

ERIC HESTER

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Date of Birth: 25 May 1989
Nationality: United States of America

EDUCATION

2013 – Expected (2015) M.S. Bioinformatics and Medical Informatics (Statistics Track),
San Diego State University

Research Thesis: Impacts of an environmental gradient on the bacteria associated
with competing corals and algae.

Supervisor: Professor Forest Rohwer

2012 Biofuels Science, University of California San Diego
2011 B.S. Microbiology, California Polytechnic State University San
Luis Obispos

RESEARCH / TEACHING EXPERIENCES

2011 – Present Research Associate

Project Title I: Estimating the stable community of coral and algal holobiont
associated bacteria

Project Title II: Impacts of an environmental gradient on the bacteria associated
with competing corals and algae

Project Title III: Investigating the relationship between the diversity of
eukaryotic, prokaryotic, viral and metabolic species in a system.

Project Title IV: Characterization of the role of *C. nivalis* in the land-sea
exchange of a pristine arctic ecosystem.

2013 Graduate Teaching Assistant

Spring 2013: Ecological Metagenomics

Summer 2013: Summer course in Indonesia, lectured on marine microbial
diversity

PUBLICATIONS / POSTERS / TALKS

- **Eric R. Hester**, Katie L Barott, James Nulton, Mark J.A. Vermeij, Forest L. Rohwer. *Stable communities of host-specific bacteria are complemented by sporadically-associated bacteria that vary across space. In Review ISME.*
- **Eric R. Hester**, Katie L. Barott, Emma E. George, Mark Little, Forest L. Rohwer. Impacts of an environmental gradient on the bacterial community of corals and algae in competition. **Manuscript In preparation.**
- Nao Hisakawa, Steven D. Quistad, **Eric R. Hester**, Forest L. Rohwer, Daria Martynova. Role of the pigmented *Chlamydomonas nivalis* in the land-sea exchange

- and influences on a pristine arctic ecosystem. **Manuscript In preparation.**
- Emma Ransome, **Eric R. Hester**, Forest L. Rohwer. The scaling of species diversity: the relationship between the diversity of eukaryotic, prokaryotic, viral and Metabolic species in a system. **Manuscript In preparation.**
 - **Eric R. Hester**, Forest L. Rohwer. Investigating functional dependencies within the holobiont. **Poster** presented at SRS 2014. San Diego State University 7th Annual Student Research Symposium. March 2014. San Diego, California U.S.A.
 - **Eric R. Hester**, Mark Little, Forest L. Rohwer. ARMS: Assessing Global Microbial Diversity Through Standardized Sampling. **Poster** presented at CERF 2013. 22nd biennial conference of the Coastal & Estuarine Research Federation. November 2013. San Diego, California U.S.A.
 - **Eric R. Hester**, Katie L. Barott, Forest L. Rohwer. Delineation of Core and Satellite Bacteria Associated with Coral and Algal Hosts. **Talk** given at BEM 2013. 42nd Benthic Ecology Meeting. March 2013. Savannah, Georgia U.S.A.
 - **Eric R. Hester**, Katie L. Barott, Forest L. Rohwer. Delineation of Core and Satellite Bacteria Associated with Coral and Algal Hosts. **Poster** given at SRS 2013. San Diego State University 6th Annual Student Research Symposium. March 2013.

SCHOLARSHIPS

National Science Foundation – Statistics Scholarship (2013-2015)

LANGUAGES

- **English:** Native

TECHNICAL SKILLS

Bioinformatics	Unix, Bash, Python, Java, R, Matlab
Data analysis	Statistics, Image analysis, next-gen-sequencing analysis
Molecular Biology	DNA/RNA extraction, purification, sequencing library prep (Illumina, 454, Ion Torrent platforms). PCR / RT-PCR Cloning Transformations
Microbiology and Cell Culturing	Cell culture (Bacterial and Mammalian)

FIELD EXPERIENCE

2013 – Hawaii	Trip to the NOAA station in Honolulu, Hawaii in order to evaluate sampling techniques, sample storage preservation techniques and logistical issues of sampling in preparation for Indonesia.
2013 – Indonesia	Part of a greater project. Involved in teaching a university course on marine biodiversity (gave lectures on marine microbiology) as well as a scientific goal of assessing the biodiversity of all domains of life across gradients of anthropogenic influence within Indonesia. Sampling on scuba and boat trips to sample sites.