

Ashley Bonner

Mathematical Modeler & Environmental Researcher
Gainesville, FL 32601

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Education

University of Florida:

Current **Engineering School of Sustainable Infrastructure and Environment** *Gainesville, FL*
Pursuing a Ph.D. in Environmental Engineering Sciences 2022 –

University of Florida

Further graduate studies in Mathematics *Gainesville, FL*
2020 – 2022

West Virginia University

M.S. in Mathematics, Concentration in Pure Mathematics *Morgantown, WV*
2018 – 2020

St. Mary's College of Maryland

B.A. in Mathematics *St. Mary's City, MD*
2012 – 2015

Great Mills High School

High School Diploma, Concentration in Mathematics *Great Mills, MD*
2007-2011

Employment

Current **Graduate Research Assistant** 2022 – present
at University of Florida Phelps Lab, *Gainesville, FL*
Researching soil carbon models in a highly collaborative lab. Ran and participated in several research groups.

Graduate Teaching Assistant

2020 – 2022
at University of Florida, *Gainesville, FL*
Instructor for Calculus 3, Discussion Leader for Pre-calculus Algebra through Calculus 3.

Graduate Teaching Assistant

2018 – 2020
at West Virginia University, *Morgantown, WV*
Instructor for Pre-calculus Algebra classes. Recitation Leader for Calculus 1 courses.

Assistant Director

2017 – 2018
at Mathnasium, The Math Learning Center, *California, MD and Dunkirk, MD*
Developed learning plans for K-12 students in math, facilitated self-discovery in students, discussed student progress with guardians and teachers.

Equine Groom/Rider

2017
at Will Coleman Equestrian, *Ocala, FL and Gordonsville, VA*
Assisted in care and athletic conditioning of top-level equine athletes in an Olympic program.
Meticulous attention to detail and successful teamwork integral to success.

Instructor

2016
at Mathnasium, The Math Learning Center, *California, MD*
Instructed K-12 students in math.

Classroom Assistant

2013 – 2014

at St. Mary's College of Maryland Math Department, *St. Mary's City, MD*

Classroom Assistant for a proof-writing course and a Calculus I course. Duties included aiding lecture and in-class group work, assisting with grading, holding weekly review sessions.

Private Mathematics Tutor

2013 – 2014

at M.E.A. Music Services, *California, MD*

Private Tutor in math for clients ranging from 3rd grade to high school seniors.

Additional Training**Summer School in Nonlinear Dynamics for the Life Sciences with Applications to Neuroscience and Psychology**hosted by Centre de Recherches Mathématiques and NSERC-CREATE in Complex Dynamics at McGill University (Montreal), *Summer 2021***Graduate Student Instructor Peer-Mentoring Professional Development**hosted by West Virginia University by Dr. Jessica Deshler, *Spring 2020***Conferences***Presented at***The American Geophysical Union Annual Meeting**at Moscone Center, San Francisco, *December 2023*“Single-Pool Models Are Good Proxies for Mature Soil Carbon Systems,” *Poster**Presented at***The Ecological Forecasting Institute Unconference**at NEON, *June 2023*

“Is One Soil Carbon Pool Enough? First Order Linear Decay Model Structures,”

*Poster**Attended***American Mathematical Society Southeast Fall Sectional**at hosted by the Georgia Institute of Technology, *January 2023**Graduate student recruitment at***Joint Mathematics Meeting**at Colorado Convention Center, *January 2020**Graduate student recruitment at***Math Alliance's Field of Dreams**at hosted by Washington University in St. Louis, *November 2019**Attended***Joint Mathematics Meeting**at the Baltimore Convention Center, *January 2019**Attended***Mathematical Association of America MD-VA-DC Spring Sectional**at Roanoke College, *April 2015*

Attended

Mathematical Association of America Regional Undergraduate Mathematics Conference

at Towson University, *March 2015*

Attended

Mathematical Association of America MD-VA-DC Fall Sectional

at Bowie State University, *November 2014*

Volunteer Work

UF Graduate Mathematics Association, Treasurer, *May 2021 - July 2022*

WVU Association for Women in Mathematics Chapter, President, *Spring 2020*

Habitat for Humanity, *occasional weekends 2022-present*