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EDUCATION

Ph.D. student 2019-present. Michigan State University, East Lansing, Michigan.

M.Sc. 2011. Natural Resources (Fisheries), University of Wisconsin–Stevens Point, Stevens Point, Wisconsin.

B.Sc. 2009. Biology, University of Wisconsin–Eau Claire, Eau Claire, Wisconsin.

PROFESSIONAL EXPERIENCE

Fisheries Biologist II, Ohio Department of Natural Resources, Division of Wildlife. 4/14-present.

Sea Lamprey Research Program Associate, Great Lakes Fishery Commission. 6/13-4/14.

Great Lakes Restoration Initiative Research Program Associate, Great Lakes Fishery Commission. 2/12-5/13.

COMPETITIVE GRANTS

1. Raby, G., A. Fisk, C. Madenjian, T. Pitcher, **M.D. Faust**, C. Vandergoot, J. Brooks, M. Guzzo, and Y. Zhao. Advancing the bioenergetics of walleye using modern respirometry. Great Lakes Fishery Commission. \$19,900. February 2020–January 2021.
2. Ludsin, S.A., W.A. Larson, K. Chen, J.M. Robinson, **M.D. Faust**, T.M. MacDougall, C.C. Wilson, M.G. Sovic, and E.A. Marschall. Stock structure and contribution of west and east basin walleye to recreational and commercial fisheries in Lake Erie. Ohio Sea Grant. \$59,675. February 2018–January 2020.
3. **Faust, M.D.**, J. Hessenauer, C. Harris, E. Slavik, and D. Hondorp. Spatial ecology of muskellunge in Lake Erie. Hugh C. Becker Foundation. \$5,400. May 2017–December 2020.
4. Hessenauer, J., C. Harris, **M.D. Faust**, E. Slavik, and D. Hondorp. Spatial ecology and survival of muskellunge in the St. Clair-Detroit River System. Hugh C. Becker Foundation. \$5,400. May 2017–December 2020.
5. **Faust, M.D.**, T. Brenden, R. Kraus, S. Ludsin, J. Robinson, C. Vandergoot, and Y. Zhao. Do discrete spawning stocks contribute differentially to Lake Erie's walleye fisheries? Fisheries Research Program - Great Lakes Fishery Commission. \$274,000. January 2017–December 2020.

PUBLICATIONS

1. Matley, J.K., **M.D. Faust**, G.D. Raby, Y. Zhao, J. Robinson, T. MacDougall, A.T. Fisk, C.S. Vandergoot, and C.C. Krueger. *Accepted*. Seasonal habitat-use differences among Lake Erie's walleye stocks. *Journal of Great Lakes Research*.
2. Harris, C., T.O. Brenden, C.S. Vandergoot, **M.D. Faust**, S.J. Herbst, and C.C. Krueger. *In press*. Tributary use and large-scale movements of grass carp in Lake Erie. *Journal of Great Lakes Research*. <https://doi.org/10.1016/j.jglr.2019.12.006>.
3. Slagle, Z.J., **M.D. Faust**, K.R. Keretz, and M. DuFour. 2020. Post-tournament dispersal of smallmouth bass in western Lake Erie. *Journal of Great Lakes Research* 46: 198-206.
4. Gorman, A.M., R.T. Kraus, L.F.G. Gutowsky, C.S. Vandergoot, Y. Zhao, C.T. Knight, **M.D. Faust**, T.A. Hayden, and C.C. Krueger. 2019. Vertical habitat use of adult walleye conflicts with expectations from fishery-independent surveys. *Transactions of the American Fisheries Society* 148: 592-604.
5. Bade, A.P., T.R. Binder, **M.D. Faust**, C.S. Vandergoot, T.J. Hartman, R.T. Kraus, C.C. Krueger, and S.A. Ludsin. 2019. Sex-based differences in spawning behavior account for male-biased harvest in Lake Erie walleye (*Sander vitreus*). *Canadian Journal of Fisheries and Aquatic Sciences* 76: 2003-2012.
6. **Faust, M.D.**, C.S. Vandergoot, T.O. Brenden, R.T. Kraus, T. Hartman, and C.C. Krueger. 2019. Acoustic telemetry as a potential tool for mixed-stock analysis of fishery harvest: a feasibility study using Lake Erie walleye. *Canadian Journal of Fisheries and Aquatic Sciences* 76: 1019-1030.
7. Vandergoot, C.S., **M.D. Faust**, J.T. Francis, D.W. Einhouse, R. Drouin, C. Murray, and R.L. Knight. 2019. Back from the brink: sustainable management of the Lake Erie walleye fishery. Pages 431-466 in C.C. Krueger, W.W. Taylor, and S. Youn, editors. *From Catastrophe to Recovery: Stories of Fishery Management Success*. American Fisheries Society, Bethesda, Maryland.

8. Kraus, R.T., C. Holbrook, C.S. Vandergoot, T. Stewart, **M.D. Faust**, D. Watkinson, C. Charles, M. Pegg, E. Enders, and C.C. Krueger. 2018. Evaluation of acoustic telemetry grids for determining aquatic animal movement and survival. *Methods in Ecology and Evolution*. DOI: 10.1111/2041-210X.12996.
9. Raby, G.D., C.S. Vandergoot, T.A. Hayden, **M.D. Faust**, R.T. Kraus, J.M. Dettmers, S.J. Cooke, Y. Zhao, A.T. Fisk, and C.C. Krueger. 2018. Does behavioural thermoregulation underlie seasonal movements in Lake Erie walleye? *Canadian Journal of Fisheries and Aquatic Sciences* 75: 488-496. <https://doi.org/10.1139/cjfas-2017-0145>.
10. **Faust, M.D.** and M.J. Hansen. 2017. Do observed levels of exploitation from consumption-oriented and trophy-oriented fisheries reduce relative stock densities of muskellunge below target levels in northern Wisconsin? Pages 379 – 384 in K.L. Kapuscinski, T.D. Simonson, D.P. Crane, S.J. Kerr, J.S. Diana, and J. M. Farrell., editors. *Muskellunge Management: Fifty Years of Cooperation Among Anglers, Scientists, and Fisheries Biologists*.
11. **Faust, M.D.**, and G.D. Scholten. 2017. Cleithra, dentaries, and other bones. Pages 159 – 171 in M.C. Quist and D.A. Isermann, editors. *Age and growth of fishes: principles and techniques*.
12. Schoonyan, A., R.T. Kraus, **M.D. Faust**, A. Cook., C.S. Vandergoot, S.J. Cooke, T.A. Hayden, and C.C. Krueger. 2017. Estimating incision healing rate for surgically implanted acoustic transmitters from recaptured walleye. *Animal Biotelemetry* 5:15.
13. **Faust, M.D.**, C.S. Vandergoot, E. Hostnik, T.R. Binder, J.L Mida Hinderer, J.T. Ives, and C.C. Krueger. 2017. Use to electricity to sedate lake trout for intracoelomic implantation of electronic transmitters. *North American Journal of Fisheries Management* 37: 768–777.
14. **Faust, M.D.**, and M.J. Hansen. 2016. Effects of consumption-oriented versus trophy-oriented fisheries on muskellunge population size structure in northern Wisconsin. *North American Journal of Fisheries Management* 36: 1336–1346.
15. **Faust, M.D.**, D.A. Isermann, M.A. Luehring, and M.J. Hansen. 2015. Muskellunge growth potential in northern Wisconsin: implications for trophy management. *North American Journal of Fisheries Management* 35: 765–774.
16. Riley, S.C., T.R. Binder, N.J. Wattrus, **M.D. Faust**, J. Janssen, J. Menzies, J.E. Marsden, M.P. Ebener, C.R. Bronte, J.X. He, M.J. Hansen, H.T. Thompson, A.M. Muir, and C.C. Krueger. 2014. Lake trout in northern Lake Huron spawn on submerged drumlins. *Journal of Great Lakes Research* 40: 415–420.
17. **Faust, M. D.**, J. Breeggemann, S. Bahr, and B. Graeb. 2013. Precision and bias of cleithra and sagittal otoliths used to estimate ages of northern pike. *Journal of Fish and Wildlife Management* 4: 332–341.
18. **Faust, M.D.** 2013. Choosing to work in natural resources. *Wisconsin Natural Resources*. 37: 25–26.

RECENT PRESENTATIONS

1. **Faust, M.D.**, T. Wills, J. Robinson, M. DuFour, A.M. Gorman, M. Belore, A. Cook, S. Marklevitz, T. MacDougall, Y. Zhao, and M. Hosack. 2019. Report for 2018 by the Lake Erie Walleye Task Group. Contributed paper. Lake Erie Committee Meeting, March 2019, Ypsilanti, Michigan.
2. **Faust, M.D.**, M. DuFour, B. Schmidt, C. Knight, J. Robinson, M. Hosack, M. Belore, A. Cook, C. May, and S. Thomas. 2019. Report for 2019 by the Lake Erie Yellow Perch Task Group. Contributed paper. Lake Erie Committee Meeting, March 2019, Ypsilanti, Michigan.
3. **Faust, M.D.**, J. Hessenauer, S. Marklevitz, P. Pacholski, and D. Spangler. 2019. Stakeholder participation within GLATOS: using unique partnerships to ensure project success. Great Lakes Acoustic Telemetry Observation System Coordination Meeting, February 2019, Ann Arbor, Michigan.
4. **Faust, M.D.**, C.S. Vandergoot, A. Cook, T. MacDougall, J. Robinson, and C. Krueger. 2019. From the boat to the board room: communicating Lake Erie walleye movements and population dynamics to decision makers and the public. Contributed paper. Midwest Fish and Wildlife Conference, January 2019, Cleveland, Ohio.
5. **Faust, M.D.**, C.S. Vandergoot, R.T. Kraus, and G. Raby. 2018. Characterizing the return of migratory walleye to overwintering habitat in western Lake Erie. Contributed paper. Lake Erie – Inland Waters Annual Research Review, December 2018, Columbus, Ohio.
6. **Faust, M.D.** 2018. Application of GLATOS to inform fishery management on Lake Erie during 2011-2017. Contributed paper. Lake Erie Committee Meeting, March 2018, Markham, Ontario, Canada.
7. **Faust, M.D.**, T. Brenden, R. Kraus, S. Ludsin, J. Robinson, C. Vandergoot, and Y. Zhao. Do discrete spawning stocks contribute differentially to Lake Erie’s walleye fisheries? Contributed paper. Great Lakes Acoustic Telemetry Observation System annual meeting, February 2018, Ann Arbor, Michigan.