

## **Bibi Renssen**

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### EDUCATION

#### **University of San Diego (USD)**

Bachelor of Arts in Environmental and Ocean Sciences

- Concentration: Marine Ecology
- Minor: Biology

San Diego, CA

May 2021

GPA: 3.62

#### **Florence University of the Arts**

- Study Abroad experience through USD

Florence, Italy

September 2019-December 2019

### RELEVANT UPPER LEVEL COURSEWORK

Microbiology

Invertebrate Zoology

Cell Physiology

Genetics

Biological Oceanography

Environmental Data Analysis

Research Applications in Environmental Sciences

Environmental Issues

Organic Chemistry

Geological Oceanography

### RESEARCH EXPERIENCE

**Coral and Tide Pool Microbial Ecology, Scripps Institution of Oceanography** October 2021-Present  
Post-Bac Intern; Advisor: Dr. Linda Wegley Kelly San Diego, CA

- Collect and process seawater and biological samples from diverse coastal marine environments (mainly coral reefs, tide pools, and kelp forests) for microbiology and water chemistry analysis
- Examine and compare microbial community dynamics and water chemistry spatiotemporally
- Perform basic lab management skills such as keeping an organized lab, managing inventory, and ordering new supplies as needed

**Foraminifera Community Variability, University of San Diego** June 2019-June 2021  
Undergraduate Researcher; Advisor: Dr. Sarah Gray San Diego, CA

- Monitor foraminifera community abundance and diversity for temporal and spatial variances off the coast of San Diego
- Sailed on three research cruises and collected and curated sediment samples
- Sieved, washed, dried and micro-split samples for microfossil preparation
- Developed a reference slide collection of benthic and planktonic Foraminifera
- Identified and determined the abundance and diversity of Foraminifera using a microscope
- Received Student Undergraduate Research Experience (SURE) Award to fund research project

**Shipboard Scientist and Student Leader, NSF GEOPATHS Research Cruises: *RV Oceanus*, *RV Sproul*, and *RV Sally Ride*** September 2021, July 2019, September 2018, and May 2018 respectively  
Co-scientists: Dr. Sarah Gray and Dr. Tony Rathburn San Diego, CA

- Used standard shipboard oceanographic instruments including multi-corers, gravity corers, Van Veen Grabs, plankton tows, CTD, XBT, and dissolved oxygen meters
- Maintained shipboard data logs
- Assisted with cruise preparation, loading and unloading, and sample organization
- Deck tasks included driving a winch, controlling A-frame, tag-lines, etc.
- Trained and supervised student crews of seven to ten members

**Metal Concentration Analysis using Bivalves, University of San Diego** January 2019-May 2019  
 Undergraduate Researcher; Advisors: Dr. Eric Cathcart and Dr. Steven Searcy San Diego, CA

- Analyzed metal concentrations in *Arcuatula senhousia* in Mission Bay, San Diego, applying global bivalve and metal concentration data to compare front bay to back bay conditions
- Inspected which environmental parameters impacted metal concentrations and distribution the most in estuarine environments in San Diego
- Collected and inspected samples by boat using oceanographic equipment including CTD, YSI Incorporated Pro DSS, Ekman Grab, LOI, LPS, XRF, and ICP-MS

**Coral Reef Surveying, Madagascar Research and Conservation Institute** February 2017-April 2017  
 Marine Conservation Volunteer; Advisor: Dr. Emma Bagnall Nosy Komba, Madagascar

- Identified and surveyed local sessile organisms along transect lines on the reef with SCUBA gear
- Built coral nurseries and surveyed fish populations and coral polyp resiliency daily as an analysis of nursery health in the new environment
- Prepared lesson plans on teams of three and co-taught English, ecology, and sustainable fishing practices to interested locals

PRESENTATION

**Spatiotemporal variability of foraminifera off the coast of San Diego, Oral Presentation, University of San Diego Senior Seminar Capstone, April 23, 2021, Virtual Conference**

AWARDS AND HONORS

**Dean’s “First Honors” Award** Spring 2019-Fall 2020  
**Departmental Honors Award** Spring 2020  
**Summer Undergraduate’s Research Experience (SURE) Scholarship** Summer 2019

PROFESSIONAL EXPERIENCE

**Bartender, Mermaids & Cowboys, San Diego, CA** October 2021-Present  
**Waitress, La Gran Terraza, USD, San Diego, CA** February 2018-March 2020  
**Marketing Intern, USD Office of Sustainability, San Diego, CA** September 2017-May 2018

MEMBERSHIPS

**Explorer’s Club** May 2017-Present  
**USD Gamma Phi Beta** January 2018-Present  
**San Diego Coral Club** April 2018-Present  
**USD Marine Science Club** September 2017-May 2021

SKILLS

- **Diving:** Certified Rescue Diver with over 200 dives on record including night, strong current, open wreck, and reef surveying dives in various water conditions
- **Equipment:** Leica S9i microscope, Bach-Coulter laser particle sorter, CTD, multicore, gravity corer, box corer, YSI multimeter, Thermo Scientific Orion turbidity meter, AqueousLab refractometer, Hach Pocket Pro pH meter, Ekman and Van Venn Grab, Plankton tow, GPS, DO meter, fluorometer
- **Field/lab:** Identification of various tropical sessile organisms, chromatography, Winkler titration, mass spectrometry methods, Loss on Ignition, X-ray fluorescence spectroscopy
- **Computer:** Microsoft Office suite, R Commander
- **Language:** Fluent in English and Dutch, Elementary Proficiency in Spanish