



Curriculum Vita
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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

PUBLICATIONS

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* (in press).

Ren, P. **Schmidt, B.**, Liu, Q., Wang, S., Liu, X., Liu, K., & Shi, D. (2022). The fractionation from truly dissolved to colloidal phase of toxic metal Pb along the seaward river in a coastal delta. *Frontiers in Marine Science* (in press).

- 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* (in press).
- 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* (in press).
- 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.
- 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.
- 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.
- 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.
- Schmidt, B.**, Zen, W., Ren, P., Guo, C., Qin, 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.
- 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.
- Kandathil Radhakrishnan, D., Velayudhannair, K., & **Schmidt, B.** (2020). Effects of biofloculated algae on the growth, digestive enzyme activity and microflora of freshwater fish *Catla catla* (Hamilton 1922). *Aquaculture research*, 51(8), 4533-4540.
- 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.

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.

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.

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.

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 Gobioidae. *Journal of Applied Ichthyology*, 34(5), 1180-1182.

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.

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.

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.

Feldheim, K., Kreiser, B., **Schmidt, B.**, Duvernell, 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.

RESEARCH GRANTS AND AWARDS

2022, Testing of genetic dispersal of *Agkistrodon piscivorus* in East Texas using microsatellites, undergraduate research grant (supervisor), Texas A&M University-Commerce, \$500

2021, The influence of small dams on the spatial population genetics of *Fundulus notatus* in the Bois D'Arc system (Red River) of Texas, undergraduate research grant (supervisor), Texas A&M University-Commerce, \$500

- 2021, Faculty research grant, Department of Biological Sciences, Texas A&M University-Commerce, \$6,500
- 2021, Faculty research grant, College of Science and Engineering, Texas A&M University-Commerce, \$2,000
- 2021, Assessing genetic isolation and connectivity between populations of *Etheostoma radiosum* in tributaries of the middle Red River in Texas, Presidential GAR – graduate student support (supervisor), Texas A&M University-Commerce, \$10,666
- 2019, Assessing genetic patterns of fish invasion between storage lakes in the East Route of the South-to-North Water Diversion Project in China, PIFI project extension, Chinese Academy of Sciences, 300,000 RMB (~\$45,000)
- 2017, Assessing genetic patterns of fish invasion between storage lakes in the East Route of the South-to-North Water Diversion Project in China, President's International Fellowship, Chinese Academy of Sciences, \$400,000 RMB (~\$60,000)