Curriculum vitae

Anne M. Katula

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EDUCATION

Ph.D – **University of Miami**, Coral Gables, FL   2024-Present
Biology   4.0
Committee: Michelle Afkhami, Chris Searcy, Neil Rosser & Robyn Barbato

B.A. – **Dartmouth College**, Hanover, NH   2020-2024
Biology with High Honors   3.77
Concentration in Ecology, Minor in Studio Art
Honors Thesis Advisors: Bala Chaudhary & Matthew Ayres

FELLOWSHIPS AND AWARDS

2025 – University of Miami, Department of Biology, Christiane Tyson Endowed Research Fund, **$1,200**
2024 - 2029 – United States Department of Defense (DoD) SMART Scholarship, **$540,390**
2024 – Lisa D. Anness Fairchild Tropical Botanic Garden Graduate Fellowship, **$31,950**
2020 – Sam G. Hannah Honorary Scholarship, **$10,000**

RESEARCH EXPERIENCE

2025 - Present DoD SMART Scholar Research Intern, US Army Corps of Engineers, Cold Regions Research and Engineering Laboratory (ERDC CRREL), Hanover, NH
2023 - 2024 Soil Microbiology Intern, ERDC CRREL, Hanover, NH
2023 - 2024 Undergraduate Honors Thesis, Dartmouth College, Department of Biology, Hanover, NH
2021 - 2024 Research Assistant, Chaudhary Lab of Ecology, Dartmouth College, Department of Environmental Studies, Hanover, NH
2022 – Field Research Assistant, Ayres Lab, Dartmouth College, Department of Biology, Hanover, NH

PUBLICATIONS

2. **Katula, A.M.**, N.C. Johnson, V.B. Chaudhary & M.E. Afkhami. Multilevel selection theory informs context-dependent mycorrhizal functioning. *Front. Microbiomes*. 4:1676639. doi: 10.3389/frmbi.2025.1676639.

1. Chaudhary, V.B., L.F. Nokes, J.B. González, P.O. Cooper, **A.M. Katula**, E.C. Mares, S. Pehim Limbu, J.N. Robinson & C.A. Aguilar-Trigueros. TraitAM, a global spore trait database for arbuscular mycorrhizal fungi. *Sci. Data* **12**, 588 (2025). https://doi.org/10.1038/s41597-025-04940-x .

POSTERS

Katula, A.M., Johnson, N.C., Chaudhary, V.B., Doherty, S.J., Barbato, R.A., Afkhami, M.E. (2025, August 08). Multilevel selection theory informs rhizosphere microbial assembly under cold stress. [Poster presentation]. USACE ERDC CRREL Student Poster Symposium, Hanover, NH, United States.

Katula, A.M., Ayres, M.P., Metzler, P.A. & Chaudhary, V.B. (2024, August 4-9). SpoViS: A machine vision system for in situ assessment of arbuscular mycorrhizal fungal spores [Poster presentation]. International Conference on Mycorrhizas (ICOM) 12, Manchester, UK.

Katula, A.M., Ayres, M.P., & Chaudhary, V.B. (2023, November 13-14). Using automated image acquisition to assess the interactive effects of soil warming and nitrogen addition on arbuscular mycorrhizal fungal spore traits [Poster presentation]. University of Texas at Austin Gateway to Graduate Studies in Science (G2S2) Symposium, Austin, TX, United States.

Katula, A.M., Doherty, S.J., & Barbato, R.A. (2023, August 08). Comparing the Microbial Community Substrate Utilization of Alaskan Permafrost and Active Layer Soils Using Biolog Ecoplates [Poster presentation]. USACE ERDC CRREL Student Poster Symposium, Hanover, NH, United States.

Nokes, L.F., **Katula, A.M.**, Aguilar-Trigueros, C.A., Mares E.C., Rillig, M., & Chaudhary, V.B. (2022, August 14-19). Why are there so many kinds of arbuscular mycorrhizal fungal spores? [Poster presentation]. Ecology Society of America (ESA), Montréal, Québec, Canada.

Katula, A.M., Dissanayake, H. Sweeny, M.A., Battle, J., & Morquecho, A. (2019, December 09-13). STEMFilters: Learning Lenses [Poster presentation]. Bright Students Training as Research Scientists (Bright STaRS), American Geophysical Union (AGU), San Francisco, CA, United States.

OTHER EXPERIENCE

2024 - 2026 – Biology Graduate Symposium Committee, University of Miami, Miami, FL
2021 - 2024 – Meetings Chair, Chi Delta Sorority, Dartmouth College, Hanover, NH
2018 - 2020 – Sales Specialist, Recreational Equipment, Inc. (REI) Co-op, Austin, TX
2009 - 2020 – Sabumnim (instructor), Practicing black belt, Ultimate Challenge Martial Arts., Austin, TX