

KATRINA GIAMBERTONE

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EDUCATION

Moss Landing Marine Laboratories/California State University, Monterey Bay - Monterey County, CA

M.S. Marine Science Candidate, Expected Graduation: May 2024

University of Delaware - Newark, DE

B.S. Wildlife Ecology and Conservation, Environmental Humanities Minor, Graduation: May 2021

PROFESSIONAL EXPERIENCE

Front Desk Student Assistant, Feb 2022 – Present

Moss Landing Marine Laboratories - Moss Landing, CA

- Provide general clerical services for MLML students, faculty, and staff.
- Manage an administrative email.
- Maintain organization in multiple facilities within the main building.

Discussion Leader, Jan 2022 – Present

California State University, Monterey Bay's Department of Biology & Chemistry - Seaside, CA

- Instruct a discussion section of BIO211 (Ecology, Evolution, Biodiversity and Plants).
- Administer and evaluate responses to in-class worksheets and discussions.
- Maintain and submit student records (i.e. grades).
- Evaluate and report topics challenging students based on in-class discussion.

Teaching Assistant, Aug 2021 – Dec 2021

California State University, Monterey Bay's Department of Biology & Chemistry - Seaside, CA

- Attend lecture for BIO211 (Ecology, Evolution, Biodiversity and Plants).
- Read and evaluate weekly homeworks and exam essay questions for all sections of BIO211.
- Maintain and submit student records (i.e. grades).
- Evaluate and report topics challenging students based on submitted assignments.

Peer Mentor, Aug 2019 – May 2021

Interdisciplinary Science Learning Laboratories at the University of Delaware - Newark, DE

- Attend all lectures for the courses BISC207 (Introductory Biology I) and BISC208 (Introductory Biology II).
- Facilitate discussion during group work in classes of 60-120 students and answer questions regarding molecular biology, physiology, genetics, and ecology.
- Use active learning techniques to explain difficult biological concepts to students in a comprehensible manner.
- Rotate office hours with fellow Peer Mentors and meet weekly with our supervisor to assess student comprehension and make adjustments to our approach for student engagement.
- Proctor exams and hold review sessions for students before quizzes, exams, and finals.

RESEARCH EXPERIENCE

Mechanistic Underpinnings of Galápagos Coral Thermal Tolerance Project Participant, Jan 2022 – Present

MSCI530 Course at California State University, Monterey Bay - Seaside, CA

- Prepare *Pocillopora* samples prior to class.
- Perform RNA extractions on *Pocillopora* coral samples using a Qiagen RNeasy Mini Kit in class and assess quality/quantity of RNA using Gel Electrophoresis, Nanodrop Spectrometer, and Qubit
- Troubleshoot the probability of obtaining high quality/quantities of RNA from heat and cold-stressed samples prior to class.

REU Student, Jun 2021 – Aug 2021

CSUMB's Monterey Bay Regional Ocean Science Research Experience for Undergraduates Program - Virtual

- Summer 2020: Participate in weekly workshops that advanced my understanding and engagement in topics such as scientific writing, environmental leadership, presenting research, geoscience conferences, and coding.
- Summer 2021: Engage in research training and conduct an [independent research project](#) in the Palumbi Lab of Hopkins Marine Station.

Aquatic Ecology Research Project Participant, May 2019

BISC208/CHEM108 Integrated Introductory Biology Course at the University of Delaware - Newark, DE

- Perform an ecological study of three river sites found on the University of Delaware campus.
- Use biological, chemical, and/or physical characteristics of the lotic ecosystems to co-develop and test a hypothesis.
- Collect data and samples relevant to our hypothesis at each site for field and laboratory analysis.
- Form conclusions based on our hypothesis and present findings as a poster to peers and faculty.

Study Abroad Biological Sciences Program Participant, Jan 2019 – Feb 2019

University of Delaware's 2019 Winter Hawaii Biological Sciences Program - Oahu and Kailua Kona, HI

- Identify fish species present at multiple reef sites during snorkeling expeditions; estimate the abundance of each species.
- Collaborate with peers to produce comprehensive estimates of species richness and abundance.
- Calculate an alpha diversity estimate for each site using Simpson's Diversity Index and beta diversity estimates between sites using Sorensen's Coefficient of Community Similarity.
- Form conclusions based on observations at each site and the estimated diversity values.

SKILLS

- Familiar with manipulating, analyzing, and exporting data with tidyverse in RStudio; proficient in using ggplot2 to create appropriate plots for large datasets.
- Skilled in using Microsoft Excel, particularly in reference to organizing population data to produce life tables and analyze population dynamics.
- Skilled in using LabQuest 2 to analyze water quality based on pH, dissolved oxygen, temperature, and salinity.

AWARDS & HONORS

- University of Delaware's Undergraduate Senior Scholar in Agriculture and Natural Resources (2021): presented to the student(s) holding the highest cumulative grade point average in their class.
- University of Delaware's Entomology and Wildlife Ecology Dale F. Bray Award: presented to the student(s) holding the highest cumulative grade point average in the department.
- University of Delaware's Dean's List (Fall 2017, 2018, 2019, 2020 and Spring 2018, 2019, 2020, 2021): awarded to full-time students with grade point averages of 3.33 or above (on a 4.0 scale) for the semester.
- UD Trustee Scholarship (Fall 2017, 2018, 2019, 2020 and Spring 2018, 2019, 2020, 2021): granted to students who have been admitted into the school and shown great academic merit.
- University of Delaware's General Honors Award (2019): recognizes a student's pursuit of Honors curriculum and enrichment opportunities during the first two years of university study.