# Umihiko Hoshijima

# Curriculum Vitae

Department of Ecology, Evolution, and Marine Biology
University of California, Santa Barbara, CA 93106-9620
umihiko.hoshijima@lifesci.ucsb.edu · (805) 893-6176 · http://www.umi.hibal.org/blog

#### **EDUCATION**

2013-present **University of California, Santa Barbara** – Santa Barbara, California Ph.D. in Ecology, Evolution, and Marine Biology.

2009-2013 **University of California, Santa Cruz** – Santa Cruz, California B.S. in Biological Sciences, with Honors Minors in Chemistry, Electronic Music

#### **GRANTS IN SUPPORT OF RESEARCH**

2015-present **California Sea Grant** - Global Change Ecophysiology of egg masses and juveniles of the kelp forest fish, Scorpaenichthys marmoratus (\$24,999)

2015-present **UCSB Associated Students Coastal Fund** - Sensor deployments in kelp forests – measuring carbon dioxide and oxygen levels to assess the impacts of a changing ocean (\$1,414)

#### **FELLOWSHIPS AND AWARDS**

2014-present National Science Foundation - Graduate Research Fellowship (GRFP)

2014 **Continuing Student Graduate Fellowship** – Department of Ecology, Evolution and Marine Biology, UC Santa Barbara

2013-2014 **Graduate Fellowship** – Department of Ecology, Evolution and Marine Biology, UC Santa Barbara

2012 **National Science Foundation** – Research Experience for Undergraduates (NSF-REU) recipient. Shannon Point Marine Center, Western Washington University, Washington.

## **PROFESSIONAL EXPERIENCE**

2013-present **Graduate research**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara.

Advisor: Professor Gretchen Hofmann.

#### **И**МІНІКО **Н**ОЅНІЈІМА

2013 Lab and field technician at the Department of Ecology and

Evolutionary Biology, University of California, Santa Cruz.

Advisor: Professor Mark Carr.

2010-2013 Lab and field technician at the National Marine Fisheries Service,

NOAA, Santa Cruz, CA. Advisor: Dr. Sean Hayes.

2012 NSF-REU Internship at Shannon Point Marine Center, Western

Washington University, Washington. Advisor: Dr. Kathy van Alstyne.

2007 Lab technician at The Scripps Research Institute, San Diego, CA.

Advisor: Professor Larry Gerace.

# **MANUSCRIPTS IN PREPARATION AND REVIEW**

Hughes, BB, Hammerstrom K., Grant N., **Hoshijima** U., Eby, R., Wasson, K. 2014. The role of trophic cascades in dictating a phase shift from macroalgae to seagrass in a macroalgal dominated estuary. *In review*. Target journal: *Ecology*.

Dilly, G.F., Rivest, E.B., L. Kapsenberg, Nguyen, A.T., **Hoshijima U.**, Lunden, J.J., Johnson, K.M., and Hofmann, G.E. 2014. Exploring local adaptation to ocean acidification in *Mytilus californianus* during simulated upwelling events in Acidification Respirometry Chambers (ARCs). *In prep*. Target journal: *J. Experimental Biology*.

#### PRESENTATIONS OF RESEARCH

**Hoshijima,** U. *Global Change Biology: From California to Antarctica*. Invited talk, Marine Science course, La Jolla High School CA. January 2015.

**Hoshijima,** U. and van Alstyne, K. *pH Fluctuation of Local Macroalgae in Response to Environmental Stressors*. NSF-REU final presentation, Shannon Point Marine Center, Anacortes, WA. (oral presentation, August 2012)

# WORKSHOPS ATTENDED/INSTRUCTED

2015	Instructor - Scientific Programming with R. UC Santa Barbara, CA
	(April 17-18).
2014	Autonomous pH Sensor - Best Practices, Scripps Institute of
	Oceanography, San Diego, CA (August 4-8).
2014	Scientific Programming Workshop, UC Santa Barbara, CA (Jan 31 – Feb
	1).

#### **И**МІНІКО **Н**ОЅНІЈІМА

#### **TEACHING AND STUDENT ADVISING**

Teaching Assistant, *The Diversity of Life*. Ecology, Evolution and Marine Biology. University of California, Santa Barbara.
 Private Guitar Instructor
 Lead Student Instructor, National Ocean Sciences Bowl (NOSB), La Jolla High School, USA.

# **ACADEMIC SERVICE**

2014-present Mentor for undergraduate Biology students, Graduate Biology Mentorship Association (BIOME), UC Santa Barbara.

2013-present Cohort representative, Ecology, Evolution and Marine Biology Graduate Student Advisory Committee (GSAC). UC Santa Barbara.

## FIELD RESEARCH

2014	Grantee, NSF/United States Antarctic Program (USAP); McMurdo
	Station, Antarctica (11 weeks). PI: Professor Gretchen Hofmann.
2014	Channel Islands Research Cruise for Acidification Studies (CIRCAS),
	Santa Barbara, CA; NOAA ship <i>R/V Shearwater</i> (5 days).
	Chief Scientist: Dr. James Lunden.
2011	NOAA- SWFSC Salmon Cruise, California Current; <i>F/V Frosti</i> (6 days).
	Chief Scientist: Dr. Sean Hayes.

#### In The Press

- **UCSB Bottom Line** "UCSB Hofmann Lab Examines Effects of Ocean Acidification on Sculpin" <a href="https://thebottomline.as.ucsb.edu/2015/03/ucsb-hoffman-lab-examines-effects-of-ocean-acidification-on-rockfish">https://thebottomline.as.ucsb.edu/2015/03/ucsb-hoffman-lab-examines-effects-of-ocean-acidification-on-rockfish</a>
- The UC Santa Barbara Current, Noozhawk Santa Barbara —
   "Understanding Adaptive Capacity UCSB researchers receive funding to study
   the effect of pH variability on the early life stages of a kelp forest rockfish"
   <a href="http://www.news.ucsb.edu/2015/015021/understanding-adaptive-capacity">http://www.news.ucsb.edu/2015/015021/understanding-adaptive-capacity</a>
   <a href="http://www.noozhawk.com/article/understanding\_adaptive\_capacity">http://www.noozhawk.com/article/understanding\_adaptive\_capacity</a>
- UCSB GradPost "Graduate Student Umi Hoshijima Takes On Bitter Cold and Lightning-quick Penguins". December 1, 2014. <a href="http://gradpost.ucsb.edu/headlines/2014/12/1/graduate-student-umi-hoshijima-takes-on-bitter-cold-and-ligh.html">http://gradpost.ucsb.edu/headlines/2014/12/1/graduate-student-umi-hoshijima-takes-on-bitter-cold-and-ligh.html</a>
- NPR Morning Edition "Underwater Meadows Might Serve As Antacid For Acid Seas". Photo Credit. July 15, 2014.
   <a href="http://www.npr.org/2014/07/15/330440072/underwater-meadows-might-serve-as-antacid-for-acid-seas">http://www.npr.org/2014/07/15/330440072/underwater-meadows-might-serve-as-antacid-for-acid-seas</a>

#### **И**МІНІКО **Н**ОЅНІЈІМА

#### **RESEARCH DIVING**

- PADI: Open Water certification.
- NAUI: advanced open water, rescue diver, teaching assistant, and master diver certifications.
- AAUS: scientific diving authorization maintained at UC Santa Barbara (30ft).
- First Aid, CPR, Dan O<sub>2</sub> Certifications
- 130+ dives, 90+ hours logged.

## **Memberships and Affiliations**

- Sigma Xi Scientific Research Society
- Western Society of Naturalists
- American Academy of Underwater Sciences
- Santa Barbara Coastal Long Term Ecological Research (SBC-LTER) Project

# **R**EFERENCES

Prof. Gretchen Hofmann Professor, PhD advisor

University of California, Santa Barbara

hofmann@lifesci.ucsb.edu

Dr. Sean Hayes Research Fisheries Biologist

NOAA Fisheries, Santa Cruz, CA

Assistant Adjunct Professor, UC Santa Cruz

sean.hayes@noaa.gov

Dr. Kathy van Alstyne Marine Scientist

**Shannon Point Marine Center** 

Western Washington University, WA

kathy.vanalstyne@wwu.edu