# Stephan A. Bitterwolf 303 Koshland Way, Santa Cruz, CA, 95064 <u>sbitterw@ucsc.edu</u> (831) 334-8639

Education	(631) 334-8639		
Present - Fall 2016	University of California, Santa Cruz Ocean Sciences (PhD) GPA: 3.93/4.0   Advisor: Dr. Michael Beck		
Fall 2017 - Fall 2014	Moss Landing Marine Laboratories Marine Science (M.S.) Physiological effects of nitrate, light, and intertidal position on the red Seaweeds <i>Mazzaella flaccida</i> and <i>Mazzaella splendens</i> . GPA: 3.96/4.0   Advisor: Dr. Michael Graham		
Spring 2013 - Fall 2009	University of the Virgin Islands Marine Biology (B.S.) Temporal comparison of coral disease and community structure in Brewers Bay, St. Thomas, USVI.		
Research Experience	GPA: 3.90/4.0   Advisor: Dr. Marilyn Brandt		
Sept. 2017 - June. 2017	<b>Graduate Researcher – NSF International Research Experiences for Students</b> Interuniversity Institute of Marine Sciences, Eilat, Israel Quantified zooxanthellae ( <i>Symbiodinium</i> ) cell densities and clade composition (A-D) in Eilat's corals, sand, and reef water via cell counts and genomic DNA quantification on qPCR instrument.		
Fall 2017 - Fall. 2014	Advisor: Dr. Mike Beck & Dr. Oren Levy <b>Graduate Researcher – NSF Graduate Research Fellowships Program</b> Moss Landing Marine Laboratories, Moss Landing, CA Conducted laboratory and field experiments to determine the effects nitrate concentration, light intensity, and intertidal position have on the size, survival, and pigment content of two intertidal seaweeds ( <i>Mazzaella flaccida</i> and <i>Mazzaella splendens</i> ).		
May. 2013 - Sept. 2011	<ul> <li>Advisor: Dr. Mike Graham, Dr. Nick Welschmeyer, &amp; Dr. Jason Smith</li> <li>Undergraduate Researcher – MARC Fellow</li> <li>University of the Virgin Islands, St. Thomas, USVI</li> <li>Conducted a temporal comparison of coral disease and community structure in Brewers Bay, St.</li> <li>Thomas, USVI between 1982 and 2012.</li> <li>Advisor: Dr. Marilyn Brandt</li> </ul>		
Summer 2012	Undergraduate Researcher – Summer Student Fellow Woods Hole Oceanographic Institution, Woods Hole, MA Utilized echosounder and CTD data to determine depth distribution and abundance of <i>Squalus</i> <i>acanthias</i> (Spiny Dogfish) in Massachusetts Bay over a four-year timespan (2008 – 2012). Advisor: Dr. Jesus Pineda & Dr. Victoria Starczak		
Summer 2011	Undergraduate Researcher – MARC Fellow Hawai`i Institute of Marine Biology (HIMB), Kane`ohe, HI Conducted a temporal comparison of coral disease and community structure around Coconut Island, HI after a genera-specific disease had decimated local coral populations.   Advisor: Dr. Greta Aeby & Dr. Marilyn Brandt		

Summer 2010

#### **Undergraduate Researcher – MIMES REU**

South Carolina Department of Natural Resources, Charleston, SC Conducted a life history update on the overfished Black Sea Bass by aging >1,000 otoliths, adding this data to a larger database, and performing statistical analyses. Advisor: Dr. Marcel Reichert & Dr. Joseph Ballenger

# **Teaching Experience**

Present - Aug. 2013	Science & Mathematics Tutor Santa Cruz, CA Instructing students in Algebra I & II, Statistics, and Life Sciences.
Summer 2013	<b>Participant, Science Teacher Enrichment Program</b> National Tropical Botanical Gardens, Kauai, HI Participated in daily lectures & laboratory exercises and designed inquiry based lesson plans.
Spring 2013 - Fall 2010	<b>Teaching Assistant, Science 100</b> University of the Virgin Islands Taught laboratory sessions on fundamental science principles, organized field trips, and graded exams.

## **Conferences Presentations**

2017	Oral presentation
	Phycological Society of America, Monterey, CA
	Physiological effects of nitrate, light, and intertidal position on the red Seaweeds Mazzaella flaccida and
	Mazzaella splendens.
2013	Oral presentation
	Benthic Ecology Meeting, Savannah, GA
	Coral community structure change of Brewers Bay, St. Thomas, USVI after a 30-year period.
2013	Poster presentation
	Association for the Sciences of Limnology & Oceanography Meeting, New Orleans, LA
	Abundance and vertical distribution of <u>Squalus acanthias</u> , Spiny Dogfish, at Stellwagen Bank: daily and
	interannual patterns from 2008 – 2012.
2012	Poster presentation
	Annual Biomedical Research Conference for Minority Students, San Jose, CA
	Coral community structure change of Brewers Bay, St. Thomas, USVI after a 30-year period.
2011	Poster presentation
	Annual Biomedical Research Conference for Minority Students, St. Louis, MO
	Coral disease prevalence of Coconut Island: a temporal study between 2007-2008 and 2011.
0	ach 8 Community Convice
Outrea	ach & Community Service

2017 – 2016	Educator at Expanding Your Horizons (Hartnell Community College)
2017 – 2016	Mentor of Community College Students (Moss Landing Marine Laboratories)
2017	Career Day Speaker on Marine Biology (Seaside Middle School)
2017 – 2014	Open House Seaweed Educator (Moss Landing Marine Laboratories)
2015 – 2014	Open House Advertising Committee Chair (Moss Landing Marine Laboratories)
2015 – 2014	Student Body Treasurer (Moss Landing Marine Laboratories)
2014	Career Day Speaker on Marine Biology (Harden Middle School)
2013 – 2011	Volunteer Fine Jewelry Instructor (Rare Earth Studio)

#### **Grants and Awards**

Jun. 2017	Communicating Oceanographic Research Effectively Outreach Award, UCSC
Apr. 2016	Myers Trust Fellowship, MLML
Apr. 2016	WAVE Award, MLML
Apr. 2015	NSF Graduate Research Fellowship
Jun. 2013	Science Teacher Enrichment Program Certificate, National Tropical Botanical Gardens
May 2013	Barnett Frank Class Award (male senior with the highest GPA)
May 2013	Outstanding Senior Award, Marine Biology Department, UVI
May 2013	Dean's Award, College of Science and Mathematics, UVI
Apr. 2012	1 <sup>st</sup> place, Spring Research Symposium, UVI
Nov. 2011	Outstanding Poster Award, ABRCMS National Meeting
May 2011	Minorities Access to Research Careers (MARC) Fellowship
May 2011	Barnett Frank Class Award (male sophomore with the highest GPA), UVI
Aug. 2010	LaVerne E. Ragster Scholarship, UVI

#### **Work Experience**

Aug. 2015 – Sep. 2014	Dive Boat Captain, Silver Prince Diving Charters, Monterey CA
Sep. 2014 – Jun. 2014	Dive Boat Captain, Z Tourz and Fathom Five, Kauai HI
Jan. 2014 – Nov. 2013	Sail Boat Captain, Tribal Day Sails, USVI
Jan. 2014 – Jan. 2007	First Mate and Naturalist, Vandor Day Charters, USVI

## Certifications

2017 Scientific Diver, UC Santa Cruz, CA

2013 US Coast Guard Master 100-ton, Captain School, USVI

- 2013 First Aid & CPR, Captains School, USVI
- 2009 Master Scuba Diver, SeaTrek, BVI

## Skills

Data Visualization & Statistical Software: JMP 10, ArcGIS, and Microsoft Office Suite Graphic Design: Adobe Photoshop, Adobe Illustrator, Adobe Indesign, and FinalCut Pro Programming Language: Java (Basic) and HTML