

# Kathryn Hofmeister

Assistant Teaching Professor

College of Forest Resources and Environmental Science | Michigan Technological University

Email: [klhofmei@mtu.edu](mailto:klhofmei@mtu.edu)

## EDUCATION

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CORNELL UNIVERSITY, Ithaca, NY

**PhD**, Natural Resources (2018); Ecosystem Biology and Biogeochemistry, Water Resources concentrations

*Dissertation: "Water Movement and Connectivity in a Forested Glacial Drift Watershed"*

**MS**, Natural Resources (2015); Water Resources concentration

*Thesis: "A Surface Runoff Model for Central New York Agricultural Fields"*

HAMPSHIRE COLLEGE, Amherst, MA

**BA**, Environmental Science (2013)

*Division III Thesis: "Influence of Land Cover on Stream Temperature: Implications for Modeling and Waterway Restoration"*

## APPOINTMENTS

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MICHIGAN TECHNOLOGICAL UNIVERSITY, Houghton, MI

**Assistant Teaching Professor**, Forest Resources and Environmental Science (Aug 2024-Present)

UNIVERSITY OF WISCONSIN-OSHKOSH, Oshkosh, WI

**Assistant Professor**, Environmental Studies Program (Aug 2022-Aug 2024)

UNIVERSITY OF WISCONSIN-RIVER FALLS, River Falls, WI

**Adjunct Professor**, Plant and Earth Sciences Department (June 2023-Present)

MICHIGAN TECHNOLOGICAL UNIVERSITY, Houghton, MI

**Postdoctoral Research Scholar**, College of Forest Resources and Environmental Science (Aug 2018-Aug 2022)

CORNELL UNIVERSITY, Ithaca, NY

**Graduate Student Researcher**, Soil & Water Lab, Department of Biological and Environmental Engineering (Aug 2013-Aug 2018)

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, Blacksburg, VA

**Undergraduate Student Researcher**, Virginia Tech StREAM Lab NSF REU Program, Department of Biological Systems Engineering (Jun-Aug 2012)

UNIVERSITY OF MICHIGAN BIOLOGICAL STATION, Pellston, MI

**Undergraduate Student Researcher**, University of Michigan Biological Station Biosphere-Atmosphere Interaction NSF REU Program (Jun-Aug 2011)

## TEACHING EXPERIENCE

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### *INSTRUCTOR*

**FW 2051 Field Techniques**, Michigan Technological University (Fall 2024)

- This course introduces undergraduate students to common equipment and techniques used to measure forest ecosystem attributes and perform fieldwork. Topics include field safety, land measurement and navigation, establishment of sample locations, assessment of soil and water resources, and measurement of attributes of individuals and groups of trees, vegetation and other organisms.

**FW 5378 Field Methods**, Michigan Technological University (Fall 2024)

- This course introduces graduate students to common equipment and methods used in forestry, wildlife, ecology, water quality, and recreation management.

**FW 4881 Forestry Capstone**, Michigan Technological University (Fall 2022, Spring 2022)

- Provided support for senior undergraduate students conducting capstone group projects, including assisting students with developing data collection plans and summarizing, analyzing, and presenting data collected.

**FW 5369 Hydrology and Watershed Management**, Michigan Technological University (Spring 2019, 2020, 2021, 2022)

- Graduate level course surveying hydrology and watershed management concepts, including group projects to develop individual watershed management plans for regional nonprofits.

**ES 102 Introduction to Sustainability**, University of Wisconsin-Oshkosh (Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024)

- This class introduces students to the dynamic interdisciplinary field of sustainability and focuses on how to create a sustainable future that supports environmental health, social equity and economic vitality across the globe. Students will learn to think critically about sustainability issues, policies, solutions, and responsibilities through readings, discussions, campus action and a semester long personal sustainability project.

**ES/GEOG 304 Principles of Soil Science**, University of Wisconsin-Oshkosh (Spring 2023, Fall 2023)

- This course explores the fundamental principles of soil science and soils as an essential natural resource. This course includes lecture, field, and laboratory components and students will work on a semester long project using samples they collect from a local research site.

**ES/GEOG 306 Environmental Conservation**, University of Wisconsin-Oshkosh (Fall 2022, Spring 2024, Spring 2025)

- This course examines the physical processes responsible for the production and replenishment of natural resources, the interactions and feedbacks between Earth's systems, and the impact of human development on those systems. Students will learn about natural resource utilization, management, regulation, and best practices for sustainable consumption through local and global case studies and a group project.

**ES/GEOG 364 Water Resource Management**, University of Wisconsin-Oshkosh (Fall 2024)

- This course considers that natural and social processes that shape water availability and use. The first part of the course will provide students with a foundational understanding of hydrology and watershed processes, including key field and laboratory techniques. In the second part of the course students will use their scientific knowledge to explore the relationships between water and human activities.

**ES 446 Independent Study**, University of Wisconsin-Oshkosh (Fall 2023, Spring 2023, Fall 2024, Spring 2024)

- This course is tailored to the needs and interests of individual students and has included students learning and using GIS to explore their own research interests and learning key field and laboratory techniques in hydrology, soils, and ecology.

**GEOG 121 Physical Geography I – Weather and Climate**, University of Wisconsin-Oshkosh (Spring 2021)

- This course is an introduction to the study of the physical processes and spatial patterns of the Earth's weather and climate and the impact of climate on vegetation. This course includes both lecture and lab components.

**GEOG 221 Physical Geography II – Landforms and Soils**, University of Wisconsin-Oshkosh (Fall 2022, Spring 2023, Fall 2023)

- This course is intended to provide students with a basic understanding of the components and processes that create the physical and biotic landscapes found on the earth. This course includes both lecture and lab components.

**EGRT 374 Field Sampling and Analysis**, University of Wisconsin-Oshkosh (Summer 2024)

- This course will investigate methods to determine and report water quality from lakes, rivers, groundwater, and engineered systems. This course includes lectures on theoretical concepts and hands-on labs and field trips to learn how to sample, transport, and analyze field samples and interpret and present results.

**ESM 389 From Field to Lab: Hands-on Techniques in Water Sciences**, University of Wisconsin-River Falls (Summer 2023, Summer 2024)

- This course is an introduction to field and lab techniques for studying freshwater and soils. Students will learn field and lab methods including water sampling from surface and ground water, soil observation and identification, and greenhouse gas sampling. Additionally, students will learn how to analyze samples, interpret the results, and present their findings.

*GUEST INSTRUCTOR*

**UN0500 Effective Scholarship**, Michigan Technological University (Spring 2019, 2020)

**EARTH 296 Geology of Michigan**, University of Michigan (Summer 2019)

**ENVIRON 300 Climate Change and Sustainability**, University of Michigan (Summer 2018)

**Below Ground Carbon Methods Workshop**, US Forest Service International Programs (Summer 2017)

**EEB 348 Forest Ecosystems**, University of Michigan (Summer 2017)

**EEB 381 General Ecology**, University of Michigan (Summer 2017)

**ENVIRON 324 Water Law and Policy**, University of Michigan (Spring 2017, Spring 2018)

**EGGS 330 Great Lakes Geology and Environmental Issues**, Bloomsburg University of Pennsylvania (Summer 2016)

**LA 7010 Mud City**, Cornell University (Fall 2014)

*TEACHING ASSISTANT*

**BEE 3710 Physical Hydrology for Ecosystems**, Cornell University (Spring 2015)

**NS 126T Water in a Changing Climate**, Hampshire College (Fall 2010, Fall 2012)

*K-12 EDUCATION*

**After School Science Educator**, BJM Elementary School, Ithaca, NY (Sept-May 2013-2016)

- Designed and presented science activities for children 5-12 years old spanning a wide range of scientific disciplines.

**Education Intern**, Hitchcock Center for the Environment, Amherst, MA (Sept-May 2010-2013)

- Facilitated environmental science inquiry activities for children 3-10 years old.

**PUBLIC OUTREACH**

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**Community Stream Monitoring along Burt Lake**, University of Michigan Biological Station, Pellston, MI (Summer 2017-Spring 2019)

**Stream Monitoring with Camp KinoMaage**, University of Michigan Biological Station, Pellston, MI (Summer 2016)

**Stream Monitoring around Tompkins County Community Science Program**, Ithaca, NY (2015-2016)

**4H Programs, 4H<sub>2</sub>O Group Stream Sensor Program**, Ithaca, NY (Fall 2015 – Spring 2016)

**Sciencenter “Future Science Leaders” Program**, Ithaca, NY (Summer, Fall 2015)

**Stream Sensor Design and Build Workshop**, Homestead School, Glen Spey, NY (Summer 2015)

**Expanding Your Horizons (EYH) “H<sub>2</sub>O Detectives” Workshop Developer and Coordinator**, Cornell University, Ithaca, NY (Spring 2014, 2015, 2016)

**4H Outreach Programs, Watershed Hydrology**, New York State Fair, Syracuse, NY (Summer 2014)

**PEER-REVIEWED PUBLICATIONS**

\* undergraduate student researcher

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15. **Hofmeister, K.** \*Fleury, \*Feitl, G., L., \*Tackett, K., and Nave, L. In Review. Management effects on soil organic matter and related soil health properties in a mixed agricultural-forest landscape. *Soil Science Society of America Journal*.

14. Nave, L., Atkins, J., Benjamins-Carey, S., Bohrer, G., Castillo, B., Clay, C., Crumsey, J., Fahey, R., Gough, C., Hardiman, B., **Hofmeister, K.**, Ivanov, V., Matheny, A., Menna, A., Nadelhoffer, K., Propson, B., Santos, F., Schubel, A., Tallant, J. In Review. Ecosystem succession and carbon sequestration in a northern temperate forest: Controls and management implications. *Ecological Applications*.

13. Donnelly, A., Desai, A.R., Heckman, K., Nave, L.E., Cramer, M.J., Faust, M., Weishampel, P., Slemmons, C., Andresen, C., Ayres, E., Cotey, S., Docherty, K.M., Hatzis, J., **Hofmeister, K.**, LaMontagne, J.M., Lenters, J., Lottig, N., Marcarelli, A.M., Miesel, J., Riddle, J., Salmon-Tumas, M., SanClements, M.D., Sapkota, S., Schwartz, M.D., Sharma, P., Shrestha, O., Vincent, G., Waupochick, A., Zheng, T., Zhiwei, Y. 2024. Fostering effective and sustainable scientific collaboration and knowledge exchange: Workshop-

based approach to establish a NEON Domain-specific user group. *International Journal of Biometeorology* DOI:10.1007/s00484-024-02673-x

12. **Hofmeister, K.**, Lerch, R., Baffaut, C., Yang, J., Liu, F. 2022. Characterizing groundwater chemistry and recharge in the critical zone of an agricultural claypan watershed. *Water Resources Research* 58(10): e2021WR031797. <https://doi.org/10.1029/2021WR031797>

11. **Hofmeister, K.**, Eggert, S., Palik, B., Morley, D., Creighton, E., Rye, M., Kolka, R. 2022. The identification, mapping, and management of seasonal ponds in forests of the Great Lakes region. *Wetlands* 42, 9. DOI:10.1007/s13157-021-01526-2

10. **Hofmeister, K.**, Nave, L., Drevnick, P., Veverica, T., Knudstrup, R., Heckman, K., Riha, S., Schneider, R., Walter, M.T. 2019. Seasonal dynamics and exports of elements from a first-order stream to a large inland lake in Michigan. *Hydrological Processes* 33: 1476-1491. DOI:10.1002/hyp.13416

9. Nadeau, S., Roco, C., Debenport, S., Anderson, T., **Hofmeister, K.**, Walter, M.T., Shapleigh, J. 2019. Metagenomic analysis reveals distinct patterns of denitrification gene abundance across soil moisture, nitrate gradients. *Environmental Microbiology* 21: 1255-1266. DOI:10.1111/1462-2920.14587

8. **Hofmeister, K.**, Nave, L., Riha, S., Schneider, R., Walter, M.T. 2019. A test of two spatial frameworks for representing spatial patterns of wetness in a glacial drift watershed. *Vadose Zone Journal* 18: 180054. DOI:10.2136/vzj2018.03.0054

7. Nave, L., Walters, B., **Hofmeister, K.**, Perry, C., Mishra, U., Domke, G., Swanston, C. 2018. The role of reforestation in carbon sequestration. *New Forests* 60: 602-623. DOI:10.1007/s11056-018-9655-3

6. Nave, L., Domke, G., **Hofmeister, K.**, Mishra, U., Perry, C., Walters, B., Swanston, C. 2018. Reforestation can sequester two petagrams of carbon in U.S. topsoils in a century. *PNAS* 115: 2776-2781. DOI:10.1073/pnas.1719685115

5. Nave, L., Gough, C., Perry, C., **Hofmeister, K.**, Le Moine, J., Domke, G., Swanston, C., Nadelhoffer, K. 2017. Physiographic factors underlie rates of biomass production during succession in Great Lakes forest landscapes. *Forest Ecology and Management* 397: 157-173. DOI:10.1016/j.foreco.2017.04.040

4. Nave, L., Drevnick, P., Heckman, K., **Hofmeister, K.**, Veverica, T., Swanston, C. 2017. Soil hydrology, physical and chemical properties and the distribution of carbon and mercury in a postglacial lake-plain wetland. *Geoderma* 305: 40-52. DOI:10.1016/j.geoderma.2017.05.035

3. **Hofmeister, K.**, \*Georgakakos, C., Walter, M.T. 2016. A runoff risk model based on topographic wetness indices and probability distributions of rainfall and soil moisture for Central New York agricultural fields. *Journal of Soil and Water Conservation* 71: 289-300. DOI:10.2489/jswc.71.4.289

2. \***Hofmeister, K.**, Cianfrani, C., Hession, W.C. 2014. Complexities in the stream temperature regime of a small mixed-use watershed, Blacksburg. *Ecological Engineering* 78: 101-111. DOI:10.1016/j.ecoleng.2014.05.019

1. Hardiman, B., Gough, C., \*Halperin, A., \***Hofmeister, K.**, Nave, L., Bohrer, G., Curtis, P. 2013. Maintaining high rates of carbon storage in old forests: A mechanism linking canopy structure to forest function. *Forest Ecology and Management* 298: 111-119. DOI:10.1016/j.foreco.2013.02.031

## TECHNICAL REPORTS, POPULAR PRESS, AND MEDIA

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Wetland research (Hofmeister et al., 2022) mentioned in US Forest Service News Piece, “Eastern Region leverages partnerships to map wetlands in Great Lakes states.” January 31, 2024.

Interviewed by The Advance-Titan, “Reduced CWA regulations impact water.” September 13, 2023.

<https://advancetitan.com/news/2023/09/13/reduced-cwa-regulations-impact-water>

Presenter for Forest Carbon and Climate Adaptation educational video series, co-produced by Michigan State University’s Forest Carbon and Climate Program (FCCP) and the Northern Institute of Applied Climate Science (NIACS). Video series describes carbon trends and adaptation concepts through the lens of the forest landscape of northern Lower Michigan. Videos for [this regional blended learning model](#) were recorded on-site at the University of Michigan Biological Station in 2021, and released via FCCP’s [Open Resource Library](#) and [YouTube Channel](#) in 2023.

**Hofmeister, K.** and \*Villanueva, A. 2020. Your Burt Lake Water Level Questions Answered. Burt Lake Preservation Association Newsletter. Pellston, Michigan.

Bussiere, E., Casis, J., Deen, S., **Hofmeister, K.**, Leitgeb, A., Li, S., McPhillips, L., Reyes-Retana, G., Sand, M., Smith, J., Schneider, R. 2014. Recommendations for development of a payment for ecosystem services project for Coonoor, India. *Report for Keystone Foundation*. Coonoor, Tamil Nadu, India.

\*authors listed alphabetically

## PRESENTATIONS

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26. Panella, T., Cotey, S., **Hofmeister, K.**, Webster, C., Bal, T. *Addressing knowledge gaps in American beech restoration*. Michigan Technological University Graduate Research Colloquium. March 2024. Poster.

25. Eggert, S., **Hofmeister, K.**, Palik, B., Kolka, R. *The contribution of seasonal ponds to biological diversity in northern forested landscapes*. Forestry and Wildlife Research and Practice Review, Cloquet, MN. Feb 2024. Poster.

24. Panella, T., **Hofmeister, K.**, Bal, T. *Monitoring planting trials and nucleated seed orchards for restoration of beech bark disease impacted forests*. Society of American Foresters National Convention. Oct 2023.

23. **Hofmeister, K.**, Beyer, D., Bolton, N., Boyle, G., Bronson, D., Davenport, S., Davis, J., Kolka, R., Liu, F., Shannon, J., Van Grinsven, M. *Alternative Species for Restoration of Black Ash Ecosystems Under Threat from Emerald Ash Borer: MI Upper Peninsula and Northern WI Study Sites*. Strategies and Tools for Managing Ash and Elm Species Workshop. Sept 2023. *Invited Presentation*.

22. **Hofmeister, K.**, Eggert, S., Palik, B., Morley, D., Creighton, E., Rye, M., Kolka, R. *Mapping, Monitoring, and Managing Seasonal Ponds in Forested Landscapes*. Michigan Vernal Pools Patrol Annual Meeting. Dec 2022. *Invited Presentation*.

21. **Hofmeister, K.**, Eggert, S., Palik, B., Morley, D., Creighton, E., Rye, M., Kolka, R. *Seasonal Ponds in the Great Lakes Region: Identification and Management*. Great lakes Alliance for Remote Sensing Wetlands Wednesday Webinar Series. Mar 2022. *Invited Presentation*.

20. Flower, C., Knight, K., Pinchot, C., Koch, J., Nislow, K., Lindner, D., Royo, A., Kilgore, J., Bronson, D., **Hofmeister, K.**, Haugen, L., Pike, C., Slavicek, J., Fotis, A., Matthews, S. *Riparian forest management in response to invasive pests and pathogens*. Forestry and Wildlife Research Review and MN SAF Annual Meeting. Jan 2022. Oral Presentation.
19. Liu, F., Burkwald, C., **Hofmeister, K.** *Streamflow Generation and Nutrient Sources in the Sturgeon River Watershed, the Lake Superior Basin*. Dec 2021. American Geophysical Union Fall Meeting, New Orleans, LA. eLightning talk.
18. **Hofmeister, K.**, Shannon, J., Flower, C., Van Grinsven, M., Slesak, R., Liu, F., Kolka, R. *Carbon and Nitrogen Responses to Emerald Ash Borer Infestation Across Great Lakes Forested Wetlands*. Nov 2021. Soil Science Society of America International Meeting. Oral Presentation.
17. **Hofmeister, K.**, Shannon, J., Bolton, N., Liu, F., Kolka, R. *Alternative Species for Restoration of Black Ash Ecosystems Under Threat from Emerald Ash Borer*. Jan 2021. Forestry and Wildlife Research Review and MN SAF Annual Meeting. Oral presentation.
16. **Hofmeister, K.**, Eggert, S., Palik, B., Kolka, R. *Diverse Physical Characteristics of Seasonal Ponds Across the Upper Great Lakes Region*. Jan 2021. Forestry and Wildlife Research Review and MN SAF Annual Meeting. Oral, Poster.
15. **Hofmeister, K.**, Lerch, R., Yang, J., Liu, F. *Characterizing Groundwater Chemistry and Recharge in an Agricultural Claypan Watershed Using End Member Mixing Analysis*. Dec 2019. American Geophysical Union Fall Meeting, San Francisco, CA. Poster.
14. **Hofmeister, K.**, Shannon, J., Davis, J., Stimmel, E., Van Grinsven, M., Bolton, N., Noh, N.J., Wagenbrenner, J., Pypker, T., Liu, F., Kolka, R. *Assessing Ecosystem Carbon Pools in Black Ash Wetlands Across the Great Lakes*. May 2019. Society of Wetland Scientists Annual Meeting, Baltimore, MD. Oral presentation.
13. **Hofmeister, K.** *How Water Moves Through a Forested Landscape and What Travels with It*. May 2018. Cornell University, Department of Natural Resources Seminar Series, Ithaca, NY. Oral presentation.
12. **Hofmeister, K.**, Nave, L., Knudstrup, R., Veverica, T., Drevnick, P., Walter, M.T. *Temporal Dynamics and Spatial Patterns of C, N, P in a Forested First-Order Watershed*. Dec 2017. American Geophysical Union Fall Meeting, New Orleans, LA. Poster.
11. Georgakakos, C., **Hofmeister, K.**, O'Connor, C., Buchanan, B., Walter, M.T. *A Multiyear Study of Soil Moisture Patterns Across Agricultural and Forested Landscapes*. Dec 2017. American Geophysical Union Fall Meeting, New Orleans, LA. Poster.
10. Nave, L., Walters, B., **Hofmeister, K.**, Perry, C., Mishra, U., Domke, G., Swanston, C. *The Role of Reforestation in Carbon Sequestration*. Dec 2017. American Geophysical Union Fall Meeting, New Orleans, LA. Poster.
9. Covarrubias Ornelas, A., **Hofmeister, K.**, Nave, L. *Particulate and Dissolved Matter in the Honeysuckle Creek Watershed: Consequences for Carbon in a Changing Climate*. Oct 2017. Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Salt Lake City, Utah. Poster.

8. Nave, L., Walters, B., **Hofmeister, K.**, Perry, C., Mishra, U., Domke, G., Swanston, C. *The Role of Reforestation in Carbon Sequestration*. Apr 2017. Reforestation Matters Forest Service Workshop, Portland, OR. Oral presentation.
7. **Hofmeister, K.**, Nave, L., Drevnick, P., Walter, M.T. *Topographic Wetness Indices, Soil moisture, and Water Table Dynamics Identify Hydrologic Flow Paths in a Forested Watershed*. Dec 2016. American Geophysical Union Fall Meeting, San Francisco, CA. Poster.
6. Saia, S., **Hofmeister, K.**, Regan, J., Buda, A., Carrick, H., Walter, M.T. *Factors Influencing Divergent Patterns of Phosphorus Availability in NY and PA Biogeochemical 'Hotspots'*. Dec 2016. American Geophysical Union Fall Meeting, San Francisco, CA. Oral presentation.
5. **Hofmeister, K.**, Walter, M.T. *Identifying Landscape Areas Prone to Generating Storm Runoff in Central New York Agricultural Fields*. Dec 2015. American Geophysical Union Fall Meeting, San Francisco, CA. Poster.
4. Marchetto, P., **Hofmeister, K.**, Walter, M.T. *Inexpensive, Open-Source, Internet of Things-Enables Sensing Stations for Environmental Parameter Measurements*. Dec 2015. American Geophysical Union Fall Meeting, San Francisco, CA. Poster.
3. **Hofmeister, K.**, Georgakakos, C., Walter, M.T. *A Simple Runoff Model Based on Topographic Wetness Indices and Soil Moisture for Central New York Agricultural Fields*. Dec 2014. American Geophysical Union Fall Meeting, San Francisco, CA. Poster.
2. **Hofmeister, K.** *Predicting Runoff: Soil Moisture and Precipitation*. Nov 2014. Cornell University Soil and Water Lab Seminar, Ithaca, NY. Oral presentation.
1. **Hofmeister, K.**, Cianfrani, C., Hession, W.C. *Complexities in the Stream Temperature Regime of Stroubles Creek in a Mixed Land Use Watershed, Blacksburg, VA*. June 2013. American Ecological Engineering Society Annual Conference, Lansing, MI. Poster.

## STUDENT MENTORING AND ADVISING

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### Undergraduate and Graduate Student Mentor (2016-2024)

- Mentored students through the development of research projects, collection and analysis of data, and presentation of results as part of university research assistant programs (Cornell University, Michigan Technological University, University of Wisconsin-Oshkosh), University of Michigan Biological Station Research Experience for Undergraduate (REU) Program, and University of Michigan Frontiers Master's Programs.

Ethan Boyd, B.S., University of Wisconsin-Oshkosh (Summer 2024)

- Awarded Undergraduate Small Research Grant (\$750) for summer 2024 research

Bobbi Blahik, B.S., University of Wisconsin-Oshkosh (Summer 2024)

- Awarded Undergraduate Small Research Grant (\$750) for summer 2024 research

Leah Fleury, B.A., University of Wisconsin-Oshkosh (Spring 2024)

Kim Huettl, B.S., University of Wisconsin-Oshkosh (Fall 2023)

Kaylee Tackett, B.S., University of Wisconsin-Oshkosh (Fall 2023-Present)

Gwen Feitl, B.S., University of Wisconsin-Oshkosh (Fall 2023-Present)

Kevin Mueller, B.S., University of Wisconsin-Oshkosh (Fall 2022-Fall 2023)

- Awarded Student-Faculty Collaborative Research Grant for summer 2023 research (\$2,875)



Tim Burns, B.S., University of Wisconsin-Oshkosh (Spring 2023-Summer 2023)

- Awarded Undergraduate Small Research Grant (\$600) for summer 2023 research

Mason McGrath, B.S., University of Wisconsin-Oshkosh (Spring 2023-Present)

Ben Priebe, B.A., University of Wisconsin-Oshkosh (Spring 2023)

Juliana Mahler, B.S., University of Wisconsin-Oshkosh (Spring 2023)

Ely Hartl, B.S., University of Wisconsin-Oshkosh (Fall 2022-Spring 2023)

Jez Abella, B.S., Kalamazoo College (Summer 2022-Fall 2022)

Cory Burkwald, M.S., Michigan Technological University (Spring 2021-Present)

Natalie O'Hern, B.S., Wellesley College (Summer 2021)

Alayna Merten, B.S., Michigan Technological University (Spring 2020-Spring 2021)

Alitzel Villanueva, B.S., Middlebury College (Summer 2020)

Elisabeth Stimmel, M.S., Michigan Technological University (Fall 2018-Summer 2020)

Brooke Propson, B.S., University of Michigan (Summer 2019)

Elizabeth Feliciano, M.S., University of Michigan (Summer 2018)

Ariadna Covarrubias Ornelas, B.S., Portland State University (Summer 2017)

Margaret Conley, B.S., Bowdoin University (Summer 2016)

Clare O'Connor, B.S., Cornell University (Summer 2016, Summer 2017)

Katie Henderson, B.S., Queen's University (Summer 2016)

Abigail Brown, B.S., Cornell University (Summer 2015)

Bryan Finneran, B.S., Cornell University (Fall 2014-Spring 2015)

Christine Georgakakos, B.S., M.Eng., Cornell University (2013-2015)

#### **Graduate Student Advisor**

Will Inghram, M.S., University of Wisconsin Oshkosh (Committee Member, Summer 2023-Present)

Tom Panella, PhD, Michigan Technological University (Committee Member, Spring 2023-Present)

Seth Lewis, M.F., Michigan Technological University (Co-Advisor, Fall 2020-Spring 2022)

#### **GRANTS AND HONORS**

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##### *Grants*

USDA Forest Service, *Interactions between Emerald Ash Borer and Terrestrial Invasive Plants in the Great Lakes Region: a proposal for remediation and recovery*, \$56,572 (Sept 2022-Sept 2025)

University of Wisconsin-Oshkosh Faculty Development Grant, *Influence of conservation practices on carbon sequestration in agricultural soils*, \$8,700 (Summer 2023)

University of Michigan Biological Station Research Fellowship, *Identifying Hydrologic Flow Paths and Biogeochemical Hotspots Using Spatial Soil Moisture Patterns in Forested Landscapes*, \$2,370 (2017)

University of Michigan Biological Station Research Fellowship, *Identifying Hydrologic Flow Paths and Biogeochemical Hotspots Using Spatial Soil Moisture Patterns in Forested Landscapes*, \$1,800 (2016)

National Science Foundation Graduate Research Fellowship, *Landscape Moisture Patterns*, \$102,000 total (2015-2018)

Cornell Graduate School Conference Grant, \$2,000 total (Fall 2014-2017)

##### *Honors*

Michigan Technological University teaching excellence recognition for FW 5369 Hydrology and Watershed Management (2019, 2021)

National Science Foundation Graduate Research Fellowship Honorable Mention (2013)

Hampshire College Ingenuity Award (Spring 2013)  
Hampshire College Justine Salton Memorial Fund (Spring -Summer 2012)  
Hampshire College Johnson Scholar Award (2009-2013)

**PROFESSIONAL DEVELOPMENT, SERVICE, AND SOCIETY MEMBERSHIPS**

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*Professional Development*

North American Geoscience Teachers (NAGT) Early Career Faculty Workshop (Summer 2023)  
University of Wisconsin Fundamentals of Online Teaching Course (Spring 2020)

*Professional Service*

University of Wisconsin-Oshkosh Environmental Health and Safety Committee (Spring 2023-Present)  
University of Wisconsin-Oshkosh College of Letters and Science Dean's Advisory Group member (Fall 2023-Present)  
Manuscript reviewer for professional journals (*Biogeochemistry, Environmental Earth Sciences, Frontiers in Forests and Global Change, Journal of Hydrology, Freshwater Science, Soil Science Society of America Journal, Water Environment Research, Wetlands*)

*Professional Society Membership*

American Geophysical Union  
Association for Environmental Science and Studies  
Citizen Science Association  
Earth Science Women's Network  
Ecological Society of America  
National Association of Geoscience Teachers  
NEON Great Lakes User Group  
North American Association of Environmental Education  
Society of Wetland Scientists  
Soil Science Society of America