



Curriculum Vita August 2025

Instructor: Bjorn Schmidt – Assistant Professor

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EDUCATION

Ph.D. – Biological Sciences
University of Southern Mississippi, 2016

M.S. – Biology
Western Kentucky University, 2009

B.S. – Ecology and Evolutionary Biology
Tulane University, 2003

TEACHING EXPERIENCE

2020 – present, Assistant Professor, Texas A&M University-Commerce

RESEARCH GRANTS AND AWARDS

2024-2026, **Schmidt, B. (P.I.)** and Khan, N., Texas Comptroller of Public Accounts, \$184,699
Population status, landscape genetics and habitat associations of the Kisatchie Painted Crayfish in East Texas

2023-2025, Montana, C., Schalk, C., **Schmidt, B.**, Mayes, K., and Curtis, S. Texas Parks and Wildlife Department, Inland Fisheries, \$133,842 (\$20,640 to ETAMU)

Conservation status and life history of imperiled fish species in East Texas Streams

2020-2025, **Schmidt B.**, East Texas A&M University

\$27,266

Internal ETAMU research funding from the Department of Biological Sciences, College of Science and Engineering, Honors College, and Office of Sponsored Programs.

2017-2020, **Schmidt B.**, President's International Fellowship and project extension,

Chinese Academy of Sciences

(700,000 RMB; ~\$105,000)

Assessing genetic patterns of fish invasion between storage lakes in the East Route of the South-to-North Water Diversion Project in China.

PUBLICATIONS

* denotes ETAMU students

Under Review/Preparation:

Rai, R.* and **Schmidt, B.** (2025). Comparative absence of Red Shiner above a reservoir: influence of stream size, flow patterns, and stream drying. (under review).

Callahan, S.*, and **Schmidt, B.** (2025). Living on the edge: comparing habitat and assemblage associations in edge vs core populations for *Etheostoma radiosum* across an abrupt upland-lowland ecological gradient. (under preparation).

Accepted/Published:

1. Rendon, C.*, Callahan S.* , **Schmidt, B.** (2025). Short-term drought impacts are influenced by annual flow patterns and fish life history strategies in North Texas. *Inland Water Biology* (accepted; in production).
2. Jia, M., Cheng, F., Li, J., **Schmidt, B.**, Li, Y., & Xie, S. (2024). Distribution patterns of the two genetic groups of *Corbicula fluminea* in a lotic-lentic system. *Ecology and Evolution*, 14(5), e11339.
3. Song, Y., Cao, J., Wang, Z., **Schmidt, B.**, & Xie, S. (2024). Effects of the Three Gorges Dam on the Mandarin Fish larvae (*Siniperca chuatsi*) in the middle reach of the Yangtze River: spatial gradients in abundance, feeding, growth, and survival. *Ecology of Freshwater Fish*, 33(4), e12795.
4. Yan, H., Chen, S., Liu, X., Cheng, Z., **Schmidt, B.**, He., W., Cheng, F., & Xie, S. (2023). Investigations of fish assemblages using two methods in three terminal

reservoirs of the East Route of South-to-North Water Transfer Project, China. *Animals*, 13(10), 1614.

5. Qin, J., **Schmidt, B.**, Zhang, L., Cheng, F., & Xie, S. (2023). Water transfer determines the regional spread dynamics of non-native fish species. *Water Biology and Security*, 2(2), 100135.
6. Ren, P., **Schmidt, B.**, Liu, Q., Wang, S., Liu, X., Liu, K., & Shi, D. (2023). Fractionation of toxic metal Pb from truly dissolved and colloidal phases of seaward rivers in a coastal delta. *Frontiers in Marine Science* 9, 1085142
7. Li, J. Jia, M. Cheng, F., Wang, Z., Hou, G., Shu, F., **Schmidt, B.**, & Xie, S. (2022). Two morphotypes with genetic divergence, different ploidy, and habitat preference in an exploited *Corbicula* population in China. *Journal of Shellfish Research*, 41(2), 263-276.
8. Qin, J., Liu, F., **Schmidt, B.**, Sun, Z., Kong, L., & Yan, Y. (2022). Interpopulation trophic niches and ontogenetic shifts of a mangrove fish predator. *Journal of Fish Biology*, 104(2), 365-373.
9. Qin, J., **Schmidt, B.**, Zhang, L., Cheng, F., & Xie, S. (2022). Patterns of genetic diversity: Stepping-stone dispersal of an invasive fish introduced by an inter-basin water transfer project. *Freshwater Biology* 67(12), 2078-2088.
10. Ren, P., Hou, G., **Schmidt, B.**, Fang, D., & Xu, D. (2021). Longitudinal drifting pattern of larval assemblages in the lower reach of the Yangtze River: Impact of the floodplain lakes and conservation implementation. *Ecology of Freshwater Fish*, 31(4), 410-423.
11. Ren, P. **Schmidt, B.**, Fang, D., & Xu, D. (2021). Spatial distribution patterns of fish egg and larval assemblages in the lower reach of the Yangtze River: Potential implications for conservation and management. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 31(8), 1929-1944.
12. Cheng, F., **Schmidt, B.**, Qin, J., & Xie, S. (2021). Short-term distribution patterns of young-of-the-year fish assemblages between the main stem and affiliated lakes in the middle reaches of the Yangtze River, China. *North American Journal of Fisheries Management*, 41(4), 904-915.
13. Qin, J., **Schmidt, B.**, Cheng, F., & Xie, S. (2021). Development and characterization of 14 novel microsatellite markers for an invasive goby (*Tridentiger bifasciatus*) in water transfer system. *Journal of Applied Ichthyology*, 37(2), 317-317.
14. **Schmidt, B.**, Zen, W., Ren, P., Guo, C., Qn, J., Cheng, F., & Xie, S. (2020) A review of potential factors promoting fish movement in inter-basin water transfers,

with emergent patterns from a trait-based risk analysis for a large-scale project in China. *Ecology of Freshwater Fish*, 29(1), 790-807.

15. Qin, J., Xiang, M., Jia, M., Cheng, F., Zhang, L., **Schmidt, B.**, Liu, J., & Xie, S. (2020). Combined opportunistic and equilibrium life-history traits facilitate successful invasions of the Shimofuri goby (*Tridentiger bifasciatus*). *Aquatic Invasions*, 15, 514-528.
16. Kandathil Radhakrishnan, D., Velayudhannair, K., & **Schmidt, B.** (2020). Effects of bioflocculated algae on the growth, digestive enzyme activity and microflora of freshwater fish *Catla catla* (Hamilton 1922). *Aquaculture research*, 51(8), 4533-4540.
17. Kandathil Radhakrishnan, D., Akbar Ali, I., Thundiparambil Sathrajith, A., **Schmidt, B.**, Sivanpillai, S., & Thazhakot Vasunambesan, S. (2020). Grazing rates of freshwater copepod *Thermocyclops decipiens* (Kiefer, 1929) on *Chlorella vulgaris* under different light intensities. *Aquaculture*, 525, 735321.
18. Kandathil Radhakrishnan, D., Akbar Ali, I., **Schmidt, B.**, John, E., Sivanpillai, S. & Sankar, T. (2019). Improvement of nutritional quality of live feed for aquaculture: an overview. *Aquaculture Research*, 51(2), 1-17.
19. Qin, J., Cheng, F., Zhang, L., **Schmidt, B.**, Liu, J., & Xie, S. (2019). Invasions of two estuarine gobiid species interactively induced from water diversion and saltwater intrusion. *Management of Biological Invasions* 10(1), 139-150.
20. Chen, W., **Schmidt, B.**, & He, S. (2018). The potential colonization histories of *Opsariichthys bidens* (Cyprinidae) in China using Bayesian binary MCMC analysis. *Gene*, 676, 1-8.
21. **Schmidt, B.**, Wang, Z., Cheng, F., & Xie, S. (2018) Ten novel microsatellite markers for the freshwater sleeper *Micropercops swinhonis* (Günther, 1873), with testing of cross-species amplification in two other fishes from suborder Gobioidei. *Journal of Applied Ichthyology*, 34(5), 1180-1182.
22. **Schmidt, B.** & Schaefer, J. (2018). Comparative genetic isolation patterns for multiple headwater fishes in three geographic regions. *Journal of Fish Biology*, 92(4), 1090-1109.
23. **Schmidt, B.** & Schaefer, J. (2018). Ecological and landscape effects on genetic distance in an assemblage of headwater fishes. *Ecology of Freshwater Fish*, 27(2), 617-631.
24. Cheng, F., Zhao, S., **Schmidt, B.**, Ye, L., Hallerman, E., & Xie, S. (2018). Morphological but no genetic differentiation among fragmented populations of *Hemiculter leucisculus* (Actinopterygii, Cyprinidae) from a lake complex in the middle Yangtze, China. *Hydrobiologia*, 809(6), 185-200.

25. Feldheim, K., Kreiser, B., **Schmidt, B.**, Duvernall, D., & Schaefer, J. (2014). Isolation and characterization of microsatellite loci for the blackstripe topminnow (*Fundulus notatus*) and their variability in two closely related species. *Journal of Fish Biology*, 85(5), 1726-1732.