

# Moriah Kunes

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## EDUCATION

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### University of Rochester

*Bachelor of Science in Ecology and Evolutionary Biology*  
*Minor in Environmental Geology*

- GPA 3.68 out of 4.00

**Rochester, NY**

*May 2020*

### Princeton University

*Geoscience PhD Program*  
*Bess Ward Lab*

**Princeton, NJ**

*August 2020-Present*

## AWARDS, HONORS, AND SCHOLARSHIPS

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- Bausch & Lomb Scholarship *Fall 2016-Spring 2020*
- M. Herbert Eisenhart Scholarship *Fall 2016-Spring 2020*
- New York Excellence Scholarship *Fall 2016-Spring 2020*
- New York State Achievement & Investment Scholarship *Fall 2016-Spring 2020*
- Dean's List: 7 of 8 eligible semesters *Fall 2016-Spring 2020*
- GCURS (Gulf Coast Undergraduate Research Symposium) Presenter Award *November 2019*
- University Athletic Association All-Academic *2018 & 2019 & 2020*

## RESEARCH EXPERIENCE

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### University of Rochester

*Ocean Biochemistry Research*

**Rochester, NY**

*Spring 2020 Semester*

- Developed a scientific hypothesis related to modern oceanographic biogeochemical processes
- Created experimental plans within a formulated written research proposal that was presented and evaluated based on NSF committee guidelines
- Planned to embark on a two-week research expedition at sea during the summer of 2020 collecting data and carrying out experiments outlined in the written research proposal (cruise was unfortunately cancelled due to COVID 19)

### Bigelow Laboratory for Ocean Sciences

*REU Intern*

**East Boothbay, ME**

*May 2019-August 2019*

- Determined the grazing rates of microzooplankton using flow cytometry
- Used an FRRF (FastPro8) to determine the photosynthetic efficiency of phytoplankton
- Ran 5 natural water experiments to compare to different methods to determine grazing rates
- Created and gave 10-minute poster presentation on findings

## SELECTED RELEVANT COURSEWORK AND LABS

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### University of Rochester

*Ecology and Evolutionary Biology Lab*

**Rochester, NY**

*Fall 2019 Semester*

- Completed a final independent research project that involves the following: an initial written proposal, a presentation to the class of your hypothesis, an experimental design and anticipated results write up, data collection, and a 10-minute final scientific talk about your results
- Gained experience using field and lab methods utilized in ecology and evolutionary biology including; proficiency in relevant computer applications, critiquing published scientific studies, writing scientific reports, and presenting scientific results

*A Climate Change Perspective on Chemical Oceanography*

*Fall 2019 Semester*

- Covered a variety of topics relating to chemical oceanography including salinity, marine nutrients, dissolved gases, organic constituents, ocean acidification, and the carbon dioxide and inorganic carbon chemistry

*Selected Labs**Fall 2016-Present*

- Principles of Biology Lab II, Principles of Genetics Lab, Chemical Concepts Lab I&II, Organic Chemistry Lab, Environmental Science Lab, Hydrology Lab

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### TEACHING EXPERIENCE

#### University of Rochester

Rochester, NY

##### *Animal Behavior TA*

*Fall 2019 Semester*

- Grade homework, tests, and quizzes for 30 undergraduate students
- Teach a 75-minute recitation (workshop) once a week to reinforce ideas taught during lecture
- Create test questions and hold my own office hours when students reach out for extra help

### STUDENT EMPLOYMENT

#### Robert B. Goergen Athletic Center [U of R]

Rochester, NY

##### *Team Leader & Event Specialist*

*October 2016 – May 2020*

- Manage building managers (28) including my own mini team (4)
- Oversee the set up and take down of special events held in the facility
- Help patrons with various issues and ensuring their safety
- Sell memberships, lockers, and guest passes

### CAMPUS LEADERSHIP ACTIVITIES

#### Women's Varsity Basketball Team Member at U of R

Rochester, NY

##### *Player*

*August 2016 – May 2020*

- NCAA Tournament 2017 & Elite 8 2018
- Camp Counselor/Coach for a middle school team during our annual week-long day camp
- In Season: 30 hours/week and four-day travel weekends; Out of Season: 18 hours/week

#### Golisano Children's Hospital Pediatric Allergy/Immunology

Rochester, NY

##### *Volunteer*

*October 2018 – May 2019*

- Played games or participated in fun activities with patients for 3.5 hours/week to make them feel more comfortable and give parents ample to rest

#### St. Sebastian Society at U of R

Rochester, NY

##### *Member*

*September 2016-Present*

- Varsity Student Athlete Club through the Interfaith Chapel at the Newman Community center
- Community service-based club, focused on getting involved in the Rochester Community
- Volunteer at local Nativity school through their tutoring and enrichment programs

### SKILLS

#### *Computer Skills:*

- Python Programming, Basic use of R (stats) Programming, Microsoft Office (including excel)

#### *Laboratory Skills:*

- Knowledge of lab techniques including gel electrophoresis, IR spectroscopy, crystallization, TLC analysis
- Demonstrated use of equipment, such as centrifuge, reflux condenser, pipette, separatory funnel, rotavapor
- Ability to follow detailed operating procedures and protocols with minimal supervision
- Highly experienced in Flow Cytometry (ZE5) and using a FRRF (FastPro8)