

# SAVANNAH STURLA

ssturla@berkeley.edu | 925.594.9440

## EDUCATION

**B.S.** Environmental Sciences with Biological Sciences Concentration

Expected May 2021

**B.S.** Minor in Molecular Toxicology

*University of California, Berkeley*

## SUMMARY OF RESEARCH SKILLS

Project management, proposal writing, environmental modeling (ArcGIS), environmental toxicology laboratory skills, data analysis (R, Python, JMP, ImageJ), Institutional Review Board clearance, participant recruitment, semi-structured interviews, oral presentations, cost analysis

## RESEARCH INTERESTS

Environmental epidemiology, integrated toxicology, environmental monitoring, biomonitoring, sustainability, global change, environmental justice

## RELEVANT COURSEWORK

Chemical Structure and Reactivity, General Biology, Introductory Physics, Introduction to Probability and Statistics for Life Scientists, Environmental Health and Development, Quantitative Aspects of Global Environmental Problems, Computational Toxicology, Environmental Justice

## RESEARCH EXPERIENCE

**Air quality disparities and youth asthma in the San Francisco Bay Area**

Jan 2020 – Present

*University of California, Berkeley – Ronald E. McNair Scholars Program*

- Modeled spatiotemporal distribution of BEACO<sub>2</sub>N air pollution data in the Bay Area
- Analyzed air pollution and its relationship to ED visits due to asthma and other socioeconomic factors
- Interviewed parents/guardians or youth individuals about youth asthma and perceptions of health risks

**Coral cover and algae growth along a water quality gradient in Moorea, F.P.**

Sept 2019 – Dec 2019

*University of California, Berkeley – Environmental Science, Policy, and Management*

- Assessed barrier reef diversity of 15 coral genera, macroalgae cover and water quality across two bays
- Evaluated bleaching severity and stress-induced mucus production along survey sites
- Transplanted control and nutrient-treated coral fragments to observe bleaching tolerance in 5 field sites

**The effects of cigarette waste in the development in the White Sea Urchin**

June 2019 – Aug 2019

*University of California, Davis - Bodega Marine Laboratory*

- Examined impacts of chemical components of cigarette litter in intertidal zones on cell development
- Investigated dose responses and chemosensitization in spawned sea urchin and bat star embryos
- Executed fluorescent microscopy assays to explore multidrug resistance pathway response

## PUBLICATIONS & PRESENTATIONS

*Publications*

- “The Effects of Cigarette Waste on Development in the White Sea Urchin (*Lytechinus pictus*),” Bodega Marine Laboratory Cadet Hand Library, 2019

## Conference Presentations

- “Understanding and Predicting Groundwater Contamination at the Savannah River Site Using AI/ML,” American Geophysical Union, Fall Meeting 2020 (Under review)
- “Effects of air quality disparities on youth asthma in the San Francisco Bay Area,” UC Berkeley Ronald E. McNair Scholars Symposium, July 2020
- “Coral cover and algae growth along a water quality gradient in Moorea, French Polynesia,” Tropical Biology and Geomorphology Research Symposium, December 2020
- “The Effects of Cigarette Waste on Development in the White Sea Urchin (*Lytechinus pictus*),” Bodega Marine Laboratory Summer Research Symposium, August 2019

## AWARDS & HONORS

- Ronald E. McNair Scholars, 2020 - 2021, \$5000
- Bodega Marine Laboratory Ambassador, 2019 – 2020

## PROFESSIONAL AFFILIATIONS

- Association of Environmental Professionals, San Francisco Bay Area Chapter
- American Geophysical Union

## PROFESSIONAL EXPERIENCE

### Student Assistant

Jan 2020 – Present

*Lawrence Berkeley National Laboratory - Hydrogeology Department*

- Performed analysis investigating the mobility of radionuclide contamination in groundwater
- Crafted R and Python library to optimize visualizing historical time series across DOE sites
- Explored data to find relationships and patterns between concentrations and in-situ measured variables

### Student Extern

Jan 2020

*Solano County Department of Agriculture/Weights and Measures*

- Inspected parcels under the Pest Exclusion deputy to issue Phytosanitary Certificates
- Assisted with and engaged in a continuing education class by the Pesticide Use Enforcement program
- Surveyed plants at wholesome nurseries for Sudden Oak Death and invasive pests

### Brand Ambassador

Aug 2019 – Present

*Guayaki*

- Orchestrated distribution of products, promoting sustainable business model and rainforest regeneration
- Hosted PR booths and samplings at regional events, including TEDx and OMF Music Festival
- Coordinated sponsorships for on-campus organizations and arranged annual music events

### Sales Representative

April 2018 – Dec 2019

*Sea Citizen Marine Enterprises*

- Marketed for surfboard, surf apparel, and water sports gear start-up company based in Redondo, CA
- Promoted brand on university campus, sold products and organized orders on Excel
- Designed merchandise, tracked order receipts and managed communication for delivery

## COMMUNITY SERVICE & CAMPUS INVOLVEMENT

- **ASUC Department of Unsustainable Partnerships**, Campus Organizer, 2019 – Present

- **Students of Color Environmental Collective**, Member, 2020 – Present
- **Cal Hiking and Outdoor Adventure Society**, Member, 2017 – Present
- **ASUC Campaign Management Team**, Campus Organizer, 2019 – 2020
- **The Marine Mammal Center**, Topside Animal Care Crew, 2017 – 2019