

Julia R. Butler

Master's Candidate

University of Tennessee-Knoxville, Ecology and Evolutionary Biology Department
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FIELDS OF EXPERTISE

Botany, Bryology, Microbiology, Phylogenetics, Horticulture, Systematics, Evolutionary Biology, Ecology, Educational outreach, Natural History Collections, Field Work, Taxonomy.

EDUCATION

Masters in Ecology and Evolutionary Biology, *University of Tennessee – Knoxville (UTK)*. Aug. 2021- Present.

Major: Ecology and Evolutionary Biology. Advisor: Dr. Jessica Budke.

Bachelor of Arts, *Oberlin College of Arts and Sciences*. May 2019. Major: Biology (concentration in Botany),

Minor: Geology. Advisor: Dr. Roger Laushman.

AWARDS AND FUNDING

2022. The A. J. & Evelyn Sharp Fund: UTK, EEB Department, \$10,000

2019. Hope Hippard Memorial Scholarship, Oberlin College Biology Department, \$500

2018-2019. Dolores Taylor, MD '67 Scholarship, Oberlin College, \$1,000

2018. National Science Foundation (NSF) Research Experience for Undergraduates (REU), University of Florida (UF) Botany Department, Stuart McDaniel, Dimensions of Biodiversity: Broadening Participation, \$6,000.

2015. Scholarship for Young Language Leaders, Verona Area High School, \$250

SOFTWARE, COMPUTATIONAL, & BENCH SKILLS

R (statistical computing and graphics) – RAxML - MrBayes – MAFFT – Geneious – BLAST – Python – DNA Extraction – DNA Data Analysis – Aseptic Lab Techniques – GLP/GMP – Microbial Culturing and Quantification Techniques – Pipetting Techniques

WORK AND RESEARCH EXPERIENCE

September 2022–Present. *Microbiology Intern*. SiREM Knoxville, GeoSyntec. Supervisor: Sarah Cronk.

August 2021–Present. *Teaching Assistant*. University of Tennessee-Knoxville Ecology and Evolutionary Biology Department.

January 2020–February 2022. *Microbiology Technician*. Microbiology Department, Eurofins Food Integrity & Innovation.

August 2019–November 2020. *Research Associate*. College of Agriculture & Life Sciences, DeLeon Laboratory, University of Wisconsin-Madison.

May 2019–August 2019. *Laboratory Technician*. Department of Biology, Oberlin College, Supervisor: Angela Roles.

June 2018–August 2018. *NSF REU Student Research Assistant*. Department of Botany, University of Florida, Supervisor: Stuart McDaniel.

January 2018–February 2018. *Laboratory Assistant*. Department of Botany, University of Florida, Supervisor: Stuart McDaniel.

PUBLIC AND COMMUNITY OUTREACH

GLOBAL Transcription Weekly Workshops

Spring 2022

- Organized a recurring workshop, in collaboration with Miranda Zwingelberg, for citizen scientists to join the effort to transcribe thousands of digitized bryophyte herbarium specimens from all around the world.

Girl Scouts- Math and Science in Nature

Fall 2022

- Assisted with a germination experiment that scouts were then able to take home and collect their own data on. National Institute for Mathematical and Biological Synthesis (NIMBioS) event for Knoxville Girl Scout Troop 28005.

LANGUAGE SKILLS

Basic knowledge of written and spoken French.

PROFESSIONAL SOCIETIES

Member: American Society of Plant Taxonomists – Botanical Society of America – Ohio Moss and Lichen Association – American Bryological and Lichenological Society.