

Alivia G Nytko

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Education

Ph.D. Ecology and Evolutionary Biology August 2022 – Present
The University of Tennessee, Knoxville, TN
Advisor: Joe Bailey

B.S. Biology – Ecology & Evolutionary Biology Concentration May 2022
The University of Tennessee, Knoxville, TN GPA 3.91/4.00
Thesis Advisor: Jen Schweitzer

Research Grants and Fellowships

Active funding

- 2022-2027 \$111,000 NSF Graduation Research Fellowship Program (GRFP)
- 2023-2024 \$2,750 UTK EEB Graduate Research Award

Completed Funding

- 2021-2022 \$1,500 Faculty Research Assistant Funding (FRAF)

Awards

- Ray Holton Plant Science Award (2023)
- Global Catalyst Student International Travel Grant (2023)
- Tennessee Plant Research Center Travel Fellowship (2023)
- Graduate Student Senate (GSS) Travel Award (2023)
- Graduate Researchers in Ecology, Behavior, and Evolution (GREBE) Travel Award (2023)
- Best Science Communication at the 6th Annual EEB Undergraduate Research Symposium (2022)
- Hochman Research Award – Funds Declined (2022)
- Volunteer of Distinction – Extraordinary Academic Achievement (2022)
- Volunteer of Distinction – Extraordinary Professional Promise (2022)
- Best Student Presentation Award in the FEWSUS International Symposium (2021)
- Dean's List at the University of Tennessee – Summa Cum Laude (2019 – 2022)
- Volunteer Scholarship Recipient (2019 – 2022)
- Distinguished Tennessean Award (2019 – 2022)

Publications

Manuscripts in review

- **A.G. Nytko**, J.K. Senior, R.C. Wooliver, J. O'Reilly-Wapstra, J.A. Schweitzer, J. Bailey. An evolutionary case for plant rarity. *Ecology and Evolution*.
- **A.G. Nytko**, J.K. Senior, J. O'Reilly-Wapstra, J.A. Schweitzer, J. Bailey. Evolution of rarity and phylogeny determine above- and belowground biomass in plant-plant interactions. *PLOS ONE*.
- **A.G. Nytko**, J.A. Schweitzer, J.K. Bailey. Positive and negative feedbacks drive aboveground traits in rare plant species. *Ecography*.
- **A.G. Nytko**. AM fungal colonization of Sorghum in differing Black and Honey Locust alley cropping systems. *The Journal of Undergraduate Research at The University of Tennessee*.

Published Manuscripts

- S.J. Love, J.D. Edwards, C.N. Barnes, T.W. d'Entremont, A.M. Hord, **A.G. Nytko**, N.B. Sero, S.N. Kivlin, J.K. Bailey. Identifying research targets and risks in climate change studies to break barriers to broad inference. *PLoS Climate*.

Presentations

- Ecological Society of America Conference (2023)
- The 6th Annual EEB Undergraduate Research Symposium (2022)
- NSF FEWSUS international Student Workshop – Co Chair position (2022)
- The 26th Annual Exhibition of Undergraduate Research and Creative Achievement (EUREKA) (2022)
- 12th Annual Undergraduate Research Symposium at The University of Tennessee – Knoxville (2021)
- The 25th Annual Exhibition of Undergraduate Research and Creative Achievement (EUREKA) (2021)
- NSF Student FEWSUS International Symposium (2021)
- University of Tennessee Summer Research Scholars Symposium (2021)

Teaching Experience

The University of Tennessee, Knoxville, TN Graduate Teaching Assistant Organismal & Ecological Biology – BioLit Ecology	2022 – 2023
The University of Tennessee, Knoxville, TN Undergraduate Teaching Assistant	2020 – 2021

Skills of Biological Investigation Lab

Skills

- R
- Python
- HTML
- CSS

Professional Service

Manuscript Review

Science of the Total Environment

Professional Society Service

President, Delta Alpha Pi Honors Society, University of Tennessee

2021 – 2023

- Facilitated 3rd Annual DAPi Disability Awareness Seminar

Outreach

UTK College of Arts and Sciences Undergraduate Orientation

Professional Society Membership

- Ecological Society of America
- British Ecological Society
- Delta Alpha Pi Honors Society