Casey A. Pennock

Curriculum Vitae (September 2026)

CONTACT INFORMATION

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EDUCATION

Ph.D. Biology, Kansas State University, 2019
M.S. Biology, Kansas State University, 2016
B.S. Wildlife, Fisheries, and Conservation Biology, Kansas State University, 2014
A.S. Natural Resource Management, Hutchinson Community College, 2010

EMPLOYMENT/APPOINTMENTS

Assistant Professor, Department of EEOB, The Ohio State University, 2023-Present
Co-Director, Aquatic Ecology Laboratory, The Ohio State University, 2023-Present
Affiliated Investigator, Arctic Long Term Ecological Research site, 2025-Present
Adj. Assistant Professor, Department of Watershed Sciences, Utah State University, 2023-2025
Res. Assistant Professor, Department of Watershed Sciences, Utah State University, 2022-2023
Research Scientist, Department of Watershed Sciences, Utah State University, 2021-2022
Postdoctoral Scholar, Department of Watershed Sciences, Utah State University, 2020-2021
Postdoctoral Scholar, Division of Biology, Kansas State University, 2019-2020
GRA/GTA, Division of Biology, Kansas State University, 2015-2019
Undergraduate Research Assistant, Division of Biology, Kansas State University, 2012-2015
Stream Ecologist Technician, Kansas Department of Wildlife, Parks, and Tourism, 2010-2013

MILITARY SERVICE

Kansas Army National Guard, Highest Rank Earned: Staff Sergeant, 2008-2017
U.S. Army, Combined Joint Task Force-Horn of Africa, Djibouti, 2011-2012

FUNDING AND SUPPORT (Total awarded at OSU as PI or Co-PI as of 09/2026 = $2,752,571.18)

Ongoing

Fish Management in Ohio, 2026-2027, Ohio Department of Natural Resources-Division of Wildlife, Total funds: $2,000,000.
Below are research budgets that I directly manage, am a "true" PI or Co-PI (i.e., administrative and research projects that are managed by another PI, ODNR-DOW partner, or subcontractor as part of this umbrella grant are not listed).

- FADR94- Movement and habitat use of Sauger in the Ohio River. PI, 2026-2027, $215,184.
- FADR96- Largemouth Bass telemetry in reservoirs. PI, 2026-2027, $168,922.

Ecology and response of native and nonnative fishes to management actions, 08/12/2025-08/31/2029, U.S. Bureau of Reclamation. Total funds: $3,129,017.07; awarded to date: $458,317.07.
PI: **C. Pennock**

Invasive carp reproductive potential and relative abundance in Ohio tributaries to the Ohio River, 10/01/2024-09/30/2026, U.S. Fish and Wildlife Service, Total funds: $163,922.
PI: Linsdey Bruckerhoff, The Ohio State University, Co-PI: **C. Pennock.**

Invasive carp reproductive potential and relative abundance in Ohio tributaries to the Ohio River and invasive carp movement. 10/15/2025-12/31/2026, U.S. Fish and Wildlife Service, Total funds: $297,005.
PI: Lindsey Bruckerhoff, The Ohio State University, Co-PI: **C. Pennock**.

Identifying the relative importance of abiotic, top-down, and bottom-up drivers of Emerald Shiner population decline in western Lake Erie, 01/01/2026-12/31/2028, National Oceanic & Atmospheric Administration, Total funds: $189,948.
PI: Lindsey Bruckerhoff, The Ohio State University, Co-PI: **C. Pennock**, J. Hood

Legacy phosphorus in rivers: Quantification of fine-grain sediment P stores and their influence on bioavailable P release in the Maumee River, 03/01/2026-06/30/2028, Ohio Department of Higher Education, Total funds: $447,361.
PI: Jim Hood, Ohio State University, Co-PI: **C. Pennock**.

Lower White River conservation, restoration, and monitoring project FY27, 07/01/2026-06/30/2027, Utah Division of Wildlife Resources, Total funds: $60,000.
PI: **C. Pennock**.

Completed
At OSU:

Fish Management in Ohio, 2025-2026, Ohio Department of Natural Resources-Division of Wildlife, Total funds: $2,000,000.
Below are research budgets that I directly manage, am a "true" PI or Co-PI (i.e., administrative and research projects that are managed by another PI, ODNR-DOW partner, or subcontractor as part of this umbrella grant are not listed).

- FADR94- Movement and habitat use of Sauger in the Ohio River. PI, 2025-2026, $182,369.

Ohio Biodiversity Conservation Partnership FY26, 2025-2026, Ohio Department of Natural Resources, Total funds: $1,942,956.
Below are research budgets that I directly manage, am a "true" PI or Co-PI (i.e., administrative and research projects that are managed by another PI, ODNR-DOW partner, or subcontractor as part of this umbrella grant are not listed).

- FCSRXX-Fish movement ecology in the Scioto River basin: understanding space and habitat use in a relatively connected basin. PI, 2025-2026, $151,375.

Data synthesis to inform nonnative fish management in the San Juan River to aid endangered fish recovery, 2024-2026, U.S. Fish and Wildlife Service, Total funds: $136,318.
PI: **C. Pennock**, Co-PI: Tim Walsworth (Utah State University)

Ohio Biodiversity Conservation Partnership FY25, 2024-2025, Ohio Department of Natural Resources, Total funds: $2,064,852.
Below are research budgets that I directly manage, am a "true" PI or Co-PI (i.e., administrative and research projects that are managed by another PI, ODNR-DOW partner, or subcontractor as part of this umbrella grant are not listed).

- FCSRXX-Fish movement ecology in the Scioto River basin: understanding space and habitat use in a relatively connected basin. PI, 2024-2025, $201,823.11.

Lower White River conservation, restoration, and monitoring, 2024-2025, Utah's Watershed Restoration Initiative, Total funds: $287,758, awarded to Co-PI Pennock: $48,027.
PI: Holly Mitchell, Bureau of Land Management, Co-PI: **C. Pennock**, W. Macfarlane, J. Leary.

Process-based Riverscape Restoration, Dugout Ranch, Utah, Phase I, 2024-2025, U.S. Department of Agriculture, National Fish and Wildlife Foundation, Total funds: $271,981.77, awarded to Co-PI Pennock: $32,000.
PI: Wally Macfarlane, Utah State University; Co-PI: **C. Pennock**, K. Redd.

Prior to OSU:

Estimating ecosystem production across gradients of river alteration in the Colorado River basin; could contemporary productivity be a limiting factor for native fishes? 2021-2025, U.S. Geological Survey, Grand Canyon Monitoring and Research Center, Total funds: $280,018.
PI: **C. Pennock**, Utah State University, Co-PI: P. Budy

Lower White River Conservation, Restoration, and Monitoring, 2022-2024, Utah' Watershed Restoration Initiative, Total funds: $273,716.
PI: Phaedra Budy, U.S. Geological Survey, Utah Cooperative Fish and Wildlife Research Unit, Utah State University; Co-PI: **C. Pennock**, Utah State University, W. Macfarlane

Literature review and data synthesis to inform nonnative fish management in the San Juan River (Phase 1), 2022-2024, U.S. Bureau of Reclamation, Total funds: $126,034.
PI: **C. Pennock**, Utah State University.

Using non-native vegetation to enhance in-stream habitat for native fishes, 2021-2023, U.S. Bureau of Reclamation, Total funds: $250,000.
PI: **C. Pennock**, Utah State University.

Characterizing the fish assemblage of the Lake Powell forebay and identifying the potential for non-native fish escapement and entrainment into Glen Canyon Dam, 2021-2023, U.S. Bureau of Reclamation, Total funds: $250,000.
PI: Phaedra Budy, U.S. Geological Survey, Utah Cooperative Fish and Wildlife Research Unit, Utah State University; Co-PI: **C. Pennock**, Utah State University.

Science panel for assessment of stocking Razorback Sucker in Grand Canyon, 2021-2022, U.S. Bureau of Reclamation, Total funds: $55,000.
PI: Phaedra Budy, U.S. Geological Survey, Utah Cooperative Fish and Wildlife Research Unit, Utah State University; Co-PI: **C. Pennock**, Utah State University.

PEER-REVIEWED PUBLICATIONS
(^undergraduate; +graduate student' *postdoctoral researcher)
In press or published (n = 49)

1. **Pennock, C. A.**, G. P. Thiede, P. Budy, A. Giblin, C. Luecke, and G. W. Kling. 2026. Ecological stability of zooplankton communities in changing arctic lakes over three decades. *Ecology* 107:e70500.
2. Drake+, S.A., L. A. Bruckerhoff, R. Miltner, N. F. Shoobs, and **C. A. Pennock**. 2026. Water quality improvements correspond with increased human use and occurrence of fish, aquatic insects, and freshwater mussles. *Ecological Indicators* 188:115034.

3. Friesen[+], B., **C. A. Pennock**, and P. Budy. 2026. Invasion potential of nonnative fishes through a large western dam into an iconic and vulnerable ecosystem. *Hydrobiologia* 853:3249-3268.
4. **Pennock, C. A.**, W. W. Macfarlane, P. Budy, J. Scamardo, and D. C. White. 2026. Bank-dwelling beavers contribute to the wood regime in a dryland river. *Ecology* 107:e70396.
5. Furby, J.[+], and **C. A. Pennock**. 2026. Spatiotemporal environmental gradients shape early life stage fish densities, assemblage structure, and growth in river-reservoir ecosystems. *Canadian Journal of Fisheries and Aquatic Sciences* 83:1-16.
6. Miller, B. J.[+], M. C. McKinstry, W. W. Macfarlane, S. Basset, P. Budy, and **C. A. Pennock**. 2025. Shrinking channels, growing threats: habitat degradation from channel narrowing and invasive vegetation in three dryland rivers *Journal of Environmental Management* 392:126714.
7. Budy, P., **C. A. Pennock**, S. Messenger[+], H. Pehrson[^], E. Adler[^], G. P. Thiede, N. R. Christman[+], B. C. Crump, A. E. Giblin, and G. W. Kling. 2025. Rapid recovery of an arctic lake ecosystem from a pulse disturbance caused by thermokarst failure. *Oecologia* 207:82.
8. Hood[^], E., J. M. Long, D. E. Shoup, **C. A. Pennock**, A. R. Dzialowski, and J. D. Schooley. 2025. The effect of turbidity on foraging by pre-rostrum, juvenile Paddlefish. *Transactions of the American Fisheries Society*.
9. Miller[+], B. J., M. C. McKinstry, P. Budy, and **C. A. Pennock**. 2024. Wood you believe it? Experimental nonnative wood addition enhances instream habitat for native dryland fishes. *River Research and Application* 40:1512-1526.
10. **Pennock**, **C. A.**, D. W. Speas, G. P. Thiede, and C. Michaud. 2024. Evaluation of post-stocking re-encounters of an endangered fish using a large, multi-agency database to inform recovery. *Endangered Species Research* 55:55-66.
11. Chavez, M. J.[+], P. Budy, **C. A. Pennock**, T. P. Archdeacon, and P. D. MacKinnon. 2024. Movement patterns of a small-bodied minnow suggest nomadism in a fragmented, sand-bed river. *Movement Ecology* 12:52.
12. Bogaard, M. R.[+], K. B. Gido, M. C. McKinstry, **C. A. Pennock**, A. Barkalow, S. M. Bonjour, J. Bowman, K. C. Creighton, B. A. Hines, and B. J. Schleicher. 2024. Capture-translocation restores spawning migration connectivity of Razorback Sucker *Xyrauchen texanus* in the fragmented San Juan River. *Transaction of the American Fisheries Society* 153:405-421 (Cover article).
13. **Pennock, C. A.**, B. D. Healy, M. R. Bogaard[+], M. C. McKinstry, K. B. Gido, C. Nathan Cathcart, P. D. MacKinnon, and B. Hines. 2024. Translocation in a fragmented river leads to demographic benefits for an imperiled fish assemblage. *Ecosphere* 15:e4874 (Cover article).
14. Kelley, K.[^], E. I. Gilbert, S. L. Durst, M. C. McKinstry, **C. A. Pennock**, P. D. MacKinnon, and N. R. Franssen. 2023. If you build it, will they pass? A systematic evaluation of fish

passage efficiency for three large-bodied warm-water fishes. *Canadian Journal of Fisheries and Aquatic Sciences* 80:1631-1643.

15. **Pennock, C. A.**, B. Albrecht, R. J. Rogers, and M. C. McKinstry. 2023. Can spatial and temporal differences in fish assemblage structure inform conservation of an endangered species in a large western reservoir? *Transactions of the American Fisheries Society* 152:475-489.
16. Bogaard, M. R.[+], K. B. Gido, M. C. McKinstry, and **C. A. Pennock**. 2023. Water temperature predicts Razorback Sucker *Xyrauchen texanus* spawning migrations. *Environmental Biology of Fishes* 106:1503-1517.
17. **Pennock, C. A.**, G. P. Thiede, and P. Budy. 2023. Density-dependent processes and population dynamics of native sculpin in a mountain river. *Ecology of Freshwater Fish* 32:593-605.
18. Gido, K. B., S. C. Hedden, L. A. Bruckerhoff, **C. A. Pennock**, C. K. Hedden, G. W. Hopper, E. A. Renner, E. R. Johnson, and B. Postlethwait. 2023. Removing a perched culvert facilitates dispersal of fishes in an intermittent prairie stream. *Freshwater Science* 42:33-43.
19. **Pennock, C. A.**, L. A. Bruckerhoff, K. B. Gido, A. L. Barkalow, M. J. Breen, P. Budy, W. W. Macfarlane, and D. L. Propst. 2022. Failure to achieve recommended environmental flows coincides with declining fish populations: long-term trends in a regulated and unregulated river. *Freshwater Biology* 67:1631-1643.
20. **Pennock, C. A.**, P. Budy, and W. W. Macfarlane. 2022. Effective conservation of desert riverscapes requires protection and rehabilitation of in-stream flows with rehabilitation approaches tailored to water availability. *Frontiers in Environmental Science* (invited) 10:870488.
21. Dean, E[+]. M., A. R. Cooper, L. Wang, W. M. Daniel, S. David, C. Ernzen, K. B. Gido, E. Hale, T. J. Haxton, W. Kelso, N. Leonard, C. Lido, J. Margraf, M. Porter, **C. Pennock**, D. Propst, J. Ross, M. D. Staudinger, G. Whelan, and D. M. Infante. 2022. The North American freshwater migratory fish database (NAFMFD): Characterizing the migratory life histories of freshwater fishes of Canada, the United States and Mexico. *Journal of Biogeography* 49:1193-1203.
22. Hedden, S. C., K. B. Gido, C. K. Hedden, **C. A. Pennock**, B. R. Duran, B. A. Hines, E. I. Gilbert, M. C. McKinstry, S. L. Durst, and N. R. Franssen. 2022. Determining resource intake of a nonnative fish highlights potential predatory and competitive interactions. *Biological Invasions* 24:2351-2364.
23. **Pennock, C. A.**, W. C. Saunders, and P. Budy. 2022. High densities of conspecifics buffer native fish from negative interactions with an ecologically similar invasive. *Biological Invasions* 24:1283-1297.
24. **Pennock, C. A.**, P. Budy, W. W. Macfarlane, M. J. Breen, J. Jimenez, and J. C. Schmidt. 2022. Native fish need a natural flow regime. *Fisheries* 47:118-123.

25. Budy, P., **C. A. Pennock**, A. E. Giblin, D. White, C. Luecke, and G. W. Kling. 2022. Understanding the indirect effects of climate change via disturbance on pristine arctic lakes; delayed, multi-trophic level response and recovery to a ten-year, low-level fertilization experiment. *Limnology and Oceanography* 67:S224-S241.
26. Zhang, Q., J. Jin, P. Budy, S. E. Null, X. Wang, and **C. A. Pennock**. 2021. Predicting thermal responses of an arctic lake to whole-lake warming manipulation. *Geophysical Research Letters* 48:e2021GL092680.
27. Bruckerhoff, L. A., **C. A. Pennock**, and K. B. Gido. 2021. Do fine-scale experiments underestimate predator consumption rates? *Journal of Animal Ecology* 90:2391-2403.
28. Hedden, S. C., K. B. Gido, C. K. Hedden[+], **C. A. Pennock**, E. I. Gilbert, M. K. McKinstry, S. L. Durst, and N. R. Franssen. 2021. Quantifying consumption of native fishes by nonnative Channel Catfish in a desert river. *North American Journal of Fisheries Management* 41:S82-S94.
29. **Pennock, C. A.**, Z. Ahrens[+], M. C. McKinstry, P. Budy, and K. B. Gido. 2021. Trophic niches of native and nonnative fishes along a river-reservoir continuum. *Scientific Reports* 11:12140.
30. **Pennock, C. A.** and K. B. Gido. 2021. Spatial and temporal dynamics of fish assemblages in a desert reservoir over 38 years. *Hydrobiologia* 848:1231-1248.
31. **Pennock, C. A.**, P. Budy, C. Atkinson, and N. Barrett[+]. 2021. Effects of increased temperature on arctic slimy sculpin *Cottus cognatus* is mediated by food availability: Implications for climate change. *Freshwater Biology* 66:549-561.
32. **Pennock, C. A.**, B. A. Hines, D. S. Elverud, T. A. Francis, M. C. McKinstry, B. J. Schleicher, and K. B. Gido. 2021. Reservoir fish assemblage structure across an aquatic ecotone: Can river-reservoir interfaces provide conservation and management opportunities? *Fisheries Management and Ecology* 28:1-13.
33. **Pennock, C. A.**, M. C. McKinstry, and K. B. Gido. 2020. Razorback Sucker exhibit multiple movement strategies across a river-reservoir habitat complex. *Transactions of the American Fisheries Society* 149:620-634.
34. **Pennock, C. A.**, M. C. McKinstry, C. N. Cathcart, K. B. Gido, T. A. Francis, B. A. Hines, P. D. MacKinnon, S. C. Hedden, E. I. Gilbert, C. A. Cheek, D. W. Speas, K. Creighton, D. S. Elverud, and B. J. Schleicher. 2020. Movement ecology of imperiled fish in a novel ecosystem: river-reservoir movements by razorback sucker and translocations to aid conservation. *Aquatic Conservation: Marine and Freshwater Ecosystems* 30:1540-1551.
35. **Pennock, C. A.**, and L. A. Bruckerhoff. 2020. Qualitative observations of successful spawning by two species of small-bodied minnows following PIT tagging. *Western North American Naturalist* 80:253-256.
36. Hopper, G. W., K. B. Gido, **C. A. Pennock**, S. C. Hedden, B. D. Frenette, N. Barts, C. K. Hedden, and L. A. Bruckerhoff. 2020. Nowhere to swim: interspecific responses of prairie stream fishes in isolated pools during severe drought. *Aquatic Sciences* 82:42(2020).

37. Hopper, G. W., K. B. Gido, **C. A. Pennock**, S. C. Hedden, J. P. Guinnip, M. A. Fisher, C. M. Tobler, C. K. Hedden, and L. A. Bruckerhoff. 2020. Biomass loss and change in species dominance shift stream community excretion stoichiometry during severe drought. *Freshwater Biology* 65:403-416.
38. Perkin, J. S., T. A. Starks, **C. A. Pennock**, K. B. Gido, G. W. Hopper, and S. C. Hedden. 2019. Extreme drought causes recruitment failure in a fragmented Great Plains riverscape. *Ecohydrology* 12: e2120.
39. **Pennock, C. A.**, M. A. Farrington, and K. B. Gido. 2019. Feeding ecology of early life stage Razorback Sucker relative to other sucker species in the San Juan River, Utah. *Transactions of the American Fisheries Society* 148:938-951.
40. Dodds, W. K., L. Bruckerhoff, D. Batzer, A. Schechner, **C. Pennock**, E. Renner, F. Tromboni, K. Bigham, and S. Grieger. 2019. The freshwater biome gradient framework: predicting macroscale properties based on climate. *Ecosphere* 10:e02786.
41. Cathcart, C. N., **C. A. Pennock**, C. A. Cheek, M. C. McKinstry, P. D. MacKinnon, M. M. Conner, and K. B. Gido. 2018. Waterfall formation at a dynamic desert river delta isolates endangered fishes. *River Research and Applications* 34:948-956 (Cover article).
42. **Pennock, C. A.**, S. L. Durst, B. R. Duran, B. A. Hines, C. N. Cathcart, J. E. Davis, B. J. Schleicher, and N. R. Franssen. 2018. Predicted and observed responses of a nonnative Channel Catfish Ictalurus punctatus population following managed removal to aid the recovery of endangered fishes. *North American Journal of Fisheries Management* 38:565-578.
43. **Pennock, C. A.**, C. N. Cathcart, S. C. Hedden, R. E. Weber^, and K. B. Gido. 2018. Fine-scale movement and habitat use of a prairie stream fish assemblage. *Oecologia* 186:831-842.
44. **Pennock, C. A.**, D. Bender, J. Hofmeier, J. A. Mounts, R. Waters, V. D. Weaver, and K. B. Gido. 2018. Can fishways mitigate fragmentation effects on Great Plains fish communities? *Canadian Journal of Fisheries and Aquatic Sciences* 75:121-130.
45. **Pennock, C. A.**, K. B. Gido, J. S. Perkin, V. D. Weaver, S. R. Davenport, and J. M. Caldwell. 2017. Collapsing range of an endemic Great Plains minnow, Peppered Chub Macrhybopsis tetranema. *American Midland Naturalist* 177:57-68.
46. **Pennock, C. A.** 2017. Beautification of Great Plains rivers: a perspective on the use and appreciation of aquatic resources. *Fisheries* 42:83-87.
47. **Pennock, C. A.** and K. B. Gido. 2017. Density-dependence of herbivorous Central Stoneroller Campostoma anomalum in stream mesocosms. *Ecology of Freshwater Fish* 26:313-321.
48. **Pennock, C. A.** 2017. Effects of PIT tags on Red Shiner Cyprinella lutrensis and Sand Shiner Notropis stramineus. *Transactions of the Kansas Academy of Science* 120:87-93.
49. **Pennock, C. A.**, B. D. Frenette, M. J. Waters^, and K. B. Gido. 2016. Survival of and tag retention in Southern Redbelly Dace Chrosomus erythrogaster injected with two sizes of

PIT tags. *North American Journal of Fisheries Management* 36:1386-1394 DOI: 10.1080/02755947.2016.1227403

In review/revision

1. Lyles, C.[+], C. Yackulic, P. Budy, and **C. A. Pennock**. Gone with the flow: Flow reduction coincides with reduced metabolism and standing stock of benthic algae in desert rivers. *In revision at Limnology and Oceanography*.
2. Olson, S., D. Baker, J. Gilbert, W. W. Macfarlane, D. C. White, and **C. A. Pennock**. Large wood densities increase over two decades but remain spatially consistent in a dryland river invaded by woody vegetation. *In revision at Earth Surface Processes and Landforms*.
3. White, M.[*], C. E. Lyles[+], L. A. Bruckerhoff, C. B. Yackulic, P. Budy, and **C. A. Pennock**. Flow reductions shape invertebrate communities in dryland river systems. *In review at Ecohydrology*.
4.

In prep (draft available)

Rickfelder, A.[*], T. E. Walsworth, E. I. Glibert, S. L. Durst, B. Hines, B. Schleicher, and **C. A. Pennock**. Modeling invasive channel catfish population dynamics under long-term mechanical removal. *Prepared for Fisheries Research*.

Rickfelder, A.[*], T. E. Walsworth, E. I. Gilbert, S. L. Durst, and **C. A. Pennock**. Effectiveness of alternative mechanical control approaches for invasive channel catfish in a large riverine ecosystem. *Prepared for Journal of Applied Ecology.*

Duskey, E. P.[*], **C. A. Pennock**, and L. A. Bruckerhoff. Density dependence is widespread in stochastic environments. *Prepared for Ecology Letters.*

Palmieri, M., M. White[*], M. Partlow, and **C. A. Pennock**. A collapsing native fish assemblage in a dryland river coincides with declining hydrology and abundant nonnative species. *Prepared for Biological Conservation*.

NON-REFEREED PUBLICATIONS

1. **Pennock, C. A.**, P. Budy, S. A. Bonar, T. E. Dowling, K. B. Gido, E. I. Gilbert, B. R. Kesner, C. P. Paukert, M. C. Quist, J. Stahli, T. F. Turner, and D. L. Ward. 2022. Assessment of potential augmentation and management strategies for Razorback Sucker *Xyrauchen texanus* in Lake Mead and Grand Canyon: A Science Panel Summary. UTCFWRU 2022(3):1-31.
2. **Pennock, C. A.**, W. W. Macfarlane, P. Budy, J. Jimenez, and J. Goodell. 2022. Conservation, restoration, and monitoring plan for the lower White River, Utah. UTCFWRU 2022(1):1-78.

OTHER PRODUCTS

1. Carson, C. C. and **C. A. Pennock**. 2018. Unsustainable use of the High Plains Aquifer: Farming and fish communities left high and dry. *National Center for Case Study Teaching in Science*.
2. **Pennock, C. A.** 2017. Fishways, fragmentation, and imperiled Great Plains fishes. *The Canadian Science Publishing Blog*.
3. Fanshier, T.[^], **C. A. Pennock**, and J. Mounts. 2016. Finding a way for fish, people, and rivers. *Kansas Department of Wildlife, Parks and Tourism Magazine.*

SELECTED PRESENTATIONS

([^]undergraduate; [+]graduate student' *postdoctoral researcher, [#]presenter if not first author)

Holpuka[+], S., M. White, B. Marcek, and **C. A. Pennock**. 2026. Assessing Silver Carp *Hypophthalmichthys molitrix* movement and residency in the Ohio River basin to inform management. Annual Meeting of the American Fisheries Society, Columbus, Ohio (Oral presentation).

Drake[+], S., and **C. A. Pennock**. 2026. Stability of abundance-occupancy relationships of fishes before and after water quality improvements. Annual Meeting of the American Fisheries Society, Columbus, Ohio (Oral presentation).

White*, M., A. Rickfelder*, T. Walsworth, and **C. A. Pennock**. 2026. Why Y? Evaluating genetic bicontrol for invasive Channel Catfish management in the San Juan River Basin. Annual Meeting of the American Fisheries Society, Columbus, Ohio (Oral presentation).

Pennock, C. A., S. Drake[+], L. Bruckerhoff, N. Shoobs, and R. Miltner. 2026. Water quality improvements correspond with increased occurrence of fish, insects, and mussels. Annual Meeting of the American Fisheries Society, Columbus, Ohio (Oral presentation).

Olson, S., M. Porter, S. Drake[+], J. Dowling[+], **C. A. Pennock**, and M. White*. 2026. Utilizing side-scan-sonar to compare habitat and fish community diversity in the Scioto River. Annual Meeting of the American Fisheries Society, Columbus, Ohio (poster presentation).

Porter, M., J. Dowling[+], S. Olson, **C. A. Pennock**, and B. Zimmerman. 2026. Habitat use and movement of Lake Sturgeon reintroduced into the Scioto River. Annual Meeting of the American Fisheries Society, Columbus, Ohio (poster presentation).

Oller, R.[+], J. Pritt, M. Porter, S. Tyszko, and **C. A. Pennock**. 2026. Movement and habitat use of Sauger *Sander canadensis* in the Ohio River. Annual Meeting of the American Fisheries Society, Columbus, Ohio (poster presentation).

Sovic, M., R. Oller[+], A. Howard[+], and **C. A. Pennock**. 2026. Searching for the genetic markers of sex in Sauger, *Sander canadensis*. Annual Meeting of the American Fisheries Society, Columbus, Ohio (poster presentation).

Dowling, J.[+], L. Bruckerhoff, and **C. A. Pennock**. 2026. Seasonal shifts in habitat selection and movement of large river fishes. Annual Meeting of the American Fisheries Society, Columbus, Ohio (Oral presentation).

Perkin, J. S., T. E. Koralewski, T. M. Neeson, C. C. Vaughn, A. Whiteis, and **C. A. Pennock**. 2026. Streamflow depletion caused by groundwater pumping in the southern Great Plains diminishes stream fish conservation value, but not food or recreational value. Texas Chapter of the American Fisheries Society. (Oral presentation).

Drake, S.[+], L. A. Bruckerhoff, R. Miltner, N. Shoobs, and **C. A. Pennock**[#]. 2025. Water quality improvements correspond with increased occurrence of fishes, aquatic insects, and freshwater mussels. Lake Erie & Inland Waters Annual Research Review, Columbus, Ohio (Oral presentation).

Dowling, J. M.[+], L. A. Bruckerhoff, and **C. A. Pennock**. 2025. Movement ecology of a diverse fish assemblage in the Scioto River basin. Lake Erie & Inland Waters Annual Research Review, Columbus, Ohio (Oral presentation).

Hudson, R.[+], L. A. Bruckerhoff, and **C. A. Pennock**. 2025. Predicting the success of Silver Carp reproduction in Ohio tributaries of the Ohio River. Lake Erie & Inland Waters Annual Research Review, Columbus, Ohio (Oral presentation).

Dowling, J. M.[+], L. A. Bruckerhoff, and **C. A. Pennock**. 2025. Movements and habitat associations of a diverse fish assemblage in the Scioto River. Water Management Association of Ohio, Dublin, Ohio. (Oral presentation).

Drake, S.[+], L. A. Bruckerhoff, R. Miltner, N. Shoobs, and **C. A. Pennock**. 2025. Water quality improvements correspond with the increased occurrence of fish and aquatic insects. 3rd Annual Interdisciplinary Water Research Symposium, The Ohio State University. (Oral presentation, *awarded Best Oral Presentation*).

Drake, S.[+], and **C. A. Pennock**. 2025. Spatial reorganization of fish assemblages across thirty years of pollution remediation in the Scioto River. American Fisheries Society, San Antonio, Texas. (Oral presentation).

Furby, J. A[+], and **C. A. Pennock**. 2025. Fish assemblage structure and performance across habitat gradients in novel ecosystems. Society for Freshwater Science, San Juan, Puerto Rico. (Oral presentation).

Lyles, C.[+], P. Budy, C. Yackulic, and **C. A. Pennock**. 2025. Gone with the flow: flow reduction coincides with reduced metabolism in desert rivers. Society for Freshwater Science, San Juan, Puerto Rico. (Oral presentation).

C. A. Pennock, G. P. Thiede, P. Budy, A. Giblin, C. Luecke, and G. W. Kling. Ecological stability of zooplankton communities in changing arctic lakes. Society for Freshwater Science, San Juan, Puerto Rico. (Oral presentation).

Litmer, A.[*], T. E. Walsworth, and **C. A. Pennock**. Quantifying the effects of mechanical removal on population dynamics of invasive Channel Catfish (*Ictalurus punctatus*). Society for Freshwater Science, San Juan, Puerto Rico. (Oral presentation).

Furby, J. A[+], and **C. A. Pennock**. 2024. Evaluation of fish communities across a longitudinal gradient in novel ecosystems. Lake Erie and Inland Waters Annual Research Review, Columbus, Ohio. (Oral presentation)

Pritt, J., J. Conroy, L. Bruckerhoff, and **C. A. Pennock**. 2024. Ohio River Sauger: Knowledge gaps for one of Ohio's most important yet understudied fishes. (Oral presentation)

Pennock, C. A., D. W. Speas, G. P. Thiede[#], and C. Michaud. 2024. Evaluation of post-stocking re-encounters of an endangered fish using a large, multi-agency database to inform recovery. *Invited presentation*, Special Symposium, Grand Rivers: Challenges and opportunities in conservation of native fishes in the upper Colorado River basin, Annual Meeting of the Desert Fishes Council, Grand Junction, Colorado. (Oral presentation)

Pennock, C. A., B. D. Healy, M. R. Bogaard, M. C. McKinstry, K. B. Gido, C. N. Cathcart, and B. Hines. 2024. Translocation in a fragmented river increases survival of imperiled fishes. *Invited presentation*, Special Symposium, Grand Rivers: Challenges and opportunities in conservation of native fishes in the upper Colorado River basin, Annual Meeting of the Desert Fishes Council, Grand Junction, Colorado. (Oral presentation)

Furby[+], J. A., and **C. A. Pennock**. 2024. Evaluation of fish communities across a longitudinal gradient in novel ecosystems. Water Management Association of Ohio Meeting and Symposium, Columbus, Ohio (poster presentation, 3rd place for best poster).

Duskey, E., L. Bruckerhoff, and **C. A. Pennock**. 2024. Widespread density dependence in stream fishes. Society for Freshwater Science Annual Meeting, Philadelphia, PA (Oral presentation).

Pennock C. A., B. Healy, M. Bogaard, M. McKinstry, K. Gido, N. Cathcart, and B. Hines. 2024. Translocation in a fragmented river increases survival of imperiled fishes. Society for Freshwater Science Annual Meeting, Philadelphia, PA (Oral presentation).

Furby, J[+]., and **C. A. Pennock**. 2024. Evaluating fish community performance across a longitudinal gradient in novel ecosystems. Society for Freshwater Science Annual Meeting, Philadelphia, PA (Poster presentation).

Lyles, C.[+], P. Budy, C. Yackulic, and **C. A. Pennock**. 2024. Characterizing river metabolism and resource availability across a gradient of alteration in desert rivers to inform native fish conservation. Society for Freshwater Science Annual Meeting, Philadelphia, PA (Oral presentation).

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

Friesen, B.[+], P. Budy, and **C. A. Pennock**. 2024. Characterizing the distribution of nonnative fishes in the Lake Powell forebay and identifying drivers of entrainment risk through Glen Canyon Dam. Upper Colorado River Basin Researcher's Meeting, Grand Junction, CO (Oral presentation).

Pennock, C. A. 2023. Endangered species conservation amid widespread habitat loss, invasive species, and megadrought. Department of Biological Sciences, University of Cincinnati (*Invited Seminar*).

MENTORING

Graduate Students (as major advisor)

Current

James Dowling, PhD, 2024-present
Seth Drake, PhD, 2024-present
Abigail Duimering, MS, 2025-present
Reagan Oller, MS, 2025-present
Sophia Holupka, MS, 2025-present
Jack Kinsey, MS, 2026-present

Graduated

Justin Furby, M.S. 2025, major advisor. *Current position*: Research Fisheries Technician, Ohio Department of Natural Resources, Fairport Harbor, Ohio.

Chloe Lyles, M.S. 2025, co-advisor. *Current position*: Native Fish Biologist, New Mexico Department of Game and Fish, Santa Fe, New Mexico.

Barrett Friesen, M.S. 2024, co-advisor. *Current position*: Projects Director, Blue River Watershed Group, Silverthorne, Colorado.

Benjamin Miller, M.S. 2024, co-advisor. *Current position*: Fish Biologist, U.S. Geological Survey, Grand Canyon Research and Monitoring Center, Flagstaff, Arizona.

Graduate Students (as committee member)

Ryan Hudson, PhD, EEOB, dissertation committee, 2025-present
Elle Krellwitz, PhD, EEOB, dissertation committee, 2025-present
Sophie Dziekan, MS, EEOB, thesis committee, 2025-present
Meredith Bennett, PhD, EEOB, dissertation committee, 2025-present
Sidney Ryan, PhD, EEOB, dissertation committee, 2025-present
Ella Church, MS, School of Environment and Natural Resources, thesis committee, 2024-2025
Jacob Bentley, MS, EEOB, thesis committee, 2024-2025
Robert Schuetz, PhD, Biomedical Sciences, Graduate School Representative, final exam, 2024
Morgan Shaw, MS, EEOB, thesis committee, 2024

Undergraduate Students

(*Poster, $^{+}$Presentation, $^{\wedge}$Paper, $^{\#}$Thesis)

Sean Rae, The Ohio State University, 2026-present
Joe Rubel, The Ohio State University, 2026-present
Hannah Wright, The Ohio State University, 2026-present
Joel Steinnbicker[*,#], The Ohio State University, 2024-2025
Ethan Hood[*,^], Oklahoma State University, 2023-2025
Emily Adler[+^], Utah State University, 2021-2022
Hunter Pehrson[+^], Utah State University, 2021
Daison Weedop[*], Utah State University, 2020-2021

Postdoctoral research associates
Dr. Mack White, 2025-present
Dr. Allison Litmer, 2024-2026

TEACHING
Aquatic Ecology, EEOB 8896.14, 9 students, Ohio State University, SP26, *Instructor*
Fish Ecology, EEOB 5430, 15-19 students, Ohio State University, F24, SP26, *Instructor*
Ecology, EEOB 3410, 130-150 students, Ohio State University, SP24, SP25, *Instructor*
Graduate Fish Ecology, WATS 6230/7230, 15 students, Utah State University, Spring 2021, *Instructor*
Movement Ecology, Louisiana State University (Fall 2024), *Guest Lecturer*
Introduction to Watershed Sciences, Utah State University (Fall 2022), *Guest Lecturer*

AWARDS & HONORS
2019 Kansas State University College of Arts and Sciences Travel Award ($800)
2019 Kansas State University Graduate School Travel Award ($400)
2019 Western Division of the American Fisheries Society, Student Travel Scholarship ($500)
2018 Robert J. Robel Graduate Student Award in Wildlife Biology and Ecology ($1000)
2018 Introduced Fish Section, American Fisheries Society, Student Travel Scholarship ($500)
2018 Kansas State University College of Arts and Sciences Travel Award ($800)
2018 Kansas State University Graduate School Travel Award ($400)
2018 John E. Skinner Memorial Travel Grant Honorable Mention, American Fisheries Society ($250)
2018 Desert Fishes Council Student Travel Scholarship ($200)
2017 Best Student Paper Award, Kansas Chapter of the American Fisheries Society (co-authors: David Bender, Jordan Hofmeier, Jessica Mounts, Ryan Waters, Vaughn Weaver, and Keith Gido)
2016 John E. Skinner Memorial Travel Grant Honorable Mention, American Fisheries Society ($180)
2016 Otto Tiemeier-Frank Cross Graduate Student Scholarship, Kansas Chapter of the American Fisheries Society ($300)

2015 Best Student Paper Award, Kansas Chapter of the American Fisheries Society (co-author: Keith Gido)
2014 President's Honor Roll (Spring, Kansas State University)
2013 Klaassen Award, Kansas Chapter of the American Fisheries Society ($300)
2013 Undergraduate Student Travel Grant, Education Section, American Fisheries Society ($500)
2013 Enloe Undergraduate Scholarship in Wildlife Conservation, Division of Biology, Kansas State University ($1500)
2012 Duffy Student Travel Grant, Kansas Chapter of the American Fisheries Society ($450)

PROFESSIONAL SOCIETY MEMBERSHIPS
American Fisheries Society
Society for Freshwater Science
Desert Fishes Council

REVIEWER AND EVALUATION SERVICE
2025, National Science Foundation, Office of Polar Programs, *Ad Hoc* Reviewer
2024, California Sea Grant, Delta Fellowship Program, Panel Reviewer
2024, National Science Foundation, Graduate Research Fellowship Program *Ad Hoc* Reviewer
2023-2024, Review Editor, *Frontiers in Freshwater Science*

Manuscript review for journals/agencies
Journal of Animal Ecology
Journal of Applied Ecology
Behavioral Ecology
Biological Conservation
Ecosphere
Limnology and Oceanography Letters
Freshwater Biology
Hydrobiologia
Ecological Engineering
Royal Society Open Science
PLOS ONE
Scientific Reports
Frontiers in Environmental Science
Frontiers in Freshwater Science
Urban Ecosystems
Canadian Journal of Fisheries and Aquatic Sciences
Aquatic Conservation: Marine and Freshwater Ecosystems
Endangered Species Research
Fisheries
Transactions of the American Fisheries Society
Ecology of Freshwater Fish
Freshwater Science
North American Journal of Fisheries Management
Journal of Fish Biology
Environmental Biology of Fishes
Neotropical Ichthyology
The American Midland Naturalist
U.S. Geological Survey Fundamental Science Practices, *external reviewer*

Proposal review for granting agencies/other institutions:
U.S. Bureau of Reclamation
Texas A&M

DEPARTMENTAL AND UNIVERSITY SERVICE
Center for Microbiome Center faculty search committee (2 positions, 2025-present)
EEOB Graduate Admissions Committee (2023-2026)
EEOB Junior Faculty Committee (2023-present)
Biology Graduate Student Association, Seminar Committee, Kansas State University (2017-2018)
Vice President, Biology Graduate Student Association, Kansas State University (2015-2016)
Graduate Student Rep., Division of Biology Graduate Student Recruitment Committee, Kansas State University (2015-2016)

PROFESSIONAL SOCIETY SERVICE
Chair, Local Arrangements Committee, 2026 American Fisheries Society Annual Meeting, Columbus, Ohio (2025-2026)
Best Paper Committee, *North American Journal of Fisheries Management* (2022-2024)
President, Kansas State Student Sub-Unit of the American Fisheries Society (2013-2014)
Student Rep., Fundraising Committee, Kansas Chapter of the American Fisheries Society (2012-2015)