

Emmy (Amelia) James

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EDUCATION

2028 Ph.D Ecology and Evolutionary Biology (anticipated)

University of Tennessee, Knoxville, TN

Relevant Coursework: Biometry, Core Ecology and Evolution, Special Topics in Animal Behavior, Animal Communication, Topics in Education, Theory, and Practice

2023 B.S. Ecology and Evolutionary Biology, *cum laude*

Yale University, New Haven, CT

Relevant Coursework: Evolutionary Biology, Wetlands Ecology, Bird Behavior, General Ecology, Invertebrates, Herpetology, Global Climate Change, Ichthyology, Observing and Measuring Behavior, Evolutionary Architects, Evolutionary Genetics, Phylogenetic Biology, Animal Physiology, Structural Geology, Earth Surface Processes

PRESENTATIONS

¹Talk; ²Poster

2024 ²James E, Muñoz MM. “Salamander Fight Club: Behavioral Plasticity in *Plethodon* Hybrids.” The Society for Integrative and Comparative Biology 2024; Seattle, WA. Abstract No: 398.

2023 ¹James E, Muñoz MM. “Salamander Fight Club: Behavioral Plasticity in *Plethodon* Hybrids.” Ecology and Evolutionary Biology Undergraduate Research Symposium. Yale University, New Haven, CT.

²James E, Bhullar BA, Muñoz MM, Camarillo H. “Lunging as a Possible Compensatory Mechanism for Muscle-Powered Feeders within *Plethodontidae*.” The Society for Integrative and Comparative Biology 2023; Austin, TX. Abstract No: 1803.

¹James E, Muñoz MM. “Salamander Fight Club: Behavioral Plasticity in *Plethodon* Hybrids.” Timothy Dwight Mellon Forum, Yale University, New Haven, CT.

2022 ¹James E, Bhullar BA, Muñoz MM, Camarillo H. “Salamander Skeletal Structure.” Peabody Museum Internship Symposium. Yale University, New Haven, CT.

HONORS AND AWARDS

*Denotes monetary award

2024 *Elizabeth Adkins-Regan Award Finalist*, SICB Division of Animal Behavior

**Graduate Student Senate Travel Award*, UTK

- *Charlotte Mangum Award, SICB*
2023 cum laude, Yale University
**J. Wallace and Katie Dean Graduate Fellowship, UTK*
Karel Liem Award Finalist, SICB Division of Vertebrate Morphology
**Charlotte Mangum Award, SICB*
2022 **Peabody Internship Recipient, Yale University*
2019 **Yale Scholarship, Yale University*
International Baccalaureate Diploma, Rock Hill, SC
National Merit Finalist, National Merit Scholarship Corporation
Seal of Biliteracy, English and French, SC Department of Education

RESEARCH EXPERIENCE

Muñoz Lab, Yale University

Senior Thesis Researcher, September 2022-May 2023

- Developed and implemented an original experimental design focusing on the effects of heat on animal behavior and physiology under Dr. Martha Muñoz
- Wrote and submitted an IACUC protocol
- Recorded, reviewed, and coded over 14 hours of video footage

Undergraduate Research Assistant, August 2021-August 2022

- Provided research assistance to physiology projects in the lab (including water loss rate and metabolic rate experiments) by preparing salamanders for trials and monitoring the respirometer during runs
- Assumed husbandry responsibilities of terrestrial salamanders
- Attended weekly lab meetings and provided general feedback for upcoming presentations, interviews, and publications

Peabody Museum, Yale University

Peabody Intern, May 2022-July 2022

- Designed and executed an original research project jointly between the Peabody Collections, the Bhullar Lab of Vertebrate Paleontology, and the Muñoz Lab
- Used CT scans to segment pectoral girdles of lungless salamanders
- Developed proficiency in geometric morphometrics and phylogenetic analysis in R

TEACHING EXPERIENCE

General Biology (BIOL 101/102), University of Tennessee Knoxville

Graduate Teaching Assistant, August 2023-Present

- Created and delivered weekly lectures to ~70 students
- Provided hands-on and individualized instruction to all students, serving as the primary facilitator and point-of-contact for students in the lab
- Graded student assessments and provided feedback in a timely manner

Bearden Middle School Science Olympiad, Knoxville, TN

Ecology Coach, October 2023-Present

- Provided weekly instruction to students on core concepts in Ecology, Evolution, and Environmental Science
- Developed activities and assessments to prepare students for Olympiad meets
- Acted as the primary instructor for all students competing in Ecology events

Yale Education Tutoring Initiative, Yale University

Tutor, August 2021-May 2023

- Worked one-on-one with high school students weekly to practice writing and math skills, prepare for tests, and develop study habits
- Created lesson plans for tutoring sessions by outlining key concepts and developing practice problems for students

OUTREACH EVENTS

2024 Darwin Day, UTK and the McClung Museum

2023 Girl Scouts Math in Nature, UTK
Rocky Top BioBlitz, UTK and Discover Life in America

WORKSHOPS AND TRAINING

2024 *Giving Feedback Well - Creating Safe Dialogue*, Ombuds, UTK

FLIR Thermal Imaging Workshop, Juan Zuluaga, UNCW

Brevity in Writing, Stephen Heard, UTK Darwin Day

2023 *Teaching and Advising with Heart*, Roel Snieder, Colorado School of Mines

Evidence-Based Teaching Strategies, GTA Training, UTK

EMPLOYMENT EXPERIENCE

Office of Gender and Campus Culture (OGCC), Yale University

Project Coordinator, August 2022-May 2023

- Led project teams of 10-20 undergraduates with the goal of designing, planning, and implementing campus-wide interventions
- Guided training sessions for undergraduates within the OGCC
- Served as liaison between the Title IX office and undergraduates, meeting with office staff weekly throughout the year to implement new program initiatives and manage the day-to-day operations of the OGCC

Communication and Consent Educator, January 2020-May 2023

- Served on a team of undergraduates to foster a more positive sexual and social campus climate, receiving approximately 70 hours of harm reduction training annually
- Shared concrete skills for preventing and reducing sexual misconduct
- Facilitated Title IX training for Yale undergraduates in the form of interactive workshops on sexual consent and bystander intervention
- Designed and initiated interventions to analyze and improve the social climate of Yale's campus, namely within campus religious spaces, performance groups, residential colleges, and among off-campus students during the COVID-19 pandemic

Campus Scenes, Rock Hill, SC

Technical Advisor, June 2023-August 2023

- Handled customer interactions at art festivals by communicating with up to 500 customers daily, presenting products to buyers, and managing transactions
- Maintained the digital presence for the company through the monitoring of social media and digital marketplace accounts (Etsy, Amazon Marketplace)

PHOTOGRAPHY

2024 *SICB Photojournalist*

2023 *Inside the Lab: The People of Yale's Ecology and Evolutionary Biology Department Graduation Photographer (Janice Dean)*

SKILLS

- DSLR and Mirrorless Photography
- RStudio for statistical, phylogenetic, geometric morphometric, and genetic analysis
- Graphic Design using Adobe Creative Suite (Illustrator, Photoshop, Lightroom) and Procreate
- VGStudio for CT scan segmentation