Elizabeth Green

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Department of Biology, Warren Wilson College
Swannanoa, NC, 28778

EDUCATION

The University of North Carolina at Chapel Hill — Chapel Hill, NC
Ph.D. Biology, advisor: Dr. Charles Mitchell — 2019 – 2024
"Effects of soil nutrients on plant disease: Coinfection, host response, and the microbiome"

Middlebury College — Middlebury, VT
B.A. Biology, *magna cum laude* — 2013 – 2017

PROFESSIONAL APPOINTMENTS

Department of Biology, Warren Wilson College — Swannanoa, NC
Assistant Professor — 2026-present

School of Plant Sciences, University of Arizona — Tucson, AZ
Postdoctoral Research Associate, advisor: Dr. Rebecca Schomer — 2024 – 2026
"Fatal Attraction: Decoding the specificity of bacterial pathogen chemosensors"

TEACHING EXPERIENCE

University of Arizona — Tucson, AZ
Teaching Certificate and Co-Instructor
CIRTL PostDoc Pathways Program — Fall 2024-Spring 2025
ACBS317: One Health: A microbial perspective — Spring 2025

University of North Carolina at Chapel Hill — Chapel Hill, NC
Teaching Assistant
BIOL201: Ecology and Evolution — Spring 2021, Fall 2021, Fall 2022
BIOL101L: Introductory Biology Lab — Spring 2020

RESEARCH EXPERIENCE

AgBiome — Durham, NC
Research Intern — Summer 2023

Triangle Center for Evolutionary Medicine — Durham, NC
Research Assistant — Spring 2023
"Modeling the Pandemic Lifecycle for Disease Control"

The National Socio-Environmental Synthesis Center — Annapolis, MD
Computational Research Assistant — 2019 – 2019
Research Assistant — 2017 – 2018

PUBLICATIONS

Green, E.T., Carbone, I., Mitchell, C.E. 2026. Seasonal assembly of the phyllosphere fungal microbiome of a perennial grass is robust to nutrient addition. *Molecular Ecology.* https://doi.org/10.1111/mec.70384

Green, E.T., Grunberg, R.L., Mitchell, C.E. 2024. Order of arrival and nutrient supply alter outcomes of coinfection with two fungal pathogens. *Proceedings B.* https://doi.org/10.1098/rspb.2024.0915

Green, E.T., Dell, A.I., Crawford, J.A, Biro, E.G., Daversa, D.R. 2024. Trait variation in patchy landscapes: Morphology of spotted salamanders (Ambystoma maculatum) varies more within ponds than between ponds. *Plos One*. https://doi.org/10.1371/journal.pone.0299101

In revision
Green, E.T., Heckman, R.W., Mitchell, C.E. Amplification of disease by nutrient addition: Testing mechanisms from individual to community levels. *Ecology.*

In prep
Green, E.T. and R.A. Schomer. Infection-induced changes in root exudates reduce chemotactic attraction of plant pathogenic *Ralstonia*. *Phytopathology.*

CONTRIBUTED PRESENTATIONS

***Indicates high school or undergraduate student**

Klishina, P.V.*, *Green, E.T.*, Schomer, R.A. 2026. The role of *cheY* in chemotaxis and biofilm formation in *Ralstonia solanacearum*. Department of Chemistry and Biochemistry Undergraduate Research Symposium. Tucson, AZ. (Poster presentation, Best Poster 2nd Place)

Green, E.T., and R.A. Schomer. Healthy and diseased soils: Identifying root exudate signals of plant pathogenic *Ralstonia* infection. 2026. Gordon Research Conference: Signaling Transduction in Microorganisms. Ventura, CA. (Poster presentation)

Green, E.T., Carbone, I., Mitchell, C.E. Phyllosphere fungal microbiome increases in diversity across the growing season. 2024. New Phytologists Next Generation Scientists. Durham, NC. (Poster presentation)

Mitchell, C.E., *Green, E.T.*, Grunberg, R.L., Halliday, F.W. O'Keeffe, K.R, Troy, S.E., Umbanhower, J. Scaling up from within-host microbial interactions to seasonal disease epidemics. 2023. Ecological Society of America. Portland, OR. (Oral presentation)

Morgan, E.*, Harper, N.*, Grunberg, R.L., *Green, E.T.*, Mitchell, C.E. 2023. Is the grass always greener on the other side: interactions between disease spread and nutrient supply in tall fescue. Helminthological Society of Washington, Washington, DC. (Oral presentation, Best Undergraduate Presentation)

Green, E.T. 2023. Order of arrival and coinfection. UNC Department of Biology Lunch Bunch Seminar Series, Chapel Hill, NC. (Oral presentation)

Osborne, C.*, *Green, E.T.*, Grunberg, R.L., Stiver, I., Mitchell, C.E. 2022. Priority Effects of Fungal Pathogens in Vitro. WinSPIRE Symposium, Chapel Hill, NC. (Poster presentation)

MENTORSHIP

Polina Klishina University of Arizona	Tucson, AZ 2025-2026
Sejal Chakraraj University of North Carolina at Chapel Hill	Chapel Hill, NC Fall 2022
Carden Osborne Research Triangle High School	Chapel Hill, NC Summer 2022
Meredith Stroud University of North Carolina at Chapel Hill	Chapel Hill, NC Spring 2022

SERVICE AND OUTREACH

Review Panel Member Postdoctoral Research Development Grants	Tucson, AZ 2026
Ad hoc Reviewer American Naturalist, Cell Host and Microbe, Proceedings B	2023-present
Science City: Microbe Detective Tucson Festival of Books	Tucson, AZ 2025, 2026
Treasurer UNC Biology Graduate Student Association	Chapel Hill, NC 2021-2022
WinSPIRE Invited Talk Women in Science Promoting Inclusion in Research Experiences	Chapel Hill, NC 2021
Field Trip Friday: Fescue Fungal Ecology Museum of Life and Science	Durham, NC 2020

HONORS AND AWARDS

Gordon and Betty Moore Foundation, $62,000	2026
University of Arizona Sursum Fellow, $875	2025
B4U University Mentoring, Bayer Crop Science	2025
W.C. Coker Fellowship in Botany, University of North Carolina, $11,000	2023
ImPACT Fellowship, University of North Carolina, $3,000	2023
NSF Graduate Research Fellowship, Honorable Mention	2020
Mrs. Louise Coker Fellowship, University of North Carolina, $10,500	2019
Summer Research Fellowship, NGRREC, $4,000	2016