

Alyson M. Allen
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Education

University of Miami, Rosenstiel School of Marine and Atmospheric Sciences (RSMAS) 2009- 2014

PhD Oceanography

Advisor: Dr. Chris Langdon
Committee members: Drs. Andreas Andersson (SCRIPS)
Martin Grosell
(RSMAS) Anthony
Hynes (RSMAS) Peter
Swart (RSMAS)

University of Rhode Island, Graduate School of Oceanography (GSO) 2007- 2009

Masters of Science, Oceanography

Advisor: Dr. Graham Forrester
Committee members: Drs. John Merrill (GSO)
Michael Q. E. Pilson (GSO)

Amherst College 2000-2004
Bachelors of Arts, Chemistry
GPA 11.0 on 14 scale (B+)

James Cook University, Townsville Australia Fall 2002
Received High Honor marks in 4 full credit courses including marine biology, marine geology and quantum mechanics

Teaching Experience

University of the West Indies, Cave Hill, Barbados 2016-2017

- CERMES visiting lecturer
- Department of Biology and Chemistry guest speaker
- Department of Biology visiting lecturer

Columbia University 2015

- Department of environmental sciences visiting lecturer

University of Miami 2013

- Laboratory instructor, Chemical Oceanography

University of Hawaii at Manoa 2013

- School of Ocean and Earth Science and Technology invited speaker

University of Rhode Island, Graduate School of Oceanography 2009

- Teaching Assistant, Global Climate Change

Brown University 2009

- Department of Geology, invited speaker

Scientific Work

Scientific Advisor

2016- present

Coral Reef Alliance, Barbados

- Lead scientist on ocean acidification Folkstone Marine Reserve, Barbados
- Train marine rangers in benthic and fish monitoring practices University of the West Indies, Cave Hill
- Tutor
- Visiting lecturer

Environmental Consultant: CARIBSAV

2015

Scientific analysis and review for Caribbean marine reserves

Research Assistant: Department of Marine and Atmospheric Chemistry, RSMAS,

Research assistant for Dr. Chris Langdon

2009-2014

Graduate Assistant for Department of Natural Resources Science, URI

2007- 2009

Research Assistant for Dr. Graham Forrester's Lab

Field Assistant for Dr. Graham Forrester, Caribbean

Table Mountain National Parks Marine Division Internship, Cape Town, South Africa

Winter 2007

Established marine monitoring programs for newly designated marine protected areas and assisted in maintaining legal, sustainable fishing practices.

US Peace Corps Volunteer

2004-2006

Environmental waste management and education service

- Lead waste management workshops for the Ministry of Health, and Peace Corps Fiji (in Fijian and English)
 - Established a recycling program for the Vusu Province
 - Founded a library, computer center, and kindergarten for Komave Village
 - Designed and constructed 9 composting toilets in 9 villages
- Complete official description of service available upon request

Coral Cay Conservation, Fiji Islands

December 2004

Conducted reef check surveys on SCUBA identifying coral, invertebrate and fish species

National Oceanographic and Atmospheric Administration Internship

Summer 2003

Assisted Dr. Mark Fonseca in designing a coral re-growth model, including 3 weeks field work in the Dry Tortugas recording sonar readings and monitoring transects on SCUBA

Marine Lab, Key Largo FL Internship

Summer 2003

Conducted hands-on lectures and laboratories for grades 3 through college focusing on sea grass, mangrove and coral reef ecology. Guided explanatory snorkeling trips through these different habitats relating classroom information into a real-life experience.

Publications

Muehllenher, N. Langdon, C., **Venti, A.**, Kadko, D. 2016 “Seasonal dissolution and carbonate chemistry of the Florida Reef Track” *Global Biogeochemical Cycles*, 30 (5): 661-668. doi: 10.1002/2015GB005327

Venti, A., Langdon, C., Andersson, A. 2014. "Multiple driving factors explains temporal variability in coral calcification rates on the Bermuda platform" *Coral Reefs* doi: 10.1007/s00338-014-1191-9

Venti, A., Kadko, D., Andersson, A., Langdon, C., Bates, N. 2012. “A multi tracer approach to estimate reef water residence times in Bermuda” *Limnology and Oceanography, Methods*, 10: 1078-1095.

Venti, A., “New isotopic methods to better understand the impact of ocean acidification on coral calcification rates and net community calcification rates in Bermuda” PhD dissertation, University of Miami, Rosenstiel School of Marine and Atmospheric Sciences, 2014

Venti, A. “Aragonite saturations states and coral calcification rates in the Caribbean” Masters thesis, University of Rhode Island, Graduate School of Oceanography, 2009

Venti, A. Andersson, A., Langdon, C. “Using oxygen isotopes to estimate reef water residence times in Bermuda” (under revision)

6 Educational Children’s Books 2004-2006
Written in Fijian, and published by the US Peace Corps, Fiji

Composting Toilet Instructional DVD and Packet 2006
Written and recorded in Fijian and English, published by the US Peace Corps, Fiji

Cruise and Field Experience

- Field Work. P.I. Drs. Chris Langdon (RSMAS), Wade McGillis (Lamont), Derek Manzello (NOAA) 2010-2014
 - Cheeca Rocks, Florida Keys
 - (100+ SCUBA research dives)
- Field Work: P.I. Alyson Venti 2009-2012
 - Bermuda: Dissertation field work
 - (250+ SCUBA research dives)
- Field Work: P.I. Drs. Dwight Gledhill (NOAA), Chris Langdon (RSMAS), Wade McGillis (Lemont) 2010-2011
 - La Paguera, Puerto Rico
 - (50+ SCUBA research dives)
- Research Cruise: *R.V. Endeavor*, P.I: Dr. William Johns, RSMAS. 2009
 - Fortaleza, Brazil to Waivis Bay, Namibia 40 days
- Research Cruise: *R.V. Dream Island*, P.I. Drs Anne Cohen and Anne Tarrent, Woods Hole Oceanographic Institute 2009

- Red Sea, Saudi Arabia, 21 days
- Field Work: P.I. Drs. Tracey Dolton, Graham Forrester, and Richard Pollnack, 2007, 2008
 - Caribbean: Bahamas, Barbados, Bonaire, British Virgin Islands, Curacao, Dominica, Grand Cayman, Puerto Rico, Saba, St. Eustatia, St. Lucia, St. Vincent, Turks and Caicos, US Virgin Islands
 - (200+ research SCUBA dives)

Grants

- RSMAS Graduate Student Organization Grant 2012
- RSMAS, Marine and Atmospheric Sciences dept. Research Grant 2012
- Bermuda Institute of Ocean Sciences, Grant-In-Aid 2010, 2011, 2012
- American Philosophical Society, Lewis & Clark Fellow 2011
- Alumni Grant, Graduate School of Oceanography, URI 2008
- Graduate Assistant Union Grant, University of Rhode Island 2008
- United Nations Global Environmental Facility Grant 2005-2006
- Rotary Club Environmental Outreach Grant, Columbus OH 2006
- Inter Coastal Management (ICM) Waste Management Grant 2005

Awards

- USA Track & Field Florida female ultra-marathoner of the year 2013
- Rosenstiel Alumni Award, University of Miami 2009
- Corless / Kester Prize in Marine Chemistry, University of Rhode Island 2009
- Teaching Assistantship, Graduate School of Oceanography, URI 2008
- Judith Filmore Award, University of Rhode Island 2007

Conferences

- International Coral Reef Symposium, oral presentation 2012
- American Society of Limnology and Oceanography Meeting, oral presentation 2011
- Ocean Sciences Meeting, poster presentation 2010

Affiliations

- Coral Reef Alliance (CORALL) 2016
- International Society for Reef Studies 2012
- American Society of Limnology and Oceanography 2010-present
- Friends of Fiji, return Peace Corps Volunteers 2006-present
- PADI Diving Society 2004-present
- National Chemical Society 2004 present
- Inter Coastal Management, Fiji Islands 2004-2006
- Institute of Applied Sciences, University of the South Pacific, Fiji Islands 2004-2006

- Provincial Environmental Committee, Vusu Tikina, Fiji Islands 2005-2006
- Provincial Council Meeting, Fiji Islands 2005-2006

Scientific Enrichment Experiences

- Green Faith Speaker 2015
- Women in sports and science educator and motivational speaker 2014-2015
- Women in Science Day, RSMAS 2010-2014
- Bermuda Institute of Ocean Sciences, Science Day volunteer 2011
- BioBlitz Volunteer, Biscayne National Park 2010
- Environmental Education Teacher, Fiji Islands 2004-2006
- Earth Watch Volunteer, San Salvador, Bahamas Summer 2000

Other Enrichment Experiences

- Badwater 135 mile ultra-marathon, 1st femal, course record, 5th overall 2016
- Keys 100, 100 mile ultra-marathon, 1st place 2016
- Spartathlon 153 mile ultra-marathon, 4th place 2015
- Girls on the Run Volunteer Coach 2015
- Nation 24 hour team world champions 2015
- Icarus Florida Ultrafest, 24hour run, 1st place 2014
- Badwater 135 mile ultra-marathon, 1st female, course record, 8th overall, 2014
- Keys 100, 100 mile ultra-marathon, 1st place and course record 2014
- Long Haul 100 mile ultra-marathon, 1st place and course record 2014
- Ghost Train 100 mile ultra-marathon, 1st place and course record 2013
- Keys 100, 50 mile ultra-marathon, 1st place and course record 2013
- Miami Marathon, 4th place 2013
- Palm Beach ½ Marathon, 1st place 2012
- Keys 100, 100 mile ultra-marathon, 1st place and course record 2012
- Providence Marathon 1st Place 2008
- Fiji Bula Marathon 1st Place 2006
- A Better Chance tutoring program, Amherst MA 2002-2004
- Jazz Combo, Amherst College 2000-2004
- Habitat for Humanity 2002-2003
- Olympic Aid Volunteer 2002
- Special Needs Swim Instructor 2000-2002

Certifications

- Fijian Interpreter, Language Line 2008-present
- American Association of Underwater Scientists (AAUS) SCUBA Research Diver
May 2000 - present
- Red Cross emergency first aid & CPR May 2007- present
- DAN emergency O₂ administrator for SCUBA diving May 2007 - present
- PADI SCUBA dive master December 2004
- Lifeguard, American Red Cross 2000 - present

