

Angela Richards Donà  
2620 E. Manoa Rd., Honolulu, HI 96822  
Tel: 718-812-0828  
angelard@hawaii.edu

Research Interests: Photobiology of the coral holobiont, histopathology and immunity of stony corals.

### Education

University of Hawaii at Manoa/Honolulu, HI Ph.D. student, Marine Biology. Advisor: Dr. Cynthia Hunter	in progress
Universidad Nacional Autónoma de México/Puerto Morelos, Quintana Roo, Mexico Light and Photosynthesis on Coral Reefs. Three-week course. Dr. Roberto Iglesias-Prieto	2014
School of Marine and Atmospheric Sciences, Stony Brook University/Stony Brook, NY M.Sc. in Marine and Atmospheric Science. Advisor: Dr. Gordon Taylor	2012
George Mason University/Fairfax, VA Advanced Course: Coral Tissue Slide Reading Workshop. Dr. Esther Peters	2010
Pace University/New York, NY M.Sc. Student, Environmental Science. Advisor: Dr. James Cervino (transferred to SoMAS in 2010)	2009
Mote Marine Laboratory, Tropical Research Laboratory/Summerland Key, FL Advanced Course: Diseases of Corals and Other Reef Organisms. Dr. Esther Peters	2008
CUNY - New York City College of Technology/New York, NY Undergraduate science pre-requisites	2008
Columbia University, Center for Environmental Research and Conservation/New York, NY Certificate, Conservation Biology	2007
Parsons School Of Design/New York, NY B.F.A. in Fashion Design	1993

### Professional Experience

Water Resources Research Center, University of Hawaii at Manoa/Honolulu, HI Research Assistant	Spring 2014 - present
Pacific Center for Environmental Studies (PaCES)–Windward Community College/Kaneohe, HI Guest Lecturer and Field Assistant for coral module	June 2013
University of Hawaii at Manoa/Honolulu, HI Teaching Assistant (TA) Introduction to Biology Lab - Bio 172L	Spring 2013
University of Hawaii at Manoa/Honolulu, HI Teaching Assistant (TA) Corals and Coral Reefs – Zool 410	Spring 2013
University of Hawaii at Manoa/Honolulu, HI Research Assistant	Fall 2012
Rainforest Alliance/New York, New York Communications Coordinator, Design and Production	2005 – 2010

Global Vision International/Sian Ka'an, Yucatan, Mexico Volunteer – Coral Reef Monitoring and Characterization Project	2003
The British School/Livorno, Italy English as a Second Language (ESL) Teacher	2000
Scuola 2F/Florence, Italy ESL Teacher and Teacher Group Leader (Capo Gruppo)	1998 - 2000
Pursuit of career in fashion design in New York and Italy	1994 -2003

### Professional Services

Graduate Women In Science (GWIS), Alpha Lambda Omega Chapter, Hawaii Treasurer	2013 - present
Graduate Student Organization (GSO) Marine Biology Student Representative	2014

### Research

PhD dissertation research Is it Good To Be Blue? Investigation Into the Functional Role of Chromoproteins in the Blue Stony Coral <i>Montipora flabellata</i>	In progress
<p>Research is focused on determining distribution and optimal habitat of <i>M. flabellata</i> in Kaneohe Bay. Will use histology to determine location of chromoproteins (CPs) in coral epithelia, and CPs will be extracted and characterized. Colonies of interest will be sampled and kept in flow-through system at Point Lab at HIMB. Blue-pigmented specimens will be shaded to reduce CP concentration and high and low CP concentration specimens will be challenged with increased seawater temperatures to determine CP role in thermal bleaching scenarios.</p>	
Coral Research Cruise, Micronesia Principal Investigator: Dr. Konrad Huguen, Woods Hole Oceanographic Institution	October 2012
<p>Participated in a month-long cruise aboard the M/Y Alucia to gather baseline information on colony distribution and size class of over 60 genera of Pacific hard and soft corals. Locations included Yap, Pohnpei, Kosrae, Olimarao, Nakuoro, Kapingamarangi, Woleai.</p>	
Master's thesis Investigation into Pathological Responses of Two Phenotypes of the Scleractinian coral, <i>Montastraea faveolata</i> , to Putative Marine <i>Vibrio</i> Pathogens	Completed 2012
<p>Corals of the genus <i>Montastraea</i> are particularly susceptible to disease in the Caribbean although not all colonies become infected on the same timescale. Exposure of two phenotypes of the coral <i>Montastraea faveolata</i> to potentially pathogenic marine bacteria and histological examination of the cellular and tissue responses, aim to determine whether a colony's vulnerability to infection is a function of its physiology.</p>	
Karpata dive site monitoring project	2007 - 2012
<p>Annual visit to Bonaire to monitor the health of <i>Montastraea</i> spp. coral colonies and record prevalence of Caribbean yellow band disease. At depths 5, 10, and 15 meters transects of up to 100 linear meters at each depth were covered and all <i>Montastraea</i> spp. colonies were recorded as "healthy" or diseased.</p>	

### Publications

Richards Donà, Angela. Investigation into pathological responses of two phenotypes of the Scleractinian coral, *Montastraea faveolata*, to putative marine *Vibrio* pathogens. M.Sc. Thesis. Stony Brook University, Stony Brook 2013. SUNY Digital Repository and Print.

Richards Donà A, Cervino JM, Goreau TJ, Bartels E, Huguen K, Smith GW, Donà A (2008) Coral Yellow Band Disease; current status in the Caribbean and links to new Indo-Pacific outbreaks. Proc. Intl. Coral Reef Symp. 1:239-243.

## Presentations

Pathological Responses of the Caribbean Coral *Montastraea faveolata* to Putative Marine *Vibrio* Pathogens  
Oral Presentation. March 19, 2014  
Hawaii Institute of Marine Biology (HIMB) Seminar

Diseases on Coral Reefs  
Oral presentation. March 17, 2014  
Corals and Coral Reefs course taught by Dr. Cynthia Hunter

Damaging Interactions Between the Coral Holobiont and Putative Bacterial Pathogens. Undetectable Until It Is Too Late  
Oral Presentation. March 13, 2014  
39<sup>th</sup> Annual Albert L. Tester Symposium. University of Hawaii at Manoa

Damaging Interactions Between the Coral Holobiont and Putative Bacterial Pathogens. Undetectable Until It Is Too Late  
Oral Presentation. February 26, 2014  
2014 Ocean Sciences Meeting. Session: 053 Coral Microbiology: Partners and Pathogens

Coral Reef Organisms  
Oral presentation. June 17, 2013  
PaCES – HIMB summer course for high school students. Windward Community College

Diseases on Coral Reefs  
Oral presentation. April 1, 2013  
Corals and Corals Reefs course taught by Dr. Cynthia Hunter

Master's thesis presentation  
Oral presentation. August 1, 2012  
Stony Brook University

Is That Coral Really Healthy? What Histology Can Tell Us About Corals That Lack Outward Signs Of Stress  
Oral Presentation. April 23, 2012.  
37<sup>th</sup> Eastern Fish Health Workshop. Spec. Session 4: As The Ocean Turns: How Environment Affects Coral Health

Coral Yellow Band Disease; current status in the Caribbean and links to new Indo-Pacific outbreaks  
Oral Presentation. July 9, 2008.  
11th International Coral Reef Symposium. Mini-symposia session 7 — Diseases on Coral Reefs

Coral yellow band disease: recent infections in the Indo-pacific likely to follow devastating trend in the Caribbean  
Poster Presentation. April 2, 2009.  
American Museum of Natural History, Center for Biodiversity and Conservation. Spring Symposium “Exploring the Dynamic Relationship Between Health and the Environment.”

## Skills

Photobiology – experience in use of spectrophotometer, Diving PAM  
Histology – sample and slide preparation and analysis  
Microbiology – training in techniques including epifluorescence microscopy and fluorescence in situ hybridization  
Field research – boat driving, underwater video and line transects, coral core collection, quadrat coral colony counts  
Computer programs – SQL Server/My SQL database, Adobe Design Suite, R (basic), JMP (beginner)  
Languages – English, Italian, Spanish (basic)  
SCUBA certifications – AAUS Scientific Diver, PADI Rescue Diver, SSI Nitrox Diver