

# Evan W. Barba

## Curriculum Vitae

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Department of Ecology, Evolution and Marine Biology  
University of California, Santa Barbara, CA 93106  
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## EDUCATION

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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

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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

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2014-present     **Laboratory Technician and Post-Bacclaurette Researcher** –Partnership for Interdisciplanry Studies of Coastal Oceans (PISCO), Hofmann Lab, and SBC LTER.  
*Advisors: Dr. Carol Blanchette, Dr. Gretchen Hofmann and Dr. Dan Reed.*

2014-present     **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

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- 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

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**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

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

## OUTREACH AND INFORMAL PUBLIC EDUCATION

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- 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

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

## RELEVANT COURSEWORK

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- Macroevolution
- Writing Science (graduate course)
- Introduction to Genetics
- Independent Studies (Senior Thesis)
- Research Reviews in Aquatic Ecology (graduate seminar)
- 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

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- 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 O<sub>2</sub> 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

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- 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

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Dr. Daniel Reed: [dan.reed@lifesci.ucsb.edu](mailto:dan.reed@lifesci.ucsb.edu)

Dr. Gretchen Hofmann: [hofmann@lifesci.ucsb.edu](mailto:hofmann@lifesci.ucsb.edu)

Dr. Sally Holbrook: [holbrook@lifesci.ucsb.edu](mailto:holbrook@lifesci.ucsb.edu)

Dr. Russell Schmitt: [schmitt@lifesci.ucsb.edu](mailto:schmitt@lifesci.ucsb.edu)

Dr. Rob Toonen: [toonens@hawaii.edu](mailto:toonens@hawaii.edu)