

Brooke E. Propson

<https://bpropson.wixsite.com/brookepropson>

ORCID ID: 0000-0001-8426-8300

1525 Observatory Dr. Madison, WI 53706

bpropson2@wisc.edu | (248) 425-5614

Education

-
- | | |
|--------------|---|
| 2021-present | Ph.D., University of Wisconsin-Madison: Department of Soil Science
<i>Advisor: Zac Freedman – Committee: Alfred Hartemink, Erika Marín-Spiotta, Thea Whitman</i> |
| 2015-2019 | B.S., University of Michigan: Ecology and Evolutionary Biology |

Appointments

-
- | | |
|--------------|---|
| 2021-present | National Science Foundation Graduate Research Fellow (NSF-GRF) |
| 2021-2023 | Graduate Research Assistant. University of Wisconsin-Madison. |
| 2021 | Analytical Chemistry Technician. University of Michigan Biological Station. |
| 2019-2021 | Research Assistant. Nadelhoffer Lab, University of Michigan Biological Station. |
| 2018 | NSF-REU Fellow. University of Massachusetts-Boston. |
| 2017 | Undergraduate Researcher. University of Michigan Biological Station. |

Research Grants, Fellowships, and Awards (total = \$157,600)

-
- | | | |
|-----------|-----------|---|
| 2023 | \$100 | Selected Speaker Honorarium, UW CEE Spring Symposium |
| 2023-2024 | \$3,500 | O.N. Allen Soil and Environmental Microbiology Small Grant |
| 2022 | \$1,000 | Charles and Alice Ream Soil & Water Protection Travel Grant |
| 2021-2026 | \$147,000 | NSF Graduate Research Fellowship (NSF-GRF) |
| 2019 | \$1,000 | ASLO Multicultural Program Travel Grant |
| 2018 | \$5,000 | NSF-REU Fellowship, University of Massachusetts, Boston |

Peer-Reviewed Publications

-
2. **Propson, B. E.**, Zak, D. R., Upchurch, R. A., Freedman, Z. B. *Assessing microbial response to ecosystem recovery from historically high rates of anthropogenic nitrogen deposition in northern hardwood forests of the Upper Great Lakes Region*. In preparation.
 1. Clay, C., Nave, L. E., Nadelhoffer, K. J., Vogel, C., **Propson, B. E.**, Den Uyl, J., Hickey, L., Barry, A., Gough, C. M. (2022). *Fire after clear-cut harvesting minimally affects the recovery of ecosystem carbon pools and fluxes in a Great Lakes forest*. *Forest Ecology and Management* 519:120301. <https://doi.org/10.1016/j.foreco.2022.120301>

Oral Presentations

-
2. **Propson, B. E.** *Assessing ecosystem-level response to recovery from historically high rates of anthropogenic nitrogen deposition*. Oral presentation at UW-Madison Center for Ecology and the Environment Spring Symposium. 2023.
 1. **Propson, B. E.**, Cagle, G., Zak, D. R., Upchurch, R. A., Freedman, Z. B. *Assessing the effect of nitrogen deposition and climatic variation on soil organic matter (SOM) chemistry in northern hardwood forests*. Oral presentation at Soil Sci. Soc. of America Meeting. 2022.

Poster Presentations

-
3. Clay, C., Nave, L. E., Nadelhoffer, K. J., Den Uyl, J., **Propson, B. E.**, Gough, C. M. 2020. *Net ecosystem production across successional time in a North American eastern temperate*

- forest chronosequence*. Poster presentation at the American Geophysical Union (AGU) Annual Fall Meeting on 11 December 2020. Virtual symposium due to COVID-19.
2. **Propson, B. E.**, Hofmeister, K. L., Nadelhoffer, K. J., Den Uyl, J., Nave, L. E. *The Adaptive Aspen Management Project (AAME)*. Poster presentation at the University of Massachusetts, Boston Earth Day Symposium. 2020.
1. **Propson, B. E.**, Dimino, T., McCanty, S.T., and Christian, A.D. 2019. *Assessing biodiversity responses to a headwater stream restoration project*. Poster Presentation at the Association for the Sciences of Limnology and Oceanography (ASLO) 2019 Aquatic Sciences Meeting on 26 February 2019. Puerto Rico Convention Center, San Juan, Puerto Rico. ([link to poster](#))

Teaching Experience

2022 Grader and Instructional Aid. SOIL SCI 132. *Earth's Water*, UW-Madison
 2020-2021 Teaching Assistant. EEB 381: *General Ecology*, UMBS

Mentorship Experience

2023 Ella DeRosier, UW-Madison B.S. student, BIO 152 independent research project
 2022-present Emily Sautebin, UW-Madison B.S. student, Freedman Lab technician
 2022-2023 Katie Ann Huy, A.S., B.S., EEB Mentor Match Program
Current: Ph.D. student at Stanford University: Earth System Science
 2022-2023 Jeremy Fleck, UW-Madison B.S. student, Freedman Lab technician
Current: Ph.D. student at University of Colorado, Denver: Microbiology

Society Memberships

Soil Science Society of America (SSSA) Ecological Society of America (ESA)

Synergistic Activities

2023-present Soil Science Department Graduate Student Rep. (graduate student-faculty liaison)
 2022-present Madison Area Technical College STEM seminar speaker (once/semester)
 2021-2022 Wisconsin Science Festival: Science on the Square volunteer (annually in fall)
 2021 NSF Graduate Research Fellowship panelist. UW-Madison NSF GRF workshop

Please see next page for references.

References

Dr. Zac Freedman

Professor, University of Wisconsin-Madison

Relation: Ph.D. advisor (2021-)

608-262-9018

zfreedman@wisc.edu

Dr. Aimée Classen

Director, University of Michigan Biological Station

Professor, University of Michigan, Ann Arbor

Relation: Supervisor (2020-2021)

734-763-4461

aclassen@umich.edu

Dr. Luke Nave

Research Associate Professor, Michigan Technological University

Relation: Research assistant (2019-2021)

231-539-8742

lenave@mtu.edu

Dr. Paul A. Moore

Professor, Bowling Green State University

Relation: Professor (2017) + teaching assistant (2020)

419-372-8556

pmoore@bgsu.edu