

# CURRICULUM VITAE

## **Emilie J Richards**

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## **EDUCATION**

**University of Hawai'i at Manoa**  
Honolulu, Hawaii

M.S. Zoology,  
Advisor: Robert C. Thomson  
Expected graduation: May 2016

B.S. Marine Biology  
Advisor: David B. Carlon  
May 2013

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## **RESEARCH INTERESTS**

Statistical phylogenetics and phylogenomics  
Bioinformatics  
Macroevolution and evolutionary ecology

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## **RESEARCH**

### **Empirical Assessment of Phylogenetic Model Performance**

M.S. thesis

August 2014-present

I am currently work on a project that explores how well proposed model performance tests are able to detect poor model fit between phylogenetic models and empirical datasets.

### **Phylogeographic Insights into *Scarus rubroviolaceus***

Undergraduate Research Project

May 2011-May 2013

Investigated the phylogeography of the pan tropically distributed parrotfish *Scarus rubroviolaceus* using several mitochondrial and nuclear markers.

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## GRANTS

**Hampton and Meredith Carson Fellowship Award** May 2015-present  
Awarded \$3,000 to fund computer resource allocations on Amazon Elastic Cloud Compute (EC2) web service for Master's thesis project.

**Undergraduate Research Opportunity Program Award** May 2011-May 2013  
Awarded \$4,200 to fund population genetic and phylogeographic study of a pan tropical reef fish *Scarus rubroviolaceus*.

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## PRESENTATIONS

**Richards EJ** and DB Carlon. 2013. Phylogeographic insights into Indo-Pacific parrotfish *Scarus rubroviolaceus*. University of Hawai'i at Manoa, Undergraduate Research Spring Symposium.

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## TEACHING

### University of Hawai'i at Manoa

Department of Biology Teaching Assistant

August 2013-present

**Introduction to Biology II Laboratory** (BIOL 172L) F2013

Introductory biology lab focused on organismal biology

**Cell and Molecular Biology Laboratory** (BIOL 375L) SM2014/2015

Intermediate molecular lab focused on standard molecular techniques such as pipetting, PCR, SDS-PAGE, and ELISA.

**Concepts of Genetics Laboratory** (BIOL 375L) F2014/2015

Intermediate genetics lab focused on standard genetic techniques such as crosses, PCR, cell transformation, and plasmid construction.

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## AFFILIATIONS AND MEMBERSHIPS

Evolution, Ecology, and Conservation Biology Group, University of Hawai'i (2014)

Graduate Women in Science, Hawaii Chapter (2014)

Phi Beta Kappa Honors Society, Hawaii Chapter (2013)

The National Society for Collegiate Scholars, Hawaii Chapter (2011)