

# GRACE KUMAISHI

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## EDUCATION

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### **Master of Environmental Science and Management** (Expected June 2022)

*Bren School of Environmental Science and Management—University of California, Santa Barbara (UCSB)*

Specialization: Conservation Planning, Coastal Marine Resource Management

Highlighted coursework: Geographic Information Systems, Advanced Data Science, Earth System Science, Ecological Principles, Biogeochemistry

### **Bachelor of Science in Ecology, Behavior, and Evolution** (June 2017)

*University of California, Los Angeles (UCLA)*

Minor: Conservation Biology

Honors & Awards: Graduated with Departmental Honors; Holmes O. Miller Scholar for Field Research 2017

## RESEARCH EXPERIENCE

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### **Wildlife Technician** (4/20-8/20)

*Common Murre Restoration Project, Devil's Slide, CA*

- Monitored seabird productivity, attendance, and depredation at historic restoration site in Pacifica, California
- Recorded and reported anthropogenic disturbance events involving aircraft and watercraft to NOAA and USFWS
- Organized, entered, and proofed data collected over the field season using Microsoft Access and Excel

### **Farallon Program Research Intern** (4/29-3/20)

*Point Blue Conservation Science, Petaluma, CA*

- Lived and worked on Southeast Farallon Island (SEFI) during the entire breeding seabird season (April-August)
- Responsibilities on SEFI included banding adult seabirds and chicks, extracting birds from mist nets, resighting color and metal-banded birds, performing routine breed checks, surveying for cetaceans, data entry, field station maintenance, and crane operation
- Office responsibilities included managing large long-term data sets as well as conceptualizing and completing a capstone project that was presented at the Pacific Seabird Group (PSG) conference in February 2020

### **Marine Laboratory Intern** (9/17-1/19)

*Point Blue Conservation Science, Petaluma, CA*

- Processed California sea lion (*Zalophus californianus*) scat samples on Southeast Farallon Island (SEFI)
- Led and performed tucker trawls, hoop net tows, nutrient sampling, and phytoplankton tows on NOAA research cruises in local National Marine Sanctuaries
- Identified fish otoliths, scales, and cephalopod beaks from diet samples of the California least tern (*Sterna antillarum browni*) and Brandt's cormorant (*Phalacrocorax penicillatus*)
- Analyzed zooplankton samples for species composition of krill, decapods, mysids, and fish larvae
- Trained and supervised new laboratory interns and volunteers

## PRESENTATIONS

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- **Grace Kumaishi**, Pete Warzybok, Michael E. Johns. (2020) Pacific Seabird Group 47<sup>th</sup> Annual Meeting; Portland, Oregon. **Oral**. *Associations between annual changes in chick diet and breeding success of pigeon guillemots on Southeast Farallon Island*.

## SKILLS AND CERTIFICATIONS

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- Adept at presenting scientific research in both academic and public settings
- Proficient in R and R Studio, QGIS, ImageJ, and Microsoft Office Suite
- Confident working individually and in group environments
- Open water SCUBA certified (PADI)

## ADDITIONAL EXPERIENCE

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### Teaching Assistant (10/20-present)

**UC Santa Barbara**, Santa Barbara, CA

- EEMB 2LL: Introductory Biology Laboratory II
- ENV S 3: Introduction to the Social and Cultural Environment

### Table Volunteer (10/18-10/19)

**Oceans 360, Wildlife Conservation Network**, San Francisco, CA

- Expanded upon and discussed the main goal of Oceans 360 with expo attendees, which is to use underwater footage captured by divers to educate students who otherwise may not have the opportunity to experience marine ecosystems, and to encourage a diverse future generation of conservationists
- Demonstrated use of VR headsets and educated the public about threats facing the world's oceans

### Laboratory Research Assistant (7/17)

**UCLA, Department of Ecology and Evolutionary Biology**, Los Angeles, CA

- Extracted DNA from zebra tissue samples using the DNeasy Blood & Tissue Kit under guidance of Dr. Ren Larison

### Undergraduate Research Field Biology Quarter (4/17-6-17)

**UCLA, Department of Ecology and Evolutionary Biology**, Los Angeles, CA

- Designed and conducted cognitive experiment to examine the associative learning ability of the desert black swallowtail (*Papilio polyxenes coloro*) caterpillar in the East Mojave Desert
- Investigated behavioral lateralization and foraging behavior of the convergent lady beetle, *Hippodamia convergens*

### Undergraduate Research Assistant (4/16-3/17)

**UCLA, Department of Ecology and Evolutionary Biology**, Los Angeles, CA

- Assessed leaf traits at altitudinal gradients using the program ImageJ to measure the length and width of primary, secondary, and tertiary veins of leaves collected in 2015

### Undergraduate Research Field Biology Quarter (8/15-11/15)

**University of Queensland**, Brisbane, Australia

- Designed and conducted research experiment to examine how temperature affects the feeding patterns of intertidal crab *Metopograpsus frontalis*
- Utilized the Optimal Foraging Theory (OFT) to examine the algal foraging behavior of reef crab *Cyclodius unguates*

### Teaching Assistant & Office Administrator (6/13-8/16)

**Cabrillo College Extension**, Aptos, CA

- Assisted in summer classes for high school and middle school students; courses included Computer Building, Video Game Design, SAT Prep, Girls in Engineering, and Leadership
- Managed student registration and other office duties such as drafting procedures, proofreading course catalogues, and editing spreadsheets

### Exhibit Guide (3/11-4/13)

**Seymour Center at Long Marine Lab, UC Santa Cruz**, Santa Cruz, CA

- Presented research done at UCSC's Long Marine Lab as an Exhibit Guide and educated the public about environmental and conservation issues in the Monterey Bay
- Educated children and adults about the ecology of animals in touch tanks, shark tank, and aquaria