

James M. Hood II

CURRICULUM VITAE

30 MAY 2023

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hood.211@osu.edu

EDUCATION

- 2010 Ph.D. Ecology, University of Minnesota – Twin Cities, Advisors: Drs. J.C. Finlay and R.W. Sterner
2000 M.A. Zoology, Miami University, Advisor: Dr. M.J. Vanni
1997 B.A. Biology (cum laude), Lawrence University

APPOINTMENTS

- 2023 – Present *Associate Professor*, Department of Evolution, Ecology, and Organismal Biology, Translational Data Analytics Institute, The Ohio State University
2016 – 2023 *Assistant Professor*, Department of Evolution, Ecology, and Organismal Biology, Translational Data Analytics Institute, The Ohio State University
2014 – 2015 *RANNÍS Postdoctoral Fellow*, Department of Ecology, Montana State University and Icelandic Institute of Freshwater Fisheries
2012 – 2015 *Affiliate Faculty*, Department of Ecology, Montana State University
2010 – 2013 *Postdoctoral Associate*, Department of Ecology, Montana State University (with Dr. W. Cross)

PUBLICATIONS

(47 TOTAL; 44 PEER-REVIEWED; H-INDEX = 25)

(TRAINEE AUTHORSHIP: †UNDERGRADUATE; *GRADSTUDENT; ^POSTDOC)

- 2023 Sinclair, J. S., M. E. Fraker, **J.M. Hood**, E. D. Reavie, S. A. Ludsin. Eutrophication, water quality, and fisheries: a wicked management problem with insights from a century of change in Lake Erie. *Ecology and Society in press*.
- ^O'Donnell, R. Briland, R. Budnik, S.A. Ludsin, **J.M. Hood**. Trends in Lake Erie phytoplankton biomass and community structure during a 20-year period of rapid environmental change. *Journal of Great Lakes Research*. 49(3): 672-684. DOI: 10.1016/j.jglr.2022.12.011
- ^O'Donnell, R. Briland, R. Budnik, S.A. Ludsin, **J.M. Hood**. Trends in Lake Erie zooplankton biomass and community structure during a 25-year period of rapid environmental change. *Journal of Great Lakes Research*. 49(3): 685-697. DOI: 10.1016/j.jglr.2022.02.011
- Kreiling, R.M., P.M. Perner, K.J. Breckner, T.N. Williamson, L.A. Bartsch, **J.M. Hood**, N.F. Manning, L.T. Johnson. Watershed- and reach-scale drivers of phosphorus retention and release by streambed sediment in a western Lake Erie watershed during summer. *Science of the Total Environment*. 863: 160804. DOI: 10.1016/j.scitotenv.2022.160804

- Sinclair, J. S., R. Briland, M. E. Fraker, **J.M. Hood**, K. T. Frank, M. D. Faust, C. Knight, S. A. Ludsin. Multiple anthropogenic stressors decouple a density feedback in a freshwater predator. *Scientific Reports*. *In press*.
- 2022 *King‡, W.M., S.E. Curless, **J.M. Hood**‡. River phosphorus cycling suppresses cyanobacteria blooms. *Water Research*. 222: 118845. ‡**Authors contributed equally**.
- Fraker, M.E., J.S. Sinclair, K.T. Frank, **J.M. Hood**, S.A. Ludsin. Temporal scope influences ecosystem driver-response relationships: A case study of Lake Erie with implications for ecosystem-based management. *Science of the Total Environment* 813: 152473. DOI: 10.1016/j.scitotenv.2021.152473
- Cross‡, W.F., **J.M. Hood**‡, J.P. Benstead, A. D. Huryn, J. R. Welter, G. M. Gíslason, J. S. Ólafsson. Eutrophication likely to exacerbate effects of warming on the metabolic balance of running waters. *Limnology and Oceanography Letters* DOI: 10.1002/lol2.10244 ‡**Authors contributed equally**.
- Pace, S., **J.M. Hood**, H. Raymond, B. Moneymaker, S.W. Lyon. High-frequency monitoring to estimate loads and identify nutrient transport dynamics in the Little Auglaize River, Ohio. *Sustainability*. 14, 16484. DOI: 10.3390/su142416848.
- 2021 May, C.J., R.R. Budnik, S.A. Ludsin, D.R. O'Donnell[^], **J.M. Hood**, E.F. Roseman, and E.A. Marschall. Evidence that copepod biomass during the larval period regulates recruitment of Lake Erie walleye. *Journal of Great Lakes Research* 47(6):1737-1745.
- Hood, J.M.**, L.M. Collis*, J.D. Schade, R.A. Stark, J.C. Finlay. Longitudinal patterns and linkages in benthic fine particulate organic matter composition, respiration, and nutrient uptake. *Limnology and Oceanography* 66(7): 2684-2696. DOI: 10.1002/lno11781
- Sinclair, J.F., M.E. Fraker, **J.M. Hood**, K. Frank, S.A. Ludsin. Functional traits reveal the predominant anthropogenic drivers of long-term change across a large lake ecosystem. *Global Change Biology* 27(23): 6232-6251. DOI: 10.1111/gcb.15902
- Wilmot, O.J., **J.M. Hood**, A.D. Huryn, J.P. Benstead. Decomposing decomposition: isolating direct effects of temperature from other drivers of detrital processing. *Ecology* 102(10): e03467. DOI: <https://doi.org/10.1002/ecy.3467>
- Heinrich, K.K., C.V. Baxter, A.T.C. Bell, **J.M. Hood**. Of olives and carp: Interactive effects of an aquatic and terrestrial invader on a stream-riparian ecosystem. *Ecosphere* 12(10):e03789. DOI: 10.1002/ecs2.3789
- 2020 Junker, J.R., W.F. Cross, J.P. Benstead, A.D. Huryn, **J.M. Hood**, D. Nelson, G.M. Gíslason, J.S. Ólafsson. Flow is more important than temperature in driving patterns of organic matter storage and stoichiometry in stream ecosystems. *Ecosystems* 24: 1317-1331. DOI: 10.1007/s10021-020-00585-6
- Junker, J.R., W.F. Cross, J.P. Benstead, A.D. Huryn, **J.M. Hood**, D. Nelson, G.M. Gíslason, J.S. Ólafsson. Resource supply governs the apparent temperature dependence of animal production in stream ecosystems. *Ecology Letters* 23(12) 1809-1819. DOI: 10.1111/ele.13608
- Nelson, D., J.P. Benstead, A.D. Huryn, W.F. Cross, **J.M. Hood**, P.W. Johnson, J.R. Junker, G.M. Gíslason, J.S. Ólafsson. Contrasting responses of black fly species (Diptera: Simuliidae) to experimental whole-stream warming. *Freshwater Biology* 65(10): 1,793–1,805. DOI: 10.1111/fwb.13583
- 2019 Nelson, D., J.P. Benstead, A.D. Huryn, W.F. Cross, **J.M. Hood**, P.W. Johnson, J.R. Junker, G.M. Gíslason, J.S. Ólafsson. Thermal niche diversity and trophic redundancy drive neutral effects of warming on energy flux through a stream food web. *Ecology* 101(4): e02952 DOI: 10.10032/ecy.2952
- 2018 **Hood, J.M.**, J.P. Benstead, W.F. Cross, A.D. Huryn, P.W. Johnson, G.M. Gíslason, J.R. Junker, D. Nelson, J.S. Ólafsson, C. Tran. Increased resource use efficiency amplifies positive response of aquatic primary production to experimental warming. *Global Change Biology* 24(3): 1069-1084. Doi:10.1111/gcb.13912.
- 2017 Nelson, D. J.P. Benstead, A.D. Huryn, W.F. Cross, **J.M. Hood**, P.W. Johnson, J.R. Junker, G.M. Gíslason, J.S.

- Ólafsson. Experimental whole-stream warming alters community size structure. *Global Change Biology* 23: 2618-2628.
- Welti, N., M. Striebel, A.J. Ulseth, W.F. Cross, S. DeVilbiss, P.M. Gilbert, L. Guo, A.G. Hirst, **J.M. Hood**, J.S. Kominoski, K.L. MacNeill, A.S. Mehring, J.R. Welter, and H. Hillebrand. Bridging food webs, ecosystem metabolism, and biogeochemistry using ecological stoichiometry theory. *Frontiers in Microbiology* <https://doi.org/10.3389/fmicb.2017.01298>.
- Nelson, D. J.P. Benstead, A.D. Huryn, W.F. Cross, **J.M. Hood**, P.W. Johnson, J.R. Junker, G.M. Gislason, J.S. Ólafsson. Shifts in community size structure drive temperature invariance of secondary production in a stream-warming experiment. *Ecology* 98(7): 1797-1806.
- Benstead, J.P., M.A. Evans-White, C.A. Gibson, **J.M. Hood**. "Elemental content of stream biota." In *Methods in Stream Ecology, Volume 2: Ecosystem Function*. Edited by G.A. Lamberti and F.R. Hauer. Academic Press, London United Kingdom.
- Vanni, M.J., P.B. McIntyre, and 72 others. A global database of nitrogen and phosphorus excretion rates of aquatic animals. *Ecology* 98: 1475.
- 2016 Williamson, T.J., W.F. Cross, J.P. Benstead, G.M. Gislason, **J.M. Hood**, A.D. Huryn, P.M. Johnson, J.R. Welter. Warming alters coupled carbon and nutrient cycles in experimental streams. *Global Change Biology* 22: 2152-2164.
- Demars, B.O.L., G.M. Gislason, J.S. Ólafsson, J.R. Manson, N. Friberg, **J.M. Hood**, J.J.D. Thompson, T.E. Freitag. Impact of warming on CO₂ emissions from streams countered by aquatic photosynthesis. *Nature Geoscience* 9: 758-761.
- 2015 Sterner, R.W., **J.M. Hood**, M.R. Kearney, D. Raubenheimer, J. Urabe. Couples that have chemistry: When ecological theories collide. *Oikos* 124: 917-919.
- Welter, J., J.P. Benstead, W.F. Cross, **J.M. Hood**, A.D. Huryn, P.M. Johnson, T. Williamson. Does N₂ fixation amplify the temperature dependence of ecosystem metabolism? *Ecology* 96(3): 603-610.
- Cross, W.F., **J.M. Hood**, J.P. Benstead, A.D. Huryn, D. Nelson. Interactions between temperature and ecological stoichiometry at physiological to ecosystem scales. *Global Change Biology* 21: 1025-1040. DOI:10.1111/gcb.12809
- 2014 **Hood J.M.**, C. McNeely, J.C. Finlay, R.W. Sterner. Selective feeding determines patterns of nutrient release by stream invertebrates. *Freshwater Science* 33(4): 1093-1107. DOI:10.1086/678693. **Featured article in issue.*
- Benstead, J.P., **J.M. Hood**, N.V. Whelan, M.R. Kendrick, D. Nelson, A.F. Hanninen, L.M. Demi. Coupling of dietary phosphorus and growth across diverse fish taxa: a meta-analysis of experimental aquaculture studies. *Ecology* 95: 2786-2777. DOI:10.1890/13-1859.1
- O'Gorman, O., J.P. Benstead, W.F. Cross, N. Friberg, **J.M. Hood**, P.M. Johnson, B. Sigurðsson, G. Woodward. Climate change and geothermal ecosystems: natural laboratories, sentinel systems, and future refugia. *Global Change Biology* 20: 3291-3299.
- Hood J.M.**, R.W. Sterner. Carbon and phosphorus linkages in *Daphnia* growth are determined by growth rate, not species or diet. *Functional Ecology* 28 (5): 1156-1165.
- 2012 O'Gorman, D.E. Pichler, G. Adams, J.P. Benstead, H. Cohen, N. Craig, W. Cross, B.O. Demars, N. Friberg, G. Gislason, R. Gudmundsdóttir, A. Hawczak, **J.M. Hood**, L.N. Hudson, L.S. Johansson, M.P. Johansson, J.R. Junker, A. Laurila, J.R. Manson, E. Mavromati, D. Nelson, J. Ólafsson, D.M. Perkins, O.L. Petchey, M. Plebani, D.C. Reuman, B.C. Rall, R. Stewart, M.S.A. Thompson, G. Woodward. Impacts of warming on the structure and function of aquatic communities: individual-to ecosystem-level responses. *Advances in*

Ecological Research 47: 81-176.

- 2011 Sterner, R.W., G.E. Small, and **J.M. Hood**. The conservation of mass. *Nature Education Knowledge* 2(1): 11.
Finlay, J.C., **J. Hood**, M. Limm, M.E. Power, J. Schade, J.R. Welter. Light mediated thresholds in stream-water nutrient stoichiometry in a river network. *Ecology* 92(1): 140-150.
- 2010 Schade, J.D., K. MacNeill, S.A. Thomas, F.C. McNeely, J.R. Welter, **J. Hood**, M. Goodrich, M.E. Power, J.C. Finlay. The stoichiometry of nitrogen and phosphorus spiraling in heterotrophic and autotrophic streams. *Freshwater Biology* 56(3): 424-436.
- Hood, J.M.** and R.W. Sterner. Diet mixing: Do animals integrate growth or resources across temporal heterogeneity? *The American Naturalist* 176(5): 651- 663. **Thomas M. Frost Award for Excellence in Graduate Research (Awarded by Aquatic Ecology section of the Ecological Society of America)*
- Persson†, J., P. Fink†, A. Goto†, **J.M. Hood†**, J. Jonas†, S. Kato†. To be or not to be what you eat: regulation of stoichiometric homeostasis among autotrophs and heterotrophs. *Oikos* 119: 741-751. **Authors contributed equally.*
- 2008 Sterner, R.W., T. Andersen, J.J. Elser, D.O. Hessen, **J.M. Hood**, E. McCauley, J. Urabe. Scale-dependent carbon:nitrogen:phosphorus seston stoichiometry in marine and freshwaters. *Limnology and Oceanography* 53(3): 1169-1180.
- McIntyre P.B., A.S. Flecker, M.J. Vanni, **J.M. Hood**, B.W. Taylor, S.A. Thomas. Fish distributions and nutrient recycling in a Neotropical stream: can fish create biogeochemical hotspots. *Ecology* 89(8): 2335-2346
- 2006 **Hood J.M.**, S. Brovold, R.W. Sterner, M. Villar-Argaiz, K.D. Zimmer. Near-infrared spectrometry (NIRS) for the analysis of seston carbon, nitrogen, and phosphorus from diverse sources. *Limnology and Oceanography: Methods* 4: 96-104.
- 2005 **Hood, J.M.**, M.J. Vanni, A.S. Flecker. Nutrient recycling by two phosphorus rich grazing catfish: the potential for phosphorus-limitation of fish growth. *Oecologia* 146(2): 247-257.
- 2003 Elser J.J., K. Acharya, M. Kyle, J. Cotner, W. Makino, T. Markow, T. Watts, S. Hobbie, W. Fagan, J. Schade, **J. Hood**, R.W. Sterner. Growth rate – stoichiometry couplings in diverse biota. *Ecology Letters* 6: 936-943.
- 2002 Vanni M.J., A.S. Flecker, **J.M. Hood**, J.L. Headworth. Stoichiometry of nutrient recycling by vertebrates in a tropical stream: linking species identity and ecosystem processes. *Ecology Letters* 5(2): 285.
- Flecker A.S., B.W. Taylor, E.S. Bernhardt, **J.M. Hood**, W.K. Cornwell, S.R. Cassatt, M.J. Vanni. Interactions between herbivorous fishes and limiting nutrients in a tropical stream ecosystem. *Ecology* 83(7): 1831-1844.
- 1998 Frost T.M., J.P. Descy, B.T. DeStasio, G. Gerrish, J.M. Hood, J.P. Hurley and A. L. St. Amand. Evaluations of phytoplankton communities using varied techniques: A multi-media comparison of lakes in northern Wisconsin USA. *Verh. Internat. Verein. Limnol.* 27: 1023-1030.

REVIEW/REVISION

- †Bailey, J. and **J. M. Hood**. Biotic and thermal drivers alter zooplankton phenology in western Lake Erie. *In review at Limnology and Oceanography Letters.*
- Budnik, R. R., K. T. Frank, L. M. Collis, M. E. Fraker, L. A. Mason, A. M. Muir, S. Pothoven, S. E. Scofield, D. F. Clapp, P. D. Collingsworth, J. C. Hoffman, **J.M. Hood**, T. B. Johnson, M. A. Koops, L. G. Rudstam, S. A. Ludsin. Feasibility of implementing an integrated long-term database to advance ecosystem-based management in the Laurentian Great Lakes basin. *In review at The Journal of Great Lakes Research.*
- Field, H.R., A.H. Sawyer, S.A. Welch, R.K. Benefiel, D.M. Mathie*, **J.M. Hood**, E.D. Pawlowski, D.L. Karwan, R.M. Kreiling, Z.I. Johnson, B.R. Hanrahan, K.W. King. Importance of dense aquatic vegetation in seasonal phosphate

and particle transport in an agricultural headwater stream. *In review at Water Resources Research*.

Junker, J.R., W.F. Cross, **J.M. Hood**, J.P. Benstead, A.D. Huryn, D. Nelson, J.S. Ólafsson, G.M. Gíslason.

Environmental warming increases the absolute and relative importance of high-turnover energy channels in stream food webs. *In review at Ecology*.

Siqueira, T., C. Hawkins, J. Olden, J. Tonkin, L. Comte, V. Saito, T. Anderson, N. Bonada, C. Bonecker, M. Cañedo-Argüelles, T. Datry, M. Flinn, P. Fortuño, G. Gerrish, P. Haase, M. Hill, **J.M. Hood**, K. Huttunen, M. Jeffries, T. Muotka, D. O'Donnell, R. Paavola, P. Paril, M. Paterson, C. Patrick, G. Perbiche, L. Rodrigues, S. Schneider, M. Straka, A. Ruhi. The propagation of stability across spatial scales, organizational, and trophic levels in freshwater ecosystems. *In review at Ecology*. (<https://ecoevorxiv.org/mpf5x>)

IN PREP (COMPLETE DRAFT AVAILABLE)

*Collis, L.M., J.P. Benstead, W.F. Cross, A.D. Huryn, J.R. Welter, P.C. Furey, P.W. Johnson, G. M. Gíslason, J.S. Ólafsson, **J.M. Hood**. Nitrogen fixation mediates response of stream ecosystem metabolism to temperature and nutrients. *In prep for Ecological Monographs*

†Geresy, M., B. Cadena†, T. Zarick†, and **J.M. Hood**†. Novel enrichment device reduces oral abnormal repetitive behavior of giraffe in human-care. *In prep for Zoo Biology*. †Authors contributed equally.

Harms, T., **J. Hood**, I. Creed, M. Scheuerell, J.L. Campbell, I. Fernandez, S. Higgins, S. Johnson, S. Nelson, J. Shanley, S. Sebestyen, K. Webster, H. Yao. Decomposing temporal variation in chemistry of headwater catchments from local to continental scales. *In prep for Ecology*.

†Peters, D., L. M. *†Collis, M. Shaw, Z. Slagle, H. Vanderploeg, **J. M. Hood**. Mesozooplankton grazing patterns and preferences during a cyanobacteria harmful algal bloom in western Lake Erie. *In prep for Inland waters*. †co-first authors.

Kreiling, R. M., L. A. Bartsch, P. M. Perner, K. J. Breckner, J. N. Williamson, J. M. Hood, N. F. Manning, L. J. Johnson. Controls on in-stream nitrogen loss in western Lake Erie tributaries. *In prep for Journal of Great Lakes Research*.

Benesh, K., A. Banerji, S. Ludsins, D. Bolgrien, T. Jicha, K. Bowen, K. Busch, P. Collingsworth, A. Cotter, A. Opseth, W. Currie, J. Hood, L. Rudstam, J. Watkins, J. Hoffman. Stable isotopes reveal an imprint of harmful algal blooms on Lake Erie: Implications for future study of food webs. *In prep for Aquatic Ecosystem Health and Management (AEHM)*.

OTHER PRODUCTS

Hood, J.M. (2022) Quality Assurance Project Plan: Enumeration of Lake Erie plankton from 2015 – 2023.

Hanrahan, B., J.M. Hood, W. Osterholz, T. Williamson. (2022) Phosphorus: The science and solutions. (Infographic developed for agricultural producers describing P transport from fields to rivers to lakes and how that is influenced by legacy phosphorus; authors are listed alphabetically).

GRANTS

(SINCE APPOINTMENT AT OSU: \$3,020,870 TO MY LAB GROUP; \$10,564,727 TOTAL AS PI OR CO-PI)

CURRENT FUNDING

2022-2024 Ohio Department of Higher Education Harmful Algal Bloom Research Initiative: "Evaluating the effect of colloidal-phosphorus on phosphorus exports, bioavailability, and transformations from the edge-of-field to Lake Erie". (\$899,998) PI

- 2023-2026 Great Lakes Fisheries Commission. "Moving toward ecosystem-based fisheries management: Conceptualizing Lake Erie's dynamic ecosystem". (\$345,546) PI
- 2022-2025 U.S. Environmental Protection Agency Great Lakes Restoration Initiative (GLRI) through Ohio Environmental Protection Agency Division of Surface Water. "Enumeration of Lake Erie Plankton Abundance samples from 2015 to 2025". (\$405,000) PI
- 2021-2026 U.S. Department of Agriculture, Natural Resources Conservation Service, Regional Conservation Partnership Program (RCPP): "Pilot Watershed Project". (\$384,875 to Hood) Co-PI
- 2021-2023 Ohio Department of Higher Education Harmful Algal Bloom Research Initiative: "Quantifying the role of sediment in P exports from drainage networks: sources, recency, and DRP interactions". (\$338,805) PI
- 2021-2023 Ohio Department of Natural Resources-Division of Wildlife, Federal Aid in Sport Fish Restoration Project. Linking watershed characteristics, reservoir age, and habitat quality to fish performance in Ohio reservoirs (\$96,662) PI
- 2017-present Ohio Department of Natural Resources-Division of Wildlife, Federal Aid in Sport Fish Restoration Project. "Lower trophic level impacts on fish recruitment". (Annual monitoring: \$199,061 in FY2023, \$924,522 total since 2016). PI since 2017.

PAST FUNDING: AT OSU

- 2020-2022 Ohio Department of Higher Education Harmful Algal Bloom Research Initiative: "Evaluating the impact of rivers on phosphorus delivery to western Lake Erie". (\$344,666) PI
- 2019-2022 Ohio Sea Grant College Program: "Characterization of in-stream phosphorus cycling from high-frequency dissolved phosphorus time series". (\$119,886) PI
- 2021-2022 U.S. Environmental Protection Agency Great Lakes Restoration Initiative (GLRI) through Ohio Environmental Protection Agency Division of Surface Water. "Enumeration of Lake Erie Plankton Abundance samples from 2015 to 2021". (\$89,356) PI
- 2020-2021 Ohio Water Resources Center: "What role does nutrient cycling by zooplankton play in supporting HAB production in western Lake Erie?". (\$34,902) PI
- 2019-2021 Ohio Sea Grant College Program: "Does the Maumee River system mitigate phosphorus loading to Lake Erie? A Lagrangian analysis of phosphorus cycling during high flow events". (\$9,990) PI
- 2019-2021 Great Lakes Fisheries Commission: "Moving toward ecosystem-based fisheries management: developing an integrated ecosystem assessment of Lake Erie as a case study". (\$136,581) Co-PI
- 2019-2020 Cooperative Institute of Great Lakes Research (CIGLR): "Evaluating role of zooplankton in internal nutrient cycling dynamics in western Lake Erie". (\$25,000) PI
- 2019-2020 Lake Erie Protection Fund: "Cyanoblooms impacts on Lake Erie food webs and fisheries". (\$50,000) Co-PI
- 2017 Lake Erie Protection Fund: "Time-series analysis of Lake Erie phytoplankton dynamics". (\$50,000) PI
- 2017 Translational Data Analytics SEED Grant: "Quantifying the impacts of rivers on phosphorus exports to Lake Erie". (\$29,830) PI
- 2017-2018 Ohio Department of Natural Resources-Division of Wildlife, Federal Aid in Sport Fish Restoration Project. "Is food quality limiting walleye recruitment in Lake Erie". (\$163,254) Co-PI

PAST FUNDING: PRIOR TO APPOINTMENT AT OSU

- 2014-2017 NSF: "Interactive effects of temperature and nutrient supply on the structure and function of stream

ecosystems” (\$1.45 million). *co-wrote and was senior personal.

- 2015-2017 RANNÍS Postdoctoral Fellowship: “Influence of global warming on nutrient limitation and cycling in streams: Scaling patterns through time and across levels of organization” (\$175,000). PI *RANNÍS is the Icelandic Science Foundation.
- 2013 Idaho State University “Influence of a non-native tree (*Elaeagnus angustifolia*) on the role of carp in stream nutrient cycles” (\$5,400).
- 2015 Woodstoich III – salary to help co-organize symposium (www.woodstoich.org)
- 2011 Supplemental Funding for REU, Principal Collaborator
- 2009 Woodstoich II Fellowship – travel to Sendai, Japan to prepare Persson et al. 2010
- 2008 Travel Grant (Dept. of Ecology, Evolution, and Behavior; U. of MN)
- 2008 Dayton-Wilkie Natural History Funds (~\$850) PI
- 2008 University of Minnesota Thesis Research Grant (\$2,500) PI
- 2008 Art Shanty Project (\$800, www.artshanties.com) PI
- 2008 BESTNET Fellowship – funds to attend DIVERSITAS meeting in Seattle, WA
- 2007-2010 EPA STAR Fellowship. (\$111,000) PI
- 2005 Dayton-Wilkie Natural History Funds (~\$500) PI
- 2004 Dayton-Wilkie Natural History Funds (~\$500) PI

AWARDS

- 2011 Thomas M. Frost Award for Excellence in Graduate Research (awarded by the Aquatic Ecology section of the Ecological Society of America for Hood and Sterner 2010)
- 2004 American Society of Limnology and Oceanography Student Poster Award

RESEARCH MENTORING

CURRENT GRADUATE STUDENTS

- Lyndsie Collis (Ph.D. expected 2023)
- Joe Gentine (M.S. expected 2023)
- Hannah Moore (Ph.D. expected 2024)
- Devan Mathie (Ph.D. expected 2025)
- Morgan Shaw (M.S. expected 2023)

POSTDOCTORAL RESEARCHERS

- Dr. Ashlynn Boedecker. 2023 – present.
- Dr. Danny O’Donnell. 2019 – 2020. Current position: Postdoctoral Associate U.C. Davis
- Dr. Andrea Conine. 2018. Current position: New York Department of Environmental Conservation, Division of Water, Albany, New York.

COMPLETED GRADUATE STUDENTS

Whitney King (M.S. 2020). Instream processes alter the bioavailability of P exports from agricultural watersheds during high flow events. (2020 EPA ORIS Fellow; Current position: U.S. EPA)

Lyndsie Collis (M.S., 2018). Does nutrient availability mediate the temperature dependence of gross primary production?: An evaluation using stream-side experimental channels. (Ph.D. Student, EEOB, The Ohio State University).

Amara Huddleston (M.S., 2018; co-advised with Dr. Libby Marschall). The influence of ice cover on the coupling between Lake Erie larval Walleye and their prey. (2019 Sea Grant Knauss Legislative Fellow; Current: Education Strategic Planning Specialist, Office of Education, NOAA).

UNDERGRADUATE STUDENT RESEARCH MENTORING (*POSTER, †THESIS):

Ohio State University: Betsy Durant (2017), Heath Goertzen† (2019), Bailey Cadena* (2020), Mallory Geresy* (2020), Yingfan Zeng* (2020), Dan Peters†* (2022), Jenna Bailey†* (2022),

Montana State University: Adam Toomey (2011) and Brooke Weigel* (2011), Ryan McClure* (2012)

University of Minnesota: Brian Gallagher (2008), Bill Siemers (2008), Tyler Moent† (2007), Lindsay Hess* (2005), Sharolyn Kawakami* (2005), Mark Lubke* (2005), Grant Peterson* (2005), Ryan Peterson* (2005), Kyle Shull* (2004)

SCIENCE FAIR MENTORING:

Chief Joseph Middle School (Bozeman, MT): Michelle Darvis (2013)

GRADUATE STUDENT COMMITTEE MEMBER:

Current: Haley Kujawa (OSU, FABE), Jordon Stoll (Kent State University)

Past: Zoe Almeida (OSU, EEOB), Becca Dillon (OSU, EEOB), David Dippold (OSU, EEOB), James Feller (OSU, EEOB), Hannah Field (OSU, Earth Sciences), Haley Kujawa (OSU, ESG) Jim Junker (Montana State University), Shannon Pace (OSU, SENR), Rachael Paul (Bowling Green State University), Allison Stanton (OSU, EEOB)

TEACHING EXPERIENCE

INSTRUCTOR OF RECORD:

Climate Change: mechanisms, impacts, and mitigation (Autumn 2020-present), Ohio State University

Conservation Biology (Spring 2016- present), Ohio State University

Harnessing the big data revolution in aquatic ecology (Spring 2021), Ohio State University

Plankton Ecology (Summer Term I 2019), Ohio State University

Plankton Ecology in Anthropocene (Spring 2018), Ohio State University

Freshwater Ecology (Fall 2012), Montana State University, co-taught class.

GUEST LECTURER:

Ecology (2016 – 2021), Ohio State University

Biogeochemistry (Spring 2013 – 2015), Montana State University
Stream Ecology (Fall 2004), University of Minnesota – Twin Cities
Limnology (Fall 1999), Miami University

GUEST LABORATORY INSTRUCTOR:

Limnology (Fall 2011), University of Iceland (Reykjavik, Iceland)
Biology (Fall 2009), Mounds Park Academy (private high school, Saint Paul, MN)
Biogeochemistry (Fall 2009), Saint Olaf College (Northfield, MN)

TEACHING ASSISTANT:

University of Minnesota: Limnology (Fall 2003), Modeling Plankton Dynamics, (Spring & Fall 2004-2005), Ecology (Fall 2005).
Miami University: Biology (Fall 1997), Limnology (Fall 1999)

COMMUNITY, UNIVERSITY, AND PROFESSIONAL SERVICE

ADVISORY PANELS AND OTHER PROFESSIONAL SERVICE:

H2Ohio Wetland Monitoring Statistical Modeling Advisory Board (2021-present)
Ohio EPA Lake Erie Aquatic Life Use Impairment Advisory Group (2020-present, phytoplankton and zooplankton groups)
Ohio EPA Maumee River TMDL Advisory Group (2021-present)
Science and Solutions in Conservation 2018 (ongoing)
Journal of Great Lakes Research Student Paper award judge (2021)
H2Ohio Wetland Monitoring Technical Review Panel (2020-2021)
Content expert for OH Sea Grant/NOAA HABS forecast at Stone Lab (2017–2019)
Lead organizer of Institute on Ecosystems Postdoctoral Association (Montana State University)
Postdoctoral coordinator for Woodstoich III (August 2013 – August 2014), an international conference on ecological stoichiometry for early career scientists (August 2014, near Sydney, Australia)

PEER REVIEW:

Peer Review for: The American Naturalist; Biogeochemistry; Chemosphere; Ecology; Ecology and Evolution; Ecology Letters; Ecosphere; Ecosystems; Ecotoxicology and Environmental Safety; Freshwater Biology; Freshwater Science; Functional Ecology; Hydrobiologia; Journal of Applied Ecology; Journal of Great Lakes Research; Journal of the North American Benthological Society; Journal of Plankton Research; Limnology and Oceanography; Limnology and Oceanography Letters; Nature Scientific Reports; North American Journal of Fisheries Management; Oecologia; Oikos; Scientific Reports

Panelist for National Science Foundation, Division of Environmental Biology, Ecosystem Ecology as well as Population and Community Ecology panels.

Ad hoc grant proposal reviewer: German Centre for Integrative Biodiversity Research (iDiv), Great Lakes Fisheries Commission, National Science Foundation, Division of Environmental Biology, Ecosystem Ecology Panel; and

Ohio Water Resources Center, Indiana Water Resources Center.

OUTREACH:

Volunteer Museum of Biological Diversity Open House (2016 – 2020, 2022)

Indianola Elementary school 6th grader visit to AEL (2016, 2017, 2018, 2022)

Science Shanty Project (community outreach): Part of Art Shanty Project (Minneapolis, MN; www.artshanties.com), introduced visitors to aquatic organisms, ecology, and aquatic environmental issues. Participant in 2006 and 2008, organizer in 2007 (recipient of \$800 grant from Art Shanty Project).

UNIVERSITY, COLLEGE, AND DEPARTMENTAL SERVICE:

EEOB Aquatic population/community ecologist Faculty Search Committee (chair: 2022)

EEOB Awards Committee (member: 2021–present)

EEOB Advisory Committee (member 2021–2022)

EEOB Graduate Admissions Committee (member: 2016-2017, 2019 – 2021)

EEOB Graduate Curriculum Committee (member: 2019 – 2020)

EEOB COVID Reopening Committee (member: 2020)

EEOB Seminar Committee (co-chair: 2017 – 2018, chair: 2018 – 2019, member: 2021)

EEOB Chair Search Committee (member: 2016-2017)

Prospective Graduate Student Welcome Week Coordinator, Department of Ecology, Evolution, and Behavior; University of Minnesota – Twin Cities (2006).

PROFESSIONAL SOCIETY MEMBERSHIPS

Ecological Society of America (ESA), Society for Freshwater Science (SFS), Association for the Sciences of Limnology and Oceanography (ASLO), International Association for Great Lakes Research (IAGLR)

SEMINARS

INVITED:

2022 Ohio Soy Council Board (Columbus, OH): “What happens to phosphorus between the edge of field and Lake Erie?”

Ohio Corn and Wheat (Delaware, OH): “What happens to phosphorus between the edge of field and Lake Erie?”

Conservation Tillage & Technology Conference (Ada, OH): “How phosphorus cycling in ditches streams, and rivers may impact Lake Erie”

Western Lake Erie Partnership (Virtual): “What happens to phosphorus between the edge of field and Lake Erie?”

Ohio Sea Grant Stone Laboratory Science Journalist Workshop (Virtual): “What happens to phosphorus between the edge of field and Lake Erie?”

2021 The Stream Factory (Columbus, OH): “Climate change and ecosystem stress”

Weekly meeting of the directors of the Ohio ,: “Evaluating the impact of rivers on phosphorus delivery to western

Lake Erie.”

NOAA’s 2021 Lake Erie Harmful Algal Bloom forecast (virtual): “River phosphorus cycling during high flow constrains Lake Erie cyanobacteria blooms.”

TDAI Seminar series (OSU, virtual): “Do river phosphorus cycles constrain Lake Erie cyanobacteria blooms?”

2020 HABS: State of Science (virtual): “Role of in-stream processes in shaping P exports to Lake Erie during low and high flows”

Science and Solutions in Conservation (virtual): “Role of in-stream processes in shaping P exports to Lake Erie during low and high flows”

Bowling Green University (Bowling Green, OH). *Canceled due to COVID19 pandemic*

2018 Kent State University (Kent, OH): “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

2017 Indiana University (Bloomington, IN): “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

U. of Cincinnati (Cincinnati, OH): “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

OSU Helix Tri-Beta Honors Society: “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

Trent University (Peterborough, ON): “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

Great Lakes Fisheries Commission (Ann Arbor, MI): “Why do larval fish grow faster inside versus outside river plumes?”

2016 OSU MoBILise (Columbus, OH): “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

Ohio Sea Grant, Stone Laboratory: “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

Miami University (Oxford, OH): “Towards understanding stream ecosystem responses to warming using a natural geothermal laboratory”

American Society of Limnology and Oceanography, Special Session: “Influence of temperature on the coupling of ecosystem metabolism and nutrient uptake”

2015 University of Illinois at Urbana-Champaign (Champaign, IL): “Influence of temperature and nutrient supply on aquatic systems: scaling from individuals to ecosystems”

The Ohio State University (Columbus, OH): “Influence of temperature and nutrient supply on aquatic systems: scaling from individuals to ecosystems”

2014 Utah State University (Logan, UT): “Influence of temperature and nutrient supply on aquatic systems: scaling from individuals to ecosystems”

Veiðimálastofnun (Institute of Freshwater Fisheries, Reykjavik, Iceland): “A Bayesian approach for estimating whole-stream metabolism”

Charles Darwin University (Darwin, Australia): “Influence of temperature and nutrient supply on aquatic systems: scaling from individuals to ecosystems”

University of Alabama (Tuscaloosa, AL): “Influence of temperature and nutrient supply on aquatic systems: scaling from individuals to ecosystems”

- 2012 Gordon Research Seminar, Metabolic Basis of Ecology: “Influence of temperature on whole-stream nitrogen uptake rates: A unique natural experiment”
- 2010 Veiðimálastofnun (Institute of Freshwater Fisheries, Reykjavik, Iceland): “Consumer stoichiometry: spatial patterns, degree of homeostasis, and links with competitive ability”
Montana State University (Bozeman, MT): “Consumer stoichiometry: spatial patterns, degree of homeostasis, and links with competitive ability”
- 2009 Saint Olaf College (Northfield, MN): “Controls of consumer C:N:P in complex and dynamic ecosystems”
- 2000 Wright State University (Dayton, OH): “The role of nutrient regeneration by fish in a Neotropical stream”

CONTRIBUTED PRESENTATIONS:

(†UNDERGRADUATE AUTHOR; *GRADSTUDENT AUTHOR; ^POSTDOC AUTHOR)

- 2022 Ludsin, S.A., P. Collingsworth, W.J.S. Currie, J.C. Hoffman, J.M. Watkins, D. Bolgrien, K. Bowen, A. Cotter, **J.M. Hood**, M. Manubolu, L.G. Rudstam. An integrated approach to understand harmful algal bloom and hypoxia impacts on Lake Erie’s food webs. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Mathie*, D.M., **J.M. Hood**, H. Moore*. Phosphorus cycling during high flow events in the Maumee River watershed: A lagrangian Analysis. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Fox, R.M., **J.M. Hood**, K.E. McCluney. Nutrients and macroinvertebrates in agricultural ditches with different geomorphology. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Hood, J.M.**, A. Huddleston*, L.M. Collis*, E.A. Marschall. Winter ice cover combines with other seasonal phenomenon to influence Lake Erie zooplankton dynamics. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Bailey†, J., D.R. O’Donnell^, **J.M. Hood**. Changes in zooplankton phenology in western Lake Erie, 1995-2020. Joint Aquatic Sciences Meeting. May 2022 (Poster presentation)
- Fraker, M., J. Sinclair, K. Frank, **J.M. Hood**, S.A. Ludsin. Temporal scope influences ecosystem driver-response relationships in Lake Erie. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Peterst†, D.I., L.M. Collis*, M.D. Shaw, Z. Slagle, H.A. Vanderploeg, **J.M. Hood**. Zooplankton grazing on picoplankton and nanoplankton during harmful algal blooms. Joint Aquatic Sciences Meeting. May 2022 (Poster presentation)
- O’Donnell^, D.R., R. Briland, R.R. Budnick, S.A. Ludsin, **J.M. Hood**. Lake Erie phytoplankton and zooplankton biomass and community structure during 1995-2020. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Collis*, L.M., D I. Peterst†, M.D. Shaw, Z. Slagle, H.A. Vanderploeg, **J.M. Hood**. Meso- and microzooplankton grazing during harmful algal blooms in western Lake Erie. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Bowen, K., W.J.S. Currie, J.M. Watkins, L.G. Rudstam, S.A. Ludsin, **J.M. Hood**. Summer zooplankton spatial distribution in Lake Erie relative to HABs, hypoxia and trophic gradient. Joint Aquatic Sciences Meeting. May 2022 (Virtual oral presentation)
- Budnik, R. R., K.M. Busch, C. Harris, K. Bowen, P. Collingsworth, A. Cotter, W. J.S. Currie, R. Dillon, J.C. Hoffman, **J.M. Hood**, T. Jicha, M. Kulasa, M. Manubolu, M. Piczak, L.G. Rudstam, J.M. Watkins, S.A. Ludsin.

- Cyanobacteria bloom effects on fish diet and habitat use in western Lake Erie. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Sinclair, J., M. Fraker, **J.M. Hood**, E.D. Reavie, S.A. Ludsin. Will water quality management reduce fisheries production? A case study with Lake Erie. Joint Aquatic Sciences Meeting. May 2022 (Virtual oral presentation)
- Moore*, H. M., J. Conroy, **J.M. Hood**. Watershed factors and age determine reservoir habitat and impairment for sport fish. Joint Aquatic Sciences Meeting. May 2022 (Oral presentation)
- Bailey†, J., D. O'Donnell†, **J.M. Hood**. Changes in zooplankton phenology in Western Lake Erie, 1995-2020. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Benesh, K., A. Banerji, S. Ludsin, D. Bolgrien, K. Bowen, K. Busch, P. Collingsworth, A. Cotter, W. Currie, **J. Hood**, L. Rudstam, J. Watkins, J. Hoffman. Preliminary findings from the Lake Erie CSMI regarding stable isotope-based measures of food web changes associated with harmful algal blooms. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Bowen, K., W. Currie, S. Ludsin, J. Watkins, L. Rudstam, **J. M. Hood**. Western Lake Erie harmful algal blooms and zooplankton spatial distribution during CSMI 2019. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Budnik, R. K. Busch, C. Harris, M. Kulasa, M. Piczak, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, **J. Hood**, M. Manubolu, L. Rudstam, S. Ludsin. Cyanobacteria bloom effects on the feeding ecology of western Lake Erie's fish assemblage. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Collis, L., D. Peters*, M. Shaw, Z. Slagle, H.A. Vanderploeg, **J.M. Hood**. Grazing by meso- and microzooplankton during harmful algal blooms in western Lake Erie. State of Lake Erie Conference, Cleveland, OH. March 2022 (Poster presentation)
- Figary, S., R. Barbiero, **J.M. Hood**, D. Kane, S. Ludsin, L. Rudstam, J. Watkins, C. Winslow. Using zooplankton to track ecosystem condition in Lake Erie. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Fite†, K., M. Manubolu, R. Budnik, K. Busch, C. Harris, M. Kulasa, D. Bolgrien, K. Bowen, P. Collingsworth, A. Cotter, W. Currie, J. Hoffman, **J.M. Hood**, T. Jicha, M. Fitzpatrick, M. Munawar, H. Niblock, L., Rudstam, J. Watkins, S. Ludsin. Understanding microcystin accumulation in Lake Erie's food web. State of Lake Erie Conference, Cleveland, OH. March 2022 (Poster presentation)
- Harrist†, C., R. Budnik, K. Busch, M. Kulasa, D. Bolgrien, K. Bowen, P. Collingsworth, A. Cotter, W. Currie, J. Hoffman, **J. M. Hood**, M. Manubolu, L. Rudstam, J. Watkins, S. Ludsin. Effects of harmful algal blooms on foraging habits of western Lake Erie walleye. State of Lake Erie Conference, Cleveland, OH. March 2022 (Poster presentation)
- Hood, J.M.**, A. Huddleston*, L. Collis*, E. Marschall. Western Lake Erie zooplankton dynamics are shaped by winter ice cover and summer cyanobacteria blooms. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Ludsin, S. P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, **J. M. Hood**, M. Manubolu, L. Rudstam. Overview of the 2019 CSMI program designed to understand harmful algal bloom and hypoxia impacts on Lake Erie's webs. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Mathie*, D., H. Moore*, **J.M. Hood**. Phosphorus cycling during high flow events in the Maumee River watershed: A Lagrangian analysis. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)

- Moore*, H, **J.M. Hood**. Influence of temperature and nutrients on primary production and phytoplankton biomass in western Lake Erie. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- Peterst†, D., L. Collis*, M. Shaw, Z. Slagle, H. Vanderploeg, **J.M. Hood**. Zooplankton grazing on picoplankton and nanoplankton during harmful algal blooms. State of Lake Erie Conference, Cleveland, OH. March 2022 (Poster presentation)
- Piczak, M., K. Busch, R. Dillon, R. Budnik, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, **J.M. Hood**, M. Manubolu, L. Rudstam. Harmful algal bloom effects on fish habitat use and community structure within Lake Erie. State of Lake Erie Conference, Cleveland, OH. March 2022 (Oral presentation)
- 2021 **Hood, J.M.**, A. Huddleston*, E. Marschall, and L.M. Collis*. Western Lake Erie zooplankton dynamics are shaped by winter ice cover and summer cyanobacteria blooms. Lake Erie – Inland Waters Annual Research Review, Columbus, OH. December 9, 2021 (Oral presentation).
- Bailey, J. †, D. O'Donnell^, **J.M. Hood**. Changes in zooplankton phenology in Western Lake Erie, 1995-2020. Lake Erie – Inland Waters Annual Research Review, Columbus, OH. December 9, 2021. (Poster presentation).
- Moore, H.* , J. Conroy, **J.M. Hood**. Classifying Ohio reservoirs to understand habitat impairment. Lake Erie – Inland Waters Annual Research Review, Columbus, OH. December 9, 2021. (Poster presentation).
- Benefield†, R., H. Field, D. Mathie*, E. Pawlowski, R. Gabor, S. Welch, **J.M. Hood**, D. Karwan, W. Lyons, A. Sawyer. "Batch experiments to understand phosphorus and fine particle tracer interactions. Geological Society of America (October 2021; poster).
- Mehan^, S., M. Kalcic, **J.M Hood**. Improving and testing in-stream phosphorus cycling in SWAT+. American Geophysical Union (December 2021; poster)
- 2020 Sinclair, J., **J.M. Hood**, S. Ludsin, M. Fraker, K. Frank. Functional traits reveal the predominant anthropogenic drivers of long-term change across a large lake ecosystem. 2020 Lake Erie – Inland Waters Annual Research Review. (Virtual)
- Fraker, M. J. Sinclair, **J.M. Hood**, S. Ludsin, K. Frank. Contrasting states of the Lake Erie ecosystem and implications for ecosystem-based management. 2020 Lake Erie – Inland Waters Annual Research Review. (Virtual)
- O'Donnell^, D., H. Moore*, **J.M. Hood**. 20+ years of Lake Erie plankton dynamics: patterns and drivers. 2020 Lake Erie – Inland Waters Annual Research Review. (Virtual)
- Budnik, R.R., C.J. May, S.A. Ludsin, D.R. O'Donnell^, **J.M. Hood**, E.F. Roseman, E.A. Marschall. Prey quality and quantity during the larval period regulates recruitment of Lake Erie Walleye. (Virtual)
- King*, W, S.E. Curless, L.T. Johnson, **J.M. Hood**. Instream processes alter the bioavailability of phosphorus exports from agricultural watersheds during high flow events. American Geophysical Union (Virtual).
- Mehan^, S., M. Kalcic, **J.M Hood**. Review of water quality models simulating in-stream nutrient dynamics. American Geophysical Union (Virtual).
- Miralha*, L., R. Errera, **J.M. Hood**. Environmental thresholds for phytoplankton group dynamics in the Western Lake Erie. American Geophysical Union (Virtual).
- Johnson, G, Y. Zeng†, S.E. Curless, H. Moore*, J.D. Conroy, **J.M. Hood**. Spatial and temporal dynamics of hypoxia in a eutrophic reservoir implications for fish distributions. America Fisheries Society (Virtual).
- *Collis, L, **J.M. Hood**. Long-term trends and drivers of zooplankton production in a large lake ecosystem. Joint Aquatic Sciences Meeting (Madison, WI). *Canceled due to COVID19 Pandemic.*
- Fraker, M., K. Frank, J.M. Hood, J. Sinclair, S. Ludsin. Ecosystem trends and drivers in Lake Erie during 1969-

2018: similarities and differences among three focal taxa within three time windows. Joint Aquatic Sciences Meeting (Madison, WI). *Canceled due to COVID19 Pandemic.*

†Goertzen, H., L. Collis*, W. Cross, P. Furey, G.M. Gíslason, A. Huryn, P. Johnson, J. Ólafsson, J. Welter, J.M. Hood. Influence of thermal acclimation and nitrogen enrichment on the temperature dependence of stream metabolism. Joint Aquatic Sciences Meeting (Madison, WI). *Canceled due to COVID19 Pandemic.*

*King, W.M., S. Curless, J.M. Hood. Do in-stream processes mediate bio-available phosphorus loading to Lake Erie during storm events? Joint Aquatic Sciences Meeting (Madison, WI). *Canceled due to COVID19 Pandemic.*

Moore, H., D. O'Donnell, J.M. Hood. Regime change in the western basin of Lake Erie: Insights from analysis of the 20-year Lake Erie plankton abundance study (LEPAS). Joint Aquatic Sciences Meeting (Madison, WI). *Canceled due to COVID19 Pandemic.*

^O'Donnell, H. Moore*, **J.M. Hood**. Mechanistic drivers of plankton dynamics in the western basin of Lake Erie from 1995 to 2015. Joint Aquatic Sciences Meeting (Madison, WI). *Canceled due to COVID19 Pandemic.*

2019 ^O'Donnell, H. Moore*, **J.M. Hood**. Mechanistic drivers of plankton dynamics in the western basin of Lake Erie from 1995 to 2015. Lake Erie – Inland Waters Annual Research Review (Columbus, OH). Oral presentation.

*Collis, L., **J.M. Hood**. Long-term trends and drivers of zooplankton productivity in western Lake Erie. Lake Erie – Inland Waters Annual Research Review (Columbus, OH). Poster presentation.

†Zeng, Y., S. Curless, G. Johnson, J. Conroy, **J.M. Hood**. Spatial and temporal dynamics of hypoxia in a eutrophic reservoir: implications for fish distributions. Lake Erie – Inland Waters Annual Research Review (Columbus, OH). Poster presentation.

†Zeng, Y., S. Curless, G.R. Johnson, J.D. Conroy, **J.M. Hood**. Spatial and temporal hypoxia dynamics in a eutrophic reservoir. *Autumn Undergraduate Research Festival* (Columbus, OH). Poster presentation.

*Collis, L.M., J.P. Benstead, W.F. Cross, P.F. Furey, G.M. Gíslason, A.D. Huryn, P.M. Johnson, J.S. Olafsson, D. Sander, J.R. Welter, **J.M. Hood**. Nutrient availability modifies stream ecosystem response to warming. *Byrd Center Symposium on Climate Change* (Columbus, OH). Poster presentation.

*Collis, L.M., J.P. Benstead, W.F. Cross, P.F. Furey, G.M. Gíslason, A.D. Huryn, P.M. Johnson, J.S. Olafsson, D. Sander, J.R. Welter, **J.M. Hood**. Evaluating interactive effects of temperature and nutrients on stream ecosystem structure and function. *OSU Evolution, Ecology and Organismal Biology Seminar Series* (Columbus, OH). Oral presentation.

*King, W. and **JM Hood**. Do riverine processes mitigate dissolved phosphorus loading to Lake Erie? *Byrd Center Climate Symposium* (Columbus, OH). Poster Presentation.

^O'Donnell, **J.M. Hood**. Mechanistic Drivers of phytoplankton dynamics in the western basin of Lake Erie from 1995 to 2015: 20 years of climate, nutrients, and biotic interactions. *Understanding Algal Blooms: State of the Science Conference* (Toledo, OH). Poster presentation.

*Collis, L.M., S. Curless, H.A. Vanderploeg, **J.M. Hood**. Evaluating the role of zooplankton-mediated nutrient cycling in supporting phytoplankton blooms in western Lake Erie. *Understanding Algal Blooms: State of the Science Conference* (Toledo, OH). Poster presentation.

*King, W. and **JM Hood**. Do in-stream processes mediate DRP loading to Lake Erie during storm events? *Understanding Algal Blooms: State of the Science* (Toledo, OH). Poster Presentation.

*Collis, L.M., S. Curless, H.A. Vanderploeg, **J.M. Hood**. Evaluating the role of zooplankton-mediated nutrient cycling in supporting phytoplankton blooms in western Lake Erie. *Cooperative Institute for Great Lakes Research Partners Meeting* (Ann Arbor, MI). Poster presentation.

*Collis, L.M. and **J.M. Hood**. Long-term trends and drivers of zooplankton productivity in western Lake Erie.

International Association for Great Lakes Research Conference (Rochester, NY). Poster presentation.

Hood, J.M., T. Harms, M. Scheuerell, R. Barbiero, E. Buskey, W. Currie, C. Patrick, J. Walsh. Stability of aquatic food chains to press and pulse perturbations. *International Association for Great Lakes Research Conference* (Rochester, NY). Poster presentation.

Fraker, M., K. Frank, **J.M. Hood**, S. Ludsin. Developing an integrated ecosystem assessment of Lake Erie Fisheries. *International Association for Great Lakes Research Conference* (Rochester, NY). Oral presentation.

†Zarick, T., B. †Cadena, M. †Geresy, **J.M. Hood**. Licking behavior of giraffe quantification in response to increased availability of mouth manipulation enrichment. *International Giraffid Conference* (Columbus, OH). Poster presentation.

Henderson, K., W. Cross, J. Benstead, G. Gíslason, **J. Hood**, A. Huryn, P. Johnson, J. Ólafsson, J. Welter. Interactive effects of temperature and nitrogen availability on primary and secondary producers. *Society for Freshwater Science* (Salt Lake City, UT). Oral presentation.

Nelson, D., J. Benstead, W. Cross, A. Huryn, **J. Hood**, P. Johnson, J. Junker, J. Ólafsson. Thermal niche and trophic redundancy combine to drive neutral effects of experimental warming on organic matter flux through a stream food web. *Society for Freshwater Science* (Salt Lake City, UT). Oral presentation.

Cross, W., **J. Hood**, J. Benstead, A. Huryn, K. Henderson, J. Welter, P. Johnson, J. Ólafsson, G. Gíslason. Interactive effects of temperature and nutrient supply on stream ecosystem metabolism. *Society for Freshwater Science* (Salt Lake City, UT). Oral presentation.

Junker, J., W. Cross, J. Benstead, **J.M. Hood**, A. Huryn, G. Gíslason, D. Nelson, J. Ólafsson. Effects of temperature on energy flux through stream food webs. *Society for Freshwater Science* (Salt Lake City, UT). Oral presentation.

Bockwoldt, K., P. Collingsworth, **J.M. Hood**, J. Watkins, L. Rudstam, R. Barbiero, E. Hinchey-Malloy. Long-term comparisons of nearshore and offshore Lake Erie Zooplankton communities. *Association for the Sciences of Limnology and Oceanography*. Oral presentation.

2018 Collis*, L., J.P. Benstead, W. Cross, P. Furey, G.M. Gíslason, A.D. Huryn, P. Johnson, J.S. Olafsson, D. Sander, J. Welter, **J.M. Hood**. Interactive effects of temperature and nutrients on stream biofilm structure and function. Society for Freshwater Science (Detroit, MI).

Furey, P., J. Welter, D. Sander, L. Collis*, J. Benstead, W. Cross, **J. Hood**, A. Huryn, P. Johnson, J. Olafsson, G.M. Gíslason. Temperature-nutrient interactions regulate biofilm species composition in nitrogen-poor systems. Society for Freshwater Science (Detroit, MI).

Henderson*, K. W. Cross, J. Benstead, G.M. Gíslason, **J. Hood**, A.D. Huryn, J.S. Olafsson, J. Welter. Nutrient additions modify effects of temperature on primary producer communities with implications for energy and nutrient flux through food webs. Society for Freshwater Science (Detroit, MI).

Huddleston*, A.L., E.A. Marschall, C. May, S.A. Ludsin, **J.M. Hood**. The influence of winter severity on the coupling between Lake Erie larval walleye and their prey. Society for Freshwater Science (Detroit, MI).

Junker*, J., W. Cross, J. Benstead, **J. Hood**, A. Huryn, G.M. Gíslason, D. Nelson, J.S. Olafsson. Reconciling the temperature dependence of macroinvertebrate production across a natural stream temperature gradient. Society for Freshwater Science (Detroit, MI).

Royer, T.V., L. Sethna*, **J.M. Hood**. Stoichiometry of N, P, and silica loading to the western basin of Lake Erie: hydrological controls and limnological implications. Society for Freshwater Science (Detroit, MI).

Sethna*, L., T. Royer, **J.M. Hood**. Responses of Lake Erie phytoplankton communities to phosphorus, nitrogen, and silica loading from the Maumee River. Society for Freshwater Science (Detroit, MI).

- Collis*, L., **J.M. Hood**, T.V. Royer, L. Sethna*. Responses of Lake Erie phytoplankton communities to P, N, and Si loading from the Maumee River. International Association for Great Lakes Research (Toronto, Ontario).
- Huddleston*, A.L., E.A. Marschall, C. May, S.A. Ludsin, **J.M. Hood**. The influence of winter severity on the coupling between Lake Erie larval walleye and their prey. International Association for Great Lakes Research (Toronto, Ontario).
- Almeida, L.Z.* , A. Huddleston*, **J. Hood**, S. Ludsin, E.A. Marschall. Do winter conditions alter the timing of larval walleye (*Sander vitreus*) and zooplankton prey production in Lake Erie? Larval Fish Conference (Victoria, BC).
- Ludsin, S., D. Dippold, T. Farmer, L.Z. Almeida*, **J. Hood**, C. May, J. Stone, E.A. Marschall, Understanding and predicting climate change impacts on yellow perch recruitment in Lake Erie. Larval Fish Conference (Victoria, BC).
- Furey, P., J. Welter, D. Sander, L. Collis*, J. Benstead, W. Cross, **J. Hood**, A. Huryn, P. Johnson, J. Olafsson, G.M. Gislason. Climate warming and eutrophication intersect to regulate biofilm accrual and species composition in a streamside channel experiment in Iceland. Association for the Sciences of Limnology and Oceanography (Victoria, BC).
- Harms, T., **J.M. Hood**, M. Scheuerell. Interactions and the long-term stability of aquatic ecosystems. Association for the Sciences of Limnology and Oceanography (Victoria, BC).
- Harms, T.K., **J.M. Hood**, M.D. Scheuerell, T.R. Barnum, I.F. Creed, S. Devlin, M.A. Evans-White, C. Ruffing, A. Ruhí, A. Smits, T. Williamson, J.B. Jones. Trophic interactions influence resilience of aquatic ecosystems to perturbations. Ecological Society of America (Portland, OR)
- Stone, J., **J.M. Hood**, E.A. Marschall, S.A. Ludsin. Response of zooplankton to a changing Lake Erie ecosystem. American association of Limnology and Oceanography (Portland, OR).
- Sethna*, L., T. Royer, **J.M. Hood**. Responses of Lake Erie phytoplankton communities to phosphorus, nitrogen, and silica loading from the Maumee River. Lake Erie – Inland Waters Research Review (Columbus, OH).
- Huddleston*, A.L., E.A. Marschall, **J.M. Hood**, S.A. Ludsin, C. May. Response of larval walleye prey communities to winter and spring temperatures. Lake Erie – Inland Waters Research Review (Columbus, OH).
- 2017 **Hood, J.M.**, T. Barnum, I. Creed, S. Devlin, M. Evans-White, T. Harms, C. Ruffing, A. Ruhí, M. Scheuerell, A. Smits, T. Williamson. Resilience of aquatic food chains to press and pulse perturbations. Society of Freshwater Science (Raleigh, NC)
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