Lindsey A. Bruckerhoff

Curriculum Vitae

Aquatic Ecology Laboratory
Department of Evolution, Ecology and Organismal Biology
The Ohio State University

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EDUCATION

PhD in Biology Kansas State University, Division of Biology, 2020
MS in Biology University of Arkansas, Department of Biological Sciences, 2016
BS in Biology Missouri State University, Department of Biology, 2012

APPOINTMENTS AND RESEARCH EXPERIENCE

Assistant Professor, The Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, 2023-Present

Co- Director, The Aquatic Ecology Laboratory, The Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, 2023-Present

Assistant Professor and Assistant Unit Leader, US Geological Survey Oklahoma Cooperative Fish and Wildlife Research Unit, Oklahoma State University, 2021-2023

Postdoctoral Researcher, Utah State University, 2020-2021

Graduate Research Assistant, Kansas State University, 2016-2020

Directorate Fellow, US Fish and Wildlife Service, Flint Hills National Wildlife Refuge, 2016

Science Writing Tutor, Quality Writing Center, University of Arkansas, 2014-2016

Graduate Teaching Assistant, University of Arkansas Cooperative Fish and Wildlife Research Unit, 2013-2016

Ecological Flows Research Technician, University of Arkansas Cooperative Fish and Wildlife Research Unit, 2013

Research Technician, Missouri State University, 2011-2013

NSF Long Term Ecological Research Technician, Trout Lake Research Station, University of Wisconsin, 2012

RESEARCH FUNDING

Ongoing

Ohio Division of Wildlife. *Variation in life history traits of Sauger in the Ohio River.* 2025-2027. PI. $115,959 (plus $111,801 pending).

Ohio Department of Transportation. *Assessment of Aquatic Organism Passage Through 3-Sided and 4-Sided Culverts on High Quality Streams.* 2024-2026. PI. $468,018

US Fish and Wildlife Service. *Invasive cap reproductive potential and relative abundance in Ohio tributaries to the Ohio River.* 2024-2027. PI. $325,004 (plus $148,634 pending).

Ohio Division of Wildlife. *Understanding Yellow Perch angling success in Western Lake Erie.* 2024-2025. Co-PI. $207,066

Ohio Department of Natural Resources H2Ohio Program. *Fish movement ecology in the Scioto River basin: understanding space and habitat use in a relatively connected basin.* 2024-2025. Co-PI. $201,518.

US Geological Survey. *Identifying drivers of non-native fish population fluctuations and forecasting non-native fish responses to future reservoir operations in the Colorado River basin.* 2024-2029. PI. $199,848.

US Geological Survey North Central Climate Adaptation Science Center. *Influence of environmental thresholds on trajectories of freshwater assemblages with implications for building climate resilience across prairie landscapes*. 2024-2027. Co-PI. $597,700.

US Geological Survey South Central Climate Adaptation Science Center. *Intermittent stream risk assessment: Mapping patterns of stream drying and identifying vulnerabilities of stream fish and crayfish communities*. 2023-2026. PI. $428,716.52

Pending

Ohio Sea Grant and National Oceanic and Atmospheric Administration. *Identifying the relative importance of abiotic, top-down, and bottom-up drivers of Emerald Shiner population declines in western Lake Erie*. 2026-2028. PI. $189,948.

Ohio Division of Wildlife. *Identifying drivers of smallmouth bass population dynamics in Lake Erie* . 2026-2027. PI. Year 1= $72,260, Estimated total ~$300,000.

Completed

Kansas Department of Parks and Wildlife. *Drivers of Occupancy and Updated Range of Threatened and Endangered Aquatic Macroinvertebrates of the Marais des Cygnes and Neosho River Basins*. 2023-2025. PI. $182,230.

Arkansas Game and Fish Commission State Wildlife Grant. *Habitat associations and population genetic structure of the endemic Beaded Darter Etheostoma clinton in the upper Ouachita River system*. 2023-2025. PI. $253,557.80

U.S. Geological Survey Science Support Program. *Synthesizing long-term data to identify drivers of occupancy and abundance of federally-threatened and endemic darters of the Interior Highlands*. 2023-2025. PI. $148,961

U.S. Geological Survey. *Demographic Models to Predict Smallmouth Bass Population Responses to Reservoir Management and Climate Change*. 2023-2025 PI. $170,000.

Oklahoma Department of Wildlife Conservation State Wildlife Grants Program. *Quantifying freshwater mussel abundance and composition in two prairie rivers of northern Oklahoma with the aid of side-scan sonar to identify novel habitat patches.* 2022-2025. Co-PI. $89,997.08

Utah Mineral Lease Funds and Utah Water Resources Laboratory. *Collaborative Research over Careers: Tackle convergent water problems that neither researchers nor basin actors can alone*. 2023-2024. Co-PI. $4,866.

US Geological Survey. *Stream fish community dynamics in Oklahoma streams*. 2021-2023. PI $15,000.

PUBLICATIONS

Google Scholar Citation Statistics: h-index = 12; i10-index = 16 (as of Feb. 5th 2026)
Google Scholar: https://scholar.google.com/citations?user=5-v62_gAAAAJ&hl=en

Published or accepted

(^undergraduate; +graduate student, *postdoctoral researcher)

28. Eppehimer, D.E., Yackulic, C.B., Bruckerhoff, L.A., Wang, J., Young, K.L., Bestgen, K.R., Mihalevich, B.A., & Schmidt, J.C. 2025. Declining reservoir elevations following a two-decade drought increase water temperatures and non-native fish passage facilitating a downstream invasion. *Canadian Journal of Fisheries and Aquatic Sciences*. https://doi.org/10.1139/cjfas-2024-018

27. Bruckerhoff, L.A., Yackulic, C.B., Eppehimer, D.E., Bestgen, K.R., Jones, M.T., and Michaud, C. 2025. Estimating drivers and identifying uncertainties in smallmouth bass population dynamics in an invaded river network. *Canadian Journal of Fisheries and Aquatic Sciences.* https://doi.org/10.1139/cjfas-2024-0183

26. Torolski, H.M.+, J.M. Long, R.C. Lonsinger, and L.A. Bruckerhoff. 2025. New Distributional Record of the Federally Threatened Rabbitsfoot Mussel (*Quadrula cylindrica cylindrica*) in Oklahoma. *Southeastern Naturalist*. 24: N1-N8. doi.org/10.1656/058.024.0103

25. Kelly, B.+ & L.A. Bruckerhoff. 2024. The life cycle of intermittent streams: How do fish communities response to annual cycles of wetting and drying? *Freshwater Biology*. 69(12): 1914-1926. https://10.1111/fwb.14351

24. Torolski, H.M.+, J.M. Long, R.C. Lonsinger, and L.A. Bruckerhoff. 2024. Updated Distribution for Two Freshwater Mussel Species of Conservation Concern in Oklahoma. *Southeastern Naturalist*. 23(3): N44-N49. doi.org/10.1656/058.023.0314

23. Kelly, B.+ & L.A. Bruckerhoff. 2024. Dry, drier, driest: Differentiating flow patterns across a gradient of intermittency. *River Research and Applications*. https://doi.org/10.1002/rra.4289

22. Long, J.M., P., Joyce^, L.A. Bruckerhoff, R.C. Lonsinger, & W. Wolfenkoehler^. 2024. Using down-scan capabilities from recreational-grade side-scan sonar systems to sample paddlefish and evaluate depth use in a reservoir. *Fisheries Research*, 269, 106872. doi.org/10.1016/j.fishres.2023.106872

21. Wolfenkoehler, W.^, J.M. Long, R. Gary, R.A. Snow, J.D., Schooley, L.A. Bruckerhoff, & R.C. Lonsinger 2023. Viability of side-scan sonar to enumerate Paddlefish, a large pelagic freshwater fish, in rivers and reservoirs. *Fisheries Research*, *261*, 106639. doi.org/10.1016/j.fishres.2023.106639

20. Gido, K.B., S.C. Hedden, L.A. Bruckerhoff, C.A. Pennock, C.K. Hedden, G.W. Hopper, E.A. Renner, E.R. Johnson, & B.J. Postlewait. 2023. Removing a perched culvert facilitates dispersal of fishes in an intermittent prairie stream. *Freshwater Science* 42(1). DOI:10.1086/723046

19. Pennock, C.A., Bruckerhoff, L.A., Gido, K.B., Barkalow, A.L., Breen, M.J., Budy, P., Macfarlane, W.W. & Propst, D.L., 2022. Failure to achieve recommended environmental flows coincides with declining fish populations: Long-term trends in regulated and unregulated rivers. *Freshwater Biology*, *67*(9), pp.1631-1643. doi.org/10.1111/fwb.13966

18. Schmidt, J.S., L.A., Bruckerhoff, H., Salehabadi, & J., Wang. 2022. Chapter 10: The Colorado River. In: *Large Rivers: Geomorphology and Management*. (eds) A. Gupta. Wiley-Blackwell. https://doi.org/10.1002/9781119412632.ch10

17. Schmidt, J.C., L. A. Bruckerhoff, J. Wang, & C.B. Yackulic. 2022. The Colorado River- The Science-Policy Interface. Book Chapter in: *Cornerstone: A century of the Colorado River Compact*. (eds) J.A. Robison. University of Arizona Press. Tucson, AZ.

16. Bruckerhoff, L.A., K. Wheeler, K. Dibble, B.A. Mihalevich, B.T. Neilson, J. Wang, C.B. Yackulic, & J.C. Schmidt. 2022. Water Storage Decisions and Consumptive Use Constrain Ecosystem Management under Severe Sustained Drought. *Journal of the American Water Resources Association* 58:654-672. doi.org/10.1111/1752-1688.13020

15. Bruckerhoff, L.A., C.A. Pennock, & K.B. Gido. 2021. Do fine-scale experiments underestimate predator consumption rates? *Journal of Animal Ecology* 90:2391-2403. doi.org/10.1111/1365-2656.13549

14. Bruckerhoff, L.A., K.B. Gido, & M. Estey.2021. Disentangling effects of predators and landscape factors as drivers of stream fish community structure. *Freshwater Biology*. 66: 656-668. doi.org/10.1111/fwb.13668

13. Bruckerhoff, L.A., L.K. Kamees, A. Holycross, & C. Painter. 2021. Patterns of survival and reproductive status of communally denning *Crotalus viridis*. *Ichthyology and Herpetology* (formerly *Copeia*). 109 (1):64-74. doi.org/10.1643/h2019301

12. Hedden, S.C, L.A. Bruckerhoff, & K.B. Gido.2021. Assessing linkages between small impoundments and long-term trajectories of prairie stream fish assemblages. *American Midland Naturalist*. 185:187-200. doi.org/10.1674/0003-0031-185.2.187

11. Hopper, G, K.B. Gido, C.A. Pennock, S.C. Hedden, B.D. Frenette, N. Barts, C.K. Hedden, & L.A. Bruckerhoff. 2020. Nowhere to swim: interspecific responses of prairie stream fishes in isolated pools during severe drought. *Aquatic Sciences*. 82(42). doi.org/10.1007/s00027-020-0716-2

10. Bruckerhoff, L.A., K. Connell, J. Guinnip, E. Adhikari, A. Godar, K. Gido, A. Boyle, A. Hope, A. Joern, & E. Welti. 2020. Harmony on the prairie? Grassland plant and animal community responses to variation in climate and land management. *Ecology.* doi.org/10.1002/ecy.2986

9. Hopper, G, K.B. Gido, C.A. Pennock, S.C. Hedden, C.M. Tobler, C.K. Hedden & L.A. Bruckerhoff. 2020. Biomass loss and change in species dominance shift stream community excretion stoichiometry during severe drought. *Freshwater Biology 65: 403-416. doi.org/10.1111/fwb.13433*

8. Frenette, B.D., L.A. Bruckerhoff, M. Tobler, & K.B.Gido. 2020. Temperature effects on performance and physiology of two prairie stream minnows. *Conservation Physiology.* 7:1 coz063. doi.org/10.1093/conphys/coz063

7. Pennock, C.A., & L.A. Bruckerhoff. 2020. Qualitative Observations of Successful Spawning by Two Species of Small-bodied Minnows Following PIT Tagging. *Western North American Naturalist*. 80: 13. doi.org/10.3398/064.080.0213

6. Dodds, W.K., L.A. Bruckerhoff, D. Batzer, A. Schechner, C. Pennock, E. Renner, F. Tromboni, K.Bigham, & S. Grieger. 2019. The freshwater biome gradient framework: predicting macroscale properties based on climate. *Ecosphere 10:e02786. doi.org/10.1002/ecs2.2786*

5. Bruckerhoff, L.A. & K.B. Gido. 2019. Assessing landscape sampling strategies to evaluate the influence of multiple stressors on stream fish communities. In: American Fisheries Society Symposium Book: *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages.* doi.org/10.47886/9781934874561.ch9

4. Bruckerhoff, L.A., D.D. Magoulick, & D. Leasure. 2018. Flow-ecology relationships are spatially structured and differ among flow regimes. *Journal of Applied Ecology* 56: 398-412. doi.org/10.1111/1365-2664.13297

3. Bruckerhoff, L.A. & D.D. Magoulick. 2017. Hydrologic regimes as potential drivers of morphologic divergence in fish. *Evolutionary Ecology* 31: 517-531. doi.org/10.1007/s10682-017-9897-0

2. Bruckerhoff, L.A., J.E. Havel, J.E., & S. Knight. 2014. Survival of invasive aquatic plants after air exposure and implications for dispersal by recreational boats. *Hydrobiologia* 746: 113-121. doi.org/10.1007/s10750-014-1947-9

1. Havel, J. E., L.A. Bruckerhoff, M.A. Funkhouser, & A.R. Gemberling. 2014. Resistance to desiccation in aquatic invasive snails and implications for their overland dispersal. *Hydrobiologia* 741: 89-100. doi.org/10.1007/s10750-014-1839-z

In submission, review or revision

Whitney, J.E., L.A. Bruckerhoff, R. Waters, K.L. Boroughs, J.A. Holloway+, and A.D. King+. Deterministic and stochastic forces structure the distributions of common and rare prairie stream fishes, with implications for the repatriation of imperiled species. In revision at *Ecosphere*.

+Drake, S., L.A. Bruckerhoff, B. Miltner, & C.A. Pennock. Water quality improvements correspond with the increased occurrence of fish and aquatic insects. In review at *Ecological Indicators*.

Yackulic, C.B., D. E. Eppehimer, L.A. Bruckerhoff, A. Amidon, K. R. Bestgen, N. Bransky, K. L. Dibble, M. Dzul, L. Hansen, B.D. Healy, M. Tildon Jones, and C. Michaud. Comment on assessing the potential for Smallmouth Bass population establishment in Grand Canyon. In review at *Transactions of the American Fisheries Society*.

+Schumacher, M., D.D. Magoulick, and L.A. Bruckerhoff. Associations between darter occurrence and habitat variables are scale dependent. Submitted to *Hydrobiologia.*

+Bennett, M., K. Gido, +M. Weaver, & L. A. Bruckerhoff. Who's Afraid of the Big, Bad Mesopredator? Predation Risk and Intermittent Conditions Influence Fish and Crayfish. Submitted to *Journal of Animal Ecology*.

Non-refereed products

Wheeler, K., E. Kuhn. L.A. Bruckerhoff, B. Udall, J. Wang, L. Gilbert, S. Goeking, A. Kasprak, B. Mihalevich, B. Neilson, H. Salehabadi, & J.C. Schmidt. 2021. Alternative Management Paradigms for the Future of the Colorado and Green Rivers. *Quinney college of Natural Resources, Utah State University, Center for Colorado River Studies White Paper No. 6*.

PRESENTATIONS

Platforms- Invited

Bruckerhoff, L.A. 2026. Forecasting in the face of uncertainty: Ecological consequences of water management in a drier future. Department of Biology Seminar at University of New Mexico. Albuquerque, NM.

Bruckerhoff, L.A., C. Yackulic, & D. Eppehimer. 2025. Forecasting non-native smallmouth bass responses to future hydrologic conditions in the upper Colorado River basin. 17th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region. Invited talk for special symposium, *Predictive Modeling for Large River Management*. Flagstaff, AZ.

Bruckerhoff, L.A., S. Drake, B. Miltner, & C. Pennock. 2025. Water quality improvements in Ohio are linked to increased recreational use and improved ecological communities over five decades. Stone Lab Science Writer Workshop. Put-in-Bay, OH.

Bruckerhoff, L.A. 2025. Lifecycle of a stream: how fishes respond to variable environmental conditions across space and time? Stone Lab Summer Seminar Series. Put-in-Bay, OH.

Bruckerhoff, L.A. 2025. How do fish communities deal with stream drying? Invited seminar for the Kansas State University Student Sub-Unit of the American Fisheries Society. Virtual.

Bruckerhoff, L.A. 2024. Dry, drying, drought: How do stream communities respond to drying? Bowling Green University Department of Biological Sciences Seminar Series. Bowling Green, OH.

Bruckerhoff, L.A. 2023. Dry, drying, drought: How do stream communities respond to drying? University of Minnesota Conservation Science Series. Virtual.

Bruckerhoff, L.A., C. Yackulic, D. Eppehimer, K. Bestgen, & J. Schmidt. 2023. Identifying demographic uncertainties and vulnerabilities in an invasive Smallmouth Bass population: Implications for reservoir management and mechanical removal efforts. Presentation to FISHBIO Consulting, Virtual.

Bruckerhoff, L.A. 2023. The new abnormal: Exploring water management options to conserve native fish in the face of climate change. Oklahoma State University Department of Integrative Biology Department Seminar. Stillwater, OK.

Bruckerhoff, L.A. 2022. Working at the Confluence: Freshwater Conservation in a Changing World. The Ohio State University Department of Ecology, Evolution, and Organismic Biology Departmental Seminar. Columbus, OH.

Bruckerhoff, L.A. 2022. The new abnormal: Exploring water management options to conserve native fish in the face of climate change. Texas Tech University Natural Resources Management Departmental Seminar. Virtual.

Bruckerhoff, L.A. 2019. Untangling relationships between landscapes, community structure, and biotic interactions. Invited Webinar, US. Fish and Wildlife Service Regional Office, Lakewood, CO.

Bruckerhoff, L.A. 2019. Untangling relationships between landscapes, community structure, and biotic interactions. Invited Seminar, Biology Department, Pittsburg State University, KS.

Bruckerhoff, L.A. & K.B. Gido. 2018. Untangling relationships between landscapes, community structure, and biotic interactions. Invited Ecology and Evolutionary Biology Seminar, Division of Biology, Kansas State University.

Platforms- Contributed

(*presenter, ^undergraduate; +graduate student, ǂpostdoctoral researcher)

*+M. Herbruck and L.A. Bruckerhoff. 2026. Intra-annual spatiotemporal dynamics of species and community dynamics. Oral presentation at the Great Lakes Chapter of the Ecological Society of America. Cleavland, OH.

*ǂ M. White, C.E. Lyles, L.A. Bruckerhoff, C.B. Yackulic, P. Budy, and C.A. Pennock. 2026. Flow reductions shape invertebrate communities in dryland river systems. Oral presentation at the Society for Freshwater Science. Spokane, WA.

*+Weaver, M., K. Gido, S. Satterthwaite, J. Wedel, J. Lapin, L. Bruckerhoff, & +M. Bennett. 2026. Part 4: Upper Soldier Creek Watershed Flow Permanence and Soil–Water Interactions Shape Fish Communities. Oral presentation at the Kansas Natural Resources Conference.

*+Hudson, R., C.A. Pennock, & L.A. Bruckerhoff. 2026. Predicting the success of silver carp reproduction in Ohio tributaries of the Ohio River. Ohio Aquatic Invasive Species Committee: winter 2026 meeting. Columbus, OH.

*+Dowling, J.M., L.A. Bruckerhoff, & C.A. Pennock. 2025. Movements and habitat associations of a diverse fish assemblage in the Scioto River. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Drake, S., L.A. Bruckerhoff, B. Miltner, N. Shoobs, & C.A. Pennock. 2025. Water quality improvements correspond with the increased occurrence of fish and aquatic insects. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Hudson, R., C.A. Pennock, & L.A. Bruckerhoff. 2025. Predicting the success of silver carp reproduction in Ohio tributaries of the Ohio River. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Drake, S., L.A. Bruckerhoff, B. Miltner, & C.A. Pennock. 2025. Water quality improvements correspond with the increased occurrence of fish and aquatic insects. Ohio Water Resources Center Interdisciplinary Water Symposium. Columbus, Ohio.

*+Dowling, J.M., L.A. Bruckerhoff, & C.A. Pennock. 2025. Movements and habitat associations of a diverse fish assemblage in the Scioto River. Water Management Association of Ohio. Columbus, OH.

*Yackulic, C.B., D.E. Eppehimer, L.A. Bruckerhoff, K.E. Behn, B.R. Deemer, K.L. Dibble, M. Dzul, L.E. Hansen, B.D. Healy, B.J. Miller, J. Korman, J. Arnold, C. Clancy, S. Favrot, D. Rogowski, K. Shollenberger, and L. Tennant. 2025. A Cool Mix: Casual inference, adaptive management, and environmental flows. 17th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region. Flagstaff, AZ.

*Eppehimer, D.E., C.B. Yackulic, B.D. Healy, and L.A. Bruckerhoff. 2025. Forecasting decadal scale Smallmouth Bass invasion dynamics to identify critical uncertainties and inform management and water policy. 17th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region. Flagstaff, AZ.

*ǂDuskey, E., C.B. Yackulic, M. Dzul, D. Eppehimer, & L.A. Bruckerhoff. 2025. Forecasting impacts of invasive smallmouth bass on native fishes of the Colorado River basin.
17th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region. Flagstaff, AZ.

*Yackulic, C.B., D.E. Eppehimer, L.A. Bruckerhoff, & K. Dibble. 2025. Forecasting invasion dynamics and developing causal knowledge to inform reservoir operations and water storage policy. Ecological Society of America, Baltimore, MD.

*+Shake, A., J. Hoffmeier, & L.A. Bruckerhoff. 2025. Effects of hydrologic connectivity and local factors on freshwater mussel occupancy in off-channel habitats. Freshwater Mollusks Conservation Society, Grand Rapids, MI.

*Bruckerhoff, L.A., C. Yackulic, & D. Eppehimer. 2025. Forecasting non-native smallmouth bass responses to future hydrologic conditions in the upper Colorado River basin. Society for Freshwater Science, San Juan, Puerto Rico.

*ǂDuskey, E., D. Fenner, and L. Bruckerhoff. 2025. Leveraging spatial heterogeneity of imperiled populations for stream conservation goals. Society for Freshwater Science, San Juan, Puerto Rico.

*+Weaver, M., K. Gido, L. Bruckerhoff, & +M. Benett. 2025. Estimating survival of prairie fishes in intermittent streams with variable water permanence. Kansas Natural Resource Conference, Manhattan, KS.

*+Bennett, M., K. Gido, +M. Weaver, & L. Bruckerhoff. 2025. Characterizing drying regimes and identifying environmental drivers of stream drying. Society for Freshwater Science, San Juan, Puerto Rico.

*Bruckerhoff, L.A., ^V. Rendon, and +B. Kelly. 2025. Recovery of intermittent stream communities across variable drying regimes. Joint Meeting of the OH, WV, and PA Chapters of the American Fisheries Society. Wheeling, WV.

*ǂMiller, A., D. Eppehimer, C. Yackulic, & L.A. Bruckerhoff. 2025. Identifying broad-scale drivers of riverine fish occurrence in their native and non-native range. Joint Meeting of the OH, WV, and PA Chapters of the American Fisheries Society. Wheeling, WV.

*+Schumacher, Madeline N. and Bruckerhoff, L.A. 2025. Multiscale habitat drivers of occupancy of the endemic Beaded Darter in the Ouachita Highlands. Southern Division of the American Fisheries Society Annual Meeting, Asheville, NC.

*+ Wilson, K., L.A. Bruckerhoff, ǂE. Duskey, J. Hood, H. Luken. Z. Slagle, and S. Ludsin. 2024. Understanding long-term angling success for Yellow Perch in Western Lake Erie. 2024. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*Pritt, J., J. Conroy, L. Bruckerhoff, and C. Pennock. Ohio River Sauger: Knowledge gaps for one of Ohio's most important yet understudied fishes. 2024. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Foley, A., ǂ.E. Dukey., J. Hood, L.A. Bruckerhoff, and S. Ludsin. 2024. Understanding mechanisms underlying recruitment declines in central Lake Erie's Yellow Perch population. 2024. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Foley, A., J. Hood, L.A. Bruckerhoff, and S. Ludsin. 2024. Understanding mechanisms underlying recruitment declines in central Lake Erie's Yellow Perch population. American Fisheries Society Annual Meeting. Honolulu, HI.

*Yackulic, C.B, D.E. Eppehimer, L.A. Bruckerhoff, B.D. Healy, and A.D. Millerǂ. 2024. Forecasting to forestall an ongoing Smallmouth Bass invasion. American Fisheries Society Annual Meeting. Honolulu, HI.

*Bruckerhoff, L.A., +B.T. Kelly, and ^V. Rendon. 2024. Recovery of intermittent stream communities across variable drying regimes. Society for Freshwater Science, Philadelphia, PA.

*ǂDuskey, E., C.A. Pennock, and L. A. Bruckerhoff. 2024. Widespread density dependence in stream fishes. Society for Freshwater Science, Philadelphia, PA.

*+Wilson, K., L.A. Bruckerhoff, Z. Slagle, H. Luken, and S. Ludsin. 2024. Preliminary insights into factors that drive Yellow Perch angling success in western Lake Erie. World Fisheries Congress, Seattle, WA.

Ludsin, S., L.A. Bruckerhoff, *^O. Houpt, and +K. Wilson. 2024. Understanding the impact of invasive Bythotrephes longimanus on yellow perch angling success in western Lake Erie. Society for Freshwater Science, Philadelphia, PA.

*Gido, K.B., M.R. Bogaard, S. M. Bonjour, L.A. Bruckerhoff, J.E. Cleveland, K. Epping+, C.K. Hedden, S.C. Hedden, G.W. Hopper, K. Jackson+, E. Krellwitz+, E.C. Martin, C.A. Pennock, P.J. Pfaff, E.A. Renner, L.Rowley, and J.E. Whitney. 2024. Cascading effects of woody encroachment on prairie stream fishes. Society for Freshwater Science, Philadelphia, PA.

^*Eastep, J., L.A. Bruckerhoff, & K.B. Gido. 2023. Examining Diet Variability and the Ecological Role of Green Sunfish (*Lepomis cyanellus*) in Great Plains Streams. Entomological Society of America annual meeting. National Harbor, MD.

^*Eastep, J., L.A. Bruckerhoff, & K.B. Gido. 2023. Examining Diet Variability and the Ecological Role of Green Sunfish (*Lepomis cyanellus*) in Great Plains Streams. Oklahoma Academy of Science. Tulsa, OK.

^*Wolfenkoehler, W., J.M. Long, R. Gary^, R.A. Snow, J.D., Schooley, L.A. Bruckerhoff, & R.C. Lonsinger. 2023. Utility of side-scan and down-scan sonar for monitoring Paddlefish. American Fisheries Society annual meeting. Grand Rapids MI.

*Eppehimer, D.E., Yackulic, C.B., Bruckerhoff, L.A., Wang, J., Young, K.L., Bestgen, K.R., & J.C. Schmidt. 2023. Drought, water storage, and an invasion: Smallmouth Bass in the Grand Canyon. American Fisheries Society annual meeting special symposium. Grand Rapids MI.

*Bruckerhoff, L.A., C. Yackulic, D. Eppehimer, K. Bestgen, & J. Schmidt. 2022. Identifying demographic uncertainties and vulnerabilities in an invasive Smallmouth Bass population: Implications for reservoir management and mechanical removal efforts. Desert Fishes Council Annual Meeting. St George, UT.

*Bruckerhoff, L.A., C. Yackulic, D. Eppehimer, K. Bestgen, B. Neilson, B. Mihalevich, J. Schmidt, J. Wang, & K.Wheeler. 2022. Multi- species population models predict native fish responses to interactive effects of climate change and non-native fish in the Colorado River basin. Joint Aquatic Sciences Meeting, Grand Rapids, MI.

*+Kelly, B. & L.A. Bruckerhoff. 2022. The life cycle of intermittent streams: How do fish communities respond to annual cycles of wetting and drying?. Joint Aquatic Sciences Meeting, Grand Rapids, MI.

*Bruckerhoff, L.A., K. Wheeler, K. Dibble, B.A. Mihalevich, B.T. Neilson, J. Wang, C.B. Yackulic, & J.C. Schmidt. 2021. Water Storage Decisions and Consumptive Use Constrain Ecosystem Management under Severe Sustained Drought. Desert Fishes Council Annual Meeting. Virtual.

*Bruckerhoff, L.A., C.A. Pennock, & K.B. Gido. 2021. Scale-dependent patterns of prey aggregation and spatial overlap with predators mediate consumption rates. Oklahoma State Chapter of the American Fisheries Society Annual Meeting, Hulbert, OK.

*Bruckerhoff, L.A., Yackulic, C., Bestgen, K., & Schmidt, J. 2020. Will changes to water storage policy facilitate or hamper recovery of native fishes? Upper Colorado River Basin Biological Committee Meeting. Virtual.

*Bruckerhoff, L.A., C.A. Pennock, & K.B. Gido. 2020. Scale-dependent patterns of prey aggregation and spatial overlap with predators mediate consumption rates. American Fisheries Society Annual Meeting, Virtual.

*Bruckerhoff, L.A., C.A. Pennock, & K.B. Gido. 2020. Scale-dependent patterns of prey aggregation and spatial overlap with predators mediate consumption rates. Kansas Natural Resource Conference, Manhattan, KS.

*Bruckerhoff, L.A., K.B. Gido, & M. Estey. 2019. Untangling effects of predators and landscape factors as drivers of stream fish community structure. Joint Meeting of American Fisheries Society and The Wildlife Society. Reno, NV.

*Bruckerhoff, L.A. 2019. Life is a Highway: Mapping barriers to stream fish movement. Google Geo for Good Summit. Sunnyvale, CA.

*Bruckerhoff, L.A., K.B. Gido, & M. Estey. 2019.Untangling effects of predators and landscape factors as drivers of stream fish community structure. Society for Freshwater Science. Salt Lake City, UT.

*Bruckerhoff, L.A., K. Connell, J. Guinnip, E. Adhikari, A. Godar, K. Gido, A. Boyle, A. Hope, A. Joern, & E. Welti. 2019.Grassland plant and animal communities respond uniquely to variation in climate and land management. Kansas Natural Resource Conference. Manhattan, KS.

*Bruckerhoff, L.A. & K.B. Gido. 2018. Assessing landscape sampling strategies to evaluate the influence of multiple stressors on stream fish communities. American Fisheries Society Annual Meeting. Atlantic City, NJ.

*Bruckerhoff, L.A. & K.B. Gido. 2018. Assessing landscape sampling strategies to evaluate the influence of multiple stressors on stream fish communities. Great Plains Limnology Conference. Lawrence, KS.

*Bruckerhoff, L.A., K.B. Gido, M. Estey, & P. Moore. 2018. How do predators and landscape factors at multiple spatial scales drive fish community structure in the Flint Hills of Kansas?. Kansas Natural Resource Conference. Manhattan, KS.

*Bruckerhoff, L.A., K. Connell, J. Guinnip, E. Adhikari, A. Godar, C. Carson, R. Estes, P. Moley, & K. Gido. 2017. Integrating responses among plant and animal communities to variation in climate and land management on Konza Prairie. Annual Konza Prairie LTER Workshop. Manhattan, KS.

*Bruckerhoff, L.A. & M. Estey. 2016. Steps toward recovery: Identifying landscape factors influencing the distribution of Topeka Shiners (*Notropis topeka*) in the Flint Hills ecoregion of Kansas. USFWS Directorate Fellowship Program Symposium. Denver, CO.

*Bruckerhoff, L.A., D. Leasure, & D. Magoulick. 2016. Spatial-auto-correlation of fish traits across hydrologic regimes and implications for developing ecological-flow relationships. American Fisheries Society Annual Meeting. Kansas City, MO.

*Bruckerhoff, L.A., D. Leasure, & D. Magoulick. 2016. Spatial auto-correlation of fish traits across hydrologic regimes and implications for developing ecological-flow relationships. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.

*Bruckerhoff, L.A., D. Magoulick, & D. Leasure. 2015. Trait Composition of Fish Communities across Hydrologic Regimes. American Fisheries Society Annual Meeting. Portland, OR.

*Bruckerhoff, L.A. & D. Magoulick. 2015. Morphological variation in *Campostoma anomalum* across hydrologic regimes. Society for Freshwater Science. Milwaukee, WI.

*Bruckerhoff, L.A. & D. Magoulick. 2015. Morphological variation in *Campostoma anomalum* across hydrologic regimes. Arkansas Chapter of the American Fisheries Society. Little Rock, AR.

*Bruckerhoff, L.A., J. Havel, & S. Knight. 2013. Management and control of Eurasian Watermilfoil and Curlyleaf Pondweed. Upper Midwest Invasive Species Conference. Madison, WI.

*Bruckerhoff, L.A., J. Havel, & S. Knight. 2012. Air tolerance of aquatic invasive species. Trout Lake Research Symposium. Boulder Junction, WI.

*Bruckerhoff, L.A. & J. Havel. 2011. Distribution of invasive snails and the potential roles of substrate preference and competition. Trout Lake Research Symposium. Boulder Junction, WI.

Posters

(^undergraduate; +graduate student' *presenter)

*^Herman, N., +M. Herbruck, & L.A. Bruckerhoff. 2025. The Impact of Temperature on Daily Growth Rates of Larval Fish. Ohio State University Consortium of Summer Undergraduate Research Experiences Symposium, Columbus, OH.

*+Howard, A., J. Pritt, J. Conroy, & L.A. Bruckerhoff. 2025. Quantifying spawning phenology and fecundity of Ohio River Sauger. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Herbruck, M. & L.A. Bruckerhoff. 2025. Intra-annual Drivers of Stream Fish Community Variation in Cuyahoga River Tributaries. 15th Cleveland Metroparks Natural Resources Research and Management Symposium. Cleavland, OH.

*+Herbruck, M. & L.A. Bruckerhoff. 2025. Intra-annual Drivers of Stream Fish Community Variation in Cuyahoga River Tributaries. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

*+Bennett, M., K. Gido, +M. Weaver, & L. A. Bruckerhoff. 2025. Who's Afraid of the Big, Bad Mesopredator? Predation Risk and Intermittent Conditions Influence Fish and Crayfish Movement. Lake Erie and Inland Waters Annual Research Review. Columbus, OH.

+*Schumacher, M. & L.A. Bruckerhoff. 2024. Multiscale habitat drivers of occupancy of the endemic Beaded Darter in the Ouachita Highlands. Ohio Chapter of the American Fisheries Society Annual Meeting, Mt. Sterling, OH.

^*Rendon, V.P. ^, +B.T. Kelly, & L.A. Bruckerhoff. 2023. The Impacts of Intermittency on Surface Water Crayfish Communities. SACNAS National Diversity in Stem Conference, Portland, OR.

^*Rendon, V.P., +B.T. Kelly, & L.A. Bruckerhoff. 2023. The Impacts of Intermittency on Surface Water Crayfish Communities. Oklahoma Chapter of the American Fisheries Society Annual Meeting. Grove, OK.

^*Wolfenkoehler, W., J.M. Long, R. Gary^, R.A. Snow, J.D., Schooley, L.A. Bruckerhoff, & R.C. Lonsinger. 2023. Utility of side-scan and down-scan sonar for monitoring Paddlefish. American Fisheries Society annual meeting. Grand Rapids MI.

^*Rendon, V.P., +B.T. Kelly, & L.A. Bruckerhoff. 2023. The Impacts of Intermittency on Surface Water Crayfish Communities. Oklahoma State Undergraduate Research Symposium. Stillwater, OK.

^*Eastep, J., L.A. Bruckerhoff, & K.B. Gido. 2022. Examining Diet Variability and the Ecological Role of Green Sunfish (*Lepomis cyanellus*) in Great Plains Streams. Oklahoma State Undergraduate Research Symposium. Stillwater, OK.

*Bruckerhoff, L.A., K. Connell, J. Guinnip, E. Adhikari, A. Godar, C. Carson, R. Estes, P. Moley, & K. Gido. 2017. Integrating responses among plant and animal communities to variation in climate and land management on Konza Prairie. Konza Prairie Long Term Ecological Research Meeting. Manhattan, KS.

*Bruckerhoff, L.A., K.B. Gido, M. Estey, & P. Moore. 2016. Steps toward Recovery: Identifying Landscape Factors Influencing the Distribution of Topeka Shiners (*Notropis topeka*) in the Flint Hills Ecoregion of Kansas. Kansas Natural Resource Conference. Wichita, KS.

*Bruckerhoff, L.A. & D. Magoulick. 2015. Morphological variation across hydrologic regimes. American Fisheries Society Annual Meeting. Portland, OR.

*Bruckerhoff, L.A., J. Havel, & S. Knight. 2013. Survival of invasive aquatic plants after air exposure and implications for dispersal by recreational boats. Ecological Society of America Annual Meeting. Minneapolis, MN.

*Bruckerhoff, L.A., J. Havel, & S. Knight. 2012. Survival of invasive aquatic plants after air exposure. Missouri Natural Resource Conference. Branson, MO.

TEACHING

Instructor of Record, Department of Evolution, Ecology, and Organismal Biology, Ohio State University
Organismal Diversity (2026), 23 students, undergraduate
Graduate Seminar in Quantitative Methods, 6 students, graduate
Organismal Diversity (2025), 20 students, undergraduate
Population Ecology (2024), 13 students, undergraduate/graduate
Organismal Diversity (2023), 44 students, undergraduate

Co-Instructor of Record, Department of Natural Resources and Ecology Management, Oklahoma State University
Advanced Community Ecology, 14 students, graduate
Multivariate Analysis of Communities, 2 students, graduate

Co-Instructor of Record, Division of Biology, Kansas State University
Introduction to Wildlife, Fisheries, and Conservation Biology, lecture, 70 students, undergraduate

Guest Lecturer, Division of Biology, Kansas State University
Analysis of Ecological Gradients, lecture, 10 students, graduate
Ecology, lecture, 70 students, undergraduate
Fisheries Management, recitation, 10 students, undergraduate
Aquatic Ecology, lecture, 15 students, undergraduate

Teaching Assistant, Division of Biology, Kansas State University
Organismic Biology, laboratory, 35 students, undergraduate
Principles of Biology, studio format, 50 students, undergraduate

Teaching Assistant, Department of Biological Sciences, University of Arkansas
Human Physiology, laboratory, 20 students, undergraduate
Principles of Biology, laboratory, 20 students, undergraduate

MENTORING

Graduate Students

Current

Cade Roach, PhD, (Fall 2026 – expected Spring 2030)
Alexa Howard, MS, (Fall 2025 – expected Spring 2027)
Elle Krellwitz, PhD, (Fall 2025 – expected Spring 2029)
Ryan Hudson, PhD, (Fall 2025 - expected Spring 2029)
Megan Herbruck, MS, (Fall 2024 - expected Spring 2026)
Meredith Bennett, PhD, (Fall 2024 - expected Spring 2028)

Completed

Abigail Shake, MS, Spring 2025, Current position: Malacologist, EnviroScience Inc.
Madeline Schumacher, MS, Spring 2025, Current position: Rivers and Streams Biologist, Nebraska Game and Fish
Benjamin Kelly, MS, Fall 2023, Current position: Fisheries Biologist, Bureau of Land Management

Committees

Reagan Oller, MS, Ohio State University (2026 - present)
Sophia Holupka, MS, Ohio State University (2026 - present)
Julia Glandorff, PhD, Ohio State University (2025 – present)
Gabriella Hernandez, MS, Ohio State University (2025 – present)
Maija Weaver, PhD, Kansas State University (2024 – present)
Demetra Williams, PhD, Ohio State University (2024 – present)
James Dowling, PhD, Ohio State University (2024-present)
Seth Drake, PhD, Ohio State University (2024-present)
Allison Williams, PhD, Ohio State University (2025-present)
Hikaru Keebler, PhD, Ohio State University (2024- present)
Noma Semler, MS, Ohio State University (2024- present)
Kylee Wilson, PhD, Ohio State University, (2023-present)
Lizzy Sakulich, MS, Ohio State University (2024-2025)
Hunter Torolski, MS, Oklahoma State University, (2023-2025)
Andrew Foley, MS, Ohio State University (2024-2025)
Jacob Bently, MS, Ohio State University (2024-2025)

Kaitlin Ulin, MS, Ohio State University (2024)
Benjamin Murley, MS, Oklahoma State University (2022-2024)
Daniel Longue, MS, Oklahoma State University (2021-2023)

Postdoctoral Researchers

Elizabeth Duskey (2023-present), Andrew Miller (2023-2025)

Undergraduate Students

(*Poster, +Presentation)

Ohio State University:

Lizzie Feeney (2025-present, thesis committee chair)
Noah Herman (2025, Big 10 SROP)
Joel Steinbicker (2025, Honors thesis committee)
Kendall Ashley (2024, REU Student)
Michael Begines (2023 - 2025)
Olivia Houpt (2024, Research distinction thesis committee)

Oklahoma State University:

Vanessa Rendon[*+] (2022-2025), Jamie Eastep[*+] (2021-2023)

Kansas State University:

Jaden Reed (2019-2020), Emily Samuel (2018-2020), Kristin Kersten[*] (2018-2019), Andrew Hagemann[+] (2017-2020)

University of Arkansas:

Allison Yarra[*+] (2013-2014)

SERVICE

Editorial and Reviewing

Associate Editor, *Canadian Journal of Fisheries and Aquatic Sciences*, 2022-present

Reviewer

Journal of Applied Ecology, Freshwater Biology, Hydrobiologia, Biological Invasions, Southwestern Naturalist, Aquatic Sciences, Freshwater Science, Ecology of Freshwater Fish, Environmental Monitoring and Assessment, Western North American Naturalist, Freshwater Biology, Environmental Management, Fisheries Research, Science of the Total Environment, Ecology Letters, Canadian Journal of Fisheries and Aquatic Sciences, Ecology and Evolution, Freshwater Mollusk Conservation and Biology, Oikos, Proceedings of the Royal Society B, Global Change Biology, Oecologia, International Journal of High School Research

Departmental

Department of Evolution, Ecology, and Organismal Biology, The Ohio State University

Advisory Committee, 2024-2025, 2025- Present
Graduate Studies Committee, 2024-2025 and 2025-Present
Assistant Professor of Biodiversity Faculty Search Committee, 2024-2025
Director of the Museum of Biological Diversity Faculty Search Committee, 2024-2025

Undergraduate Research ad hoc Committee, 2023-2024
Junior Faculty Committee, 2023-present

University

The Ohio State University

Graduate Faculty Representative, Phd defense, Department of City and Regional Planning

Professional Societies

Committee Chair, Student Events, American Fisheries Society 2026 Annual Meeting, 2025-2026
Planning Committee Member, American Fisheries Society 2026 Annual Meeting, 2025-2026
Best Student Presentation Judge, Ohio Chapter of the American Fisheries Society, 2025.
Best Student Presentation Judge, Society for Freshwater Science, 2024, 2025.
Award Committee, Stevenson Lectureship Award, Canadian Society of Aquatic Sciences, 2023
Award Committee, John E. Skinner Memorial for the American Fisheries Society, 2020
President, Arkansas Student Sub Unit of the American Fisheries Society
Secretary, President, Missouri State Student Sub Unit of the American Fisheries Society

Other

Workshop Co-Organizer, Occupancy Modeling, Oklahoma State University, 2023
Steering Committee and Workshop Organizer**.** Prairie Fishes and Streams Collaborative, 2022
Judge**,** 3-Minute Thesis Symposium, Oklahoma State University, 2022
Technical Advisor, Kiamichi River Environmental Flows Sustainable Rivers Program, 2022
Graduate Representative, Kansas State University Faculty Search Committee, 2017-2018
Treasurer, Kansas State University Biology Graduate Student Association, 2018-2019

AWARDS, HONORS, SCHOLARSHIPS, FELLOWSHIPS

2020 Chris Edler Award for Outstanding Research on Konza Prairie $250

2019 John E. Skinner Memorial Award- American Fisheries Society $800

2019 Biology Graduate Student Training Grant $500

2019 Kansas Chapter of the American Fisheries Society Professional Development Grant $250

2019 Best Student Paper Award- Kansas Chapter of The Wildlife Society

2019 Otto Tiemeier-Frank Cross Scholarship- Kansas Chapter of the American Fisheries Society $300

2019 Best Student Paper Award- Kansas Chapter of the American Fisheries Society

2018 Kansas State University Graduate School Travel Award $400

2016-2018 Timothy R. Donoghue Graduate Scholarship $10,000

2017, 2019 Kansas State University College of Arts and Sciences Travel Award $1,600

2016 Directorate Fellowship Program $5,000

2015 American Fisheries Society (Arkansas Chapter) Outstanding Student Member Award $100

2014, 2015 University of Arkansas Graduate School Travel Grant $1,200

2012 ITW Scholarship $3,000

2010 University of Tasmania High Distinction Research Award

2008-2012 Board of Governor's Scholarship, Tuition ~$28,000

2008-2012 Missouri State University Honors College

SCIENCE COMMUNICATION

2019 Workshop: Blogging and Presenting Your Research Digitally Professional Development Event.

2019 ART(ifacts): SciComm 2019 Presenter

2018-2019 Blog Manager and Contributor: *Science Snapshots* https://sciencesnapshots.com/

2017-2020 NPR Friends of Joe's Big Idea Office Hours Reviewer

2017 Improv for Scientists Workshop: Kansas Science Communication Initiative

2017 Science Communication Training: Sunset Zoo and Kansas State University

PROFESSIONAL MEMBERSHIPS

American Fisheries Society (2011-present)

Society for Freshwater Science (2014-present)

American Society of Ichthyologists and Herpetologists (2014-2020)

Desert Fishes Council (2020-2024)