Emily Jolly

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I. EDUCATION

Degrees

University of Maryland Center for Environmental Science, *Baltimore, MD* Started: 08/2022
Degree: Doctor of Philosophy GPA: 4.000
Advisor: Dr. Allen Place
Major: Marine, Estuarine, and Environmental Science

University of Pittsburgh, *Pittsburgh, PA* Graduated: 04/2022
Degree: Bachelor of Science GPA: 3.952
Major: Biological Sciences
Minors: Applied Statistics, Chemistry, and French

Honors and Awards

University of Maryland Dean's Fellowship Recipient, University of Maryland 08/2022
- Received $10,000 as an incoming doctoral student for the 2022-2023 school year.

Dietrich School Dean's Scholar Award Recipient, University of Pittsburgh 04/2022
- This award was established to recognize seniors who exemplify high scholarship, character, and devotion to the ideals of the University of Pittsburgh.

Emma W. Locke Memorial Award Finalist, University of Pittsburgh 04/2022
- One undergraduate winner is chosen by a committee from among nominees selected by the deans of the undergraduate schools. I was selected to represent the Dietrich School of Arts and Sciences. The award recognizes high scholarship, character, leadership, and devotion to the ideals of the University of Pittsburgh.

Graduated with Honors-Joint Degree from the University Honors College, University of Pittsburgh 04/2022
- Students who are awarded the Honors Joint degree must complete at least 18 credits worth of honors courses, complete 6 experiential learning credits, complete the honors outside the classroom curriculum (OCC) requirements, and maintain a GPA of above a 3.25.

Graduated with Honors from the Department of Biological Sciences, University of Pittsburgh 04/2022
- Students who receive departmental honors from the Biological Sciences Departments must complete 6 research credits, must write a thesis based off of original research, must present their findings at a symposium, and must maintain a 3.25 GPA.

Dean's List, University of Pittsburgh 01/2019 - 04/2022
- Received Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, and Spring 2022 for high scholarship.

II. RESEARCH

Experiences

Place Lab, Institute of Marine and Environmental Technology 08/2022 - Present
Graduate Student Researcher

- Extracting and isolating metabolically active compounds from *Symbiodiniaceae* to understand their impact on photosynthetic mechanisms, host fitness, and maintenance of symbiosis.
- Measuring oxygen consumption and production of *Symbiodiniaceae* and other core dinoflagellates under various environmental conditions.

Richards-Zawacki Research Lab, University of Pittsburgh 08/2020 - 08/2022
Undergraduate Researcher

- Completed an honors undergraduate thesis on how *Batrachochytrium dendrobatidis* zoospore release changes with lifestage, habitat, and species in amphibians.

O'Brien Urology Research Center, University of Pittsburgh 01/2019 - 08/2020
Lab Assistant

- Studied the effects of aging on rats' renal-electrolyte system with the Birder Lab, centering focus on the bladder.
- Monitored the mobility of mice, as well as prepared, stained, and analyzed slide samples to determine the effects of drugs LM11A-31 and LM22B-10 on spinal cord contused mice.

Waksman Student Scholars Program, Rutgers University 09/2017 - 06/2018
Lab Student

- Sequenced and analyzed a region of DNA extracted from *Landoltia Punctata* (duckweed) using FinchTV and then published the results to NCBI.

Posters and Presentations

- **E. Jolly**, T. Bachvaroff, A. Place. "Life Without Chargaff's Rules: Thymine Dioxygenase as a Proposed Enzyme for the Synthesis of 5-Hydroxymethyl Uracil." *International Conference on Harmful Algae*. November 2023.
- **E. Jolly**, T. Bachvaroff, A. Place. "Using *Symbiodinium* as a Model for Dinoflagellate Genome Structure." *Gordon Research Conference: Mycotoxins and Phycotoxins*. June 2023.

Technical Competencies

- Programming: RStudio, Unix, Python, SAS
- Laboratory Skills: Animal handling, Cell culturing, Cell extractions, Radioactive material, Spectrophotometry, Hemolysis assays, Chromatography
- Field Work: Animal handling, HOBO loggers
- Languages: French

III. TEACHING AND MENTORSHIP

Work Experience

College of Computer, Math & Natural Sciences, College Park, MD 08/2023 - Present
Graduate Teaching Assistant

- Guided sections of Principles of Ecology and Evolution Lab by preparing pre-lab assignments and in-lab material. Also attended weekly prep meetings, held office hours, and graded assignments.

Department of Biological Sciences, Pittsburgh, PA 08/2020 - 04/2022
Undergraduate Teaching Assistant

- Facilitated group activities, held office hours, and prepared weekly assignments as an undergraduate teaching assistant for Dr. Candice Damiani's microbiology course.

Dietrich School of Arts and Sciences Study Lab, Pittsburgh, PA 08/2019 - 04/2022
Peer Tutor

- Met with students one on one by appointment as well as during scheduled walk-in hours to aid students in their understanding in a variety of biology, chemistry, and statistics material.
- Delivered presentations to incoming first-year students to enhance study skills and learning strategies.

Leadership and Volunteer Experience

Epsilon Eta Environmental Fraternity, *Service Chair*, University of Pittsburgh 09/2020 - 04/2022

- Organized service events with local organizations to help members meet the minimum eight hour service requirement each semester.

OCC Honors Society, *Member*, University of Pittsburgh 04/2020 - 04/2022

- Completed a prescribed collection of experiences, programs, and events that are designed to help students make the most of their collegiate experience. Competencies include civic and social engagement, leadership development, and career preparation.

Gamma Sigma Sigma Service Sorority, *Member,* University of Pittsburgh 01/2020 - 04/2022

- Completed 25 hours of service each semester by working with organizations that served the local Pittsburgh community.