

**Kelly S. Aho**

Assistant Professor, Michigan State University  
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**EDUCATION**

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<b>PH.D.</b>	<b>SCHOOL OF THE ENVIRONMENT</b> <i>Yale University, New Haven, CT</i>	2021
<b>MESC.</b>	<b>SCHOOL OF FORESTRY AND ENVIRONMENTAL STUDIES</b> <i>Yale University, New Haven, CT</i>	2015
<b>B.A.</b>	<b>BIOLOGY MODIFIED WITH ENVIRONMENTAL STUDIES MAJOR</b> <i>Dartmouth College, Hanover, NH</i>	2011

**ACADEMIC APPOINTMENTS**

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<b>ASSISTANT PROFESSOR</b> <i>DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCE</i> <i>MICHIGAN STATE UNIVERSITY</i>	2023-PRESENT
<b>ASSISTANT PROFESSOR</b> <i>DEPARTMENT OF INTEGRATIVE BIOLOGY</i> <i>MICHIGAN STATE UNIVERSITY</i>	2023-PRESENT
<b>POSTDOCTORAL FELLOW</b> <i>NATIONAL ECOLOGICAL OBSERVATORY NETWORK (NEON)</i>	2021-2022

**PUBLICATIONS**

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\*STUDENT/MENTEE

*UNDER REVIEW*

**Aho, Kelly**, Kaelin Cawley, Bob Hall, Bobby Hensley, Walter Dodds, Nicholas Harrison, and Keli Goodman. “Gas transfer velocity ( $k_{600}$ ) increases with discharge in steep streams but not in low-slope streams.” *Under review at Limnology and Oceanography Letters*.

*IN PRESS*

**Aho, Kelly**, Kaelin Cawley, Bobby Hensley, Bob Hall, Walter Dodds, and Keli Goodman. “Gas transfer velocities derived from the NEON reaeration field and lab collection data product (DP1.20190.001).” *Accepted to Earth System Science Data*. Preprint:  
<https://doi.org/10.5194/essd-2024-330>

Atkins, Jeff, **Kelly Aho**, Xuan Chen, Andrew Elmore, Rich Fiorella, Wenqi Luo, Danica Lombardozzi, Claire Lunch, ... Andrew Richardson. “Recommendations for developing, documenting, and distributing derived data products from NEON data.” *Accepted to Ecosphere*

## 2024

Bambakidis, Ted, Byron Crump, Byungman Yoon, Ethan Kyzivat, **Kelly Aho**, Charles Leal, Jennifer Fair, Aron Stubbins, Sasha Wagner, Peter Raymond, and Jake Hosen. 2024.

“Temperature, water travel time, and dissolved organic matter structure river microbial communities in a large temperate watershed.” *Limnology and Oceanography*.  
<https://doi.org/10.1002/lno.12591>

Jia, Lei, Mi Zhang, Wei Xiao, Yini Pu, Zhen Zhang, Hengxin Bao, Pei Ge, Yang He, Fuyu Yang, Jie Shi, **Kelly Aho**, Peter Raymond, and Xuhui Lee. 2024. “Aerosol interference with open-path eddy covariance measurement in a lake environment.” *Agricultural and Forest Meteorology*, 355, 110104. <https://doi.org/10.1016/j.agrformet.2024.110104>

2023

**Aho, Kelly**, Taylor Maavara, Kaelin Cawley, and Peter Raymond. 2023. “Inland waters can act as nitrous oxide sinks: Observation and modeling reveal that nitrous oxide undersaturation may partially offset emissions.” *Geophysical Research Letters*, 50, e2023GL104987.  
<https://doi.org/10.1029/2023GL104987>

Maavara, Taylor, Craig Brinkerhoff, Jake Hosen, **Kelly Aho**, Laura Logozzo, James Saiers, Aron Stubbins, Peter Raymond. 2023. “Watershed DOC uptake occurs mostly in lakes in the summer and in rivers in the winter.” *Limnology and Oceanography*, 68: 735-751.  
<https://doi.org/10.1002/lno.12306>

DelVecchia, Amanda, Spencer Rhea, **Kelly Aho**, Emily Stanley, Alice Carter, and Emily Bernhardt. 2023. “Variability and drivers of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O concentrations in streams across the United States.” *Limnology and Oceanography*, 68: 394-408.  
<https://doi.org/10.1002/lno.12281>

2022

Dwivedi, Dipankar, Andre Santos, Malcolm Barnard, Theresa Crimmins, Avni Malhotra, Kent Rod, **Kelly Aho**, ... Samantha Weintraub-Leff. 2022. “Biogeosciences Perspectives on Integrated, Coordinated, Open, and Networked (ICON) Science.” *Earth and Space Science*, 9, e2021EA002119. <https://doi.org/10.1029/2021EA002119>

Liu, Shaoda, Catherine Kuhn, Giuseppe Amatuli, **Kelly Aho**, David Butman, George Allen, Peirong Ling, Ming Pan, Dai Yamazaki, Craig Brinkerhoff, Colin Gleason, Xinghui Xia, and Peter Raymond. 2022. “The importance of water throughput in routing terrestrial carbon to the atmosphere via global streams and rivers.” *PNAS* 119 (11), e2106322119.  
<https://doi.org/10.1073/pnas.2106322119>

**Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Lisa Weber, Byungman Yoon, Jay Zarnetske, and Peter Raymond. 2022. “An intense precipitation event causes a temperate forested drainage network to shift from N<sub>2</sub>O source to sink.” *Limnology and Oceanography*, 67: S242-S257. <https://doi.org/10.1002/lno.12006>

Ghosh, Anwasha, Andrew Robison, Ariana Chiapella, Brittni Bertolet, Corday Selden, Danielle Perry, Hannah Reich, Isabella Oleksy, Jana Isanta-Navarro, **Kelly Aho**, ... Shannon Speir. 2022. “Ecological Dissertations in the Aquatic Sciences: An effective platform for developing professional collaborations among early career aquatic scientists.” *Limnology and Oceanography Bulletin* 31: 27-29. <https://doi.org/10.1002/lob.10485>

2021

**Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Gerard Rocher-Ros, Lisa Weber, Byungman Yoon, and Peter Raymond. 2021. “Distinct concentration-discharge

dynamics in temperate streams and rivers: CO<sub>2</sub> exhibits chemostasis while CH<sub>4</sub> exhibits source limitation due to temperature control.” *Limnology and Oceanography*, 66: 3656-3668. <https://doi.org/10.1002/lno.11906>

Maavara, Taylor, Laura Logozzo, Aron Stubbins, **Kelly Aho**, Craig Brinkerhoff, Jake Hosen, Peter Raymond. 2021. “Does photomineralization of dissolved organics matter in temperate rivers?” *Journal of Geophysical Research: Biogeoscience*, 126, e2021JG006402. <https://doi.org/10.1029/2021JG006402>

**Aho, Kelly**, Jake Hosen, Laura Logozzo, Wade McGillis, and Peter Raymond. 2021. “Highest rates of primary productivity maintained despite CO<sub>2</sub> depletion in a temperate river network.” *Limnology and Oceanography Letters*, 6: 200-206. <https://doi.org/10.1002/lol2.10195>

Yoon, Byungman, Jake Hosen, Ethan Kyzivat, Jennifer Fair, Lisa Weber, **Kelly Aho**, Rachel Lowenthal, Serena Matt, William Sobczak, Jamie Shanley, Joh Morrison, James Saiers, Aron Stubbins, and Peter Raymond. 2021. “Export of photolabile and photoprivable dissolved organic carbon from the Connecticut River.” *Aquatic Sciences*, 83, 23. <https://doi.org/10.1007/s00027-021-00778-8>

Brinkerhoff, Craig, Peter Raymond, Taylor Maavara, Yuta Ishitsuka, **Kelly Aho**, and Collin Gleason. 2021. “Lake morphometry and river network controls on evasion of terrestrially sourced headwater CO<sub>2</sub>.” *Geophysical Research Letters*, 48, e2020GL090068. <https://doi.org/10.1029/2020GL090068>

Hosen, Jake, **Kelly Aho**, Jennifer Fair, Ethan Kyzivat, Serena Matt, John Morrison, Aron Stubbins, Lisa Weber, Byungman Yoon, and Peter Raymond. 2021. “Source switching maintains dissolved organic matter chemostasis across discharge levels in a large temperate river network.” *Ecosystems*, 24, 227-247. <https://doi.org/10.1007/s10021-020-00514-7>

2019

\***Mwanake, Ricky M.**, Gretchen Gettel, **Kelly Aho**, David Namwaya, Frank Masese, Klaus Butterback-Bahl, Peter Raymond. 2019. “Land use, not stream order, controls N<sub>2</sub>O concentration and flux in the upper Mara River basin, Kenya.” *Journal of Geophysical Research: Biogeosciences*, 124, 3491-3506. <https://doi.org/10.1029/2019JG005063>

Hosen, Jake, **Kelly Aho**, Alison Appling, Elisabeth Creech, Jennifer Fair, Robert Hall, ... Peter Raymond. 2019. "Enhancement of primary production during drought in a temperate watershed is greater in larger rivers than headwater streams." *Limnology and Oceanography*, 64: 1458-1472. <https://doi.org/10.1002/lno.11127>

**Aho, Kelly**, and Peter Raymond. 2019. “Differential Response of Greenhouse Gas Evasion to Storms in Forested and Wetland Streams.” *Journal of Geophysical Research: Biogeosciences*, 124, 649-662. <https://doi.org/10.1029/2018JG004750>

2018

Yan, Fangping, Mika Sillanpaa, Shichang Kang, **Kelly Aho**, Bin Qu, Da Wei, Xiafei Li, Chaoliu Li, and Peter Raymond. 2018. “Lakes on the Tibetan Plateau as Conduits of Greenhouse Gases to the Atmosphere.” *Journal of Geophysical Research: Biogeosciences*, 123, 2091-2103. <https://doi.org/10.1029/2017JG004379>

2017

- Qu, Bin, **Kelly Aho**, Chaoliu Li, Shichang Kang, Mika Sillanpää, Fangping Yan, and Peter Raymond. 2017. “Greenhouse Gas Emissions in Rivers of the Tibetan Plateau.” *Scientific Reports*, 7, 16573. <https://doi.org/10.1038/s41598-017-16552-6>
- Qu, Bin, Mika Sillanpää, Chaoliu Li, Shichang Kang, Aron Stubbins, Fangping Yan, **Kelly Aho**, Feng Zhou, and Peter Raymond. 2017. “Aged Dissolved Organic Carbon Exported from Rivers of the Tibetan Plateau.” *PloS one*, 12(7): e0181295. <https://doi.org/10.1371/journal.pone.0178166>

2011

- Obbard, Rachel W., Theresa Cassano, **Kelly Aho**, Greg Troderman, and Ian Baker. 2011. “Using Borehole Logging and Electron Backscatter Diffraction to Orient an Ice Core from Upper Fremont Glacier, Wyoming, USA.” *Journal of Glaciology*, 57(205), 832-840. <https://doi.org/10.3189/002214311798043762>

#### DATASETS AND SOFTWARE

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- Aho, Kelly**, Kaelin Cawley, Robert Hensley, Robert O. Hall, Walter K. Dodds, and Keli Goodman. 2024. “Gas exchange velocities ( $k_{600}$ ), gas exchange rates ( $K_{600}$ ), and hydraulic geometries for streams and rivers derived from the NEON Reaeration field and lab collection data product (DP1.20190.001) ver 2.” *Environmental Data Initiative*. <https://doi.org/10.6073/pasta/18dcc1871ee71cf0b69f2ee4082839d0>
- Cawley, Kaelin, **Kelly Aho**, Robert O. Hall. 2024. “NEONScience/NEON-reaeration: v0.0.2” *Zenodo*. <https://doi.org/10.5281/zenodo.12786089>
- Aho, Kelly**. 2023. “Kellyaho/NEON-GHG-processing: ver 1.0.” *Zenodo*. <https://doi.org/10.5281/zenodo.8386776>
- Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Lisa Weber, Byungman Yoon, Jay Zarnetske, and Peter Raymond. 2021. “Dissolved N<sub>2</sub>O concentrations in the Connecticut River Watershed ver 2.” *Environmental Data Initiative*. <https://doi.org/10.6073/pasta/3494ca49fc3283eea5e4fc2f8a24ce3b>
- Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Gerard Rocher-Ros, Lisa Weber, Byungman Yoon, and Peter Raymond. 2021. “Dissolved CO<sub>2</sub> and CH<sub>4</sub> concentrations in the Connecticut River Watershed ver 1.” *Environmental Data Initiative*. <https://doi.org/10.6073/pasta/af4daec813775b7f426a1db574cbebc7>
- Aho, Kelly**, Kaelin Cawley, Amanda DelVecchia, Emily Stanley, and Peter Raymond. 2021. “Dissolved greenhouse gas concentrations derived from the NEON dissolved gases in surface water data product (DP1.20097.001) ver 1.” *Environmental Data Initiative*. <https://doi.org/10.6073/pasta/47d7cb6d374b6662cce98e42122169f8>
- Aho, Kelly**, Jacob Hosen, Laura A. Logozzo, Wade R. McGillis, and Peter A. Raymond. 2021. “Paired CO<sub>2</sub>-O<sub>2</sub> measurements from streams and rivers ver 1.” *Environmental Data Initiative*. <https://doi.org/10.6073/pasta/68cfcebdede8d3a671cd426a1252f255>

#### REPORTS AND OTHER NON-REFEREED PUBLICATIONS

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**Aho, Kelly**, T. Chakraborty (TC), Bowen Fang, Kangning Huang, Ava Liang, Natalie Schultz, Charlotte Stanley, Anna Walsh, Zhongwang Wei, Yichen Yang, Bowen Zhao, and Xuhui Lee. 2017. *Fundamentals of Boundary-Layer Meteorology: Solution Manual*.

**Aho, Kelly**, and Elin Beck. 2011. "Effects of Epiphyte Cover on Seagrass Growth Rates in Two Tidal Zones." *Dartmouth Undergraduate Journal of Science*, Spring 2011.

## FUNDING

\*STUDENT/MENTEE

### 2024

NSF Biological Sciences, Division of Environmental Biology; RAPID: Invasive hydrilla and carbon cycling: leveraging an ecosystem-scale herbicide application to investigate feedbacks between invasive plants and greenhouse gas emissions (PI Kelly Aho, \$196,466)

Michigan State University Ecology, Evolution, and Behavior Program Seed Grant; Coupled cycling of mercury and greenhouse gases across a Michigan watershed (PIs Kelly Aho and Jackie Gerson, \$14,000)

Michigan State University, University Distinguished Fellow (\*Abby Beilman, \$81,400)

Warren W. and Anneliese C. Wood Undergraduate Research Award (\*Sage Stockdale, \$5,000)

### 2023

Warren W. and Anneliese C. Wood Undergraduate Research Award (\*Sage Stockdale, \$5,000)

### 2021 - 2022

NSF-funded National Ecological Observatory Network (NEON) Postdoctoral Fellowship

### 2019

Yale Institute for Biospheric Studies Doctoral Dissertation Improvement Grant

### 2017

NASA CT Space Grant Graduate Research Fellowship

Yale Analytical and Stable Isotope Lab Matching Funds

### 2016

Yale Institute for Biospheric Studies Doctoral Fellowship

### 2015

Yale Analytical and Stable Isotope Lab Matching Funds

Carpenter Sperry Conference Travel Funding

Yale School of Forestry and Environmental Studies Conference Travel Funding

### 2014

Chinese Academy of Science Travel Support

Yale Institute for Biospheric Studies Master's Research Grant

Carpenter Sperry Research Grant

Yale Analytical and Stable Isotope Lab Matching Funds

Armbrecht Family Research Support

## AWARDS

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2022 Battelle Outstanding Performance Award in Recognition of Outstanding Scientific Engagement to Optimize NEON's Reaeration Data

2021 Top 5 Outstanding Student Presentations at 7<sup>th</sup> North American Carbon Program Meeting

2021 Third place for peer-reviewed poster presentation at Yale Climate Day

2019 Editors' Citation for Excellence in Refereeing for *JGR - Biogeosciences*

2013 Best Research Proposal Award in Natural Science Research Methods Class

## INVITED TALKS

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2024

**Aho, Kelly.** Greenhouse gas emissions from inland waters: Linking aquatic biogeochemistry and climate change. Kellogg Biological Station LTER "Joint" Lab Meeting, Kellogg Biological Station, Michigan State University, Hickory Corners, MI; Anticipated Oct 18, 2024.

**Aho, Kelly.** Greenhouse gas emissions from inland waters: Linking aquatic biogeochemistry and climate change. Fluid Dynamics Seminar Series, University of Notre Dame, Notre Dame, IN; Oct 1, 2024.

**Aho, Kelly.** Building a processed-based understanding of discharge-driven variability in CO<sub>2</sub> and CH<sub>4</sub> emissions. Invited talk at BIOGEOMON 2024, San Juan, PR; January 2024.

Maavara, Taylor, **Kelly Aho**, Craig, Brinkerhoff, Laura Logozzo, Lee Brown, William McDowell, Peter Raymond. (*Invited*) Recent developments integrating connected non-lotic and ephemeral water bodies into the Pulse-Shunt Concept. European Geophysical Union 2024; April 2024

## CONTRIBUTED CONFERENCE AND MEETING PRESENTATIONS

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**Aho, Kelly**, Kaelin Cawley, Robert Hall, Bobby Hensley, Walter Dodds, Keli Goodman. Leveraging a large NEON dataset to explore discharge-driven variability in gas transfer velocity. *Association for the Sciences of Limnology and Oceanography (ASLO) Meeting 2024, Madison, WI; June 2024.*

Hall, Robert, Qipei Shangguan, Robert Payne, **Kelly Aho**, Michael DeGrandpre. Metabolism via DIC in rivers: A different story than oxygen. *Society for Freshwater Science Annual Meeting 2024; June 2024.*

Atkins, Jeff, Richard Fiorella, Andrew D Richardson, Sam Reed, Allison Myers-Pigg, Tong Qiu, Wenqi Luo, Leah Manak, Kelsey Yule, Luis de Pablo, Xuan Chen, Christa L Torrens, Brandon Strange, Claire Lunch, Danica L. Lombardozzi, Benjamin L Ruddell, **Kelly Aho**. Recommendations for developing, documenting, and distributing derived data products from NEON data. AGU Fall Meeting 2023; December 2023.

Cawley, Kaelin, Bobby Hensley, **Kelly Aho**, Bob Hall, and Keli Goodman. Methods and estimates of gas exchange for Nation Ecological Observatory Network (NEON) Streams.

Presentation at ICRW8 Interagency Conference on Research in the Watersheds. June 2023.

**Aho, Kelly**, Taylor Maavara, Kaelin Cawley, and Peter Raymond. Inland waters as nitrous oxide sinks: The prevalence of nitrous oxide undersaturation at NEON aquatic sites. Joint Aquatic Sciences Meeting 2022; May 2022.

**Aho, Kelly**, Taylor Maavara, and Peter Raymond. Inland waters act as periodic nitrous oxide sinks: The frequency and importance of nitrous oxide undersaturation in freshwater bodies. AGU Fall Meeting 2021, New Orleans, LA; December 2021.

**Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Lisa Weber, Byungman Yoon, Jay Zarnetsky, and Peter Raymond. An intense precipitation event causes a temperate forested drainage network to shift from nitrous oxide source to sink. Society for Freshwater Science Annual Meeting 2021; May 2021.

**Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Gerard Rocher-Ros, Lisa Weber, Byungman Yoon, and Peter Raymond. Hydrologic controls on CO<sub>2</sub> and CH<sub>4</sub> emissions from temperate streams and rivers. 7<sup>th</sup> North American Carbon Project Open Sciences Meeting 2021; March 2021.

**Aho, Kelly**, Jennifer Fair, Jake Hosen, Ethan Kyzivat, Laura Logozzo, Serena Matt, Lisa Weber, Byungman Yoon, and Peter Raymond. Distinct concentration-discharge dynamics: CO<sub>2</sub> exhibits chemostasis, while CH<sub>4</sub> exhibits dilution. AGU Fall Meeting 2019, San Francisco, CA; December 2019;.

**Aho, Kelly** and Peter Raymond. The Effects of Wetland Presence and Precipitation Events on Greenhouse Gas Flux from Streams in the Salmon River Watershed, CT. Poster presented at ASLO Aquatic Sciences Meeting, Granada, Spain; Feb 2015.

#### **WORKSHOPS, MEETINGS, AND SYMPOSIA**

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University Corporation for Atmospheric Research (UCAR) Annual Members Meeting, Oct 2024, Boulder, CO.

Faculty Success Program, Spring 2024.

Revisiting the Freshwater Imperative Workshop, July 2023, Fort Collins, CO.

NEON Derived Data Products Workshop, July 2023.

Early Career Geoscience Faculty Workshop, June 2023, Saint Paul, MN.

ESIIL Innovation Summit, May 2023, Boulder, CO.

Ecological Dissertations in the Aquatic Sciences (Eco-DAS) Symposium, Oct 2021.

Inland Water Global HydroBioGeoChemistry Workshop, May 2018, Boulder, CO.

Forests and Climate Oak Spring Garden Foundation Symposium, April 2018, Upperville, VA.

#### **PEDAGOGICAL CERTIFICATES**

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**CENTER FOR THE INTEGRATION OF RESEARCH, TEACHING AND LEARNING ASSOCIATE** 2020

**CERTIFICATE OF COLLEGE TEACHING PREPARATION** 2020

*Poorvu Center for Teaching and Learning, Yale University*

**PEDAGOGICAL TRAININGS**

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2024 Amplify STEM webinar on integrating indigenous knowledge into STEM research and education

2023 Designing your MSU Syllabus: Resources and Tips for Creating syllabi that meet students' needs, MSU Center for Teaching and Learning Innovation

2020 Universal Design for Learning, Yale Poorvu Center for Teaching and Learning

2020 Rubrics and Grading, Yale Poorvu Center for Teaching and Learning

2019 Fundamentals of Teaching in the Sciences, Yale Poorvu Center for Teaching and Learning

2019 Classroom Observation, Yale Poorvu Center for Teaching and Learning

2019 Teaching First Generation and Nontraditional Students, Yale Poorvu Center for Teaching and Learning

2019 Teaching and Mentorship in the Lab Environment, Yale Poorvu Center for Teaching and Learning

2019 Using Technology to Get Feedback on Teaching, Yale Poorvu Center for Teaching and Learning

2019 Enriching the Classroom through Multimedia, Yale Poorvu Center for Teaching and Learning

2019 Inclusive Assessment, Yale Poorvu Center for Teaching and Learning

**TEACHING EXPERIENCE**

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**MICHIGAN STATE UNIVERSITY**

GLG 901 Research Strategies and Methods (Fall 2024)

GLG 200 Introduction to Environment Science and Global Change (Spring 2024)

CSS 893 Ecosystem Ecology and Global Change (Spring 2024)

**YALE UNIVERSITY**

2018 Yale FES 707 Aquatic Chemistry, Teaching Fellow

2017 Yale FES 708 Biogeochemistry and Pollution, Teaching Fellow

2017 Yale FES 723 Wetland Ecology, Teaching Fellow

2015 Yale FES 530 Ecosystems and Landscapes, Teaching Fellow

2015 Yale FES 708 Biogeochemistry and Pollution, Teaching Fellow

2016 - 2020 Instructed 25+ workshops attended by 550+ graduate students, Poorvu Center for Teaching and Learning, Yale University, McDougal Graduate Writing Fellow

**MENTORING AND ADVISING EXPERIENCE**

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**PH.D. STUDENT ADVISOR**



*In progress* Abby Beilman; *MSU Earth and Environmental Science; University Distinguished Fellow*

#### **PH.D. COMMITTEE MEMBER**

*In progress* Carol Waldmann; *MSU Integrative Biology*

*In progress* Seth Hunt; *MSU Plant Biology*

*In progress* Samin Abolmaali; *MSU Earth and Environmental Science*

*In progress* Nudrat Fatima; *MSU Earth and Environmental Science*

#### **MSC COMMITTEE MEMBER**

2019 Sharon Gubamwoyo; *IHE Delft*; Greenhouse gas fluxes in Taita Hills, Kenya

2018 Ricky Mwanake; *IHE Delft*; Drivers of CO<sub>2</sub> & CH<sub>4</sub> fluxes, Mara River, Kenya

2018 David Namwaya; *IHE Delft*; Patterns & drivers of N<sub>2</sub>O, Mara River, Kenya

#### **OTHER**

2016-2019 Graduate Writing Consultant; *Poorvu Center for Teaching and Learning, Yale University*; Tutored 200+ graduate students in 350+ one-on-one consultations

#### **UNIVERSITY SERVICE**

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Seminar Series Organizer, MSU Earth and Environmental Science Department, 2024 – present

Diversity, Equity, and Inclusion Committee, MSU College of Natural Science, 2024 – present

Seminar Committee, MSU Ecology, Evolution, and Behavior Program, 2023 – present

Undergraduate Committee, MSU Earth and Environmental Science Department, 2023 – 2024

Teaching Specialist Search Committee, MSU Earth and Environmental Science Department, Fall 2023

#### **PROFESSIONAL SERVICE**

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NEON Derived Data Products Workshop Organizer, July 2023

NEON Re-aeration Technical Working Group Member, 2022 – present

NEON Ambassador, 2021 – 2023

NEON Aquatic Biogeochemistry Technical Working Group Member, 2021 - 2022

#### **PEER REVIEW**

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##### **JOURNALS**

*Biogeochemistry*

*Biogeosciences*

*Environmental Science and Technology*

*Geophysical Research Letters*

*Global Biogeochemical Cycles*

*Hydrological Processes*

*Journal of Geophysical Research - Biogeosciences*

*Journal of Hydrology*

*Limnology and Oceanography*

*Limnology and Oceanography Letters*

*Nature Communications Earth and Environment*  
*Nature Water*

**PANELS**

NSF Geosciences, Division of Hydrologic Sciences Panel, Anticipated Nov 2024  
NSF Geobiology and Low-temperature Geochemistry CAREER Panel, 2023

**OTHER**

Swiss National Science Foundation Spark  
Legislative-Citizen Commission on Minnesota Resources  
NEON Dissolved Gas Analysis Statement of Work  
NSF Biological Sciences, Division of Environmental Biology  
NSF Geosciences, Division of Hydrologic Sciences  
WikiProject Limnology & Oceanography

**OTHER PROFESSIONAL EXPERIENCE**

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<b>SCIENCE TEAM LEADER</b> <i>GRADUATE WRITING LAB, POORVU CENTER FOR TEACHING AND LEARNING, YALE</i>	2017-2020
<b>HYDROLOGY TECHNICIAN</b> <i>PETERSBURG RANGER DISTRICT, US FOREST SERVICE</i>	Summer 2013
<b>SUSTAINABLE AGRICULTURE VOLUNTEER</b> <i>PEACE CORPS</i>	2011-2013
<b>BIOLOGICAL TECHNICIAN</b> <i>PETERSBURG RANGER DISTRICT, US FOREST SERVICE</i>	Summers 2008, 2009, 2010