth armored catfish: Implications for management. Texas A&M University Ecological Integration Symposium, College Station, TX. (poster)
235. Blanchard[G], R., A.M. Lawing, and **J.S. Perkin**. 2024. Sexual Dimorphism in Dispersal Traits for the Highly Invasive Western Mosquitofish. Texas A&M University Ecological Integration Symposium, College Station, TX.
234. Blanchard[G], R., A.M. Lawing, and **J.S. Perkin**. 2024. Sexual Dimorphism in Dispersal Traits for the Highly Invasive Western Mosquitofish. Texas A&M University Student Research Week, College Station, TX.
233. Ellard[G], J.K., R.D. Mangold[G], K.W. Conway, C.G. Montaña, K.M. Kubicek, A. Umstott, and **J.S. Perkin**. 2024. Seventy years of change: Analyzing fish assemblage shifts of the upper Sabine River, Texas. Texas Chapter American Fisheries Society, Nacogdoches, TX.
232. Umstott, A., R.D. Mangold[G], J.K. Ellard[G], **J.S. Perkin**, K.W. Conway, K. Kubicek, and C. Montaña. 2024. Beta diversity of stream fishes in east Texas: partitioning variation among spatial scales. Texas Chapter American Fisheries Society, Nacogdoches, TX.
231. Lindholm, J., A. Umstott, R.D. Mangold[G], J.K. Ellard[G], **J.S. Perkin**, K.W. Conway, K. Kubicek, and C. Montaña. 2024. Local Stream Predictors of Darter (Percidae) Assemblages in East Texas Streams. Texas Chapter American Fisheries Society, Nacogdoches, TX.
230. Mangold[G], R.D., J.K. Ellard[G], K.W. Conway, C.G. Montaña, K.M. Kubicek, A. Umstott, and **J.S. Perkin**. 2024. Long-term changes in fish assemblage structure across the Neches River basin. Texas Chapter American Fisheries Society, Nacogdoches, TX.
229. Booknis[U], M., H. Evans[U], S. Santee[G], R. Mangold[G], H. Roberts[G], J. Wolff[G], J. Ellard[G], D. Smith, and **J.S. Perkin**. Mesohabitat and macroecological correlates of Blue Sucker occurrence in regulated rivers. Texas Chapter American Fisheries Society, Nacogdoches, TX.
228. Blanchard[G], R., A.M. Lawing, and **J.S. Perkin**. 2024. Sexual dimorphism and dispersal: What morphological differences can tell us about dispersal capability in the highly invasive Western Mosquitofish (*Gambusia affinis*). Texas Chapter American Fisheries Society, Nacogdoches, TX.
227. Roberts[G], H.C., P. Bean, K.W. Conway, G. Voelker, H. Bart, and **J.S. Perkin**. The Carpiodes conundrum: Molecular and morphological patterns of a putative undescribed Catostomid, the Llano River Carpsucker.
Texas Chapter American Fisheries Society, Nacogdoches, TX.
226. Dodson[G], T.A., J. Barrett[G], D. Smith, and **J.S. Perkin**. 2024.Combining spatial gradients and sparse time series data to predict fish assemblage response to increasing aridity. Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)
225. Wolff[G], J., C. Johnson, and **J.S. Perkin**. 2024. Does Rio Grande Cichlid (*Herichthys cyanoguttatus*) induce trophic niche shifts in native Centrarchids? Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)
224. Stevens[U], L.W., L.E. Yancy[U], N.S. Santee[G], E.B. Parker[U], M.J. Madewell[U], F.E. Chavez[U], J.P. Wolff[G], H. Evans[U], and **J.S. Perkin**. A framework for integrating

stream ecosystem theories into spatial modelling of fish richness and assemblage structure. Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)

223. Ellard[G] , J.K., H.C. Roberts[G], D. Daugherty, M.R. Acre, and **J.S. Perkin**. Scale-dependent tradeoffs between habitat and time in explaining Alligator Gar (*Atractosteus spatula*) movement. Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)
222. Byckovski, K.J., C.L. Riggins, T.C. Heard, C.J. Garoutte, W.A. Arend[U], R.D. Mangold[G], and **J.S. Perkin**. 2024. A novel approach to estimating Suckermouth Armored Catfish population size in the San Marcos River. Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)
221. Elzi[U], B., H. Evans[U], L. Stevens[U], and **J.S. Perkin**. Hydrodynamics and fish assemblage fluxes in a forested riverscape. Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)
220. Lee, K., K.J. Byckovski, C.L. Riggins, T.C. Heard, C.J. Garoutte, W.A. Arend[U], R.D. Mangold[G], and **J.S. Perkin**. Diel activity, site fidelity, and experimental exclusion of Suckermouth Armored Catfish in the San Marcos River. Texas Chapter American Fisheries Society, Nacogdoches, TX. (poster)
219. Booknis[U], M., H. Evans[U], S. Santee[G], R. Mangold[G], H. Roberts[G], J. Wolff[G], J. Ellard[G], D. Smith, and **J.S. Perkin**. 2024. Environmental Correlates of Blue sucker occurrence in regulated rivers. Southern Division American Fisheries Society, Chattanooga, TN.
218. Roberts[G], H.C., P. Bean, K.W. Conway, G. Voelker, H. Bart, and **J.S. Perkin**. 2024. The Carpiodes Conundrum: Molecular and Morphological Patterns of a Putative Undescribed Catostomid, the Llano River Carpsucker.
217. Dodson[G], T.A., J. Barrett[G], D. Smith, and **J.S. Perkin**. 2024. Combining spatial gradients and sparse time series data to predict fish assemblage response to increasing aridity. Southern Division American Fisheries Society, Chattanooga, TN. (poster)
216. Roberts[G], H.C., J.K. Ellard[G], D. Daugherty, M.R. Acre, and **J.S. Perkin**. 2024. Scale-dependent tradeoffs between habitat and time in explaining Alligator Gar (*Atractosteus spatula*) movement. Southern Division American Fisheries Society, Chattanooga, TN. (poster)
215. Elzi[U], B., H. Evans[U], L. Stevens[U], and **J.S. Perkin**. 2024. Hydrodynamics and Fish Assemblage Fluxes in a Forested Riverscape. Southern Division American Fisheries Society, Chattanooga, TN. (poster)
214. Wolff[G], J., C. Johnson, and **J.S. Perkin**. 2024. Does Rio Grande Cichlid (*Herichthys cyanoguttatus*) induce trophic niche shifts in native centrarchids? Southern Division American Fisheries Society, Chattanooga, TN. (poster)
213. Stevens[U], L., Z.D. Steffensmeier[G], K.B. Mayes, and **J.S. Perkin**. 2024. Quantifying Movement of Seven Imperiled Pelagic-Broadcast Spawning Fishes in Three Great Plains Rivers. Southern Division American Fisheries Society, Chattanooga, TN. (poster)

2023

212. Santee[G], N.S., K.W. Conway, W.H. Nowlin, D. Smith, and **J.S. Perkin**. 2023. Symptoms of a syndrome: Linking stream fish functional traits to riverscape alterations. American Fisheries Society, Grand Rapids, MI.

211. Mangold[G], R.D., L.C. Elkins, C. Saltus, R. Johansen, and **J.S. Perkin**. 2023. Community ecology mechanisms underlying fish species-discharge relationships are scale dependent. American Fisheries Society, Grand Rapids, MI.
210. Wolff[U], J., L.C. Elkins[G], J.E. Pease, T.B. Grabowski, P.T. Bean, N.G. Smith, and **J.S. Perkin**. 2023. Multiple tracking methods reveal Guadalupe Bass dispersal is heterogeneous and predictable. American Fisheries Society, Grand Rapids, MI.
209. Blanchard[G]. R., C. Roberts, S. Young, T. DeWitt, and **J.S. Perkin**. 2023. Predictability of predation driven morphological adaptations in populations of Western Mosquitofish. American Fisheries Society, Grand Rapids, MI.
208. Perkin, J.S. 2023. A meta-presentation: Emergent themes for effective scientific presentations. American Fisheries Society, Grand Rapids, MI.
207. Roberts[G], H.C., P.T. Bean, K. W. Conway, G.A. Volker, H.L. Bart, and **J.S. Perkin**. 2023. River Carpsucker vs. Llano River Carpsucker: Morphological divergence of undescribed catostomid. American Fisheries Society, Grand Rapids, MI.
206. Booknis[U], M., H. Evans[U], N. Santee[G], H. Roberts[G], D. Smith, and **J.S. Perkin**. 2023. Mesohabitat and macroecological correlates for Blue Sucker (*Cycleptus elongatus*) occurrence in regulated rivers. American Fisheries Society, Grand Rapids, MI.
205. Steffensmeier, Z.D., S.K. Brewer, A. Rodger, T. Starks, M. Wedgeworth, E. Nguyen, and **J.S. Perkin**. 2023. Nexus of niches: Multidimensional niche modelling to improve management of Prairie Chub. American Fisheries Society, Grand Rapids, MI.
204. Hoeinghaus, D., K.O. Winemiller, C. Reeves, D. Daugherty, N. Smith, D. Buckmeier, J. Jensen, **J.S. Perkin**, and A. Pease. 2023. Retrospective analysis of flow-recruitment relationships of periodic life-history strategist fishes. American Fisheries Society, Grand Rapids, MI.
203. Acre, M.R., **J.S. Perkin**, K. Hoenke, and J. Graham. 2023. An integrative conservation planning framework for riverine landscapes fragmented by road-stream crossings. American Fisheries Society, Grand Rapids, MI.
202. Roberts[G], H.C., P.T. Bean, K. W. Conway, G.A. Volker, H.L. Bart, and **J.S. Perkin**. 2023. Morphological divergence of an undescribed catostomid, the Llano River Carpsucker (*Carpiodes* sp. cf. *carpio*) in the Colorado River basin of Texas. Texas A&M University Ecological Integration Symposium.
201. Blanchard[G]. R., C. Roberts, S. Young, T. DeWitt, and **J.S. Perkin**. 2023. Predictability and conceptual repeatability of the predator associated burst speed body shape in independently evolved populations of Western Mosquitofish. Texas A&M University Ecological Integration Symposium.
200. Santee[G], N.S., K.W. Conway, W.H. Nowlin, D. Smith, and **J.S. Perkin**. 2023. Testing responsiveness of stream fish functional traits to anthropogenic riverscape alterations. Texas A&M University Ecological Integration Symposium.
199. Ellard[U], J.K., H.C. Roberts[G], D.J. Daugherty, P.B. Fleming, and **J.S. Perkin**. 2023. A multiscale conceptual framework to predict movement and habitat associations of an imperiled megafish, the Alligator Gar (*Atractosteus spatula*). Texas A&M University Ecological Integration Symposium.
198. Holderness[U], E., R. Blanchard[G], and **J.S. Perkin**. 2023. Morphological adaptations of the Western Mosquitofish, *Gambusia affinis*, in relation to naiad predation. Texas A&M University Ecological Integration Symposium. (poster)

197. Evans[U], H., M. Booknis[U], N. Santee[G], H. Roberts[G], D. Smith, and **J.S. Perkin**. 2023. Mesohabitat and macroecological correlates for Blue Sucker (*Cycleptus elongatus*) occurrence in regulated rivers. Texas A&M University Ecological Integration Symposium. (poster)
196. Stevens[U], L. Z.R. Steffensmeier[G], K.B. Mayes, and **J.S. Perkin**. 2023. Quantifying movement of seven imperiled pelagic-broadcast spawning fishes in three Great Plains rivers. Texas A&M University Ecological Integration Symposium. (poster)
195. Mangold[G], R.D., L.C. Elkins[G], C. Saltus, R. Johansen, and **J.S. Perkin**. 2023. Multiscale stream fish species-discharge relationships: The relative roles of evenness, density, and spatial aggregation. Texas A&M University Ecological Integration Symposium. (poster)
194. **Perkin, J.S.** 2023. Addressing uncertainty in fish assemblage responses to increased stream drying. Plenary talk at Colorado-Wyoming Chapter of the American Fisheries Society Meeting, Fort Collins, Colorado.
193. Roberts[G], H.C., P.T. Bean, K. W. Conway, G.A. Volker, H.L. Bart, and **J.S. Perkin**. 2023. Morphological divergence of an undescribed catostomid, the Llano River Carpsucker (*Carpiodes* sp. cf. *carpio*) in the Colorado River basin of Texas. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas.
192. Blanchard[G]. R., C. Roberts, S. Young, T. DeWitt, and **J.S. Perkin**. 2023. Predictability and conceptual repeatability of the predator associated burst speed body shape in independently evolved populations of Western Mosquitofish. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas.
191. Wolff[U], J., L.C. Elkins[G], J.E. Pease, T.B. Grabowski, P.T. Bean, N.G. Smith, and **J.S. Perkin**. 2023. Multiple tracking methods reveal Guadalupe Bass dispersal is consistent with the restricted movement paradigm. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas.
190. Ellard[U], J.K., H.C. Roberts[G], D.J. Daugherty, P.B. Fleming, and **J.S. Perkin**. 2023. A multiscale conceptual framework to predict movement and habitat associations of an imperiled megafish, the Alligator Gar (*Atractosteus spatula*). Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas.
189. Santee[G], N.S., K.W. Conway, W.H. Nowlin, D. Smith, and **J.S. Perkin**. 2023. Testing responsiveness of stream fish functional traits to anthropogenic riverscape alterations. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas.
188. Elkins[G], L.C., R. Mangold[G], M. Perez Rocha, A. Schwalb, B. Schwartz, W.H. Nowlin, K. Cottenie, C. Saltus, R. Johansen, D. Smith, and **J.S. Perkin**. 2023. Testing the cold-water climate shield model with stream fishes in the middle Colorado River of Texas. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas.
187. **Perkin, J.S.** 2023. Addressing uncertainty in fish assemblage responses to increased stream drying. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas. (poster)
186. Evans[U], H., M. Booknis[U], N. Santee[G], H. Roberts[G], D. Smith, and **J.S. Perkin**. 2023. Mesohabitat and macroecological correlates for Blue Sucker (*Cycleptus elongatus*) occurrence in regulated rivers. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas. (poster)

185. Mangold[G], R.D., L.C. Elkins[G], C. Saltus, R. Johansen, and **J.S. Perkin**. 2023. Multiscale stream fish species-discharge relationships: The relative roles of evenness, density, and spatial aggregation. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas. (poster)
184. Stevens[U], L. Z.R. Steffensmeier[G], K.B. Mayes, and **J.S. Perkin**. 2023. Quantifying movement of seven imperiled pelagic-broadcast spawning fishes in three Great Plains rivers. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas. (poster)
183. Bean, M.G., D. Lutz-Carrillo, J. Hatt, B. Ferguson, **J.S. Perkin**, and S. Parker. 2023. Assessment of Headwater Catfish (*Ictalurus lupus*) genetics in Texas & New Mexico. Texas Chapter of the American Fisheries Society Meeting, Corpus Christi, Texas. (poster)

2022

182. **Perkin, J.S.**, L.C. Elkins[G], R. Mangold, M. Perez Rocha, A. Schwalb, B. Schwartz, W.H. Nowlin, K. Cottenie, C. Saltus, R. Johansen, and D. Smith. 2022. Fish Assemblage Structure Along an Existing Aridity Gradient Mirrors Future Assemblage Projections Under Climate Change Scenarios. Desert Fishes Council Meeting, St. George, Utah.
181. Elkins[G], L.C, M.R. Acre, M.G. Bean, S.M. Robertson, R. Smith, and **J.S. Perkin**. 2022. Walking a Fine Line: Miniature Distance Sampling Reveals Greater Abundance of Imperiled Conchos Pupfish in Marginal Habitats. Desert Fishes Council Meeting, St. George, Utah.
180. Bean, M.G., D. Lutz-Carrillo, J. Hatt, B. Ferguson, **J.S. Perkin**, and S. Parker. 2022. Assessment of Headwater Catfish (*Ictalurus lupus*) genetics in Texas & New Mexico. Desert Fishes Council Meeting, St. George, Utah. (poster)
179. Bean, M.G., P. Bean, D. Chilleri, R. Mollenhauer, **J.S. Perkin**, and M. Acre. The Development & Feasibility of Using Camera Traps to Monitor Pupfish Populations. 2022. Desert Fishes Council Meeting, St. George, Utah. (poster)
178. Wolf[U], J., L.C. Elkins[G], **J.S. Perkin**, J.E. Pease, T.B. Grabowski, P.T. Bean, and N.G. Smith. Guadalupe Bass (*Micropterus treculii*) movement is predictable: Implications for conservation. Texas Chapter American Fisheries Society Meeting, Hunt, Texas.
177. **Perkin, J.S.**, M.R. Acre, J.K. Ellard[U], A.W. Rodger, J.F. Trungale, K.O. Winemiller, and L.E. Yancy[U]. 2022. Flow-recruitment relationships for Shoal Chub (*Macrhybopsis hyostoma*) and implications for managing environmental flows. Texas Chapter American Fisheries Society Meeting, Hunt, Texas.
176. Nguyen[G], E., **J.S. Perkin**, K.B. Mayes, J.F. Trungale, and R. Smith.2022. Drier and dire: Ecological forecasting and conservation contingency planning for imperiled Great Plains fishes in Texas. Texas Chapter American Fisheries Society Meeting, Hunt, Texas.
175. Steffensmeier[G], Z.R., **J.S. Perkin**, S.K. Brewer, T. Rodger, T. Starks, M. Wedgeworth, and N. Nguyen[G]. 2022. Delineating the fundamental versus realized niche of prairie chub. Texas Chapter American Fisheries Society Meeting, Hunt, Texas.
174. Elkins[G], L.C. M.R. Acre, M.G. Bean, S.M. Robertson, R. Smith, and **J.S. Perkin**. 2022. Going the distance: Multiscale assessment of Conchos Pupfish (*Cyprinodon eximius*)

abundance and distribution in West Texas. Texas Chapter American Fisheries Society Meeting, Hunt, Texas.

173. Ellard[U], J.K., H.C. Roberts, D.J. Daugherty, P. Flemming, and **J.S. Perkin**. 2022. Multiscale movement and habitat associations for Alligator Gar (*Atractosteus spatula*). Texas Chapter American Fisheries Society Meeting, Hunt, Texas.
172. Shepta[G], E., **J.S. Perkin**, K.B. Mayes, and C.G. Montaña. 2022. Assessing the Texas live bait industry as a pathway of introduction for two invasive cyprinodontids. Texas Chapter American Fisheries Society Meeting, Hunt, Texas.
171. Winemiller, K.O., **J.S. Perkin**, G. Moore, A. Trimble, A. Schwalb, T. Hardy, D. Hoeinghaus, C. Reeves, J.F. Trungale, and D. Buzan. 2022. Methods for establishing flow-ecology relationships useful for validating environmental flow standards for Texas rivers. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
170. Mangold[U], R., L.C. Elkins[G], **J.S. Perkin**. 2022. Does spatial location matter when estimating stream fish richness? A test of spatially constrained rarefaction in the Colorado River Basin, Texas. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
169. Roberts[G], H.C., M.R. Acre, M. Claus[G], F.J. Kappen[G], K.O. Winemiller, D.J. Daugherty, and **J.S. Perkin**. 2022. A trip up the tributary: Affluent streams provide floodplain access for Alligator Gar in a regulated river. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
168. Riggins, C.L., A. Hay[U], T.C. Heard, C. Garoutte, Y. Rodriguez, F. Fillipone, K.K. Smith, N. Menchaca, J. Williamson, and **J.S. Perkin**. 2022. Movement and mortality of invasive suckermouth armored catfish during a spearfishing control experiment. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
167. Shepta[G], E., **J.S. Perkin**, K.B. Mayes, and C.G. Montaña. 2022. Ecological niche similarities between native (*Cyprinodon rubrofluviatilis* and *Fundulus zebrinus*) and invasive (*C. variegatus* and *F. grandis*) Cyprinodontids in Texas Streams: Evidence from Morphology, Diet, and Stable Isotope Analysis. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
166. Nguyen[G], E., **J.S. Perkin**, K.B. Mayes, J.F. Trungale, and R. Smith. 2022. The duality of drought: Pelagic- and benthic-spawning stream fishes show opposing responses to drought in the southern Great Plains. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
165. Rodriguez, Y., C. Garoutte, T.C. Heard, C. Riggins, W. Arend[U], R. Mangold[U], **J.S. Perkin**. 2022. Piercing and patching the armor: Assessment of abdominal incision closure and healing during transmitter insertion on invasive suckermouth armored catfish. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
164. Arend[U], W., C. Garoutte, T.C. Heard, R. Mangold[U], Y. Rodriguez, C.L. Riggins, and **J.S. Perkin**. 2022. Testing for sexual dimorphism in an invasive population of Suckermouth Armored Catfish. Texas Chapter American Fisheries Society Meeting, Hunt, Texas. (poster)
163. Perez Rocha, M., K. Cottenie, K. Cline, L.C. Elkins, R. Mangold, Z. Mitchell, J.S. Perkin, W.H. Nowlin, A.N. Schwalb. 2022. Differential responses of riverine communities to environmental heterogeneity: a multi-taxon approach across different spatial scales. Joint Aquatic Sciences Meeting, Grand Rapids, Michigan.

162. Roberts[G], H.C., M.R. Acre, M. Claus[G], F.J. Kappen[G], K.O. Winemiller, D.J. Daugherty, and **J.S. Perkin**. 2022. A trip up the tributary: Affluent streams provide floodplain access for Alligator Gar in a regulated river. Texas A&M University Ecological Integration Symposium, College Station, Texas.
161. Wolf[U], J., L.C. Elkins[G], **J.S. Perkin**, J.E. Pease, T.B. Grabowski, P.T. Bean, and N.G. Smith. Guadalupe Bass (*Micropterus treculii*) movement is predictable: Implications for conservation. Texas A&M University Ecological Integration Symposium, College Station, Texas.
160. Ellard[U], J.K., H.C. Roberts[G], D.J. Daugherty, and **J.S. Perkin**. 2021. Assessing Fine-Scale Movement of Alligator Gar in the Lower Brazos River Basin. Texas A&M University Ecological Integration Symposium, College Station, Texas.

2021

159. **Perkin, J.S.**, M.R. Acre, and M.G. Bean. 2021. Multiple survey methods reveal greater abundance of endangered pupfish in restored habitats. Desert Fishes Council Virtual Meeting.
158. Elkins[G], L.C., M.R. Acre, M.G. Bean, S.M. Robertson, R.K. Smith, and J.S. Perkin. 2021 Going the Distance: Multiscale Assessment of Conchos Pupfish (*Cyprinodon eximius*) Abundance and Distribution in West Texas. Desert Fishes Council Virtual Meeting.
157. Nguyen[G], E., **J.S. Perkin**, R. Smith, K.B. Mayes, J. Trungale. 2021. Characteristics of the natural flow regime paradigm explain occurrence of imperiled Great Plains fishes. National American Fisheries Society Meeting, Baltimore, Maryland. (poster)
156. Roberts[G], H.C., J.S. Perkin, M.R. Acre, D.J. Daugherty, F.J. Kappen, M.P.A. Claus, and D.L. Buckmeier. 2021. Patterns and predictors of Alligator Gar movement across mainstem-tributary ecotones. National American Fisheries Society Meeting, Baltimore, Maryland.
155. Elkins[G], L.C., M.R. Acre, M.G. Bean, S.M. Robertson, R.K. Smith, and **J.S. Perkin**. 2021 Going the Distance: Multiscale Assessment of Conchos Pupfish (*Cyprinodon eximius*) Abundance and Distribution in West Texas. National American Fisheries Society Meeting, Baltimore, Maryland.
154. Yancy[U], L.E., N.S. Santee[U], and **J.S. Perkin**. 2021. Theoretical models as spatial proxies for stream fish metacommunities in a fragmented stream network. National American Fisheries Society Meeting, Baltimore, Maryland.
153. Wolff[U], J.P., L.C. Elkins[G], **J.S. Perkin**, J.E. Pease, T. B. Grabowski, P.T. Bean, and N.G. Smith. Guadalupe Bass (*Micropterus treculii*) Movement is Predictable: Implications for Conservation. National American Fisheries Society Meeting, Baltimore, Maryland. (poster)
152. Ellard[U], J.K., H.C. Roberts[G], D.J. Daugherty, and **J.S. Perkin**. 2021. Assessing Fine-Scale Movement of Alligator Gar in the Lower Brazos River Basin. National American Fisheries Society Meeting, Baltimore, Maryland. (poster)
151. Binkley[U], H.R., K.W. Conway, A. Best, and **J.S. Perkin**. 2021. Ecology of an Introduced Population of Gangetic Swamp Eel (*Ophichthys cuchia*) in Texas. National American Fisheries Society Meeting, Baltimore, Maryland. (poster)

150. Yancy[U], L., N.S. Santee[U], E. Parker[U], and **J.S. Perkin**. 2021. Longitudinal fragmentation of stream fish metacommunities. Texas Chapter of the American Fisheries Society Virtual Meeting.
149. Hay[U], A., **J.S. Pekin**, T.C. Heard, C. Riggins, C. Garoutte, Y. Rodrigquez, F. Fillipone, K. Kollaus, N. Menchaca, and J. Williamson. 2021. Movement and survival of invasive suckermouth armored catfish within the San Marcos River. Texas Chapter of the American Fisheries Society Virtual Meeting.
148. Roberts[G], H., J.S. Perkin, M. Acre, D. Daugherty, F. Kappen, M. Claus. 2021. Patterns and predictors of Alligator Gar movement across mainstem-tributary ecotones. Texas Chapter of the American Fisheries Society Virtual Meeting.
147. Nguyen[G], E., **J.S. Perkin**, K. Mayes, R. Smith, J. Trungale. 2021. Characteristics of the natural flow regime paradigm explain occurrence of imperiled Great Plains fishes. Texas Chapter of the American Fisheries Society Virtual Meeting.
146. Parker[G], S. D., **J.S. Perkin**, M.G. Bean, D. Lutz-Carrillo, M.R. Acre. 2021. Temporal distribution modelling reveals upstream habitat drying and downstream non-native introgression are squeezing out an imperiled headwater fish. Texas Chapter of the American Fisheries Society Virtual Meeting.
145. Shepta[G], E., J.S. Perkin, K.B. Mayes, and C.G. Montana. 2021. Insights on the establishment of the invasive Sheepshead Minnow (*Cyprinodon variegatus*) in the Brazos River. Texas Chapter of the American Fisheries Society Virtual Meeting.
144. Acre, M.R., **J.S. Perkin**, M.G. Bean. 2021. Multiple survey methods reveal greater abundance of endangered pupfish in restored habitats. Texas Chapter of the American Fisheries Society Virtual Meeting.
143. **Perkin, J.S.**, C.S. Blanton[U], N. Menchaca, K.A. Kollaus. 2021. A gap in the armor: Spearfishing reduces biomass of invasive suckermouth armored catfish. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
142. Santee[U], N.S., L.E. Yancy[U], Z.R. Steffensmeieir[G], and **J.S. Perkin**. 2021. Testing restricted movement of plains killifish (*Fundulus zebrinus*). Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
141. Tschirhart[U], C., and **J.S. Perkin**. 2021. Standard weight analysis of largemouth bass in Texas A&M University's Aquacultural Research and Teaching Facility reservoir. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
140. Ellard[U], J., H. Roberts[G], M. Acre, F. Kappen[G], M. Claus[G], D. Daugherty, and **J.S. Perkin**. 2021. Assessing Alligator Gar diel activity in the lower Brazos River basin. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
139. Stinebaugh[U], W., C. Cottar[U], L. Yancy[U], **J.S. Perkin**, and A. Best. 2021. Spatially constrained rarefaction to estimate fish species richness in reservoir environments. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
138. Stearns[G], S., and **J.S. Perkin**. 2021. Spatial scales of inference from stream fish standard sampling protocols. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
137. Kappen[G], F., **J.S. Perkin**, M. Claus[G], H. Roberts[G], M.R. Acre, D. Daugherty, and D. Buckmeier. 2021. Megafish Movement: Testing Stream Fish Movement Paradigms using Alligator Gar. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)

136. Elkins[G], L., M.R. Acre, **J.S. Perkin**, S.D. Parker[G], M.G. Bean, S. Robertson, and R. Smith. 2021. Going the distance: multiscale assessment of Conchos Pupfish (*Cyprinodon eximius*) abundance and distribution in West Texas. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)
135. Nguyen[G], E., H.H. Wang, W.E. Grant, and **J.S. Perkin**. 2021. Modeling fish metacommunities in intermittent streams. Texas Chapter of the American Fisheries Society Virtual Meeting. (poster)

2020

134. **Perkin, J.S.**, Z.R. Steffensmeier[G], and K. Gido. 2020. Testing the Compensatory Upstream Spawning Paradigm with Silver Chub (*Macrhybopis storeriana*) in a Great Plains Riverscape. American Fisheries Society Virtual Meeting.
133. Nguyen[G], E., **J.S. Perkin**, R. Smith, K. Mayes, and J. Trungale. 2020. Harnessing the Natural Flow Regime Paradigm for Chub Conservation. American Fisheries Society Virtual Meeting.
132. Roberts[G], H.C., **J.S. Perkin**, M.R. Acre, D. Daugherty, M. Claus, and F. Kappen. 2020. Movement Behavior and Mainstem Versus Tributary Habitat Use of Alligator Gar across Multiple Spatial Scales American Fisheries Society Virtual Meeting.
131. Steffensmeier[G], Z.R., **J.S. Perkin**, and S.K. Brewer. 2020. Movement of Prairie Chub: A Great Plains Endemic Pelagic-Broadcast Spawner. American Fisheries Society Virtual Meeting.
130. Yancy[U], L., and **J.S. Perkin**. 2020. Diel Fluctuations in Comanche Springs Pupfish Abundances in San Solomon Springs, Balmorhea State Park. American Fisheries Society Virtual Meeting. (poster)
129. Steffensmeier[G], Z.R., **J.S. Perkin**, S.K. Brewer. 2020. Movement ecology of Red River Endemic Prairie Chub. Texas Chapter American Fisheries Society, Waco, TX.
128. Madewell[U], M.J., F. Chavez[U], **J.S. Perkin**. 2020. Here today, gone tomorrow: Assessing changes in stream fish assemblage structure in relation to habitat fluctuations. Texas Chapter American Fisheries Society, Waco, TX.
127. Nguyen[G], E., **J.S. Perkin**, K.B. Mayes, R. Smith, J. Trungale. 2020. Do components of the natural flow regime predict occurrence of imperiled Great Plains fishes? Texas Chapter American Fisheries Society, Waco, TX.
126. Troia, M.J., and **J.S. Perkin**. 2020. Assessing climate change vulnerability of Guadalupe Bass (*Micropterus treculii*): comparing bioenergetics and species distribution modeling. Texas Chapter American Fisheries Society, Waco, TX.
125. Yancy[U], L., M.R. Acre, and **J.S. Perkin**. 2020. Diel fluctuations in Comanche Springs Pupfish abundances in San Solomon Springs, Balmorhea State Park. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)
124. George[G], S.D., M.G. Bean, M.R. Acre, and **J.S. Perkin**. 2020. Conservation biogeography of Headwater Catfish (*Ictalurus lupus*) in the United States. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)
123. Acre, M.R., M.G. Bean, S. Robertson, and **J.S. Perkin**. 2020. Hands-off: A visual approach to monitoring a threated pupfish. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)

122. Stinebaugh[U], W., C. Cottar[U], L. Yancy[U], and **J.S. Perkin**. 2020. Assessing fish assemblage structure in Lake Conroe using rarefaction and electrofishing. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)
121. Ellis[U], M., L. Yancy[U], W. Stinebaugh[U], and **J.S. Perkin**. 2020. A student's perspective on fisheries management. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)
120. Chavez[U], F., M.J. Madewell[U], and **J.S. Perkin**. 2020. A riverscape divided: Longitudinal change in fish community structure in White Creek, College Station, TX. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)
119. Mattox, G.M.T., K.W. Conway, K. Montana, and **J.S. Perkin**. 2020. Fish assemblage structure in leaflitter patches in the Jacunda River, Lower Amazon. Texas Chapter American Fisheries Society, Waco, TX. (poster presentation)

2019

118. Acre, M.R., **J.S. Perkin**, and M.S. Bean. 2019. Tradeoffs in spatially structured abundance estimates for endangered Comanche Springs Pupfish using hotspot analysis and N-mixture modelling. Joint Meeting of the American Fisheries Society and The Wildlife Society, Reno, NV.
117. George[G], S.D., **J.S. Perkin**, M.S. Bean, and D. Lutz-Carrillo. 2019. Conservation biogeography of Headwater Catfish (*Ictalurus lupus*) in the United States. Desert Fishes Council, Alpine, TX.
116. **Perkin, J.S.**, and M.J. Troia. 2019. Conservation status of Chihuahuan Desert fishes in the United States: A spatial perspective. Desert Fishes Council, Alpine, TX.
115. Acre, M.R., **J.S. Perkin**, and M.S. Bean. 2019. Spatial structure and survey method influence population estimates for endangered Comanche Springs Pupfish. Desert Fishes Council, Alpine, TX.
114. **Perkin, J.S.**, N.E. Knorp, T.C. Boersig, A.E. Gebhard[G], L.A. Hix, T.C. Johnson. 2019. Life history theory predicts long-term fish assemblage response to stream impoundment. Southern Division American Fisheries Society, Galveston, TX.
113. George[G], S.D., and **J.S. Perkin**. 2019. Habitat conservation priorities for headwater catfish in West Texas. Southern Division American Fisheries Society Meeting, Galveston, TX.
112. Conway, K.W., A. Pinion[G], S.D. George[G], **J.S. Perkin**. 2019. First record of the Conchos Shiner *Cyprinella Panarcys* (Hubbs & Miller, 1978) from the mainstem of the Rio Grande along the Us-México Border. Southern Division American Fisheries Society, Galveston, TX.
111. Mayes, K.B., **J.S. Perkin**, G. Wilde. 2019. State wildlife action plan case study: Conservation of prairie rivers and native fishes in the southern Great Plains of Texas. Southern Division American Fisheries Society, Galveston, TX.
110. Corrington[U], C., and **J.S. Perkin**. 2019. Spot-on: using natural markers to identify individual shoal chub (*Macrhybopsis hyostoma*) for mark-recapture studies. Southern Division American Fisheries Society, Galveston, TX. (poster)

109. Ecker[U], J.K., S.D. George[G], **J.S. Perkin**. 2019. Size structure of an introgressed pupfish (Cyprinodon pecosensis x variegatus) population in West Texas. Southern Division American Fisheries Society Meeting, Galveston, TX. (poster)
108. Madewell[U], M.J., F. Chavez[U], **J.S. Perkin**. 2019. A riverscape divided: longitudinal change in fish community structure in White Creek, College Station, TX. Southern Division American Fisheries Society Meeting, Galveston, TX. (poster)
107. Nguyen[G], E., and **J.S. Perkin**. 2019. Flow chart: A conceptual framework for discovering flow-ecology relationships. Southern Division American Fisheries Society Meeting, Galveston, TX. (poster)

2018

106. **Perkin, J.S.**, J.C. Wellemeyer[G], and J.A. Fore. 2018. Multiscale, community-level fish distribution modeling to guide riverscape conservation planning. American Fisheries Society, Atlantic City, NJ.
105. George[G], S.D., and **J.S. Perkin**. 2018. Evaluating fish community change in arid and semi-arid riverscapes using historical data and a contemporary model. American Fisheries Society, Atlantic City, NJ. (poster)
104. Loveland[U], R., J. Hietikko[U], and **J.S. Perkin**. 2018. Hypothesis development and testing to describe movement ecology of alligator gar (*Atractosteus spatula*). American Fisheries Society, Atlantic City, NJ. (poster)
103. Madewell[U], M., F. Chavez[U], and **J.S. Perkin**. 2018. A riverscape divided: longitudinal change in fish community structure associated with barriers to dispersal. American Fisheries Society, Atlantic City, NJ. (poster)
102. Corrington[U], C., and **J.S. Perkin**. 2018. Spot-on: using natural markers to identify individual shoal chub (*Macrhybopsis hyostoma*) for mark-recapture studies. American Fisheries Society, Atlantic City, NJ. (poster)
101. **Perkin, J.S.**, J.E. Pease[G], T.B. Grabowski. 2018. Loiterers, leavers, and leptokurtosis: synthesizing movement ecology of Guadalupe Bass *Micropterus treculii*. Texas Chapter American Fisheries Society Meeting, College Station, TX.
100. Madewell[U], M.J., F. Chavez[U], **J.S. Perkin**. 2018. A riverscape divided: longitudinal change in fish community structure in White Creek, College Station, TX. Texas Chapter American Fisheries Society Meeting, College Station, TX. (poster)
99. Papraniku[G], I.F., D. Walker, **J.S. Perkin**. 2018. Impact of water fluctuations and intermittency on stream fish community structure. Tennessee Chapter American Fisheries Society Meeting, Knoxville, TN.

2017

98. Dorn[G], T., C.H. Costigan, **J.S. Perkin**. 2017. Broad- and local-scale geologic influences on intermittency in Tennessee streams. American Geophysical Union Meeting, New Orleans, LA. (poster)
97. Malone[G], E.W., **J.S. Perkin**, B.M. Leckie, M.A. Kulp, C.R. Hurt, D.M. Walker. 2017. Prioritizing native fish reintroductions in the Great Smoky Mountains National Park. Southeastern Fishes Council Meeting, Chattanooga, TN. (oral presentation)

96. Gibbs, W.K., **J.S. Perkin**, J.L. Ridgeway[G], S.B. Cook. 2017. Range reduction and restoration of spotfin chub, *Erimonax monachus*. Southeastern Fishes Council Meeting, Chattanooga, TN. (oral presentation)
95. Papraniku[G], I.F., T. Slalge[U], G. Shin[U], R. Conradi[U], D. Walker, **J.S. Perkin**. 2017. Impact of water fluctuations and intermittency on stream fish community structure. Southeastern Fishes Council Meeting, Chattanooga, TN. (poster presentation)
94. Murphy[U], S.P., W.J. Curtis[U], A.E. Gebhard[G], J.C. Wellemeyer[G], C. Underwood[U], **J.S. Perkin**. 2017. Testing diel fish migrations between riffle-pool habitats. Southeastern Fishes Council Meeting, Chattanooga, TN. (poster presentation)
93. Papraniku[G], IF, **J.S. Perkin**, D. Walker. 2017. Impact of water fluctuations and intermittency on stream biota and community structure. Tennessee-Kentucky Branch American Society of Microbiology Meeting, Cookeville, TN. (oral presentation)
92. Wellemeyer[G], J.C., **J.S. Perkin**, J. Fore, J. Wisby, M. Clark, and C. Boyd. 2017. Development of Fish Community Indices of Biotic Integrity for West Tennessee streams. West TN Water Resources Symposium, Jackson, TN.
91. Slagle[U], T.J., W.J. Curtis[U], N. Goodman[U], and **J.S. Perkin.** 2017. Spatial and Temporal Variability of Fish Assemblage Structure in the Roaring River, Tennessee. Tennessee Tech University Creative Inquiry and Research Day, Cookeville, TN. (poster).
90. Murphy[U], S.P., W.J. Curtis[U], A.E. Gebhard[G], J.C. Wellemeyer[G], and **J.S. Perkin**. 2017. Testing Diel Fish Migrations between Riffle-Pool Habitats. Tennessee Tech University Creative Inquiry and Research Day, Cookeville, TN. (poster).
89. Underwood[U], C.D., W.J. Curtis[U], A.E. Gebhard[G], J.C. Wellemeyer[G], and **J.S. Perkin**. 2017. Diel Fish Community Turnover in Riffle Habitats. Tennessee Tech University Creative Inquiry and Research Day, Cookeville, TN. (poster).
88. Wellemeyer[G], J.C., **J.S. Perkin**, J. Fore, J. Wisby, M. Clark, and C. Boyd. 2017. Comparing Fish Community Biotic Integrity Metrics across Regions of Western Tennessee: Does One IBI Fit All? TN American Fisheries Society Meeting, Knoxville, TN.
87. Malone[G], E., **J.S. Perkin**, C. Hurt, M. Kulp, B. Leckie, and D. Walker. 2017. Restoring Ecosystem Function to Abrams Creek by Reintroducing Three Native Fishes. TN American Fisheries Society Meeting, Knoxville, TN.
86. Curtis[U], W.J., A.E. Gebhard[G], and **J.S. Perkin**. 2017. The river continuum concept predicts prey community structure for an insectivorous fish. TN American Fisheries Society Meeting, Knoxville, TN.
85. Slagle[U], T.J., W.J. Curtis[U], N. Goodman[U], and **J.S. Perkin.** 2017. Spatial and Temporal Variability of Fish Assemblage Structure in the Roaring River, Tennessee. TN American Fisheries Society Meeting, Knoxville, TN. (poster).
84. Murphy[U], S.P., W.J. Curtis[U], A.E. Gebhard[G], J.C. Wellemeyer[G], and **J.S. Perkin**. 2017. Testing Diel Fish Migrations between Riffle-Pool Habitats. TN American Fisheries Society Meeting, Knoxville, TN. (poster).
83. Underwood[U], C.D., W.J. Curtis[U], A.E. Gebhard[G], J.C. Wellemeyer[G], and **J.S. Perkin**. 2017. Diel Fish Community Turnover in Riffle Habitats. TN American Fisheries Society Meeting, Knoxville, TN. (poster).
82. Papraniku[G], I.F., **J.S. Perkin**, K. Gibbs, T.J. Slagle[U], D. Roysdon[U], B. Jones[U], C. Hall[U], D.M. Walker. 2017. Impact of water fluctuation and intermittency on stream fish

community structure. TN American Fisheries Society Meeting, Knoxville, TN. (poster).

81. Gebhard[G], A.E., **J.S. Perkin**, T.C. Boersig[G], , L.A. Hix[G], T.C. Johnson[G], and N.E. Knrop[G]. 2017. Life History Theory Predicts Long-Term Fish Assemblage Response to Impoundment Construction. Dakota Chapter American Fisheries Society Meeting, Jamestown, ND.

2016

80. Gebhard[G], A.E., and **J.S. Perkin**. 2016. Banded Sculpin (*Cottus carolinae*) life history trait variation across a stream size gradient. American Fisheries Society, Kansas City, MO.
79. Wellemeyer[G], J.C., **J.S. Perkin**, M.L. Jameson, K.H. Costigan, R. Waters. 2016. Hierarchy theory reveals multiscale threats to Arkansas Darter (*Etheostoma cragini*) in modified Great Plains riverscapes. American Fisheries Society, Kansas City, MO.
78. Malone[G], E., **J.S. Perkin**, K.Gibbs, M. Padgett[G], and M. Kulp. 2016. High and dry: Regional drought regimes regulate fish community structure in Appalachian mountain streams. American Fisheries Society, Kansas City, MO.
77. Curtis[U], W., A. Gebhard[G], and **J.S. Perkin.** 2016. Trophic ecology of Banded Sculpin (*Cottus carolinae*) across a stream size gradient in Tennessee. American Fisheries Society, Kansas City, MO. (poster)
76. Gebhard[G], A.E., W.G. Wells[G], T.C. Johnson[G], , R.T.R. Paine[G], L.A. Hix[G], H.N. Ferrel[G], A.N. Engle[G], and **J.S. Perkin**. 2016. March of the sculpin: measuring and predicting short-term movement of Banded Sculpin *Cottus carolinae*. American Fisheries Society, Kansas City, MO. (poster)
75. **Perkin, J.S.**, K.B.Gido, J. Falke, K. Fausch, H. Crockett, E. Johnson, J. Sanderson. 2016. The ecological consequences of groundwater depletion in Great Plains riverscapes. American Fisheries Society, Kansas City, MO.
74. **Perkin, J.**S., K.B. Gido, K. Costigan, M. Daniels, and E. Johnson. 2016. Fragmentation and drying ratchet down Great Plains stream fish diversity. American Fisheries Society, Kansas City, MO.
73. Brewer, S.K., T.A. Worthington, N. Farless, D. Logue, J. Dyer, **J.S. Perkin** and T. Echelle. 2016. Threats to pelagic-broadcast spawning cyprinids. American Fisheries Society, Kansas City, MO.
72. **Perkin, J.S.** 2016. Rubber bands and ratchets: why does it take so much MacGyvering to establish a long-term fish community study? Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.
71. Gebhard[G], A.E., W.G. Wells[G], T.C. Johnson[G], R.T.R. Paine[G], L.A. Hix[G], H.N. Ferrel[G], A.N. Engle[G], and **J.S. Perkin**. 2016. Loiters, leavers, and leptokurtosis: measuring and predicting short-term movement of banded sculpin *Cottus carolinae* in Tennessee. TN American Fisheries Society Meeting, Montgomery Bell State Park, TN.
70. Wellemeyer[G], J., **J.S. Perkin**, J. Fore, J. Wisby. 2016. Watershed threats to fish communities in agriculturally dominated landscapes of West Tennessee. TN American Fisheries Society Meeting, Montgomery Bell State Park, TN.

69. Grandstaff[G], E., **J.S. Perkin**, T. Roberts, and H. Mattingly. 2016. A GIS tool for prioritizing dams for removal within the Tennessee and Cumberland rivers. TN American Fisheries Society Meeting, Montgomery Bell State Park, TN.
68. Curtis[U], W., A.E. Gebhard[G], and **J.S. Perkin**. Trophic dynamics of Banded Sculpin (Cottus carolinae) across a stream size gradient in Tennessee. TN American Fisheries Society Meeting, Montgomery Bell State Park, TN. (poster)
67. Stephenson[U], K., A.E. Gebhard[G], J. Wellemeyer[G], and **J.S. Perkin**. 2016. Testing predator control of Banded Sculpin (*Cottus carolinae*) distribution in the Blackburn Fork watershed, Tennessee. TN American Fisheries Society Meeting, Montgomery Bell State Park, TN. (poster)
66. Tankersley[U], Z, A.E. Gebhard[G], J.C. Wellemeyer[G], K. Gibbs, and **J.S. Perkin**. 2016. Forty years of fish community change in the Blackburn Fork watershed, Tennessee. TN American Fisheries Society Meeting, Montgomery Bell State Park, TN. (poster)
65. Fausch, K.D., **J.S. Perkin**, K.B. Gido, J.A. Falke, H.J. Crockett, J.S. Sanderson, and E.R. Johnson. 2016. Groundwater depletion in western Great Plains projected to dry 250 stream-km of fish habitat in the next 45 years. Joint meeting of Colorado-Wyoming American Fisheries Society, Laramie, WY.

2015

64. Falke, J.A., **J.S. Perkin**, K.B. Gido, H.J. Crockett, J.S. Sanderson, E.R. Johnson, and K.D. Fausch. 2015. Groundwater depletion in western Great Plains projected to dry 250 stream-km of fish habitat in the next 45 years. American Fisheries Society, Portland, OR.
63. Labay, B., **J.S. Perkin**, D. Hendrickson, and A.R. Cooper. 2015. Who's asking?: Inter-jurisdictional conservation assessment and planning for Great Plains fishes. American Fisheries Society, Portland, OR.
62. **Perkin, J.S.**, K.B. Gido, J.A. Falke, H.J. Crockett, J.S. Sanderson, E.R. Johnson, and K.D. Fausch. 2015. Groundwater depletion in western Great Plains projected to dry 250 stream-km of fish habitat in the next 45 years. Society for Freshwater Science Conference, Milwaukee, WI.
61. Brewer, S.K., T.A. Worthington, N. Farless, D. Logue, J. Dyer, **J.S. Perkin**, and T. Echelle. 2015. Threats to pelagic-broadcast spawning cyprinids. OK American Fisheries Society, Tulsa, OK.
60. **Perkin, J.S.**, T.C. Boersig[G], A.E. Gebhard[G], L.A. Hix[G], T.C. Johnson[G], and N.E. Knrop[G]. 2015. Life History Theory Predicts Long-Term Fish Assemblage Response to Impoundment Construction. Southeastern Fishes Council, Gainesville, FL.
59. Gebhard[G], A.E., Wells[G], W.G., T.C. Johnson[G], , R.T.R. Paine[G], L.A. Hix[G], H.N. Ferrel[G], A.N. Engle[G]., and **J.S. Perkin**. 2015. Loiterers, leavers, and leptokurtosis: measuring and predicting short-term movement of banded sculpin *Cottus carolinae* in Tennessee. Southeastern Fishes Council, Gainesville, FL.
58. Wellemeyer[G], C.J., **J.S. Perkin**, K.H. Costigan, and M.L. Jameson. 2015. Synthesizing multiscale processes regulating persistence of Arkansas Darter (*Etheostoma cragini*). Southeastern Fishes Council, Gainesville, FL.
57. Wells[G], W.G., T.C. Johnson[G], A.E. Gebhard[G], R.T.R. Paine[G], L.A. Hix[G], H.N. Ferrel[G], A.N. Engle[G], and **J.S. Perkin**. 2015. Measuring and predicting short-term movement

of Banded Sculpin *Cottus carolinae* in a second-order, upland stream in middle-Tennessee. TN Academy of Science, Murfreesboro, TN.

56. Wellemeyer[U], C.J., **J.S. Perkin**, and M.L. Jameson. 2015. Environmental associations of Arkansas Darter (*Etheostoma cragini*) after sterilization of a prairie stream. KS Academy of Science, Pittsburg, KS.
55. **Perkin, J.S.**, and E. Granstaff. 2015. Multi-scale prioritization of dam removals to benefit aquatic biodiversity in Tennessee. TN American Fisheries Society, Chattanooga, TN.
54. Wellemeyer[U], CJ, **J.S. Perkin**, and M.L. Jameson. 2015. Fish community structure and environmental associations of Arkansas Darter (*Etheostoma cragini*) one decade after human-induced sterilization of a Great Plains prairie stream. KS American Fisheries Society, Wichita, KS.
53. **Perkin, J.S.**, and J.N. Murdock. 2015. Modeling ecosystem effects of fishes across stream network gradients. Southern Division American Fisheries Society, Savannah, GA.
52. Worthington, T.A., S.K. Brewer, J.J. Dyer, N. Farless, D. Longue, R. Mollenhauer, and **J.S. Perkin**. 2015. Pelagic-broadcast spawning cyprinids: ecology and conservation opportunities. Southern Division American Fisheries Society, Savannah, GA.
51. Nowlin, W.H., C.L. Pray, A.P. Swink, and **J.S. Perkin**. 2015. Contributions of native and non-native fishes to nutrient cycling in a spring-fed river. Southern Division American Fisheries Society, Savannah, GA.

2014

50. **Perkin, J.S.**, K.B. Gido, T.F. Turner, M.J. Osborne. 2014. Multi-scale effects of stream fragmentation and dewatering on Great Plains fishes: community dynamics, species distributions, and genetic diversity. Joint Aquatic Science Meeting, Portland, OR.
49. **Perkin, J.S.**, K.B. Gido, K.H. Costigan, M.D. Daniels, and E.R. Johnson. 2014. Ratcheting down Great Plains fish communities. Southwest Association of Naturalist, Stillwater, OK.
48. **Perkin, J.S.**, K.B. Gido, K.H. Costigan, M.D. Daniels, T.F. Turner, M.J. Osborne, A.R. Cooper, E.R. Johnson, K.B. Mayes. 2014. Fish diversity loss among fragmented and dewatered riverscapes in the central Great Plains. Joint meeting of the Texas-Oklahoma Chapters of the American Fisheries Society, Pottsboro, TX.
47. **Perkin, J.S.**, K.B.Gido, K.H. Costigan, M.D. Daniels, T.F. Turner, M.J. Osborne, A.R. Cooper, E.R. Johnson, K.B. Mayes. 2014. Fish diversity loss among fragmented and dewatered riverscapes in the central Great Plains. Kansas Natural Resources Conference, Wichita, KS.

2013

46. **Perkin, J.S.**, and B.M. Pracheil. 2013. Threats and opportunities for fish habitat connectivity conservation in the Missouri River basin at multiple scales. American Fisheries Society, Little Rock, AR.
45. Gido, K.B., J.E. Whintney, **J.S. Perkin**, T.F. Turner. 2013. Ecological and evolutionary consequences of fragmentation of river networks. American Society of Ichthyologists and Herpetologists, Albuquerque, NM.

44. Curtis, S.G., **J.S. Perkin**, P.T. Bean, M.S. Sullivan, and T.H. Bonner. 2013. Guadalupe bass, *Micropterus treculii*. Southern Division American Fisheries Society, Nashville, TN. (poster).
43. **Perkin, J.S.**, Z.R. Shattuck, G.E. Gerken, and T.H. Bonner. 2013. Stream fragmentation and drought legacy determine distribution of burrhead chub in subtropical streams. TX American Fisheries Society, Lake Conroe, TX.

2012

42. **Perkin, J.S.**, K.B. Gido, K.H. Costigan, M.D. Daniels, and E. Johnson. 2012. Distribution of cyprinid fish reproductive guilds in a fragmented Great Plains Riverscape. American Fisheries Society, St. Paul, MN.
41. **Perkin, J.S.**, K.B. Gido, O. Al' Ta-Ani, and C. Scoglio. 2012. Structural connectivity predicts functional connectivity for fishes in fragmented dendritic ecological networks. American Fisheries Society, St. Paul, MN. (poster)
40. **Perkin, J.S.**, K.B. Gido, E.R. Johnson, T.F. Turner, M.J. Osborne, and K.B. Mayes. 2012. Stream fragmentation and desiccation as broad-scale drivers of fish decline in the Great Plains. Midwest Fish and Wildlife Meeting, Wichita, KS.
39. **Perkin, J.S.**, N. Dameyer, and T.H. Bonner. 2012. Long-term changes in water quality and fish assemblage composition in the Trinity River of Texas. TX American Fisheries Society, Galveston, TX.
38. **Perkin, J.S**., J.E. Gerken, Z.R. Shattuck, and T.H. Bonner. 2012. Life history and population status of burrhead chub (*Macrhybopsis marconis*) in the Western Gulf Slope drainages of Texas. TX American Fisheries Society, Galveston, TX.
37. **Perkin, J.S.**, and K.B. Gido. 2012. Effects of road crossings on the abundance and distribution of prairie stream fishes in Kansas. Kansas Natural Resources Conference, Wichita, KS.
36. Starks$^{U}$, T.A., **J.S. Perkin**, K.B. Gido, and E. Johnson. 2012. Spatial and temporal variation in the Ninnescah River fish assemblage. Kansas Natural Resources Conference, Wichita, KS. (poster).
34. Alexander$^{U}$, A.M., and **J.S. Perkin**. 2012. Feeding ecology of a relict cardinal shiner population in Kansas. Kansas Natural Resources Conference, Wichita, KS. (poster).
33. Shaw$^{U}$, D.C.R., **J.S. Perkin**, G.E. Gerken, and K.B. Gido. 2012. Influence of watershed impoundments on prairie stream fish assemblage structure. Kansas Natural Resources Conference, Wichita, KS.

2011

32. **Perkin, J.S.**, and K.B. Gido. 2011. Prairie stream fish community structure and related effects of semi-permeable barriers. American Fisheries Society, Seattle, WA.
31. **Perkin, J.S.**, and K.B. Gido. 2011. Stream fragmentation thresholds for a reproductive guild of Great Plains fishes. American Fisheries Society, Seattle, WA. (poster)
30. Dodds, W.K., J.E. Gerken, and **J.S. Perkin**. 2011. Human impact on freshwater systems scaled by relative influence on ecosystems goods and services. North American Benthological Society, Providence, RI.
29. **Perkin, J.S.**, and K.B. Gido. 2011. Great Plains fish community structure in prairie streams fragmented by road crossings. Oklahoma-Texas Aquatic Research Group, Lake Texoma, OK.

28. Shaw[U], D.C.R., **J.S. Perkin**, G.E. Gerken, and K.B. Gido. 2011. Effects of impoundments on prairie stream fishes. Southwestern Association of Naturalists, Tyler, TX.
27. **Perkin, J.S.**, and K.B. Gido. 2011. Stream fragmentation thresholds for a reproductive guild of Great Plains fishes. Kansas Academy of Science, Baldwin City, KS.
26. Shaw[U], D.C.R., **J.S. Perkin**, J.E. Gerken, and K.B. Gido. 2011. Effects of small impoundments on prairie stream fishes. Kansas State University Undergraduate Research Forum. (poster).
25. **Perkin, J.S.**, Z.R. Shattuck, and T.H. Bonner. 2011. Life history aspects of a relict ironcolor shiner population in a novel spring environment. TX American Fisheries Society, San Marcos, TX.
24. **Perkin, J.S.**, and K.B. Gido. 2011. Stream fragmentation thresholds for Great Plains pelagic-spawning fishes. TX American Fisheries Society, San Marcos, TX.
23. Kollaus, K.A., **J.S. Perkin**, R.A. Meyers, and T.H. Bonner. 2011. Feeding ecology of introduced smallmouth bass in the Devils River, Texas. TX American Fisheries Society, San Marcos, TX.
22. **Perkin, J.S.**, and K.B. Gido. 2011. Stream fragmentation thresholds for Great Plains pelagic-spawning fishes. Kansas Natural Resources Conference, Wichita, KS.
21. Shaw[U], D.C.R., **J.S. Perkin**, and K.B. Gido. 2011. Effects of impoundments on prairie stream fishes. Kansas Natural Resources Conference, Wichita, KS.
20. Maine[U], J., A. Alexander, J. Rezek, D. Shaw, J. Fischer, J. Gerken, and **J.S. Perkin**. 2011. Spatiotemporal patterns in the fish community of a connected floodplain pond. Kansas Natural Resources Conference, Wichita, KS. (poster)

2010

19. **Perkin, J.S.**, and K.B. Gido. 2010. Status of pelagic-spawning cyprinid communities within fragmented Great Plains Prairie Streams of North America. American Fisheries Society, Pittsburgh, PA.
18. **Perkin, J.S.**, and K.B. Gido. 2010. Effects of fragmentation on fish distribution and community structure in Great Plains prairie stream networks. North American Benthological Society, Santa Fe, NM.
17. **Perkin, J.S.**, and K.B. Gido. 2010. Riverscape fragmentation, hydrologic alteration, and decline of pelagic-spawning fishes in the Great Plains of North America. The Southwestern Association of Naturalists, Junction, TX.
16. **Perkin, J.S.**, and K.B. Gido. 2010. Influence of hydrologic alteration and riverscape fragmentation on distribution and abundance of plains minnow *Hybognathus placitus*. Midwest Fisheries Student Colloquium, Manhattan, KS.
15. **Perkin, J.S.**, and K.B. Gido. 2010. Influence of hydrologic alteration and riverscape fragmentation on distribution and abundance of plains minnow *Hybognathus placitus*. Kansas Natural Resource Conference, Wichita, KS.

2009

14. **Perkin, J.S.**, Z.R. Shattuck, P. Bean, T.H. Bonner, K. Saraeva and T.B. Hardy. 2009. Movement and microhabitat associations of Guadalupe bass in two Texas rivers. American Fisheries Society, Nashville, TN.

13. **Perkin, J.S.** and T.H. Bonner. 2009. Changes in hydrology and fish assemblage composition in the headwaters of the Guadalupe River, Texas 1938-2006. American Fisheries Society, Nashville, TN.
12. Hardy, T.B., **J.S. Perkin**, and T.H. Bonner. 2009. Moving beyond a flat river: multidimensional attributing of river characteristics for aquatic resource investigations. International Symposium on Ecohydraulics, Conception, Chile.
11. **Perkin, J.S.**, Z.R. Shattuck, and T.H. Bonner. 2009. Movement and habitat associations of Guadalupe bass: implications for conservation and the science behind riverine bass angling. Canyon Lake Bass Club annual scholarship meeting, San Marcos, TX.
10. **Perkin, J.S.** and T.H. Bonner. 2009. Ichthyofaunal responses to hydrologic variation in a lotic system: a long-term, species and assemblage scale approach. Southern Division American Fisheries Society, New Orleans, LA.
9. Folb, C.F., **J.S. Perkin**, Z.R. Shattuck and T.H. Bonner. 2009. Life histories of the Guadalupe darter *Percina shumardi* and river dater *Percina apristis*. Texas State University-San Marcos Aquatic Biology Seminar, San Marcos, TX.
8. **Perkin, J.S.**, Z.R. Shattuck, P. Bean, T.H. Bonner, K. Saraeva, and T.B. Hardy. 2009. Movement and microhabitat associations of Guadalupe bass in two Texas rivers. TX American Fisheries Society, Fort Worth, TX.
7. Folb, C.F., **J.S. Perkin**, Z.R. Shattuck and T.H. Bonner. 2009. Life histories of the Guadalupe darter *Percina shumardi* and river dater *Percina apristis*. TX American Fisheries Society, Fort Worth, TX.

2008

6. **Perkin, J.S.**, Z.R. Shattuck, T.H. Bonner and T.H. Hardy. 2008. Movement and microhabitat associations of Guadalupe bass *Micropterus treculii* in two Texas rivers. North American Native Fish Association, Athens, TX.
5. **Perkin, J.S.**, Z.R. Shattuck, P. Bean, T.H. Bonner and T.B. Hardy. 2008. Movement and microhabitat associations of Guadalupe bass *Micropterus treculii* in two Texas rivers. Texas State University Aquatic Biology Society Seminar, San Marcos, TX.

2007

4. **Perkin, J.S.**, C.S. Williams and T.H. Bonner. 2007. Life history of the chub shiner in the lower Brazos River with comments on conservation status and native distribution. American Fisheries Society, San Francisco, CA (poster).
3. **Perkin, J.S.**, C.S. Williams and T.H. Bonner. 2007. Conservation status and life history of the chub shiner in the lower Brazos River. Texas State University-San Marcos Student Colloquium.
2. **Perkin, J.S.**, C.S. Williams and T.H. Bonner. 2007. Conservation status and life history of the chub shiner in the lower Brazos River. TX American Fisheries Society, Lake Jackson, Texas.

2006

1. **Perkin, J.S.** and J. Trungale. 2006. Historical changes in fish assemblages of the Cypress Creek Drainage. Caddo Lake Institute Instream Flows Workshop, Jefferson, Texas.

## 5. Grants

### 5.1 Summary of grants and awards

| Type | Since TAMU Appointment | | Career | |
|---|---|---|---|---|
| | Total | To Perkin | Total | To Perkin |
| **External** | $18,311,694 | $2,866,632 | $18,637,817 | $3,061,922 |
| **Internal** | $0 | $0 | $9,997 | $9,997 |
| **Total** | $18,311,694 | $2,866,632 | $18,647,814 | $3,071,919 |

### 5.2 External grants since appointment at Texas A&M University

| Funding Source | PI/co-PI | Total | To Perkin | Dates | Title |
|---|---|---|---|---|---|
| U.S. Army corps of Engineers | Co-PI | $6,750,000 | $992,853 | 2024-2026 | Riverine communities and ecosystem responses to a changing world |
| Texas Comptroller of Public Accounts | PI | $498,658 | $211,923 | 2023-2026 | Assessing Historical and Contemporary Distributions of Freshwater Fishes in the Neches River Watershed with Emphasis on Long-Term Trends and Monitoring for Mussel Host Fishes |
| Texas Comptroller of Public Accounts | PI | $444,681 | $147,941 | 2023-2026 | Assessing Historical and Contemporary Distributions of Freshwater Fishes in the Upper Sabine River Watershed with Emphasis on Long-Term Trends and Monitoring for Mussel Host Fishes |
| National Science Foundation | Co-PI | $1,596,980 | $210,768 | 2022-2024 | Conservation incentives and the socio-spatial dynamics of water sustainability |

| | | | | | |
|---|---|---|---|---|---|
| U.S. Army Corps of Engineers | Co-PI | $7,500,000 | $355,586 | 2021-2023 | Multiscale patterns and predictors of fish distributions in five Texas river basins |
| Texas Parks and Wildlife Department | PI | $109,400 | $109,400 | 2022-2024 | Distribution, abundance, and current status of Llano River Carpsucker (*Carpiodes* sp. cf. *carpio*) |
| Texas Parks and Wildlife Department | PI | $50,419 | $50,419 | 2021-2022 | Assessing abundance, sex ratio, and space use by suckermouth armored catfish to enhance control efforts |
| Texas Parks and Wildlife Department | PI | $141,558 | $141,558 | 2019-2022 | Measuring and predicting movement ecology for imperiled Great Plains fishes in Texas |
| Texas Parks and Wildlife Department | PI | $99,641 | $99,641 | 2020-2022 | Lateral movements and tributary habitat uses of alligator gar in the lower Brazos River |
| The Nature Conservancy | PI | $10,000 | $10,000 | 2019-2020 | GPLCC flow protection and restoration development project |
| The Texas Water Development Board | Co-PI | $245,000 | $38,586 | 2019-2021 | Environmental flow regime assessment and development of a monitoring framework |
| Texas Parks and Wildlife Department | PI | $200,000 | $200,000 | 2018-2021 | Temporal trajectories and landscape correlates for stream fish community change |
| Edwards Aquifer Authority | PI | $40,000 | $40,000 | 2017-2018 | Statistical analysis of the San Marcos and Comal Springs datasets |

| | | | | | |
|---|---|---|---|---|---|
| Florida Fish and Wildlife Conservation Commission | Co-PI | $424,113 | $56,713 | 2017-2018 | Evaluating degree of aquatic habitat fragmentation by incorporating culverts into the Florida barrier inventory |
| Texas Parks and Wildlife Department | PI | $91,218 | $91,218 | 2019-2022 | Ecological forecasting and conservation contingency planning for imperiled Great Plains fishes in Texas |
| Oklahoma Department of Wildlife Conservation | PI | $110,026 | $110,026 | 2018-2021 | Life history and flow-ecology relationships of Prairie Chub: an endemic Great Plains cyprinid |

**5.3 Grants prior to appointment at Texas A&M University**

| Funding Source | PI/co-PI | Total | To Perkin | Dates | Title |
|---|---|---|---|---|---|
| Tallassee Fund and TN Tech University Water Center | PI | $96,270 | $96,270 | 2016-2018 | Prioritizing fish reintroductions in lower Abrams Creek, Great Smoky Mountains Natl Park |
| TN Natural Resources Agency and TN Tech University Water Center | PI | $96,270 | $96,270 | 2016-2018 | West Tennessee fish index of biological integrity |
| TN Tech University Faculty Research Grant Program | PI | $9,997 | $9,997 | 2015-2016 | Multidisciplinary evaluation of aquatic biodiversity response to water shortages |
| Kansas Academy of Science | PI | $1000 | $1000 | 2010 | Influence of stream fragmentation on Great Plains fishes |
| North American Native Fishes Association | PI | $750 | $750 | 2009 | Evolutionary response of a relict ironcolor shiner population to a novel spring environment |

## 6. Teaching

### 6.1 List of courses taught at Texas A&M University

| Course # | Title | Credit | Year | Semester | Mean | Dept. Mean | Response | Enrollment |
|---|---|---|---|---|---|---|---|---|
| WFSC/RWFM 410 | Principles of Fisheries Management | 4 | 2018 | Fall | 4.46 | 4.29* | 24 | 33 |
| | | | 2019 | Fall | 4.97 | 4.39* | 34 | 36 |
| | | | 2020 | Fall | 4.90 | 4.42* | 10 | 31 |
| | | | 2021 | Fall | 4.90‡ | § | 10 | 31 |
| | | | 2022 | Fall | § | § | § | 36 |
| | | | 2023 | Fall | § | § | § | § |
| | | | 2024 | Fall | § | § | § | § |
| WFSC/ECCB 631 | Ecological Applications in R | 3 | 2018 | Spring | 4.50 | 4.41† | 14 | 17 |
| | | | 2019 | Spring | 4.88 | 4.29† | 8 | 19 |
| | | | 2020 | Spring | 5.00 | 4.78† | 2 | 11 |
| | | | 2021 | Spring | 4.71 | § | 7 | 16 |
| | | | 2022 | Spring | § | § | § | 18 |
| | | | 2023 | Spring | § | § | § | § |
| WFSC 484 | Internship in Wildlife and Fisheries Sciences | 1-3 | 2018 | Fall | - | - | - | 2 |
| | | | 2019 | Spring | - | - | - | 1 |
| | | | 2019 | Fall | - | - | - | 3 |
| | | | 2020 | Spring | - | - | - | 2 |
| | | | 2020 | Fall | - | - | - | 1 |
| | | | 2021 | Spring | - | - | - | 2 |
| | | | 2021 | Fall | - | - | - | 2 |
| WFSC 491 | Research | 1-3 | 2018 | Spring | - | - | - | 2 |
| | | | 2018 | Fall | - | - | - | 1 |
| | | | 2019 | Spring | - | - | - | 1 |
| | | | 2019 | Fall | - | - | - | 1 |
| | | | 2020 | Spring | - | - | - | 1 |
| | | | 2021 | Fall | - | - | - | 1 |
| | | | 2022 | Spring | - | - | - | 3 |
| EEBL 604 | Ecosystem Ecology | 1 | 2017 | Fall | - | - | - | 6 |
| | | | 2018 | Fall | - | - | - | 13 |
| | | | 2019 | Fall | - | - | - | 15 |
| | | | 2020 | Fall | - | - | - | 15 |

* Mean scores across all undergraduate lecture course levels for WFSC faculty
† Mean scores across all graduate lecture course levels for WFSC faculty
‡ Score based on question: “The instructor fostered an effected learning environment”
§ Scores not yet available

### 6.2 List of courses taught at Tennessee Technological University

| Course # | Title | Credit | Year | Semester | Mean | Responses |
|---|---|---|---|---|---|---|
| BIOL3130 | General Ecology | 4 | 2017 | Spring | § | § |
| | | | 2016 | Spring | 4.5/5.0 | 39 |
| | | | 2015 | Fall | 4.4/5.0 | 18 |

| | | | | | | |
|---|---|---|---|---|---|---|
| BIOL4810 | Ichthyology | 4 | 2016<br>2015<br>2014 | Fall<br>Fall<br>Fall | 5.6/5.0<br>4.6/5.0<br>4.4/5.0 | 15<br>19<br>16 |
| BIOL6980 | Biological Analysis in R | 3 | 2016 | Fall | 4.6/5.0 | 4 |
| BIOL6660 | Fish Ecology | 3 | 2015 | Spring | 4.8/5.0 | 5 |
| BIOL6140 | Fish & Wildlife Biometrics | 3 | 2016 | Spring | 4.1/5.0 | 11 |
| BIOL6980 | Ecological Ordination | 3 | 2015 | Spring | 4.2/5.0 | 7 |

§ Scores not available

### 6.3 Graduate student research program

Dr. Perkin has chaired 18 graduate student committees and served as a member on 28 others.

#### 6.3.1 Summary of graduate students

| Degree | Current | | Graduated | |
|---|---|---|---|---|
| | **Chair** | **Member** | **Chair** | **Member** |
| Ph.D. | 4 | 7 | 2 | 5 |
| M.S. Thesis | 5 | 1 | 7 | 15 |
| **Total** | **9** | **8** | **9** | **20** |

#### 6.3.2 Current graduate students

| Student | Program | Degree | Committee | Enrolled | Expected Graduation |
|---|---|---|---|---|---|
| Hayden Roberts | ECCB | Ph.D. | Chair | Summer 2022 | Spring 2026 |
| Rose Blanchard | ECCB | Ph.D. | Chair | Fall 2021 | Fall 2024 |
| Jacob Barrett | ECCB | Ph.D. | Chair | Fall 2023 | Spring 2027 |
| Thomas Dodson | EEBL | Ph.D. | Chair | Fall 2023 | Spring 2027 |
| Rebecca Mangold | ECCB | M.S. | Chair | Spring 2023 | Spring 2025 |
| Johnathan Ellard | ECCB | M.S. | Chair | Fall 2023 | Spring 2025 |
| Jacob Wolff | ECCB | M.S. | Chair | Fall 2023 | Spring 2025 |
| Meghan Booknis | ECCB | M.S. | Chair | Fall 2024 | Spring 2026 |
| Calvin Young | ECCB | M.S. | Chair | Fall 2024 | Spring 2026 |
| Hannah Bleth | ECCB | M.S. | Member | Fall 2023 | Spring 2025 |
| Milton Torres | ECCB | Ph.D. | Member | Fall 2019 | Spring 2025 |
| Owen Dorsey | BIOL | Ph.D. | Member | Fall 2019 | Spring 2025 |
| Ryan Weesner | EEBL | Ph.D. | Member | Fall 2019 | Spring 2025 |
| Miriam Catalan | ECCB | Ph.D. | Member | Spring 2020 | Summer 2024 |
| Langston Haden | U. South. Mississippi | Ph.D. | Member | Spring 2020 | Fall 2024 |
| Griffin Nicholson | EEBL | Ph.D. | Member | Fall 2021 | Fall 2025 |
| Bentos Fry | EEBL | Ph.D. | Member | Fall 2021 | Fall 2025 |

### 6.3.3 Former graduate students

| Student | Program | Degree | Committee | Enrolled | Graduation |
|---|---|---|---|---|---|
| Noah Santee | ECCB | M.S. | Chair | Spring 2022 | Fall 2023 |
| Zachary Steffensmeier | EEBL | Ph.D. | Chair | Fall 2018 | Fall 2022 |
| Lindsey Elkins | ECCB | M.S. | Chair | Fall 2021 | Fall 2022 |
| Erin Nguyen | EEBL | Ph.D. | Chair | Fall 2018 | Summer 2022 |
| Hayden Roberts | ECCB | M.S. | Chair | Spring 2019 | Spring 2022 |
| Stephanie George Parker | WFSC | M.S. | Chair | Spring 2018 | Fall 2019 |
| Eric Malone | Tennessee Tech. U. | M.S. | Chair | Spring 2016 | Fall 2017 |
| Corrine Juju Wellemeyer | Tennessee Tech. U. | M.S. | Chair | Fall 2015 | Fall 2017 |
| Amy Doll Gebhard | Tennessee Tech. U. | M.S. | Chair | Spring 2015 | Fall 2016 |
| Sarah Turner | RWFM | Ph.D. | Member | Fall 2018 | Spring 2024 |
| Nicol Scavo | EEBL | Ph.D. | Member | Fall 2021 | Fall 2024 |
| Yasmin Quintana | ECCB | Ph.D. | Member | Fall 2018 | Fall 2023 |
| Matthew Jake Madewell | ESSM | M.S. | Member | Spring 2019 | Fall 2022 |
| Jared Schlottman | RWFM | M.S. | Member | Fall 2020 | Fall 2022 |
| Cole Reeves | U. of North Texas | M.S. | Member | Fall 2019 | Spring 2021 |
| Aaron Trimble | ESSM | M.S. | Member | Spring 2019 | Fall 2020 |
| Michaela Pawluck | WFSC | Ph.D. | Member | Spring 2018 | Fall 2020 |
| Zachary Mitchell | Texas State University | Ph.D. | Member | Fall 2017 | Fall 2020 |
| Desiree Moore | Oklahoma State U. | M.S. | Member | Fall 2018 | Fall 2020 |
| Liliana Castillo | WFSC | M.S. | Member | Spring 2018 | Fall 2019 |
| Skylar Wolf | Oklahoma State U. | M.S. | Member | Fall 2017 | Spring 2019 |
| Aine Carrol | Texas State University | M.S. | Member | Spring 2016 | Fall 2017 |
| Isabel Papraniku | Tennessee Tech. U. | M.S. | Member | Spring 2016 | Fall 2017 |
| Jake Leys | Tennessee Tech. U. | M.S. | Member | Fall 2015 | Spring 2017 |
| Jason Payne | Tennessee Tech. U. | M.S. | Member | Fall 2015 | Spring 2017 |
| Heather Ferrell | Tennessee Tech. U. | M.S. | Member | Fall 2014 | Spring 2016 |

| | | | | | |
|---|---|---|---|---|---|
| Casey Pennock | Kansas State University | M.S. | Member | Fall 2015 | Spring 2017 |
| Josey Ridgway | Tennessee Tech. U. | M.S. | Member | Fall 2014 | Spring 2016 |
| Emily Granstaff | Tennessee Tech. U. | M.S. | Member | Fall 2014 | Spring 2016 |

### 6.3.4 Visiting international student advisees

| Name | Years | Project | Home Institution |
|---|---|---|---|
| Maximiliaan Claus | 2020 | Applying fish movement ecology principles to alligator gar | Wageningen University, Netherlands |
| Florian Kappen | 2020 | Synthesis of management of alligator gar | Wageningen University, Netherlands |

### 6.3.5 Postdoctoral advisees

| Name | Years | Project | Current Position |
|---|---|---|---|
| Tomasz Koralewski | 2024-2025 | NSF-funded project on dynamics of integrated socio-environmental systems Red River Basin | - |
| Christopher Kopack | 2023-2024 | NSF-funded project on dynamics of integrated socio-environmental systems Red River Basin | U.S. Forest Service |
| Matthew Acre | 2019-2020 | New methods for imperiled fish population estimation | U.S. Geological Survey |

### 6.4 Undergraduate student researchers

*Student from underrepresented groups in fisheries science
†Student also advised by graduate student in the lab

| Name | Year Began & University | # of Semesters | # of Presentations Delivered | Co-author on publication | Expected co-author on publication |
|---|---|---|---|---|---|
| Blake Elzi | 2023 TAMU | 2 | 3 | | |
| Emilee Holderness* | 2022 TAMU | 1 | 0 | | Y |
| Meghan Booknis | 2022 TAMU | 2 | 1 | | Y |
| Hannah Evans* | 2022 TAMU | 2 | 1 | | Y |
| Wesley Arend | 2021 TAMU | 2 | 1 | | Y |
| Lucas Stevens† | 2021 TAMU | 3 | 1 | | Y |
| Rebecca Mangold* | 2021 TAMU | 3 | 1 | | Y |
| Jacob Wolff | 2021 TAMU | 3 | 1 | | Y |
| Brynn Johnson* | 2021 TAMU | 1 | 0 | | |
| Hailey Binkley* | 2021 TAMU | 1 | 1 | Y | |
| Johnathan Ellard† | 2020 TAMU | 4 | 2 | | Y |

| | | | | | |
|---|---|---|---|---|---|
| Cade Cottar† | 2020 TAMU | 4 | 2 | | Y |
| Noah Santee | 2020 TAMU | 4 | 3 | Y | |
| Lauren Yancy* | 2019 TAMU | 5 | 8 | Y | |
| Allison Hay* | 2020 TAMU | 2 | 1 | Y | |
| Caleb Blanton* | 2019 TAMU | 2 | 2 | Y | |
| Emily Parker | 2019 TAMU | 2 | 1 | | Y |
| Chase Corrington | 2018 TAMU | 3 | 2 | | |
| Austin Stafford | 2018 TAMU | 2 | 0 | Y | |
| Jayne Ecker* | 2018 TAMU | 2 | 1 | Y | |
| Jake Madewell | 2017 TAMU | 4 | 5 | | Y |
| Fernando Chavez* | 2017 TAMU | 4 | 5 | | Y |
| Joshua Heitikko | 2017 TAMU | 2 | 1 | | |
| Nick Loveland | 2017 TAMU | 2 | 1 | | |
| Tyler Slagle | 2017 TTU | 1 | 3 | | |
| Shannon Murphy* | 2016 TTU | 2 | 3 | Y | |
| Codi Underwood* | 2016 TTU | 2 | 3 | | |
| Kelsey Stephenson* | 2016 TTU | 2 | 1 | | |
| Zac Tankersley | 2016 TTU | 2 | 1 | | |
| Will Curtis | 2015 TTU | 4 | 10 | Y | |
| **TOTAL** | - | 71 | 63 | 9 | 7 |

## 7 Service

### 7.1 Service to the Department of Ecology and Conservation Biology (ECCB)/Wildlife and Fisheries Sciences (WFSC)

| Committee | Department | Role | Years |
|---|---|---|---|
| Graduate Programs Committee | ECCB | Chair | 2024-current |
| Tenure-Track Faculty Search Committee | ECCB | Member | 2024 |
| Undergraduate Programs Committee | ECCB | Member | 2021-2024 |
| Undergraduate Curriculum Development Committee | ECCB | Member | 2020-2021 |
| Undergraduate Curriculum Implementation Committee | WFSC | Member | 2018-2019 |
| Seminar Committee | WFSC | Member | 2017-2019 |
| Wildlife and Fisheries Sciences Curriculum Committee | TTU-Biology | Member | 2014-2016 |
| Equipment and Technology Committee | TTU-Biology | Member | 2014-2016 |
| Public Relations Committee | TTU-Biology | Member | 2014-2016 |

### 7.2 Service to Texas A&M University

| Program | Role | Years |
|---|---|---|

| | | |
|---|---|---|
| Student Subunit of the American Fisheries Society | Advisor | 2017-present |
| Ecology and Evolutionary Biology IDP | Core Member | 2018-present |
| EEB Seminar Committee | Member | 2019-2021 |

### 7.3 Service to professional societies

| Society | Committee | Role | Years |
|---|---|---|---|
| Texas Chapter American Fisheries Society | Executive Committee | President Elect | 2024 |
| Texas Chapter American Fisheries Society | Student Outreach Committee | Chair | 2018-2024 |
| American Fisheries Society | Publications Overview Committee | Member | 2021-present |
| American Fisheries Society | Imperiled Species Committee | Member | 2017-present |
| American Fisheries Society | Imperiled Species Committee | Past-President | 2016-2017 |

### 7.4 Professional society memberships

American Fisheries Society
Texas Chapter American Fisheries Society
Society for Freshwater Science
Desert Fishes Council

### 7.5 Service to the scientific community

#### 7.5.1 Journal reviewer

American Midland Naturalist, Aquatic Conservation – Marine and Freshwater Ecosystems, Aquatic Ecology, Biological Invasions, Canadian Journal of Fisheries and Aquatic Sciences, Copeia, Ecology, Ecology and Evolution, Ecology of Freshwater Fish, Ecological Applications, Ecological Engineering, Ecological Modelling, Ecosphere, Environmental Management, Fisheries, Freshwater Biology, Freshwater Science, Global Change Biology, Hydrobiologia, Journal of Applied Ecology, Journal of Fish Biology, Journal of Freshwater Ecology, Knowledge and Management of Aquatic Ecosystems, Landscape Ecology, Marine and Coastal Fisheries, Marine and Freshwater Research, North American Journal of Fisheries Management, PeerJ, PLoS One, Restoration Ecology, River Research and Applications, Southeastern Naturalist, Southwestern Naturalist, Transactions AFS, Western North American Naturalist, WIREs Water

#### 7.5.2 Journal editorial service

| Journal | Role | Years |
|---|---|---|
| Fisheries | Editorial Board | 2023-present |
| Frontiers in Environmental Science | Editorial Board | 2023-present |
| Ecology of Freshwater Fish | Editorial Board | 2022-present |
| Northa American Journal of Fisheries Management | Visiting Associate Editor | 2022-2023 |

### 7.5.3 Peer review of species listings

Dr. Perkin participates in workshops and provides peer-review of U.S. Fish and Wildlife Service species status assessments, recovery plans, and recovery implementation plans, as well as Texas Parks and Wildlife Department species of greatest conservation need assessments.

| Species | Agency | Service provided |
|---|---|---|
| Arkansas River Shiner (*Notropis Girardi*) | U.S. Fish and Wildlife Service | Species status assessment workshop participation |
| Peppered Chub (*Macrhybopsis tetranema*) | U.S. Fish and Wildlife Service | Species status assessment workshop participation |
| Smalleye Shiner (*Notropis buccula*) | U.S. Fish and Wildlife Service | Recovery plan and recovery implementation plan peer-review |
| Sharpnose Shiner (*Notropis oxyrhynchus*) | U.S. Fish and Wildlife Service | Recovery plan and recovery implementation plan peer-review |
| Texas fish Species of Greatest Conservation Need | Texas Parks and Wildlife Department | Species status assessment workshop participation |

## 7.6 Service to the public

### 7.6.1 River cleanups

| River System | Organization | Year |
|---|---|---|
| San Marcos River | Texas River Protection Association | 2022 |
| San Marcos River | Texas River Protection Association | 2020 |
| White Creek | TAMU Student Subunit of the American Fisheries Society | 2019 |

### 7.6.2 Press engagement

Research conducted by Dr. Perkin has received local, regional, national, and international media attention.

| Year | Media Outlet | Title | Web Link |
|---|---|---|---|
| 2022 | Texas Parks and Wildlife Television | Fighting an Armored Invasion | https://www.youtube.com/watch?v=P3kcQqu5c1M |
| 2022 | Agrilife Today | Detecting Texas Drought Conditions with Small Fish | https://agrilifetoday.tamu.edu/2022/01/21/detecting-texas-drought-conditions-with-small-fish/ |
| 2022 | Smithsonian Magazine | More Than 400 Invasive Fish Dumped from Aquariums Found in Texas River | https://www.smithsonianmag.com/smart-news/four-hundred-invasive-fish-dumped-from-aquariums-found-in-texas-river-180979485/ |

| | | | |
|---|---|---|---|
| 2022 | Newsweek | More Than 400 Invasive Fish Dumped from Aquariums Found in River | https://www.newsweek.com/more-400-invasive-fish-dumped-aquariums-found-river-1670901 |
| 2022 | Spectrum News | Texas Parks and Wildlife Reports 406 Invasive Fish Removed from San Marcos River | https://spectrumlocalnews.com/tx/south-texas-el-paso/news/2022/01/26/texas-parks-and-wildlife-reports-406-invasive-fish-removed-from-san-marcos-river |
| 2020 | Brave Wilderness | Catching a RARE Crocodile Gar! | https://www.youtube.com/watch?v=WQAZenZq5zo |
| 2020 | Brave Wilderness | GAR WARS! The Battle to Save this GIANT Fish! | https://www.youtube.com/watch?v=QuZwgnXMbsg |
| 2020 | Brave Wilderness | GIANT FISH CAUGHT - Real River Monster! | https://www.youtube.com/watch?v=MbMcYTJ2VnQ |
| 2020 | Brave Wilderness | MURDER IN TEXAS - a BIG FISH Crime Story! | https://www.youtube.com/watch?v=fUG0DgjuPVc |
| 2020 | TAMU ECCB Newsletter | A Stake in the Game | https://eccb.tamu.edu/stake-in-the-game/ |
| 2020 | EAHCP Newsletter | Tag… You're it! Invasive Catfish Tagging Study to Help Assist EAHCP Removal Programs | https://ae0ec937-6ecf-4655-8267-4339e5b8e509.filesusr.com/ugd/3c31eb_eb0a9612ff8a4910aed9800240d0a552.pdf |
| 2019 | NPR All Things Considered | Irrigation For Farming Could Leave Many Of The World's Streams And Rivers Dry | https://www.npr.org/sections/thesalt/2019/10/02/766510790/irrigation-for-farming-could-leave-many-of-the-worlds-streams-and-rivers-dry |
| 2018 | Morning AgClips | Scientists Find Mexican Fish Never Identified in U.S. | https://www.morningagclips.com/scientists-find-mexican-fish-never-identified-in-u-s/ |
| 2018 | Futurity | Rare Mexican Fish is a Surprise Discovery in Texas | https://www.futurity.org/cyprinella-panarcys-fish-1934262/ |
| 2018 | In the Drift | Article Spotlight: The RCC Predicts Prey Assemblage Structure for Fish | https://freshwater-science.org/news/in-drift-issue-32-fall-2018 |
| 2017 | Texas Water Resource Institute | Meet a Scientist: Joshuah Perkin | https://twri.tamu.edu/news/2017/november/meet-a-scientist-joshuah-perkin/ |
| 2017 | ScienceDaily | Loss of 350 Miles of Great Plains Streams | https://www.sciencedaily.com/releases/2017/08/170802102803.htm |

| | | | |
|---|---|---|---|
| | | Causing Changes in Aquatic Food Web | |
| 2015 | ScienceDaily | Aquatic Ecologist Says Dams are Boxing in Fish, Causing Them to Disappear from Kansas | https://www.sciencedaily.com/releases/2015/04/150428105633.htm |
| 2014 | Environmental Monitor | Study of Texas' Trinity River Shows 40 years of Improved Water Quality and Fish Diversity | https://www.fondriest.com/news/study-texas-trinity-river-shows-40-years-improved-water-quality-fish-diversity.htm |
| 2013 | Great Bend Tribune | Study: Drought Impacting Fish Populations | https://www.gbtribune.com/news/local-news/news2/study-drought-impacting-fish-populations/ |
| 2009 | Bass Master Magazine | The 'Other' Bass Destinations | https://www.espn.com/outdoors/bassmaster/news/story?page=b_bm_mag_slam_other_dest |

## 8 Awards

### 8.1 University Awards

| Year | University Unit | Award |
|---|---|---|
| 2022 | Texas A&M University College of Agriculture and Life Sciences | Dugas Early Career Award for Research Excellence |
| 2022 | Texas A&M University Department of Ecology and Conservation Biology | Faculty Undergraduate Teaching Award |
| 2020 | Texas A&M University | Adair Student Organization Advisor of the Year |

### 8.2 Society Awards

Dr. Perkin has received awards from the Education Section of the American Fisheries Society, Texas, Tennessee, and Colorado/Wyoming chapters of the American Fisheries Society, the Southern Division of the American Fisheries Society, and the Southeastern Fishes Council.

| Year | Society | Award |
|---|---|---|
| 2023 | Texas Chapter American Fisheries Society | Outstanding Fisheries Research Worker of the Year |
| 2022 | Education Section American Fisheries Society | Early Career Fisheries Education Award |
| 2022 | Texas Chapter American Fisheries Society | Outstanding Fisheries Education Worker of the Year |

| | | |
|---|---|---|
| 2022 | Desert Fishes Council | Carl L. Hubbs Award for Best Student presentation to coauthor Lindsey Elkins |
| 2022 | Texas Chapter American Fisheries Society | Best Student Poster Presentation to coauthor Rebecca Mangold |
| 2022 | Texas Chapter American Fisheries Society | Best Student Oral Presentation to coauthor Erin Nguyen |
| 2021 | Texas Chapter American Fisheries Society | Best Professional Poster Presentation |
| 2020 | Texas Chapter American Fisheries Society | Best Professional Poster Presentation |
| 2020 | Texas Chapter American Fisheries Society | Best Student Poster Presetnation to coauthor Lauren Yancy |
| 2019 | Texas Chapter American Fisheries Society | Best Professional Presentation |
| 2019 | Southern Division American Fisheries Society | Best Student Poster Presentation to coauthor Erin Nguyen |
| 2018 | Texas Chapter American Fisheries Society | Best Professional Presentation |
| 2017 | Southeastern Fishes Council | Best Student Paper to coauthor Eric Malone |
| 2017 | Tennessee Chapter American Fisheries Society | Best Student Paper to coauthor Eric Maline |
| 2017 | Tennessee Chapter American Fisheries Society | Best Student Paper to coauthor Juju Wellemeyer |
| 2017 | Tennessee Chapter American Fisheries Society | Best Student Poster to coauthor Isabel Papraniku |
| 2016 | Tennessee Chapter American Fisheries Society | Best Student Paper award to coauthor Amy Gebhard |
| 2016 | Colorado/Wyoming Chapter American Fisheries Society | Best Professional Presentation to coauthor Kirk Fausch |
| 2015 | Southeastern Fishes Council | Best Student Paper award to coauthor Amy Gebhard |
| 2015 | Texas Chapter American Fisheries Society | Best Professional Presentation |