

# Terence S. Leach

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Webpage: <http://www.hofmannlab.com/terence-leach.html>

## Education

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- 2016-present      **University of California Santa Barbara, Santa Barbara, CA**  
PhD in Ecology, Evolution, and Marine Biology  
Advisor: Dr. Gretchen Hofmann
- 2012-2016        **University of Washington, Seattle, WA**  
Bachelor of Science in Ecology, Evolution & Conservation Biology  
Minor in Marine Biology

## Fellowships and Awards

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- 2018-present    **Ford Foundation Fellowship – Predoctoral Competition**
- 2016-2018      **UC Santa Barbara Regents Fellowship**
- 2014-2015      **University of Washington Mary Gates Research Scholarship**  
“Bacterial Impacts on Viral Susceptibility in Marine Diatom *Pseudo nitzschia*”
- 2012-2013      **Washington Research Foundation**  
Distinguished Undergrad Scholar

## Research Experience

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- 2016-present    **Graduate Student Researcher**  
Ecology, Evolution, and Marine Biology, UC Santa Barbara  
Advisor: Dr. Gretchen Hofmann
- 2012-2016      **Undergraduate Student Researcher**  
Department of Oceanography, University of Washington  
Advisor: Dr. Gabrielle Rocap
- 2015-2016      **Undergraduate Researcher**  
Department of Biology, University of Washington  
Advisor: Dr. Billie Swalla
- Summer 2015    **Undergraduate Researcher**  
Department of Biology, University of Washington  
PI: Dr. Jennifer Ruesink

## Publications

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*Published, peer-reviewed articles*

Carlson MCG, McCary ND, **Leach TS** and Rocap G (2016) Pseudo-nitzschia Challenged with Co-occurring Viral Communities Display Diverse Infection Phenotypes. *Front. Microbiol.* 7:527. doi: 10.3389/fmicb.2016.00527

*Manuscripts in advanced state of preparation*

Juliet Wong, Logan Kozal, **Terence Leach**, Umihiko Hoshijima, and Gretchen Hofmann. Transgenerational effects in an ecological context: Conditioning of adult sea urchins to upwelling conditions alters the progeny's response to differential pCO<sub>2</sub> levels. *In preparation.*

## **Presentations\***

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Leach TS, Wong JM, Kozal LC, Hofmann GE. Mahalo, Mama: The Role of DNA Methylation in the Transgenerational Plasticity of Purple Urchins. Poster. Larval Biology Symposium. Honolulu, HA. August 10-13 2017

Leach TS, Wong JM, Hofmann GE. Exploring Transgenerational Effects in Purple Sea Urchins: Using DNA Methylation to Link Adult Condition to Progeny Performance. Poster. Western Society of Naturalists. Monterrey, CA. November 10-13 2016.

Leach T, Guannel M, Carlson M, Rocap G. Uncovering the Evolutionary History of *Pseudo-nitzschia*: Connecting Physiology and Molecular Phylogeny. Poster. Molecular Life Of Diatoms Meeting. Seattle, WA. July 7-10 2015.

Leach T, Guannel M, Carlson M, Rocap G. Uncovering the Evolutionary History of *Pseudo-nitzschia*: Connecting Physiology and Molecular Phylogeny. Oral. 2014 Ocean Sciences Meeting. Honolulu, HA. February 23-28 2014.

Leach T, Guannel M, Carlson M, Rocap G. Uncovering the Evolutionary History of *Pseudo-nitzschia*. Oral. Oceans and Human Health Joint NOAA/UW Seminar. Seattle, WA. March 2013.

\*Gave oral presentation annually at Undergraduate Research Symposium held at University of Washington

## **Teaching Experience**

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Spring 2018	<b>Introductory Biology Laboratory Teaching Assistant</b> University of California-Santa Barbara Lectured about the diversity of life and oversaw the completion of lab exercises reflecting lecture material.
Summer 2015, 2016	<b>GenOM ALVA Introduction to Laboratory Techniques Instructor</b> GenOM Project, University of Washington Created lesson plans for and taught 16 students fundamental laboratory procedures as well as basic biological processes
2015-2016	<b>Freshman Interest Group Leader</b> First Year Programs, University of Washington Met weekly with group of 24 freshmen students to discuss resources and strategies that will help transition to UW

2013-2016      **Undergraduate Research Leader**  
Undergraduate Research Program, University of Washington  
Worked with UW faculty to spread knowledge about the Undergraduate Research Program and the benefits of taking part in research as an undergraduate through panels and classroom presentations

## **Mentoring Experience**

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Summer 2018      **Ocean Global Change REU Super Mentor**  
University of California-Santa Barbara  
Aided in the carrying out of program logistics and the creation/completion of a professional development series associated with the program

Summer 2017      **UC LEADS Super Mentor**  
UC LEADS Program, University of California-Santa Barbara  
Gave students feedback and advice about scientific poster design

2016-present      **UC Santa Barbara Graduate Scholars Program**  
Graduate Division, University of California-Santa Barbara  
Met with other UCSB graduate students early on in their programs to discuss difficulties and work-life balance

## **Public and Professional Service**

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### *Outreach*

February 2018      **California Forum for Diversity in Graduate Education – Bio Panelist**  
California  
Answered questions from potential grad school applicants about various topics including: GRE prep, finding funding, being a minority in science, etc.

2016      **Day Cruise Outreach for K-12 Teachers with NOAA on R/V Shearwater**  
NOAA Channel Islands National Marine Sanctuary  
Communicated current ocean acidification research techniques, topics, and data being explored in the Hofmann Lab to local teachers in order to help integration of climate change research into their curriculums

### *University Service*

Spring 2018      **EEMB Professional Development Course Panelist**  
University of California-Santa Barbara  
Imparted advice about my experiences within the department, topics included: forming a committee, talking to your advisors, keeping healthy work-life balance, etc.

2016      **EEMB Departmental Social Event Organizer**  
Ecology, Evolution, and Marine Biology, UC Santa Barbara  
Aided in the preparation and organization of social events held within UCSB's EEMB department

## **Professional Memberships**

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Western Society of Naturalists

**Skills**

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DNA sequencing, Gel electrophoresis, PCR, Cell culturing, DNA extraction, Phylogenetic tree construction, Sequencher, RAxML, Certified Scuba Diver