

# ANTHONY W. BOWMAN

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## Education

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2022 - MSc. in Geography *in progress*, Department of Geography, Environment, & Spatial Sciences, Michigan State University, East Lansing, MI

2016-2020 BSc. in Biological Sciences - Ecology and Evolutionary Biology Concentration, Department of Ecology & Evolutionary Biology, University of Tennessee, Knoxville, TN

## Research Experience

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2019-2020 **Research Assistant**, Daniel Simberloff Laboratory, University of Tennessee, Knoxville, TN

- Conducted over 320 hours of behavioral observations toward a study of territoriality in green anole lizards (*A. carolinensis*) during phases of pre- and post-invasion by brown anoles (*A. sagrei*) in an enclosure setting.
- Assisted in maintaining, feeding, and transporting anole populations

## Work Experience

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Spring 2022 **Project Lead**, NASA DEVELOP National Program, Goddard – Maryland Node, Science Systems & Applications Inc. (SSAI)

- Oversaw and collaborated with team members to identify land use land cover (LULC) change and forest community type in Maine to support habitat restoration efforts for the Endangered Atlantic salmon (*Salmo salar*)
- Coordinated with partners and science advisors to develop targeted comparisons of Terra MODIS Land Surface Temperature and recorded stream temperature data

Fall 2021 **Participant**, NASA DEVELOP National Program, Fort Collins – CO Node, Science Systems Applications, Inc. (SSAI)

- Collaborated with team members to model habitat suitability for two invasive plant species in the Northeast US

- Created species risk maps to aid the National Park Service Northeast Invasive Plant Management Team resource allocation and decision making
- Developed experience using Google Earth Engine, R, and ArcGIS Pro to analyze and communicate NASA Earth Observation data

2019-2020 **Laboratory Assistant**, Microbiology Teaching Labs, Hesler Hall, University of Tennessee, Knoxville, TN

- Maintained and stocked laboratory equipment and teaching supplies
- Reagent and associated lab chemical stocking

2017-2018 **Greenhouse Assistant**, Hesler Hall, University of Tennessee, Knoxville, TN

- Received approximately 30 hours of training in botanical propagation
- Maintained and repotted various species of flora on a daily basis
- Conducted minor greenhouse maintenance, insecticide, and herbicide application
- Carried out weekly pest removal and mutualistic insect release within the greenhouses

### **Activities and Service**

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2020 **Undergraduate Panel Member**, Department of Ecology & Evolutionary Biology 10-Year Review, University of Tennessee, Knoxville, TN

- Provided feedback to review board on the strengths and weaknesses of the UT-Knoxville Ecology & Evolutionary Biology department from the undergraduate perspective

2016 **Volunteer**, Ignite Serves, University of Tennessee Chapter, Knoxville, TN

- Engaged in a cooperative outdoor garden installation in an East Knoxville community with limited access to fresh produce
- Attended leadership skills-building seminars and workshops

2019-2020 **Student**, Naturalist Club, University of Tennessee Chapter, Knoxville, TN

- Hosted the annual Darwin Day guest speaker Dr. Alan Templeton of Washington University (St. Louis) on a tour of Ijams Nature Center

## Training & Skills

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- 2021      **Professional GIS Certificate**, Department of Geography, Environment, and Spatial Sciences *onGEO* Professional GIS Certificate Program, Michigan State University, *East Lansing, Michigan*
- 2021      **Esri Academy Short Courses Completed**
- *Terrain Analysis Using ArcGIS Pro*
  - *Displaying Raster Data in ArcGIS*
  - *Getting Started with ArcGIS Pro*
  - *Suitability Modeling: An Introduction*

## Digital

- Basic R Statistical Programming Language
- Microsoft Office Suite
- ArcGIS Pro, ArcMap
- Adobe Illustrator
- Vistrails Software for Assisted Habitat Modeling
- Google Earth Engine

## Awards & Honors

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- 2019, 2020      Dean's List, University of Tennessee, Knoxville, TN
- 2016              The Volunteer Scholarship, University of Tennessee Knoxville
- 2016              William & Francis Turner Scholarship
- 2016              Joshua L. Bailey Scholarship
- 2016              Rank of Eagle Scout, Troop 114, Columbia, TN

## References

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**Dr. Jennifer Schweitzer** – Professor and Associate Head, Department of Ecology & Evolutionary Biology, University of Tennessee, *Knoxville, TN 37920*

Email: [Jen.schweitzer@utk.edu](mailto:Jen.schweitzer@utk.edu) Phone: (865)-974-0865

**Dr. Joe Bailey** – Assistant Professor and Chair of Undergraduate Affairs, Department of Ecology & Evolutionary Biology, University of Tennessee, *Knoxville, TN 37920*

Email: [jbaile29@utk.edu](mailto:jbaile29@utk.edu) Phone: (865)-974-2834

**Dr. Jordan Bush** – USGS National Climate Adaptation Center

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