

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

NOTE: This report is best served to be run on a calendar-year basis.

This is a report of published works by faculty and academic staff with a Primary Appointment in the selected department(s). The publications are unique across departments (e.g., no duplication if a publication is shared among authors).

| Published Contributions² | Peer Reviewed/Refereed³ | Non-Peer Reviewed/Refereed | Total | Contribution Types Included: |
|--|---|-----------------------------------|--------------|--|
| Journal Articles | 106 | 13 | 119 | Article, Journal |
| Other Articles | 5 | 10 | 15 | Article, Magazine/Trade Publication, Article, Newsletter/Brochure/Fact Sheet, Article, Newspaper, Article, Opinion/Editorial, Column (Recurring), Journal, Column (Recurring), Magazine/Trade Publication, Column (Recurring), Newspaper, Manuscript, Newsletter/Brochure/Fact Sheet, Reference Material Entry, Translation, Periodical, USGS Circular |
| Books | 0 | 3 | 3 | Book, Book, Handbook, Book, Textbook, Translation, Book |
| Book Chapters | 7 | 23 | 30 | Book, Chapter |
| Bulletins and Monographs | 0 | 0 | 0 | Bulletin/Monograph |
| Reviews | 0 | 0 | 0 | Review |
| Papers for Presentations | 1 | 2 | 3 | Abstract, Conference Paper Published in Proceedings, Conference Proceedings |
| Reports or Studies | 0 | 5 | 5 | Report, Brief, Policy/Issue/Synthesis, Discussion Paper/Working Paper |
| Contributions in Other Scholarly Outlets | 2 | 3 | 5 | Arrangement, Blog, Composition, Dataset, Instructor's Manual, Material Regarding New Course/Curricula, Other, Recording, Social Media, Software, Study Guide, Users' Guide/Manual, Website/Web Page, Written Case for Instructional Use |
| Total | 121 | 59 | 180 | |

¹ This report includes publication records with a Date Published in Academic Profile that overlaps with the dates of this report. Records without a Date Published are not included.

² The Published Contributions in bold align with Form D (used for reappointment, promotion, and tenure). The non-bold category includes all other contributions captured by Academic Profile.

³ Publication records in Academic Profile with "Check if this was refereed" populated are counted in the Peer Reviewed/Refereed column.

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

Journal Articles

- *Scribner, K. T., Tsehaye, I., Brenden, T. O., Stott, W., Kanefsky, J., & Bence, J. R. (2018). Hatchery strain contributions to emerging wild Lake Trout populations in Lake Huron. *Journal of Heredity*, 109, 675–688.
- *Hamman, E., Pappalardo, P., Bence, J. R., Peacor, S. D., & Osenberg, C. (2018). Bias in meta-analyses using Hedges' d. *Ecosphere*, 9(8), e02419.
- *Li, Y., Bence, J. R., & Brenden, T. O. (2018). Can spawning origin information of catch or a recruitment penalty improve assessment and fishery management performance for a spatially structured stock assessment model? *Canadian Journal of Fisheries and Aquatic Sciences*, 75(12), 2136-2148.
- *Dobiesz, N. E., Bence, J. R., Sutton, T., Ebener, M., Pratt, T. C., O'Connor, L. M., & Steeves, T. B. (2018). Evaluation of sea lamprey-associated mortality sources on a generalized lake sturgeon population in the Great Lakes. *Journal of Great Lakes Research*, 44, 319-329.
- *Brenden, T. O., Tsehaye, I., Bence, J. R., Kanefsky, J., & Scribner, K. T. (2018). Indexing recruitment for source populations contributing to mixed fisheries by incorporating age in genetic stock identification models. *Canadian Journal of Fisheries and Aquatic Sciences*, 75, 934-954.
- *Bennett, A. E., Acton, L., Graham, E., Rebecca, G. L., & Mateja, N. (2018). Embracing conceptual diversity to integrate power and institutional analysis: Introducing a relational typology. *International Journal of the Commons*, 12(2), 330-357.
- *Bennett, A., & Basurto, X. (2018). Local Institutional Responses to Global Market Pressures: The Sea Cucumber Trade Yucatán, Mexico. *World Development*, 102, 57-70.
- *Williamson, T. J., Vanni, M. J., Gonzalez, M. J., Renwick, W. H., Bremigan, M. T., & Conroy, J. D. (2018). The importance of nutrient supply by fish excretion and watershed streams to a eutrophic lake varies with temporal scale over 19 years. *Biogeochemistry*, 140, 233-253.
- *Boonthai, T., Loch, T. P., Yamashita, C. J., Smith, G. D., Winters, A. D., Kiupel, M., Brenden, T. O., & Abdel-Kariem, M. F. (2018). Laboratory investigation into the role of largemouth bass virus (Ranavirus, Iridoviridae) in smallmouth bass mortality events in Pennsylvania rivers. *BMC Veterinary Research*, 14, 62.
- *Brenden, T. O., Reilly, R., Eisch, E., Switzer, A., & Whelan, G. (2018). Temporal variation in total phosphorus concentrations revealed from a multidecadal monitoring program on Platte Lake, Michigan. *Environmental Monitoring and Assessment*, 190, 430.
- *Ivan, L. N., Brenden, T. O., Standish, I. F., & Abdel-Kariem, M. F. (2018). Individual-based model evaluation of using vaccinated hatchery fish to minimize disease spread in wild fish populations. *Ecosphere*, 9, e02116.
- *Li, K., Fissette, S. D., Buchinger, T. J., Middleton, Z. E., Boyer, A., & Li, W. (2018). High-performance liquid chromatography quantification of enantiomers of a Dihydroxylated tetrahydrofuran natural product. *CHIRALITY*, 30(8), 1012-1018. doi: 10.1002/chir.22978, ISSN: 0899-0042
- *Bussy, U., Chung-Davidson, Y.-W., Buchinger, T. J., Li, K., Smith, S. A., Jones III, A. D., & Li, W. (2018). Metabolism of a sea lamprey pesticide by fish liver enzymes part A: identification and synthesis of TFM metabolites. *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*, 410(6), 1749-1761. doi: 10.1007/s00216-017-0830-8, ISSN: 1618-2642
- *Bussy, U., Chung-Davidson, Y.-W., Buchinger, T. J., Li, K., Smith, S. A., Jones III, A. D., & Li, W. (2018). Metabolism of a sea lamprey pesticide by fish liver enzymes part B: method development and application in quantification of TFM metabolites formed in vivo. *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*, 410(6), 1763-1774. doi: 10.1007/s00216-017-0831-7, ISSN: 1618-2642
- *Li, K., Scott, A. M., Fissette, S. D., Buchinger, T. J., Riedy, J. J., & Li, W. (2018). Petromylenes A-C: 2-Alkylidene Bile Salt Derivatives Isolated from Sea Lamprey (*Petromyzon marinus*). *MARINE DRUGS*, 16(9). doi: 10.3390/md16090308, ISSN: 1660-3397

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Department Publications Report
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10002344 - FISHERIES AND WILDLIFE

- *Crawford, J., Dechen-Quinn, A., Williams, D. M., Rudolph, B., Scribner, K. T., & Porter, W. F. (2018). Fine-scale spatial genetic structure of deer in a suburban landscape. *Journal of Wildlife Management*, 82, 596-607.
- *Whitman, B., Porter, W. F., Dechen Quinn, A., Williams, D. M., Frair, J., Underwood, H. B., & Crawford, J. C. (2018). Movement behavior preceding autumn mortality for white-tailed deer in central New York. *Journal of Mammalogy*, 99(3), 675-683.
- *Smith, K. R., Roth, B. M., Herbst, S. J., Thoma, R. F., Hayes, D. B., & Jones, M. L. (2018). Assessment of invasion risks for red swamp crayfish (*Procambarus clarkii*) in Michigan, USA. *Biological Invasions*, 9, 405-425.
- Smith, K., Roth, B. M., Herbst, S. J., Thoma, R. F., Popoff, N., Hayes, D. B., & Jones, M. L. (2018). Assessment of invasion risks for red swamp crayfish (*Procambarus clarkii*) in Michigan, USA. *MANAGEMENT OF BIOLOGICAL INVASIONS*, 9(4), 405-415. doi: 10.3391/mbi.2018.9.4.04, ISSN: 1989-8649
- *Watson, J., Coghlan, S., Zydlewski, J., Hayes, D. B., & Kiraly, I. (2018). Dam Removal and Fish Passage Improvement Influence Fish Assemblages in the Penobscot River, Maine. *Transactions of the American Fisheries Society*, 147, 525–540.
- Nohner, J. K., Taylor, W. W., Hayes, D. B., & Roth, B. M. (2018). Influence of Aquatic Macrophytes on Age-0 Largemouth Bass Growth and Diets. *TRANSACTIONS OF THE AMERICAN FISHERIES SOCIETY*, 147(4), 758-769. doi: 10.1002/tafs.10067, ISSN: 0002-8487
- *Nohner, J., Taylor, W. W., & Hayes, D. B. (2018). Influence of aquatic macrophytes on age-0 Largemouth Bass growth and diets. *Transactions of the American Fisheries Society*, 147, 758–769.
- *Smith, K. R., Roth, B. M., Jones, M. L., Hayes, D. B., Herbst, S. J., & Popoff, N. (2018). Changes in the distribution of Michigan crayfishes and the influence of invasive rusty crayfish (*Orconectes rusticus*) on native crayfish substrate associations. *Biological Invasions*, <https://doi.org/10.1007/s10530-018-1848-3>.
- *Hume, J. B., & Wagner, M. (2018). *Ecology and Evolution*, 2018(8), 3751–3762.
- *Stevenson, R. J., Tang, T., & Infante, D. M. (2018). Advancing evaluation of bioassessment methods: A reply to Liu and Cao. *Science of the Total Environment*, 895-900. doi: 10.1016/j.scitotenv.2018.07.129
- *Tingley, R. W., Infante, D. M., MacKenzie, R. A., Cooper, A. R., & Tsang, Y. P. (2018). Identifying natural catchment landscape influences on tropical stream organisms: Classifying stream reaches of the Hawaiian Islands. *Hydrobiologia*, 826, 67-83. doi: 10.1007/s10750-018-3726-5
- *M, D. W., Cooper, A. R., Badra, P. J., & Infante, D. M. (2018). Predicting habitat suitability for eleven imperiled fluvial freshwater mussels. *Hydrobiologia*, 265-283. doi: 10.1007/s10750-017-3473-z
- *Ivan, L. N., Schmitt, B. R., Rose, K. A., Riley, S. R., Rose, J. B., & Murphy, C. A. (2018). Evaluation of the thiamine dose-response relationship for lake trout (*Salvelinus namaycush*) fry using an individual based model. *Journal of Great Lakes Research*, 44, 1393-1404.
- *Ivan, L. N., Schmitt, B. R., Rose, K. A., Riley, S. C., Rose, J. B., & Murphy, C. A. (2018). Evaluation of the thiamine dose-response relationship for lake trout (*Salvelinus namaycush*) fry using an individual based model. *Journal of Great Lakes Research*, 44(6), 1393-1404.
- *Thresher, R. E., Jones, M. L., & Drake, A. R. (2018). Evaluating active genetic options for the control of sea lampreys (*Petromyzon marinus*) in the upper Laurentian Great Lakes. *Canadian Journal of Fisheries and Aquatic Sciences*.
- Thresher, R., Jones, M. L., & Drake, A. (2018). Stakeholder attitudes towards to the use of recombinant technology to manage the impact of an invasive species: Sea Lamprey in the North American Great Lakes. *Biological Invasions*, <https://doi.org/10.1007/s10530-018-1848-3>.
- *Jensen, A. J., & Jones, M. L. (2018). Forecasting the response of Great Lakes sea lamprey (*Petromyzon marinus*) to barrier removals. *Canadian Journal of Fisheries and Aquatic Sciences*, 75, 1415-1426.
- *Dunlop, E. S., McLaughlin, R., Adams, J. V., Jones, M. L., Birceanu, O., Christie, M. R., Criger, L. A., Hinderer, Julia L. M., Hollingworth, R. M., Johnson, N. S., Lantz, S. R., Li, W., Miller, J. R., Morrison, B. J., Mota-Sanchez, D., Muir, A. M., Sepulveda, M. S., Steeves, T., Walter, L., Westman, E., Wirgin, I., & Wilkie,

Department Publications Report
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10002344 - FISHERIES AND WILDLIFE

- M. P. (2018). Rapid evolution meets invasive species control: The potential for pesticide resistance in sea lamprey. *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*, 75(1), 152-168. doi: 10.1139/cjfas-2017-0015, ISSN: 0706-652X
- *Li, K., Brant, C. O., Huertas, M., Hessler, E. J., Mezei, G., Scott, A. M., Hoyer, T. R., & Li, W. (2018). Fatty-acid derivative acts as a sea lamprey migratory pheromone. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 115(34), 8603-8608. doi: 10.1073/pnas.1803169115, ISSN: 0027-8424
- *Scott, A. M., Li, K., & Li, W. (2018). The Identification of Sea Lamprey Pheromones Using Bioassay-Guided Fractionation. *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*. doi: 10.3791/58059, ISSN: 1940-087X
- *Hu, P., Zhao, X., Zhang, Q., Li, W., & Zu, Y. (2018). Comparison of Various Nuclear Localization Signal-Fused Cas9 Proteins and Cas9 mRNA for Genome Editing in Zebrafish. *G3-GENES GENOMES GENETICS*, 8(3), 823-831. doi: 10.1534/g3.117.300359, ISSN: 2160-1836
- *Zhang, Q., Ji, C., Ren, J., Zhang, Q., Dong, X., Zu, Y., Jia, L., & Li, W. (2018). Differential transcriptome analysis of zebrafish (*Danio rerio*) larvae challenged by *Vibrio parahaemolyticus*. *JOURNAL OF FISH DISEASES*, 41(7), 1049-1062. doi: 10.1111/jfd.12796, ISSN: 0140-7775
- *Raschka, S., Scott, A. M., Liu, N., Gunturu, S., Huertas, M., Li, W., & Kuhn, L. A. (2018). Enabling the hypothesis-driven prioritization of ligand candidates in big databases: Screenlamp and its application to GPCR inhibitor discovery for invasive species control. *JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN*, 32(3), 415-433. doi: 10.1007/s10822-018-0100-7, ISSN: 0920-654X
- *Liu, J. (2018). An integrated framework for achieving sustainable development goals around the world. *Ecology, Economy and Society—the INSEE Journal*, 1(2), 11–17.
- *Yang, H., Dietz, T. M., Yang, W., Zhang, J., & Liu, J. (2018). Changes in Human Well-being and Rural Livelihoods Under Natural Disasters. *ECOLOGICAL ECONOMICS*, 151, 184-194. doi: 10.1016/j.ecolecon.2018.05.008, ISSN: 0921-8009
- *Liu, J., Vina, A., Yang, W., Li, S., Xu, W., & Zheng, H. (2018). China's Environment on a Metacoupled Planet. *Annual Review of Environment & Resources*, 43, 1-34.
- *Liu, J., Vina, A., Yang, W., Xu, W., & Zheng, H. (2018). China's environment on a metacoupled planet. *Annual Review of Environment and Resources*, 43, 1-34.
- *Zhang, J., Connor, T., Yang, H., Ouyang, Z., Li, S., & Liu, J. (2018). Complex effects of natural disasters on protected areas through altering telecouplings. *ECOLOGY AND SOCIETY*, 23(3). doi: 10.5751/ES-10238-230317, ISSN: 1708-3087
- *Chung, M. G., Pan, T., Zou, X., & Liu, J. (2018). Complex Interrelationships between Ecosystem Services Supply and Tourism Demand: General Framework and Evidence from the Origin of Three Asian Rivers. *SUSTAINABILITY*, 10(12). doi: 10.3390/su10124576, ISSN: 2071-1050
- *Connor, T., Hull, V. K., Vina, A., Shortridge, A. M., Tang, Y., Zhang, J., Wang, F., & Liu, J. (2018). Effects of grain size and niche breadth on species distribution modeling. *ECOGRAPHY*, 41(8), 1270-1282. doi: 10.1111/ecog.03416, ISSN: 0906-7590
- *Yang, H., Lupi, F., Zhang, J., Chen, X., & Liu, J. (2018). Feedback of telecoupling: the case of a payments for ecosystem services program. *ECOLOGY AND SOCIETY*, 23(2). doi: 10.5751/ES-10140-230245, ISSN: 1708-3087
- *Wu, W., Yu, Q., You, L., Chen, K., Tang, H., & Liu, J. (2018). Global cropping intensity gaps: Increasing food production without cropland expansion. *LAND USE POLICY*, 76, 515-525. doi: 10.1016/j.landusepol.2018.02.032, ISSN: 0264-8377
- *Chung, M. G., Dietz, T. M., & Liu, J. (2018). Global relationships between biodiversity and nature-based tourism in protected areas. *ECOSYSTEM SERVICES*, 34, 11-23. doi: 10.1016/j.ecoser.2018.09.004, ISSN: 2212-0416

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Department Publications Report
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10002344 - FISHERIES AND WILDLIFE

- *Sun, J., Mooney, H., Wenbin Wu, H. T., Yuxin Tong, Z. X., Baorong Huang, Y. C., Xinjun Yang, D. W., & Fusuo Zhang, J. L. (2018). Importing food damages domestic environment: Evidence from global soybean trade. *PNAS*, *115*(21), 5415-5419.
- *Schroeter, M., Koellner, T., Alkemade, R., Arnhold, S., Bagstad, K. J., Erb, K.-H., Frank, K., Kastner, T., Kissinger, M., Liu, J., Lopez-Hoffman, L., Maes, J., Marques, A., Martin-Lopez, B., Meyer, C., Schulp, Catharina J. E., Thober, J., Wolff, S., & Bonn, A. (2018). Interregional flows of ecosystem services: Concepts, typology and four cases. *ECOSYSTEM SERVICES*, *31*, 231-241. doi: 10.1016/j.ecoser.2018.02.003, ISSN: 2212-0416
- *Wei, Z., Zhang, L., Li, Y., Yuling Tian, X. L., Xue Zhang, A. P. J. M., Sonnenfeld, D. A., Liu, J., & Chen, L. (2018). Neglected environmental health impacts of China's supply-side structural reform. *Environment International*, *15*, 97-103.
- *Schaffer-Smith, D., Tomscha, S. A., Jarvis, K. J., Maguire, D. Y., Treglia, M. L., & Liu, J. (2018). Network analysis as a tool for quantifying the dynamics of metacoupled systems: an example using global soybean trade. *ECOLOGY AND SOCIETY*, *23*(4). doi: 10.5751/ES-10460-230403, ISSN: 1708-3087
- *Liu, J., Hull, V., Charles J. Godfray, H., Tilman, D., Gleick, P., Holger Hoff, C.-W., Zhenci Xu, M. G. C., & Jing Sun, S. L. (2018). Nexus approaches to global sustainable development. *Nature Sustainability*, *1*, 466–476.
- *Carlson, A. K., Taylor, W. W., Liu, J., & Orlic, I. (2018). Peruvian anchoveta as a telecoupled fisheries system. *ECOLOGY AND SOCIETY*, *23*(1). doi: 10.5751/ES-09923-230135, ISSN: 1708-3087
- *Yang, H., Yang, W., Zhang, J., Connor, T., & Liu, J. (2018). Revealing pathways from payments for ecosystem services to socioeconomic outcomes. *Science Advances*, *4*(3), eaao6652.
- *Dou Yue, Bicudo da Silva, Ramon Felipe, Yang Hongbo, & Liu Jianguo. (2018). Spillover effect offsets the conservation effort in the Amazon. *JOURNAL OF GEOGRAPHICAL SCIENCES*, *28*(11), 1715-1732. doi: 10.1007/s11442-018-1539-0, ISSN: 1009-637X
- *Hull, V. K., & Liu, J. (2018). Telecoupling: A new frontier for global sustainability. *ECOLOGY AND SOCIETY*, *23*(4). doi: 10.5751/ES-10494-230441, ISSN: 1708-3087
- *Carlson, A. K., Zaehring, J. G., Garrett, R. D., Bicudo Silva, Ramon Felipe, Furumo, P. R., Raya Rey, Andrea N., Torres, A., Chung, M. G., Li, Y., & Liu, J. (2018). Toward Rigorous Telecoupling Causal Attribution: A Systematic Review and Typology. *10*(12). doi: 10.3390/su10124426, ISSN: 2071-1050
- *Tang, Y., Winkler, J. A., Vina, A., Liu, J., Zhang, Y., Zhang, X., Li, X., Wang, F., Zhang, J., & Zhao, Z. (2018). Uncertainty of future projections of species distributions in mountainous regions. *PLOS ONE*, *13*(1). doi: 10.1371/journal.pone.0189496, ISSN: 1932-6203
- *Liu, J., Connor, T., Friis, C., Challies, E., Newig, J., Romulo, C., Herzberger, A., Roche, J., Silva, R., Chung, M., Zimmerer, K., Batistella, M., Parish, E., Sun, J., Millington, J., Lenschow, A., Mechiche-Alami, A., Basher, Z., Zhao, Z., Dou, Y., Treglia, M., Triezenberg, H. A., Huettmann, F., & Yang, H. (2018). Spillover systems in a telecoupled Anthropocene: Typology, methods, and governance for global sustainability. *Current Opinion in Environmental Sustainability*, *33*, 58–69.
- *McCord, P. F., Tonini, F., & Liu, J. (2018). The telecoupling GeoApp: A web-GIS application to systematically analyze telecouplings and sustainable development. *Applied Geography*, *96*, 16-28.
- *Boonthai, T., Loch, T. P., Zhang, Q., Van Deuren, M. G., Abdel-Kariem, M. F., Whelan, G. E., & Herbst, S. J. (2018). Retail Baitfish in Michigan Harbor Serious Fish Viral Pathogens. *Journal of aquatic animal health*, *30*(4), 253-263. doi: 10.1002/aah.10034, ISSN: 0899-7659
- *Loch, T. P., & Abdel-Kariem, M. F. (2018). Flavobacteria colonizing the early life stages of hatchery-incubated Chinook salmon *Oncorhynchus tshawytscha* (Walbaum 1792) are markedly diverse. *Journal of fish diseases*, *41*(5), 829-845. doi: 10.1111/jfd.12795, ISSN: 0140-7775
- *LaFrentz, B. R., García, J. C., Waldbieser, G. C., Evenhuis, J. P., Loch, T. P., Liles, M. R., Wong, F. S., & Chang, S.-E. (2018). Identification of Four Distinct Phylogenetic Groups in *Flavobacterium columnare* With Fish Host Associations. *Frontiers in microbiology*, *9*, 452. doi: 10.3389/fmicb.2018.00452

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Department Publications Report
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- *Fujimoto, M., Lovett, B., Angoshtari, R., Nirenberg, P., Loch, T. P., Scribner, K. T., & Marsh, T. L. (2018). Antagonistic Interactions and Biofilm Forming Capabilities Among Bacterial Strains Isolated from the Egg Surfaces of Lake Sturgeon (*Acipenser fulvescens*). *Microbial ecology*, *75*(1), 22-37. doi: 10.1007/s00248-017-1013-z, ISSN: 0095-3628
- *Carpenter, C., & Loveridge, S. T. (2018). Differences between Latino-Owned Businesses and White, Black or Asian-Owned Businesses: Evidence from Census Microdata. *Economic Development Quarterly*, *32*(3), 225-24. doi: <http://journals.sagepub.com/doi/10.1177/0891242418785466>
- *Aryal, G., Mann, J., Loveridge, S., & Joshi, S. (2018). Exploring Innovation Creation Across Rural and Urban Firms: Analysis of the National Survey of Business Competitiveness. *Journal of Entrepreneurship and Public Policy*, *7*(4), 357-376.
- Shumba, T., Montgomery, R. A., Rasmussen, G. S., & Macdonald, D. W. (2018). African wild dog habitat use modelling using telemetry data and citizen scientist sightings: are the results comparable? *African Journal of Wildlife Research*, *48*(1), 1--13.
- Farhadinia, M. S., Moll, R. J., Montgomery, R. A., Ashrafi, S., Johnson, P. J., Hunter, L. T., & Macdonald, D. W. (2018). Citizen science data facilitate monitoring of rare large carnivores in remote montane landscapes. *Ecological Indicators*, *94*, 283--291.
- Montgomery, R. A., Hoffmann, C. F., Tans, E. D., & Kissui, B. (2018). Discordant scales and the potential pitfalls for human-carnivore conflict mitigation. *Biological conservation*, *224*, 170--177.
- Montgomery, R. A., Redilla, K. M., Ortiz-Calo, W., Smith, T., Keller, B., & Millspaugh, J. J. (2018). Evaluating the individuality of animal-habitat relationships. *Ecology and evolution*.
- *Montgomery, R. A., Hayward, M., Gray, S. A., Millspaugh, J., Kissui, B., Kramer, D. B., Moll, R., Mudumba, T., Tans, E. D., Muneza, A., Abade, L., Beck, J., Hoffman, C., Booher, C., & Macdonald, D. (2018). Examining Evident Interdisciplinarity among Prides of Lion Researchers. *Frontiers in Ecology and Evolution*, *6*, 49.
- Kasozi, H., & Montgomery, R. (2018). How do giraffes locate one another? A review of visual, auditory, and olfactory communication among giraffes. *Journal of Zoology*, *306*(3), 139--146.
- Moll, R. J., Cepek, J. D., Lorch, P. D., Dennis, P. M., Robison, T., Millspaugh, J. J., & Montgomery, R. A. (2018). Humans and urban development mediate the sympatry of competing carnivores. *Urban Ecosystems*, 1--14.
- Abade, L., Cusack, J., Moll, R. J., Strampelli, P., Dickman, A. J., Macdonald, D. W., & Montgomery, R. A. (2018). Spatial variation in leopard (*Panthera pardus*) site use across a gradient of anthropogenic pressure in Tanzania's Ruaha landscape. *PloS one*, *13*(10), e0204370.
- Boyer, R. A., Coluccy, J. M., Montgomery, R. A., Redilla, K. M., & Winterstein, S. (2018). The Effect of Habitat on the Breeding Season Survival of Mallards in the Great Lakes Region. *Canadian Journal of Zoology*, *96*(7), 700-706.
- Lepard, C. C., Moll, R. J., Cepek, J. D., Lorch, P. D., Dennis, P. M., Robison, T., & Montgomery, R. A. (2018). The influence of the delay-period setting on camera-trap data storage, wildlife detections and occupancy models. *Wildlife Research*.
- *Li, Y., Wagner, T., Jiao, Y., Lorantas, R., & Murphy, C. A. (2018). Evaluating spatial and temporal variability in growth and mortality for recreational fisheries with limited catch data. *Canadian Journal of Fisheries and Aquatic Sciences*, *75*(9), 1436-1452.
- *Legradi, J., DiPaola, C., Kraak, M., van der Geest, H., Schymanski, E., Williams, A., Dingemans, M., Massei, R., Brack, W., Cousin, X., Begout, M.-L., van der Oost, R., Carion, A., Suarez Ulloa, V., Silvestre, F., Escher, B., Engwall, M., Nilen, G., Keiter, S., Pollet, D., Waldmann, P., Kienle, C., Werner, I., Haigis, A.-C., Knapen, D., Vergauwen, L., Spehr, M., Schulz, W., Busch, W., Leuthold, D., Scholz, S., vom Berg, C., Basu, N., Murphy, C. A., Lampert, A., Kuckelkorn, J., Grummt, T., & Hollert, H. (2018). An ecotoxicological view on neurotoxicity assessment. *Environmental Sciences Europe*, *30*, 46.
- *Murphy, C. A., Nisbet, R., Antczak, P., Garcia-Reyero, N., Gergs, A., Lika, K., Mathews, T., Muller, E., Nacci, D., Peace, A., Remien, C., Schultz, I., Stevenson, L., & Watanabe, K. (2018). Incorporating sub-organismal

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

processes into dynamic energy budget models for ecological risk assessment. *Integrated Environmental Assessment and Management*, 14(5), 615-624.

- *DeBofsky, A. R., Klingler, R. H., Mora-Zamorano, F. X., Walz, M., Shepherd, B., Larson, J. K., Anderson, D., Yang, L., Goetz, F., Basu, N., Head, J., Tonellato, P., Armstrong, B. M., Murphy, C. A., & Carvan, M. J. (2018). Female reproductive impacts of dietary methylmercury in yellow perch (*Perca flavescens*) and zebrafish (*Danio rerio*). *Chemosphere*, 195, 301-311.
- *Nshimiyimana, J. P., Martin, S. L., Flood, M., Verhougstraete, M. P., Hyndman, D. W., & Rose, J. B. (2018). Regional variations of bovine and porcine fecal pollution as a function of landscape, nutrient, and hydrological factors. *Journal of Environmental Quality*, 47(5), 1024-1032.
- Oguchi, Y., Pohlen, Z., Smith, R. J., & Owen, J. C. (2018). Exotic- and native-dominated shrubland habitat use in fall frugivorous migrating landbirds at a stopover site in mid-Michigan. *The Condor: Ornithological Applications*, 120(1), 81-93.
- *Crosby, A., & Porter, W. F. (2018). A spatially-explicit, multi-scale occupancy model for large-scale population monitoring. *Journal of Wildlife Management*, 82(6), 1300-1310.
- *Snow, N. P., Zhang, Z., Finley, A. O., Rudolph, B. A., Porter, W. F., Williams, D. M., & Winterstein, S. (2018). Regional-based mitigation approaches to reduce wildlife-vehicle collisions at large scales. *Journal of Wildlife Management*, 82(4), 756-765.
- *Mawdsley, J., Organ, J. F., Decker, D. J., Forstchen, A., Regan, R., Riley, S. J., Boyce, M. S., & McDonald, J. E. (2018). Artelle et al. (2018) miss the science underlying North American wildlife management. *Advances in Science*, 4(10), 8281. doi: 10.1126/sciadv.aat8281
- *Goguen, A. D., Riley, S. J., Organ, J. F., & Rudolph, B. A. (2018). Wild-harvested venison yields and sharing by Michigan deer hunters. *Wildlife Society Bulletin*, 23, 197-212.
- *Riley, S. J., Ford, J. K., Triezenberg, H. A., & Lederle, P. E. (2018). Stakeholder trust in a state wildlife agency. *Journal of Wildlife Management*, 82, 1528-1535.
- *Killion, A. G., Roloff, G. J., Campa, H., Winterstein, S., & Mayhew, S. (2018). Implementing a citizen science program to support wildlife management: MI-MAST. *Wildlife Society Bulletin*, 42(3), 518-527.
- *Mayer, R. E., Reischer, G. H., Ixenmaier, S. K., Derx, J., Blaschke, A. P., Ebdon, J. E., Linke, R., Egle, L., Ahmed, W., Blanch, A. R., Byamukama, D., Savill, M., Mushi, D., Cristobal, H. A., Edge, T. A., Schade, M. A., Aslan, A., Brooks, Y. M., Sommer, R., Masago, Y., Sato, M. I., Taylor, H. D., Rose, J. B., Wuertz, S., Shanks, O. C., Piringer, H., Mach, R. L., Savio, D., Zessner, M., & Farnleitner, A. H. (2018). Global distribution of human-associated fecal genetic markers in reference samples from six continents. *Environmental Science & Technology*, 52(9), 5076-5084.
- *Regli, S., Rose, J. B., Haas, C. N., & Gerba, C. P. (2018). Pages from the past: Modeling the risk from *Giardia* and viruses in drinking water. *Journal American Water Works Association*, 110(5), 68-72.
- *Warraniak, J., Marsh, T. L., & Scribner, K. T. (2018). 18S metabarcoding diet analysis of the predatory fish community in the Black River, Cheboygan County, MI, during and after the larval lake sturgeon drift period. *Ecology and Evolution*, DOI:10.1002/ece3.4857.
- *Waples, R., Scribner, K. T., Moore, J., Draheim, H., Etter, D., & Boersen, M. (2018). Accounting for age structure and spatial structure in eco-evolutionary analyses of a large, mobile vertebrate. *Journal of Heredity*, 109, 709-723.
- *Finley, A. O., Forsythe, P., Crossman, J., Baker, E., & Scribner, K. T. (2018). Assessing impact of exogenous features on biotic phenomena in the presence of strong spatial dependence: A lake sturgeon case study in natural stream settings. *PLoS ONE*, 13, e0204150. <https://doi.org/10.1371/journal.pone.0204150>.
- *Abdul-Razak, S., Griffin, M., Mischke, J., Bosworth, B., Waldbieser, B., Wise, G., Marsh, T. L., & Scribner, K. T. (2018). Biotic and abiotic factors influencing channel catfish egg and gut microbiome dynamics during early life stages. *Aquaculture*, doi.org/10.1016/j.aquaculture.2018.08.073..
- *Dammerman, K., Webb, M., & Scribner, K. T. (2018). The influence of reproductive timing on female reproductive success and ovarian quality determined using plasma testosterone concentrations in lake

* Identifies peer-reviewed publications.

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

sturgeon (*Acipenser fulvescens*). *Canadian Journal of Fisheries and Aquatic Sciences*, doi.org/10.1139/cjfas-2018-0141.

- *Warraniak, J., Baker, E., & Scribner, K. T. (2018). Molecular diet analysis reveals predator-prey community dynamics and environmental factors affect predation of larval lake sturgeon (*Acipenser fulvescens*) in a natural system. *Journal of Fish Biology*, 93, 616-629.
- *Draheim, H., Fortin, M.-J., Moore, J., & Scribner, K. T. (2018). Beyond the Snapshot: landscape genetic analysis using time series data in American black bears. *Evolutionary Applications*, 11, 1219-1230.
- *Warraniak, J., Blumstein, D., & Scribner, K. T. (2018). Barcoding PCR primers detect larval lake sturgeon (*Acipenser fulvescens*) in diets of piscine predators. Conservation Genetics Resources. *Conservation Genetics Resources*, 10, 259-268.
- *Jay, K., McGuire, J. M., & Scribner, K. T. (2018). Ecological conditions affect behavioral and morphological trait variability of Lake Sturgeon yolk-sac larvae. *Journal of Applied Ichthyology*, 34, 341-347.
- *Crossman, J., Scribner, K. T., Forsythe, P., & Baker, E. (2018). Lethal and non-lethal effects of predation by native fish and an invasive crayfish on hatchery-reared age-0 lake sturgeon. *Journal of Applied Ichthyology*, 34, 322-330.
- *Willoughby, J., Harder, A., Tennessen, J., Scribner, K. T., & Christie, M. (2018). Pacific steelhead (*Oncorhynchus mykiss*) rapidly adapted to the novel, freshwater environment of Lake Michigan despite a genome-wide founder effect. *Molecular Ecology*, 27, 4041-4051.
- *Forsythe, P., Crossman, J., Firkus, C., Scribner, K. T., & Baker, E. (2018). Predation rates on lake sturgeon eggs by invasive crayfish is related to crayfish density, body size, and substrate size. *Journal of Applied Ichthyology*, 34, 314-321.
- *Donofrio, M., Scribner, K. T., Baker, E., Kanefsky, J., Tsehaye, I., & Elliott, R. (2018). Telemetry and Genetic Data Characterize Lake Sturgeon Breeding Ecology and Spawning Site Fidelity in Green Bay Rivers of Lake Michigan. *Journal of Applied Ichthyology*, 34, 302-313.
- *Bartron, M., Sard, N., & Scribner, K. T. (2018). Evaluation and comparison of hatchery mating strategies using measures of genetic diversity. *Transactions of the American Fisheries Society*, 147, 185-194.
- *Duong, T.-Y., & Scribner, K. T. (2018). Genetic diversity of bighead catfish (*Clarias macrocephalus*) populations in the Lower Mekong Delta, Vietnam. *Fisheries Research*, 207, 118-125.
- *Cheruvellil, K. S., & Soranno, P. A. (2018). Data-intensive ecological research is catalyzed by open science and team science. *BioScience*, 68(10), 813-822.
- *Cobourn, K. M., Carey, C. C., Boyle, K. J., Duffy, C., Dugan, H. A., Farrell, K. J., Fitchett, L., Hanson, P. C., Hart, J. A., Henson, V. R., Hetherington, A. L., Kemanian, A. R., Rudstam, L. G., Shu, L., Soranno, P. A., Sorice, M. G., Stachelek, J., Ward, N. K., Weathers, K. C., Weng, W., & Zhang, Y. (2018). From concept to practice to policy: modeling coupled natural and human systems in lake catchments. *Ecosphere*, 9(5), e02209.
- *Settles, I. H., Brassel, S. T., Montgomery, G. M., Elliott, K. C., Soranno, P. A., & Cheruvellil, K. S. (2018). Missing the Mark: A New Form of Honorary Authorship Motivated by Desires for Inclusion. *Innovative Higher Education*, 43, 303-319.
- *Lapierre, J.-F. (2018). Similarity in spatial structure constrains ecosystem relationships: Building a macroscale understanding of lakes. *Global Ecology and Biogeography*, 27(10), 1251-1263.
- *Stow, C. A., Webster, K. E., Wagner, T., Lottig, N. R., Soranno, P. A., & Cha, Y.-K. (2018). Small values in big data: The continuing need for appropriate metadata. *Ecological Informatics*, 45, 26-30.
- *Oliver, S. K., Fergus, C. E., Skaff, N. K., Wagner, T., Tan, P.-N., Cheruvellil, K. S., & Soranno, P. A. (2018). Strategies for effective collaborative manuscript development in interdisciplinary science. *Ecosphere*, 9(4), e02206.
- *Nohner, J. K., Lupi, F., & Taylor, W. W. (2018). Lakefront Property Owners' Willingness to Accept Easements for Conservation of Water Quality and Habitat. *Water Resources Research*, 54(3), 1533-1548.

* Identifies peer-reviewed publications.

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

- *Tonini, F., Jones, C., Miranda, B. C., Cobb, R., Sturtevant, B. R., & Meentemeyer, R. K. (2018). Modeling epidemiological disturbances in LANDIS-II. *Environmental Modelling & Software*, 41, 1-7.
- *Ogden, N. H., Pang, G., Ginsberg, H. S., Hickling, G. J., Burke, R. L., Beati, L., & Tsao, J. I. (2018). Evidence for Geographic Variation in Life-Cycle Processes Affecting Phenology of the Lyme Disease Vector *Ixodes scapularis* (Acari: Ixodidae) in the United States. *Journal of Medical Entomology*, 55(6), 1386–1401.
- *McConnell, W. J., & Vina, A. (2018). Interactions between food security and land use in the context of global change. *LAND*, 7(2), 53-54.
- *Wagner, M., Hanson, J. E., Meckley, T. D., Johnson, N. S., & Bals, J. D. (2018). A simple, cost-effective emitter for controlled release of fish pheromones: development, testing, and application to management of the invasive sea lamprey. *PLOS One*, 13(6), e0197569.
- *Hummel, S. L., Campa, H., Dunton, E., & Winterstein, S. (2018). Understanding how a keystone herbivore, white-tailed deer impacts wetland vegetation types in southern Michigan. *American Midland Naturalist*, 179, 51-67.
- *Koundinya, V., Baird, A., Klink, J., Wolfson, L. G., Frankenberger, J., Bonnell, J., & Power, R. (2018). Core Competencies for Successful Watershed Management Practitioners. *Journal of Extension*, 56(1), Journal does not assign page numbers. Retrieved from <https://joe.org/joe/2018february/rb1.php>

Other Articles

- Symanski, A., & Latimore, J. A. (2018, July). Celebrate Lakes Appreciation Month by committing to learn more about Michigan's lakes. *Michigan State University Extension News*. Retrieved from <https://www.canr.msu.edu/news/celebrate-lakes-appreciation-month-by-committing-to-learn-more-about-michigan-s-lakes>
- Latimore, J. A. (2018, July). Alien-looking blob discovered in southern Michigan lake. *Michigan State University Extension News*. Retrieved from <https://www.canr.msu.edu/news/alien-looking-blob-discovered-in-southern-michigan-lake>
- *Boyer, R. A., Coluccy, J. M., Montgomery, R. A., K., R., & Winterstein, S. (2018). The effect of habitat on the breeding season survival of mallards in the Great Lakes region.
- *Riley, S. J., Triezenberg, H. A., Ford, J. K., & Lederle, P. (2018). Stakeholder trust in a state wildlife agency.
- *Killion, A. K., Roloff, G. J., Mayhew, S., Campa, H., & Winterstein, S. (2018). Implementing a citizen science program to support wildlife management: MI-MAST. (DOI: 10.1002/wsb.903.)
- *Melvin, T. A., & Roloff, G. J. (2018). Reliability of post-fire surveys for eastern box turtles. (DOI: 10.1002/wsb.911.)
- Falkenberg, L. J., & Soranno, P. A. (2018). How editorial fellowships at society journals can provide opportunities for early career researchers in publishing: A case study of the Raelyn Cole Editorial Fellowship. *Limnology and Oceanography Bulletin*, 27(3), pp. 88.
- Taylor, W. W. (2018). Basher, Z., A. J. Lynch, W. W. Taylor. 2018. New global high-resolution river centerlines of large rivers systems. *Data in Brief*. 20:1552-1555.
- Taylor, W. W. (2018). Carlson, A. K., W. W. Taylor, Z. Basher, T. D. Beard, Jr., and D. M. Infante. 2018. Science to action: decision-support to advance stream trout management in a changing climate. *Proceedings of the Wild Trout XII Symposium* 12.
- Taylor, W. W. (2018). Nohner, J. K., F. Lupi, and W. W. Taylor. 2018. Lakefront property owners' willingness to accept easements for conservation of water quality and habitat. *Water Resources Research*, 54:1-16.
- Taylor, W. W. (2018). Reid, A. J., A. K. Carlson, I. F. Creed, E. J. Eliason, P. A. Gell, P. T. J. Johnson, K. A. Kidd, T. J. MacCormack, J. D. Olden, S. J. Ormerod, J. P. Smol, W. W. Taylor, K. Tockner, J. C. Vermaire, D. Dudgeon, and S. J. Cooke. In review in 2018. Emerging threats and persistent conservation challenges for freshwater biodiversity. *Biological Reviews* XX:XXX-XXX.
- Smith, J. B., & Williams, D. M. (2018, Winter). Bears on an Edge. *Fair Chase Magazine*, pp. 52-56.

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

Wolfson, L. G., & Elgin, E. L. (2018, December). MSU Extension to help address PFAS questions and concerns. *MSU Extension*. Retrieved from <https://www.canr.msu.edu/news/msu-extension-to-help-address-your-pfas-questions-and-concerns>

*Michigan State University, Kline-Robach, R. E., & Bagley, D. E. (2018, April). Perfluorinated Chemicals: What they are and what you should know about them. *MSU Extension, PFAS Contamination Response*. Retrieved from <https://www.canr.msu.edu/news/perfluorinated-chemicals-what-they-are-and-what-you-should-know-about-them>

Wolfson, L. G., & Ghane, E. (2018, March). Edge-of-Field Research Focuses on Controlled Drainage and Saturated Buffer for Reducing Nutrient Runoff. *North Central Region Water Network News*.

Books

Halwart, M., & Bartley, D. M. (2018). Revised Draft State of the World's Aquatic Genetic Resources for Food and Agriculture. Rome, Italy: FAO. Retrieved from <http://www.fao.org/fi/static-media/MeetingDocuments/AqGenRes/ITWG/2018/Inf2e.pdf>.

Albrecht, D., Loveridge, S. T., Goetz, S., & Welborn, R. (Eds.). (2018). Rural housing and economic development. New York, NY: Routledge.

Garcia-Reyero, N., & Murphy, C. A. (Eds.). (2018). A systems biology approach to advancing adverse outcome pathways for risk assessment. (1), (pp. 422 pp): Springer Cham.

Book Chapters

A., & A. (2018). Biodiversity, fisheries and aquaculture. *State of World Fisheries and Aquaculture 2018*. FAO, Rome. <http://www.fao.org/3/I9540EN/i9540en.pdf> ., (pp. 102-108). Rome, Italy: FAO.

Food and Agriculture Organization of the UN, A., & Bartley, D. M. (2018). Global Inland Fisheries Revisited: their contribution to the achievement of the SDGs. Pp 108-110 in. *State of World Fisheries and Aquaculture 2018*. FAO, Rome., (pp. 108-110). Rome, Italy: FAO. Retrieved from <http://www.fao.org/3/I9540EN/i9540en.pdf>

Bartley, D. M. (2018). Chapters 2, 4 and 7. Revised Draft State of the World's Aquatic Genetic Resources for Food and Agriculture. *Revised Draft State of the World's Aquatic Genetic Resources for Food and Agriculture..* Rome, Italy: FAO. Retrieved from <http://www.fao.org/fi/static-media/MeetingDocuments/AqGenRes/ITWG/2018/Inf2e.pdf>

Bartley, D. M., & FungeSmith, S. (2018). AQUATIC BIODIVERSITY AND INLAND FISHERIES. In S. FungeSmith (Ed.), *FAO Fisheries Circular. REVIEW OF THE STATE OF THE WORLD FISHERY RESOURCES: INLAND FISHERIES* (C942), (pp. 284-304). Rome, Italy: FAO.

*Lute, M. L., & Gore, M. L. (2018). Challenging the false dichotomy of us vs. them: Heterogeneity in stakeholder identities regarding wolves. In T. Hovardas (Ed.), *Large carnivore conservation and management: Human dimensions and governance*. United Kingdom: Taylor & Francis.

*Gore, M. L., Killion, A. K., Roloff, G. J., & Ratsimbazafy, J. (2018). Interdisciplinary intelligence mapping to reduce conservation crime risks. *Wildlife Crime: From Theory to Practice..* Philadelphia, PA: Temple University Press.

*McCarthy, S., Tambe, M., Kiekintveld, C., Gore, M. L., & Killion, A. (2018). Simultaneous optimization of strategic and tactical planning for environmental sustainability and security. In M. Tambe (Ed.), *Artificial Intelligence for Conservation*. United Kingdom: Cambridge University Press.

*Hayes, D. B., McLaughlin, R., Peterson, L., & Roth, B. M. (2018). The dam dilemma for fisheries management in the Great Lakes. In E. Freedman & M. Neuzil, *Biodiversity, conservation, and environmental management in the Great Lakes Basin*, (pp. 11-21). New York: Routledge.

Garcia-Reyero, N., & Murphy, C. A. (2018). Advancing adverse outcome pathways for risk assessment. In C. A. Murphy & N. Garcia-Reyero (Ed.), *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 1-14): Springer Cham.

* Identifies peer-reviewed publications.

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

- Arini, A., Mittal, K., & Basu, N. (2018). Cell-free essays in environmental toxicology. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 31-41): Springer Cham.
- Willett, K. L. (2018). Considering Epigenetics in adverse outcome pathways. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 219-234): Springer Cham.
- Zupanic, A., Pillai, S., Coman Schmid, D., & Schirmer, K. (2018). Green algae and networks for adverse outcome pathways. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 133-148): Springer Cham.
- Hodges, G., Gutsell, S., Taylor, N., Brockmeier, E., Butler, E., Rendal, C., & Colbourne, J. (2018). Invertebrate model species in AOP development. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 75-106): Springer Cham.
- Murphy, C. A., Nisbet, R. M., Antczak, P., Garcia-Reyero, N., Gergs, A., Lika, K., Mathews, T., Muller, E. B., Nacci, D., Peace, A., Remien, C. H., Schultz, I. R., & Watanabe, K. H. (2018). Linking adverse outcome pathways to dynamic energy budgets: A conceptual model. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 281-302): Springer Cham.
- Mora-Zamorano, F. X., Larson, J. K., & Carvan, M. J. (2018). Neurobehavioral analysis methods for adverse outcome pathway (AOP) models and risk assessment. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 149-175): Springer Cham.
- Hecker, M. (2018). Non-model species in ecological risk assessment. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 107-132): Springer Cham.
- McBride, M. T. (2018). The application of Omics data to the development of AOPs. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 177-198): Springer Cham.
- Schultz, I. R., & Watanabe, K. H. (2018). The development of quantitative AOPs. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 263-280): Springer Cham.
- Vergauwen, L., Van Cruchten, S., & Knapen, D. (2018). The fish embryo as a model for AOP development. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 43-73): Springer Cham.
- Elliott, K. C., Murphy, C. A., & Garcia-Reyero, N. (2018). The future of adverse outcome pathways: Analyzing their social context. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 391-404): Springer Cham.
- Leonard, J., Bell, S., Oki, N., Nelms, M., Tan, Y.-M., & Edwards, S. (2018). Tiered approaches to incorporate the adverse outcome pathway framework into chemical-specific risk-based decision making. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 235-261): Springer Cham.
- Wittwehr, C. (2018). Use and acceptance of AOPs for regulatory applications. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 379-390): Springer Cham.
- Willett, C., Fitzpatrick, S., Meek, B., & Westmoreland, C. (2018). Use of adverse outcome pathways in human risk assessment and toxicology. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 349-378): Springer Cham.
- Warner, C., Garcia-Reyero, N., & Perkins, E. (2018). Use of genetic manipulation for evaluating and understanding adverse outcome pathways. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 199-218): Springer Cham.

* Identifies peer-reviewed publications.

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

- Browne, P., Casey, W. M., & Dix, D. J. (2018). Use of high-throughput and computational approaches for Endocrine Pathway screening. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 15-29): Springer Cham.
- Armstrong, B. M., Murphy, C. A., & Basu, N. (2018). Using a Vitellogenesis model to link in vitro neurochemical effects of pulp and paper mill effluents to adverse reproductive outcomes in fish. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 317-347): Springer Cham.
- Rycroft, T., Massey, O., Foran, C. M., & Linkov, I. (2018). Weight of evidence frameworks in evaluation of adverse outcome pathways. In N. Garcia-Reyero & C. A. Murphy, *A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment* (1), (pp. 303-316): Springer Cham.
- *Owen, J. C. (2018). Parasite and Disease Ecology. *Ornithology: Foundation, Analysis, and Application*, (pp. 733-753). Baltimore, MD: Johns Hopkins University Press. ISBN: 9781421424712
- *Porter, W. F., Mason, R., & Frens, K. (2018). The protection acts. In B. Leopold, J. Cummins, & W. Kessler, *North American wildlife policy and law*, (pp. 193-208). Missoula, MT: Boone and Crockett Club.
- *Mealey, S. P., Thomas, J. W., Roloff, G. J., & O'Laughlin, J. (2018). Updating the ecological foundation of the Endangered Species Act: A case study of the Northwest Forest Plan. *193 Million Acres: Toward a Healthier and More Resilient US Forest Service.*, (pp. 469-514). Bethesda, MD: Society of American Foresters.

Papers for Presentations

- *Whelan, G. E., Daniel, W. M., Dean, E., Infante, D. M., Herreman, K., & Cooper, A. (2018). Who is doing what to trout: Insights from the National Fish Habitat Assessment. 263-272.
- Li, W. (2018). Complexity of pheromones in the Sea lamprey. *CHEMICAL SENSES* (4, 43), (pp. E18-E18): OXFORD UNIV PRESS. ISSN: 0379-864X
- Robinson, K. F., Barans, C., & Arendt, M. (2018). Predictions of the presence of coastal pelagic fishes off Georgia, USA, from local oceanographic and biological conditions. *Proceedings of the 70th Gulf and Caribbean Fisheries Institute*.

Reports or Studies

- Fisch, N., & Bence, J. R. (2018). Sampling intensity, aging intensity, and its effect on age-structured assessment of cisco in Thunder Bay. *Quantitative Fisheries Center Technical Report* (T2018-02,). East Lansing, MI.
- MSU-QFC, N., & Bence, J. (2018, May, 31). Modeling sea lamprey abundance in Lake Huron after stopping lampricide treatment on specific rivers. *QFC Technical Report* (T2018-01,). EAST LANSING, MI: QFC.
- Bennett, A. E., Patil, P., Kleisner, K., Rader, D., Virdin, J., & Basurto, X. (2018). Contribution of Fisheries to Food and Nutrition Security. (NI Report 18-02,). Durham, NC: Duke University.
- Triezenberg, H. A., Riley, B., Herreman, K., Knudson, W. A., Infante, D. M., & Taylor, W. W. (2018). Commercial aquaculture in Michigan siting guidebook. Michigan Sea Grant College Program MICHU-18-201.
- Steen, P., Knoll-Wilmes, M., & Latimore, J. A. (2018, 1st Quarter). Cooperative Lakes Monitoring Program - 2017 Annual Summary. MI: Michigan Clean Water Corps (MiCorps). Retrieved from <https://cdn.cloud1.cemah.net/wp-content/uploads/sites/63/2018/03/CLMP-AnnualReport-2017.pdf>

Contributions in Other Scholarly Outlets

- *Li, K., Buchinger, T. J., & Li, W. (2018). Discovery and characterization of natural products that act as pheromones in fish [Review]. *NATURAL PRODUCT REPORTS*. (6, 35, 501-513): ROYAL SOC CHEMISTRY. doi: 10.1039/c8np00003d, ISSN: 0265-0568
- Latimore, J. A. (2018, September, 6). Working together for healthy lakes. [Web log post]. *The MiCorps Blog*. MI: Michigan Clean Water Corps (MiCorps). Retrieved from <https://micorps.net/blog/healthylakesconf/>

Department Publications Report
Published Dates: January 1, 2018 - December 31, 2018¹

10002344 - FISHERIES AND WILDLIFE

- Kirkwood, J., & Latimore, J. A. (2018, January, 22). There's something fishy in those plants. [Web log post]. *The MiCorps Blog*. MI: Michigan Clean Water Corps (MiCorps). Retrieved from <https://micorps.net/blog/beneficial-aquatic-plants-fish/>
- *McCord, P., Tonini, F., & Liu, J. (2018, September, 6). Making strides in sustainable development with the Telecoupling GeoApp. *Science Trends*. Retrieved from <https://sciencetrends.com/making-strides-in-sustainable-development-with-the-telecoupling-geoapp/>
- Wolfson, L. G. (2018, August). Varied topics and titles. *Michigan Chapter, North American Lake Management Society*.