

Katherine Le

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EDUCATION

2019

University of California, Santa Barbara

Biological Sciences B.S.

LEADERSHIP AND WORK EXPERIENCE

2021-present

Science Programming & Technical Support Analyst

UCSB Bren School of Environmental Science & Management

- Collaborate with faculty and staff to launch the new Master of Environmental Data Science program
- Support a community of 500+ students and researchers in need of computing help
- Created opportunities outside of regular coursework for masters students to learn scientific programming skills

2019-2020

Field Technician, UCSB Earth Research Institute, Plumes & Blooms Cruise

Siegel lab – *Focus*: Oceanography, Carbon Cycling

- Executed monthly oceanographic surveys of the Santa Barbara Channel
- Collaborated with a team of 10 people to cast CTDs and collect marine samples for chemical analysis

2019

Laboratory Technician, *Advanced Research Projects Agency—Energy*, MARINER Project

Miller lab – *Focus*: Macroalgal Genetics, Macroalgae as Sustainable Energy Source

- Managed a team of 40 people – 10 on boat, 30 on land – to plant, harvest and process 2,500 genetically modified macroalgae for a genome wide association study
- Analyzed macroalgal samples for phenotypic data and chemical composition

2015-2019

Research Assistant, UCSB Marine Science Institute, Santa Barbara Coastal Long-Term Ecological Research

Reed lab, Burkepile lab – Focus: Community Ecology, Kelp Forest Dynamics, Data Science

- Implemented data management strategies to clean over 20 years of data collection
- Learned R and applied knowledge to find and report on trends in long-term datasets
- Assisted graduate students in field and laboratory data collection for their dissertation projects
- Trained and supervised over 60 new interns on laboratory safety and protocols

2016-2019

Research Assistant, UCSB Bren School of Environmental Science and Management

Melack lab – Focus: Biogeochemistry

- Gained valuable laboratory experience in analytical chemistry and extensive experience in fieldwork
- Applied for and received funding from multiple sources to pursue independent research questions
- Completed an undergraduate thesis on the role of pelagic zooplankton within kelp forest ecosystems

AWARDS AND PROJECTS

Nov 2019

Cary Institute of Ecosystem Studies Travel and Lodging Grant-----\$1,400

- Funding to lead workshop at Global Lakes Ecological Observatory Network (GLEON) 21 Conference

Nov 2019

Environmental Data Initiative Travel Grant----- \$1,000

- Funding to lead workshop at Global Lakes Ecological Observatory Network (GLEON) 21 Conference

Jun 2019

Environmental Data Initiative Summer Fellowship -----\$5,000

Deliverable: “*Decades of temperature and dissolved oxygen data from the depth of a pristine glacial lake*”

- Project leader: Katherine Le

May 2016

Smithsonian Scholar

—Jun 2019

UCSB- Smithsonian Scholars Program

- Participate in professional development workshops led by Smithsonian researchers

Sept 2018	UC Santa Barbara 2018-2019 Scholarship -----	\$16,000
Jan 2018	Worster 2018 Undergraduate Research Fellowship ----- Deliverable: <i>“Investigating Pelagic Zooplankton as a Source of Nutrients for Giant Kelp Forests”</i> ▪ Project leader: Katherine Le	\$5,400
Mar 2018	Coastal Fund 2018 Research Grant Recipient ----- Deliverable: <i>“Examining the Composition of Thomas Fire Debris Deposited on Goleta Beach and Its Persistence in Marine Ecosystems”</i> ▪ Project leader: Heili Lowman, PhD	\$250
Jul 2017	Coastal Fund 2017 Research Grant Recipient ----- Deliverable: <i>“Consumer-mediated Nutrient Cycling in Kelp Forests: identifying how consumer hotspots drive primary production in the Santa Barbara Channel”</i> ▪ Project leader: Joseph Peters, PhD Candidate	\$750
Jun 2017	San Rafael & Cheadle Center for Biodiversity and Ecological Restoration—Campus Point Restoration Project — <i>Project Leader</i> ▪ <u>Goal</u> : To get San Rafael Hall residents interested in restoration work by promoting on-campus restoration opportunities ▪ Led a team of 14 residents on an effort to replace invasive plants around Campus Point	
Sept 2015	UC Santa Barbara 2015-2016 Scholarship -----	\$16,000

OUTREACH

2018-2019	Teaching Assistant , A Tree of Knowledge Education Services
2016-2019	Outreach Volunteer , Santa Barbara Coastal Long-Term Ecological Research Group
2017-2019	Mentor , UCSB Mathematics Engineering Science Advancement (MESA) program
2017-2019	Mentor , UCSB Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) program
2016-2017	Environmental Awareness Chair , UCSB Residential Housing Association
2013-2015	Teaching Assistant , Kumon Learning Center