**First Name Last Name**

| City, Zip | Email | Phone number | website (e.g. LinkedIn) |
| --- | --- | --- | --- |



**Example Qualifications/Summary (Recommended, do not include title in CV):**

NIH MARC U\*STAR (T34 funded) trainee with experience in *computational biology* studying *adaptive microbial eukaryotes and pathogenic bacteria* committed to pursuing a Ph.D. in the biomedical sciences.

**Education**

University of Rhode Island, Kingston, Rhode Island Expected May 2022

Major: Cell and Molecular Biology with a concentration in Microbiology

Minors: Mathematics and Data Science GPA: 3.85

GRE (or MCAT) scores (optional)

Verbal: | Math: | Analytical Writing:

**Research Experience**

**Undergraduate Research Assistant** 09/21-Present

Dr. Ying Zhang Lab, University of Rhode Island, Kingston, RI

The Zhang lab studies the adaptation of marine microbes to environmental conditions using primarily computational genomic sequence analysis. During my time in the Zhang lab I participated in several research projects, described further below.

**Project #1:** Foraminifera are essential microorganisms for biogeochemical cycling. Our team used these organisms to investigate the impacts of thin layer sediment placement as a climate change remediation effort on microbial communities. In this project, we used microscopy and genome assembly methods to study the *Haynesina orbiculare* species, a resident of Narragansett bay*.*

*Methods*: DNA extraction, marine sediment core sample collection, SEM, Confocal, Opera Phenix, and dissecting microscopy, PCR, 18S sequence analysis

**Outreach and Academic Service**

Academic Enhancement Center; *Junior Lead Tutor, Tutoring Mentor, STEM Tutor* 09/21-Present

* Liase between AEC administrative staff and tutors from the biology cohort
* Plan and facilitate subject-specific monthly cohort meeting
* Mentor first-time tutoring professionals to ensure preparedness for future tutoring appointments

**Professional Development and Training**

**Responsible Conduct of Research Training**

University of Rhode Island 06/20-Present

Introduction to Lab Safety, Rigor and Reproducibility Training, Initial Lab Safety Virtual Training Module, Hazardous Waste Management Online Training Module, Bloodborne Pathogen Online Training Module

University of California San Diego 05/21-08/21

Annual Laboratory Hazards Training, Biosafety: Bloodborne Pathogens Training and Annual Refresher, UC Laboratory Safety Fundamentals, Biosafety: Recombinant and Synthetic Nucleic Acids, COVID-19 Return to Work

**Leadership, Fellowship and Awards**

University of Rhode Island, MARC U\*STAR Trainee June 2021-Present

(ABRCMS, SACNAS, etc.)

**Oral Presentations**

**Billings, E.**, Rivera-Chávez, F. Examining the Role of Glycerol 3-Phosphate Metabolism in Vibrio cholerae During Cholera Toxin-Mediated Disease. Lightning talk delivered at the Virtual Northeast Regional IDeA Conference. August 2021.

View: <https://youtu.be/Q8TzWfidKWg?t=1341>

**Poster Presentations**

**Billings, E.**, Powers, C., Gomaa, F., Utter, D. R., Bernhard, J. M., Zhang, Y. Building an Inventory of Metabolic Function in the Peroxisome of Benthic Foraminifera. Virtual poster presentation delivered at the 11th Annual Biomedical Research Conference for Minority Students. Abstract EPCOM-328 November 2020.

Abstract: <https://www.abstractsonline.com/pp8/#!/9244/presentation/2949>

**Broader Impacts (optional)**

Volunteering at marine science institutions has allowed me to speak with many people over the course of five years about the complex interactions that occur between marine organisms and their environment, the ocean. It has also given me the opportunity to educate the public about climate change and the solutions that scientific research has generated to solve these problems. Both institutions where I have volunteered time cater to low-income and minority schools by providing free admission for school field trips and programs curated for educating a diverse array of students.

**Certifications and Skills:**

*Note: Subheadings can be used here, e.g.* Research Skills, Laboratory Skills, Computational Skills, Language, *etc. Consider whether you are a beginner vs. intermediate or advanced in the skills listed. How would you respond if someone asked you about a skill or technique listed?*

AAUS scientific diver. Institution CSUMB. Instructor Dr. James Lindholm. DSO Frank Degnan

Proficient in: Cloud Computing, SSH, UNIX, Python, R, Excel, Adobe CC, Microsoft Office.