

KRISTIN ART

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EDUCATION

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Master of Environmental Science and Management 4.0 GPA (Expected 6/2024)

Specializations: Corporate Environmental Management, Energy and Climate

Highlighted Coursework: Business & the Environment, Life Cycle Assessment, Economics of Environmental Management, Energy Economics and Markets, Advanced Data Analysis, Computing for Environmental Science & Management, Environmental Modeling, Environmental Planning (to be completed by 6/24)

Involvement: Forest Sustainability Fellow, Teaching Assistant for Department of Ecology, Evolution, and Marine Biology (Introductory Genetics, Laboratory in Vertebrate Biology, Ecology, and Evolution)

University of Southern California (USC), Los Angeles, CA

Bachelor of Science in Biological Sciences, 3.69 GPA (12/2019)

Honors/Awards: *cum laude*, Dean's List (4 semesters)

Involvement: Fisher Fellowship Program (FFP) Grants and Funding Coordinator, FFP Benefactor Updates Coordinator, Cycling Club member, Rock Climbing Club member

ENVIRONMENTAL EXPERIENCE

San Francisco Estuary Institute, Richmond, CA

Environmental Analyst (1/20–8/22)

- Planned and oversaw 3 water quality research projects with annual budgets between \$100k – 450k.
- QAQC'd and analyzed environmental data in Python to inform wastewater management decisions.
- Coauthored 4 technical reports used to enhance research methodology and convey environmental trends.
- Coordinated 70+ boat-based field days to collect high-frequency water quality monitoring data.
- Supervised 2 undergraduate interns for 10 weeks in designing and executing a field experiment to quantify the flux of water quality constituents from restored salt ponds into San Francisco Bay.

USC Hutchins Laboratory, Los Angeles, CA

Marine and Environmental Biology Research Assistant (8/19–12/19)

- Investigated how environmental conditions contribute to harmful blooms of *Pseudo nitzschia multiseries*.
- Quantified growth and toxin production of laboratory phytoplankton through *in vivo* chlorophyll-a measurements, cell counts, and elemental analyses to understand future responses to climate change.

USC Levine Laboratory, Los Angeles, CA

Marine and Environmental Biology Research Assistant (8/18–12/19)

- Assessed the impact of temperature and salinity levels on the growth rate and dimethyl sulfoniopropionate production of the phytoplankton species *Emiliania huxleyi* and *Thalassiosira oceanica*.
- Sustained phytoplankton cell cultures, laboratory equipment, and Excel datasets.

Washington Department of Natural Resources (DNR), North Bend, WA

Public Outreach and Education Recreation and Conservation Intern (5/19–8/19)

- Corresponded with local partner organizations and the public at regional events, meetings, and trailheads to discuss and address community recreation and conservation challenges.
- Developed educational signage for an interpretive hiking trail in a Natural Resources Conservation Area.
- Improved recreational parks by maintaining trails and encouraging proper user etiquette.

ENVIRONMENTAL EXPERIENCE (Continued)

Center for Alaskan Coastal Studies, Homer, AK

Peterson Bay Field Station Naturalist (5/18–8/18)

- Educated school groups and tourists on the natural history and ecological function of Peterson Bay.
- Directed 7-day educational programs to encourage participants to prioritize environmental stewardship.
- Collected environmental data for the Kachemak Bay National Research Reserve used to inform studies on intertidal biodiversity, Sea Star Wasting Syndrome, harmful algal blooms, and water quality.

USC Young Scientists Program, Los Angeles, CA

Science Education Teaching Aide (8/17–12/18)

- Designed and delivered 150+ STEM lesson plans to local elementary classrooms of 15-25 students to encourage underprivileged youth to consider a future career in the sciences.
- Organized 8 specialized day-long science workshops for youth to develop expertise in specific subjects.

Generation Peace Academy, USA; Panama

Volunteer Team Leader (8/13–12/15)

- Coordinated fundraisers that raised over \$150,000 to conduct 8 international service projects.
- Participated in two 21-day service projects in Panama to implement a community recycling program in Casco Viejo, build a neighborhood playground, and fund a local orphanage.
- Managed and mentored teams of 4-5 youth to achieve fundraising goals and interpersonal growth.

Desert Research Institute, Reno, Nevada

Ecology Research Intern (8/12–12/12)

- Investigated the effect of changing levels of sea ice on Antarctic krill populations as part of the Sea Ice Mass Balance in the Antarctic (SIMBA) study, a multi-year monitoring project.
- Measured preserved krill specimen and compiled resulting data to create a population demography.

SKILLS & AFFILIATIONS

Computer: Python, R, GaBi (Life Cycle Assessment software), Qlik, HighCharts, Microsoft Office suite, G suite

Project Management: Supervision, Organization, Leadership, Teamwork, Problem-solving, Critical Thinking

Teaching: Curriculum Development, Lesson Plans, Classroom Education, Outdoor Education

Presentations:

- Ocean Sciences Meeting 2022
- Bay-Delta Science Conference 2021
- SFEI Nutrient Management Strategy (NMS) Steering Committee meetings
- SFEI NMS Planning Subcommittee meetings

Writing:

- Co-authored 4 technical reports for SFEI NMS
- Co-authored 2 manuscripts published in peer-reviewed journals *Estuaries and Coasts* and *New Phytologist*
- Developed internal Standard Operating Procedures for field and lab methods

Affiliations: Association of Environmental Professionals, Association for the Sciences of Limnology and Oceanography