

Evan W. Barba

Curriculum Vitae

Marine Biology Program
University of Hawai'i at Mānoa, Honolulu, HI 96822
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EDUCATION

2015–present **University of Hawai'i at Mānoa** – Honolulu, HI
PhD Student: Marine Biology
Advisor: Dr. Rob Toonen



2010–2014 **University of California, Santa Barbara** – Santa Barbara, CA
Bachelor of Science in Aquatic Biology
Distinction in the Major, GPA 3.34



AWARDS AND FELLOWSHIPS

2014 **National Science Foundation** – Research Experiences for Undergraduates (NSF-REU) recipient. Hofmann Lab, UC Santa Barbara, California.

2014 **Department of Ecology, Evolution, and Marine Biology**, UC Santa Barbara – Dean Bazzi Memorial Award

2014 **Department of Ecology, Evolution, and Marine Biology**, UC Santa Barbara – Distinction on the Major Award

2013 **National Science Foundation** – Research Experiences for Undergraduates (NSF-REU) recipient. Moorea Coral Reef Long Term Ecological Research (MCR LTER), Moorea, French Polynesia.

2012 **National Science Foundation** – Research Experiences for Undergraduates (NSF-REU) recipient. Santa Barbara Coastal Long Term Ecological Research (SBC LTER), UC Santa Barbara.

PROFESSIONAL EXPERIENCE

2015–present **Graduate Research Assistant** – ToBo Lab, Hawai'i Institute of Marine Biology, University of Hawai'i at Mānoa. *Funding support from NSF.*

2015 **Research Assistant** – CIRCAS CIRCAS Cruise (NOAA R/V Shearwater). *Chief Scientist: Dr. Gretchen Hofmann*

2015 **Lab Manager** – Oakley Evolution Laboratory, UCSB. Offered (declined in order to pursue graduate education)
Proposed Advisor: Todd Oakley

2014–2015 **Laboratory Technician** – Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO), Hofmann Lab, and SBC LTER.
Advisors: Dr. Carol Blanchette, Dr. Gretchen Hofmann, Dr. Dan Reed.

2014–2015 **Field Operations Analyst** for ipHat deployments and seawater chemistry for the PISCO and OMEGAS groups.

- 2014 **Research Assistant and Invertebrate Identification** – CIRCAS Cruise (NOAA R/V Shearwater).
Chief Scientist: Dr. Jay Lunden
- 2010-2014 **Undergraduate Intern and Research Diver** – SBC LTER
Senior honors thesis: Designed and conducted a study investigating purple sea urchin, *Strongylocentrotus purpuratus*, macronutrient variation between the sexes
Advisors: Dr. Dan Reed, Clint Nelson, Shannon Harrer
- 2010-2014 **Undergraduate Intern and Research Diver** – MCR LTER
Advisors: Dr. Russ Schmitt, Dr. Sally Holbrook, Keith Seydel, Samantha Davis
- 2013 **Short Field Season Assistant** – *Sargassum horneri* invasion on Catalina Island.
Advisor: Lindsay Marks
- 2011-2012 **Laboratory Assistant** – Long term larval settlement project
Advisor: Dr. Stephen Schroeter

GRANTS IN SUPPORT OF RESEARCH

- 2013 **Undergraduate Research and Creative Activities Grant** (UCSB),
*“Macronutrient variation in purple sea urchin (*Strongylocentrotus purpuratus*) gonads by sex and seasonality”* (\$740)

PRESENTATIONS AND MEETINGS

Barba, EW, DK Okamoto, EB Rivest, DC Reed. *Differences in purple sea urchin mass specific protein and lipid value by sex.* UCSB Undergraduate Research Colloquium, Santa Barbara, CA (poster, May 2014).

INVITATIONAL TALKS AND LECTURES

- 2013 **Upper Division Courses Panel Speaker** – Society of Undergraduate Biologists (SUB)
- 2013 **Undergraduate Research Panel Speaker** – SUB

OUTREACH AND INFORMAL PUBLIC EDUCATION

- 2014 Mandoske, J., **Barba, E.** A Field Guide to the Invertebrates of Moorea, French Polynesia. *Photographer and species identification.*
- 2013 **Volunteer** – MCR LTER Outreach booth, Earth Day Festival (Santa Barbara, CA)

SERVICE

- 2013-present **Research Support Committee Lead** – SUB
- 2010-2011 **Docent** – Research Experience Education Facility (REEF)

RELEVANT COURSEWORK

- Macroevolution
- Writing Science
- Introduction to Genetics
- Independent Studies (Senior Honors Thesis)
- Research Reviews in Aquatic Ecology
- Biology of Fishes
- Physical Oceanography
- Writing for Science and Technology
- Invertebrate Zoology: Higher Invertebrates
- Environmental Processes in Oceans and Lakes
- Applied Marine Ecology
- Field Studies in Marine Ecological Physiology
- Aquatic Communities
- Invertebrate Zoology: Lower Invertebrates
- Introduction to Ecology
- Advanced Placement Statistics

AFFILIATED SKILLS

- Field American Academy of Underwater Sciences (AAUS) Scientific Diver (*depth certification of 60ft, 300+ dives, 275+ hours logged*)
NAUI: open water, advanced open water, rescue diver, dive master.
- Extensive subtidal and intertidal survey experience
First Aid, CPR, and O₂ Certifications
Small craft and research vessel piloting and trailering
Instrument deployment and retrieval
Exceptional invertebrate, fish, and algal taxonomic identification
- Laboratory Protein, lipid, and carbohydrate extraction and assays; western blotting; agarose gel electrophoresis; DNA extractions; PCR; NanoDrop spectroscopy; Qubit flourometric quantitation; respirometry; UV-VIS spectrophotometry; IR Spectroscopy; light, stereo, and fluorescence microscopy; aquarium care of marine organisms; equivalence point titrations for the determination of total alkalinity in seawater; maintenance, operations, and repairs to autonomous pH sensors (iphats).

MEMBERSHIPS AND AFFILIATIONS

- Western Society of Naturalists (2013-present)
- American Academy of Underwater Sciences (2012-present)
- Moorea Coral Reef Long Term Ecological Research (MCR LTER) Project (2011-present)
- Santa Barbara Coastal Long Term Ecological Research (SBC LTER) Project (2010-present)
- Divers Alert Network (2010-present)
- Scuba and Freediving Club at UCSB, 2013-14 *Vice President* (2010-2014)
- Society of Undergraduate Biologists, *Research Committee Lead* (2013)

REFERENCES

- Dr. Rob Toonen: toonen@hawaii.edu
Dr. Gretchen Hofmann: hofmann@lifesci.ucsb.edu
Dr. Daniel Reed: dan.reed@lifesci.ucsb.edu
Dr. Sally Holbrook: holbrook@lifesci.ucsb.edu
Dr. Russell Schmitt: schmitt@lifesci.ucsb.edu
Dr. Carol Blanchette: blanchette@lifesci.ucsb.edu