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# Bjorn Schmidt

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Assistant Professor  
Biological & Environmental Sciences  
Texas A&M University-Commerce  
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## Education

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- 2016 Ph.D. in Biological Sciences  
Dissertation: "A comparative study of genetic isolation in headwater fishes"  
*University of Southern Mississippi, Hattiesburg, Mississippi*
- 2009 M.S. in Biology  
*Western Kentucky University, Bowling Green, Kentucky*
- 2003 B.S. in Ecology and Evolutionary Biology  
*Tulane University, New Orleans, Louisiana*

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## Peer-Reviewed Publications

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1. Ren, P., Hou, G., **Schmidt, B.**, Fang, D., and 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*. in press.  
<https://doi.org/10.1111/eff.12640>
2. Ren, P., **Schmidt, B.**, Fang, D., and 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: 1929-1944. <https://doi.org/10.1002/aqc.3595>.
3. Qin, J., **Schmidt, B.**, Cheng, F., and 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: 314-317.  
<https://doi.org/10.1111/jai.14185>.
4. Cheng, F., **Schmidt, B.**, Qin, J., and 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: 904-915. <https://doi.org/10.1002/nafm.10406>.
5. **Schmidt, B.**, Zhen, W., Ren, P., Guo, C. Qin, J., Cheng, F., and 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: 790-807. <https://doi.org/10.1111/eff.12530>.
6. Qin, J., Xiang, M., Jia, M., Cheng, F., Zhang, L., **Schmidt, B.**, Liu, J., and Xie, S. (2020) Combined opportunistic and equilibrium life-history traits facilitate successful invasions of the Shimofuri goby (*Tridentiger bifasciatus*). *Aquatic Invasions* 15: 514-528.
7. Kandathil Radhakrishnan, D., Velayudhannair, K., and **Schmidt, B.** (2020) Effects of bio-flocculated algae on the growth, digestive enzyme activity and microflora of freshwater

fish *Catla catla* (Hamilton 1922). *Aquaculture Research*: 51: 4533-4540.  
<https://doi.org/10.1111/are.14798>.

8. Kandathil Radhakrishnan, D., Akbar Ali, I., Thundiparambil Sathrajith, A., **Schmidt, B.**, Sivanpillai, S., and Thazhakot Vasunambesan, S. (2020) Grazing rates of freshwater copepod *Thermocyclops decipiens* (Kiefer, 1929) on *Chlorella vulgaris* under different light intensities. *Aquaculture* 525. <https://doi.org/10.1016/j.aquaculture.2020.735321>.
9. Kandathil Radhakrishnan, D., Akbar Ali, I., **Schmidt, B.**, John, E., Sivanpillai, S., and Sankar, T. (2019) Improvement of nutritional quality of live feed for aquaculture: an overview. *Aquaculture Research* 51: 1-17. <https://doi.org/10.1111/are.14357>
10. Qin, J., Cheng, F., Zhang L., **Schmidt, B.**, Liu, J, and Xie, S. (2019) Invasions of two estuarine gobiid species interactively induced from water diversion and saltwater intrusion. *Management of Biological Invasions* 10: 139-150.  
<https://doi.org/10.3391/mbi.2019.10.1.09>
11. Chen, W., **Schmidt, B.**, and He, S. (2018) The potential colonization histories of *Opsariichthys bidens* (Cyprinidae) in China using Bayesian binary MCMC analysis. *Gene* 676 (2018): 1-8. <https://doi.org/10.1016/j.gene.2018.07.019>
12. **Schmidt, B.**, Wang, Z., Cheng, F., and 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 Gobioidi. *Journal of Applied Ichthyology* 2018; 34: 1180-1182. <https://doi.org/10.1111/jai.13750>
13. **Schmidt, B.** and Schaefer, J. (2018) Comparative genetic isolation patterns for multiple headwater fishes in three geographic regions. *Journal of Fish Biology* 92: 1090-1109.  
<https://doi.org/10.1111/jfb.13570>
14. **Schmidt, B.** and Schaefer, J. (2018) Ecological and landscape effects on genetic distance in an assemblage of headwater fishes. *Ecology of Freshwater Fish* 27: 617-631.  
<https://doi.org/10.1111/eff.12375>
15. Cheng, F., Zhao, S., **Schmidt, B.**, Ye, L., Hallerman, E., and 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: 185-200. <https://doi.org/10.1007/s10750-017-3464-0>
16. Feldheim, K., Kreiser, B., **Schmidt, B.**, Duvernell, D., and 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: 1726-1732.  
doi:10.1111/jfb.12469

## Work Experience

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Spring 2020-present	Assistant Professor <i>Texas A&amp;M University-Commerce</i> , Commerce, Texas
2016-2019	Postdoctoral Researcher <i>Key Laboratory of Aquatic Biodiversity and Conservation</i> , <i>Institute of Hydrobiology</i> , Chinese Academy of Sciences, Wuhan, China

2009-2016	Research and Teaching Assistant <i>University of Southern Mississippi, Hattiesburg, Mississippi</i>
2006-2009	Research and Teaching Assistant <i>Western Kentucky University, Bowling Green, Kentucky</i>
2006	Fisheries Technician <i>Aquatic Ecology Laboratory, Ohio State University, Columbus, Ohio</i>
2005	Fisheries Technician <i>Fisheries and Wildlife Sciences, Virginia Tech, Blacksburg, Virginia</i>
2005	Environmental Laboratory Assistant <i>Columbia Analytical Services, Jacksonville, Florida</i>
2004	Fish and habitat sampling technician (EPA contractor) <i>Dynamac Corporation, Corvallis, Oregon</i>
2003-2004	Fish Collection Curatorial Assistant <i>Tulane Museum of Natural History, Belle Chasse, Louisiana</i>
2003	Water Quality Internship <i>Lake Pontchartrain Basin Foundation, Metairie, Louisiana</i>

### Awards and Fellowships

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- 2019 President's International Fellowship Initiative. *Chinese Academy of Sciences* – extension – 300,000 RMB
- 2017 President's International Fellowship Initiative. *Chinese Academy of Sciences* – 400,000 RMB

### Professional Service

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- Reviewer for *Molecular Biology, Freshwater Biology, Ecology and Evolution, Ecosphere, Hydrobiologia, and Copeia*
- (2017) Member of foreign expert panel (“A review of aquaculture and fishery enhancement techniques used in the United States”). *Aquaculture training special session*. Jining, China

### Conference Presentations

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1. Schmidt, B. and Xie, S. (2018) Inter-basin water transfer facilitates movement and invasion for the Yangtze grenadier anchovy in Eastern China. *Marine and Freshwater Invasive Species, Aquatic Ecosystem Health and Management Society*. Beijing, China
2. Schmidt, B. and Xie, S. (2018) Range expansion and altered dispersal patterns between freshwater lakes facilitated by the East Route of China's South-to-North Water Diversion Project. *International Society of Limnology*. Nanjing, China
3. Schmidt, B., Qin, J., Cheng, F., and Xie, S. (2017) Effects of inter-basin water transfers on population connectivity of fishes. *American Fisheries Society*. Tampa, Florida, USA

4. Schmidt, B., Schaefer, J., and Kreiser, B. (2015) Examining isolation by distance and isolation by environment for six headwater and small stream resident fishes within six drainages in Mississippi and Arkansas. *Southeastern Fishes Council*. Gainesville, Florida, USA
5. Schmidt, B., Schaefer, J., and Kreiser, B. (2013) The influence of migration path characteristics on the population structure of *Fundulus olivaceus* and *Semotilus atromaculatus* in four drainages of Mississippi. *Southeastern Fishes Council*. Lake Guntersville, Alabama, USA
6. Schmidt, B. and Grubbs, S. (2009) A comparative ecological study of two sister species of darters in Kentucky, *Etheostoma kantuckeense* and *E. lawrencei*. *American Fisheries Society*. Nashville, Tennessee, USA
7. Schmidt, B. and Grubbs, S. (2008) A comparative ecological study of two disjunct, congeneric species of darters in Kentucky: *Etheostoma kantuckeense* and *E. lawrencei*. *Kentucky Academy of Sciences*. Louisville, Kentucky, USA
8. Schmidt, B. and Grubbs, S. (2007) Fish assemblage patterns in relation to environmental parameters in the Upper Barren River basin of Kentucky, with emphasis on the distribution of *Etheostoma kantuckeense*. *Kentucky Academy of Sciences*. Morehead, Kentucky, USA