

Nathan G. Kiel

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EDUCATION

- 2019-Present** **Ph.D.** University of Wisconsin-Madison, Department of Integrative Biology
Madison, Wisconsin | Expected Completion: 2024 | Minor: Translational Ecology
Dissertation: *Patterns and trajectories of postfire plant communities in Greater Yellowstone*
Advisor: Dr. Monica Turner
- 2015-2019** **B.S.** State University of New York College of Environmental Science and Forestry (SUNY-ESF)
Syracuse, New York | Conservation Biology, Minor: Native Peoples and the Environment
Summa cum laude | Honors Thesis: *Can disruption of an ant-plant mutualism explain lack of recovery of forest herbs in post-agricultural forests of New York?*
Advisor: Dr. Robin Kimmerer
- Fall, 2017** Round River Conservation Studies, Patagonia Program | Aysén Region, Chile
Thesis: *Evaluating the Feasibility of Sustainable Ecotourism Development in the Town of Villa O'Higgins*

RESEARCH INTERESTS

Plant community ecology | Translational ecology | Landscape ecology | Post-disturbance forest dynamics | Pedagogy

ACADEMIC EXPERIENCE

- 2021-Present** Graduate Research Assistant, Department of Integrative Biology, University of Wisconsin-Madison
- 2019-2021** Graduate Teaching Assistant, Departments of Integrative Biology and Botany, University of Wisconsin-Madison
- 2016-2018** Undergraduate Lab Assistant, Department of Environmental and Forest Biology, SUNY-ESF
Advisor: Dr. Gregory McGee

GRANTS, AWARDS AND RECOGNITION

- 2021 Honorable Mention, Graduate Research Fellowship Program, National Science Foundation
- 2019 Awarded the Distinguished Biology Scholar Award for Conservation Biology
- 2019 Awarded the Robin Hood Oak Award for Academic Excellence
- 2019 Highlighted Student Speaker, SUNY-ESF Spring Banquet
- 2015-2018 Awarded the Presidential Scholarship, SUNY-ESF
- 2017 Awarded the Clara Carter Higgins Summer Environmental Studies Scholarship
- 2017 Awarded the National Garden Clubs Scholarship
- 2017 Awarded the Edward Abbey Scholarship
- 2016 Recipient of the SUNY-ESF Alumni Association Grant
- 2016 Awarded the SUNY-ESF Alumni Association Memorial Scholarship

PROFESSIONAL EXPERIENCE

- BioHouse Undergraduate Learning Community Mentor** | August 2022 – Present | Madison, WI
- Summit Steward, Adirondack Mountain Club** | May 2018 – September 2018 | Lake Placid, NY

TEACHING EXPERIENCE

Graduate Teaching Assistant

2019-2021 Introductory Biology Laboratory (3 semesters, 154 students)
2020 General Ecology (1 semester, 22 students)

Undergraduate Teaching Assistant

2019 Forest and Shade Tree Pathology (1 semester)
2018 General Biology Laboratory (1 semester)
2016 General Biology Lecture (1 semester)

MENTORING

Supervised undergraduate research

2021 Eileen Mavencamp, University of Wisconsin-Madison
 ‘Using NDVI multi-temporal imaging to distinguish post-fire regeneration of evergreen biomass
 in areas of sparse recovery’, Introductory Biology 152 Independent Project

Supervised summer field assistants

Zachary Ausavich (2022, UW-Madison), Madelyn DeMarco (2022, UW-Madison), Eileen Mavencamp (2022, UW-Madison), Nick Tipper (2021, UW-Madison, co-supervised), Julia Warren (2021, UW-Madison, co-supervised)

PUBLICATIONS

Kiel, N. G. and M. G. Turner. **2022.** Where are the trees? Extent, configuration, and drivers of poor forest recovery 30 years after the 1988 Yellowstone fires. *For Ecol Manag* 524:120536.

Kiel, N. G., G. R. Griffiths, and G. G. McGee. **2020.** Can disruption of an ant-plant mutualism explain lack of recovery of forest herbs in post-agricultural forests of New York? *Northeast Nat* 27(2):215-228.

PRESENTATIONS

Kiel, N. G., K. H. Braziunas, and M. G. Turner. 2022. Peeking under the canopy: effects of short fire-return intervals on herbaceous understories in Greater Yellowstone. (Oral presentation). Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Bozeman, Montana, May 15-18.

Kiel, N. G., K. H. Braziunas, and M. G. Turner. 2022. Peeking under the canopy: effects of short fire-return intervals on herbaceous understories in Greater Yellowstone. (Oral presentation). UW-Madison Center for Ecology and the Environment’s Spring Symposium, Madison, Wisconsin, May 2-3.

Kiel, N. G. and M. G. Turner. 2021. The other sixteen percent: Areas of poor forest recovery following the 1988 Yellowstone Fires. ([Oral presentation](#), 1:01:45). US-IALE Annual Meeting, virtual, April 12-16.

Kiel, N. G., G. R. Griffiths, and G. G. McGee. 2018. Can disruption of an ant-plant mutualism explain lack of recovery of forest herbs in post-agricultural forests of New York? (Oral presentation). SUNY Undergraduate Research Conference, Oneonta, New York, April 20.

Kiel, N. G., G. R. Griffiths, and G. G. McGee. 2018. Can disruption of an ant-plant mutualism explain lack of recovery of forest herbs in post-agricultural forests of New York? (Oral presentation). Northeast Natural History Conference, Burlington, Vermont, April 13-15.

Kiel, N. G., N. Benecke, G. R. Griffiths, and G. G. McGee. 2017. Does beetle diversity vary across land-use history and ecoregional gradients in central New York’s forests? (Poster). New York Society of American Foresters Conference, Syracuse, New York, January 25-27.

OUTREACH

- 2022 “Peeking under the canopy: climate, fire, and Greater Yellowstone plant communities.” Public talk ([virtual](#)), Teton Chapter, Wyoming Native Plants Society, Jackson, Wyoming
- 2020 “Herbaceous flora of our northeast woods: stories of stone walls, seed dispersers, and slugs.” Public talk ([virtual](#)), North Branch Nature Center, Montpelier, Vermont

SERVICE

- 2020-Present Peer Reviewer: Ecology, Food Webs
- 2021 Department Representative to SACNAS graduate student recruitment event
- 2020-2021 President, Department of Integrative Biology Graduate Student Organization
- 2018-2019 President, Society for Conservation Biology, Central New York Chapter
- 2018 Vice-President, Society for Conservation Biology, Central New York Chapter

PROFESSIONAL MEMBERSHIPS

North American Regional Association of the International Association for Landscape Ecology (IALE-NA)

PROFESSIONAL CERTIFICATIONS

Leave No Trace Trainer
Wilderness First Aid by Wilderness Medical Associates (2018 – 2021)