

LAUREN KASHIWABARA

Stockton, CA 95211 | l_kashiwabara@u.pacific.edu

RESEARCH INTERESTS

- Climate change
- Molecular physiology
- Marine mammals
- Marine debris

EDUCATION

Marine Science major with minors in Statistics and Mathematics

Dean's List in Fall 2016 and Fall 2019

Undergraduate Research Opportunities Center (UROC) Scholars Program: a competitive two-year program that engages students in mentored undergraduate research and prepares students for research-based graduate programs by promoting educational ownership, intellectual vibrancy, and scholarly identity

2014 GRAMMY® National Signature School Award: recorded as a flautist in Diamond Bar High School's wind ensemble

PROFESSIONAL EXPERIENCE

Goldbogen Laboratory, Student Researcher

Quantifying microplastic particle concentrations in the surface seawaters of the Monterey Bay Marine Sanctuary. Identified filtration activity in baleen whales by analyzing MatLab data from tagged whales.

Participant

An international workshop to formulate the next steps in understanding the fate, distribution, impacts, and technology development necessary to push the science.

Logan Laboratory, Student Researcher

Used transcriptomics and enzyme assays to understand the molecular and physiological effects of short-term extreme upwelling on juvenile gopher rockfish.

Laboratory Technician

Researched the effects of hypoxia and ocean acidification on gene expression in blue rockfish. Measured and recorded dissolved oxygen and pH levels of rockfish tanks. Counted rockfish larvae. Included general husbandry of rockfish. Dissected juvenile rockfish.

Phycology Laboratory, Student Researcher

Conducted research on *Pterygophora californica*'s biannual rings and their relation to sea surface temperature. Included microscopy and use of Image J Software.

Zacherl Laboratory, Marine Biology Laboratory Assistant

Recorded data and analyzed the effect of oysters on epiphyte coverage and growth of eelgrass.

**CALIFORNIA STATE UNIVERSITY,
MONTEREY BAY**
[2016-2020]

AWARDS

**HOPKINS MARINE STATION
of STANFORD UNIVERSITY**
Pacific Grove, CA
[January 2019-present]

**THE SCIENCE of MICROPLASTICS
in the WORLD OCEAN**
Woods Hole, MA
[October 2019]

**CALIFORNIA STATE UNIVERSITY,
MONTEREY BAY**
Seaside, CA
[June 2018-May 2020]

**NOAA NATIONAL MARINE
FISHERIES SERVICE**
Santa Cruz, CA
[January 2018-July 2018]

MOSS LANDING MARINE LABS
Moss Landing, CA
[Summer of 2017]

**CALIFORNIA STATE UNIVERSITY,
FULLERTON**
Fullerton, CA
[Summer of 2013]

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PRESENTATIONS

Microplastic concentrations in surface seawater of the Monterey Bay Marine National Marine Sanctuary

- Poster Presentations* • CSUMB Summer Symposium on August 9, 2019 in Seaside, CA.
• SACNAS Conference on November 1, 2019 in Honolulu, HI.
- Oral Presentation* • CSUMB Fall Showcase research competition on November 7, 2019 in Seaside, CA.

Service learning presentation for the #yesfilter campaign

- Oral Presentations* • Invited presentations to CSUMB Marine Science Service Learning students on October 22, 2019 and April 13, 2020.

Short-term effects of extreme upwelling on ventilation rates in juvenile gopher rockfish (*Sebastes carnatus*)

- Poster Presentations* • Western Society of Naturalists Conference in Tacoma, WA on November 11, 2018.
• CSUMB Summer Research Symposium on August 10, 2018.
- Oral Presentations* • CSU Research Competition as a CSUMB delegate on April 25, 2019 in Fullerton, CA.
• An invited presentation at the CSUMB Spring 2019 Showcase on April 12, 2019.
• CSUMB Fall Showcase research competition on November 2, 2018 and ranked second place.

Differences in *Pterygophora californica* stype ring morphology: Annual ring analysis and indications of environmental conditions presentation and short-term upwelling presentation

- Poster Presentations* • CSUMB Spring and Summer Showcases in 2017 and 2018.
• SACNAS Conference in Salt Lake City, UT on October 19, 2017.

VOLUNTEER/LEADERSHIP EXPERIENCE

UNDERGRADUATE RESEARCH OPPORTUNITIES CENTER Seaside, CA [Dec 2019-present]

Writing Fellow

Develops professional writing skills and plans with undergraduate students applying to summer research opportunities.

THE MARINE MAMMAL CENTER MBO Moss Landing, CA [2016-2020]

Volunteer

Worked in teams to rescue, rehabilitate, and release pinnipeds.

MARINE LIFE STUDIES [Spring 2019]

Service Learner

Logged cetacean data in the field and in the office. Developed plastics presentation for elementary school students.

MONTEREY BAY AQUARIUM: WATCH PROGRAM [2018-2019]

Volunteer

Mentored Watsonville-area high school students on research projects and posters.

RELEVANT COURSEWORK AND CERTIFICATIONS

SCUBA DIVING

NAUI Open Water Certified

COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE CERTIFICATES

Online certification course designed to train laboratory members in ethics

STATISTICS MINOR

Included experimental design, statistical analysis, and data visualization using R, Rstudio, and R markdown software

TRIMBLE GPS CERTIFICATION

Global positioning systems training using the Juno device and Trimble software