

Ethan Abercrombie

NSF Graduate Research Fellow, Washington University in St. Louis

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Education

Washington University in St. Louis	Expected 2025
Ph.D. Ecology, Evolution & Population Biology	
Humboldt State University	2020
B.A. Biology <i>Summa cum laude</i>	

Publications

Cannon, C. H., Colby Borchetta [...] **Ethan Abercrombie** [...] & Matthew Spenko (35 total authors). 2021. Extending Our Scientific Reach in Arboreal Ecosystems for Research and Management. *Frontiers in Forests and Global Change* 4.

Fellowships & Awards (total: \$148,750)

National Science Foundation Graduate Research Fellowship (\$138,000)	2022
George Hayward Plant Biology Fellowship (\$5,000)	2021
NSF Research Experience for Undergraduates at the Missouri Botanical Garden (\$5,250)	2018
F.R. Meredith Undergraduate Botany Scholarship (\$500)	2018
Excellence in Writing - Humboldt State University Writing Program	2017
Duttenhaver Student Research Fellowship – Los Angeles Zoo & Botanical Gardens	2015

Teaching Experience

Mentored Teaching Experience: Community Ecology	fall 2021
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Workshops:

Foundations in Teaching Skills: <i>Improving Presentation Skills</i>	2021
STEM Pedagogies Workshop: <i>Asking Questions to Improve Learning</i>	2021
Foundations in Teaching Skills: <i>Teaching in an American Classroom</i>	2021
Foundations in Teaching Skills: <i>Providing Verbal Feedback to Students</i>	2020

Society Memberships

Association for Tropical Biology & Conservation
Ecological Society of America

Conferences Attended:

Ecological Society of America – Montreal, Canada	2022
Ecological Society of America – Virtual	2021
Association for Tropical Biology & Conservation – Virtual	2021

International Conference on Comparative Biology of Monocotyledons – Natal, Brazil	2018
Western Society of Naturalists – Pasadena, California	2017

Presentations

International Conference on Comparative Biology of Monocotyledons	2018
Revision of <i>Stenospermation</i> in Carchi Province, Ecuador	

Missouri Botanical Garden NSF REU Symposium	2018
Revision of <i>Stenospermation</i> in Carchi Province, Ecuador	

Technical Skills

Ongoing Research

A Review of Global Prioritization of Biodiversity

The [Global Change and Conservation lab](#) is working on a paper reviewing the global prioritization of biodiversity.

Small-Mammal Community Change in the Sierra Nevada

Using a 100+ year-old data data collected by Joseph Grinnell in California's Sierra Nevada, I am working to understand how small-mammal communities have changed in response to climate change (temperature warming and drought). This project began during my rotation with Dr. Adam Smith (Missouri Botanical Garden).

Effects of Host-tree Architecture & Microclimate on Epiphytes

I am finalizing the analyses for a project focused on how architectural traits of mature *Ficus* trees, and microclimate, drive the within-crown distribution of epiphyte functional groups in Monteverde, Costa Rica. This research is led by myself and supervised by Dr. Sybil Gotsch (Franklin & Marshall College).

Canopy Soils Review

In collaboration with Dr. Nalini Nadkarni (University of Utah), and Jessica Murray (Utah State University), we are writing a review paper and meta-analyses on the global distribution, structure, and ecological function of canopy soils.