

**Tomas O. Höök**

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Illinois-Indiana Sea Grant College Program  
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**PROFESSIONAL PREPARATION**

University of Michigan 1996 BS in Biology  
University of Michigan 2000 MS in Resource Ecology and Management  
University of Michigan 2005 PhD in Natural Resources

**APPOINTMENTS**

Professor (2019-present), Associate Professor (2013-2018), Assistant Professor (2008-2013)  
Department of Forestry and Natural Resources, Purdue University (West Lafayette, IN)  
Director (2018-present) Associate Director of Research (2010-2018), Illinois-Indiana Sea Grant  
Program (West Lafayette, IN: 2018-present)  
Research Investigator (2005-2008), Cooperative Institute for Limnology and Ecosystems  
Research, University of Michigan (Ann Arbor, MI)  
Visiting Researcher (2015), Department of Limnology, Uppsala University (Sweden)  
Visiting Researcher (2005), Department of Systems Ecology, Stockholm University, (Sweden)

**EXAMPLE RECENT PEER-REVIEWED PUBLICATIONS (FROM N=108)**

Höök, T.O., C.J. Foley, P.D. Collingsworth, L. Dorworth, B. Fisher, J. Hoverman, E. LaRue, M. Pyron and J. Tank. in press. An assessment of the potential impacts of climate change on freshwater habitats and biota of Indiana, U.S.A. *Climatic Change*.

Hrycik, A.R., P.D. Collingsworth, T.M. Sesterhenn, and D. Goto and T.O. Höök. in press. Movement rule selection through eco-genetic modeling: Application to diurnal vertical movement. *Journal of Theoretical Biology*.

Chorak, G.M., C.R. Ruetz III, R.A. Thum, C.G. Partridge, D.J. Janetski, T.O. Höök, and D.F. Clapp. 2019. Yellow perch genetic structure and habitat use among connected habitats in eastern Lake Michigan. *Ecology and Evolution*.

Feiner, Z.S., D.P. Coulter, M.D. Linn and T.O. Höök. 2019. A question of scale: Weak evidence for broad regional synchrony in fish year-class strength within or among species in inland lakes. *Fisheries Research*.214: 45-55.

Feiner, Z.S., C.J. Foley, R.K. Swihart, H.A. Bootsma, S.J. Czesny, J.A. Janssen, J. Rinchar and T.O. Höök. in press. Individual and spatial variation are as important as species-level variation to the trophic complexity of a lentic food web. *Ecology of Freshwater Fish*.

Feiner, Z.S., C.J. Foley, H.A. Bootsma, S.J. Czesny, J.A. Janssen, J. Rinchar and T.O. Höök. 2018. Species identity matters when interpreting trophic markers in aquatic food webs. *PLOS ONE*.13(10)

- Malinich, T.D., N. Chuo, M.S. Sepulveda and T.O. Höök. 2018. No evidence of microplastic impacts on consumption or growth of larval *Pimephales promelas*. *Environmental Toxicology and Chemistry*. 37: 2912-2918.
- Dunlop, E., Z.S. Feiner, and T.O. Höök. 2018. Potential for fisheries-induced evolution in the Laurentian Great Lakes. *Journal of Great Lakes Research*.44: 735-747.
- Foley, C.J., Z.S. Feiner, T.D. Malinich and T.O. Höök. 2018. A meta-analysis of the effects of exposure to microplastics on fish and aquatic invertebrates. *Science of the Total Environment*.631: 550-559.
- Feiner, Z.S., R.K. Swihart, D.P. Coulter, and T.O. Höök. 2018. Fatty acids in an iteroparous fish: variable complexity, identity, and phenotypic correlates. *Canadian Journal of Zoology*.96:859-868.
- Hrycik, A.R., P.D. Collingsworth, M. W. Rogers, S.W. Guffey, and T.O. Höök. 2018. Seasonal trophic variation of yellow perch exceeds spatial variation in a large lake basin. *Journal of Great Lakes Research*.44:299-310.

#### **EXAMPLE SYNERGISTIC ACTIVITIES**

- **International Association of Great Lakes Research**: Association Board Member since 2014. Vice President 2015-2016. President 2016-2017. Past-President 2017-2018. Chair and host for International Association of Great Lakes Research conference in 2013.
- Lead scientist for a week long COSEE (Center for Ocean Sciences Education Excellence) Lake Michigan teaching cruise. This cruise takes grade-school (4th – 10th) teachers out on the Great Lakes to expose them to field sampling and scientific understanding which they can then share in the classroom.
- Example reviewing activities and review panels: Global Change Biology, Environmetrics, Estuaries, Marine Ecology Progress Series, Transactions of the American Fisheries Society, North American Journal of Fisheries Management, Journal of Great Lakes Research, Journal of Freshwater Ecology, Aquatic Biology, Ecological Applications, Journal of Experimental Marine Biology and Ecology, Evolutionary Applications, Canadian Journal of Fisheries and Aquatic Sciences, Biology Letters, Northeastern Naturalist, Fisheries Research, Limnology and Oceanography: Methods, New York Sea Grant, Great Lakes Fishery Commission, Fishery Research Program and Sea Lamprey Research Program, Minnesota Sea Grant, Maryland Sea Grant, U.S. Fish and Wildlife Service, Great Lakes Fishery Trust, Lake Champlain Sea Grant, FONDECYT (Chilean National Science Foundation), NOAA-CSCOR, Great Lakes Protection Fund, NSERC Strategic Projects; NSERC Steacie Fellowship, CALFED Technical Selection Panel, BONUS+ Joint Baltic Sea Research Programme, USGS, Grand Canyon Colorado River Program, Program Review: National Oceanic and Atmospheric Administration's Great Lakes Restoration Initiative Program.
- Major professor for 14 completed MS students, 6 completed PhD students and 6 completed post-docs. Currently, serves as major professor for 5 MS students, 1 PhD student and 2 post-docs.