EMILY JONES

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Education

2010-present Ph.D in Ecology, San Diego State University and University of California, Davis
Joint-Doctoral Program in Ecology
Thesis: TBD

2004-2007 M.S. in Biological Sciences, University of Rhode Island
Thesis: *Impacts of Habitat-Modifying Invasive Macroalgae on Epiphytic Algal Communities*

2000-2004 B.S. in Evolution and Ecology, University of California, Davis

Research Interests

Marine community ecology, facilitation, positive interactions, algal-herbivore interactions, community structure, geographic variation, causes and consequences of biodiversity

Publications

Jones, E. and C.S. Thornber. 2010. Effects of habitat-modifying invasive macroalgae on epiphytic algal communities. *Marine Ecology Progress Series.* 400: 87-100.

Thornber, C.S., **Jones, E**., and Stachowicz, J.J. 2008. Herbivore preference and algal palatability across a vertical intertidal gradient. *Marine Ecology Progress Series*. 363: 51-62

Jones, E. 2007. Impacts of habitat-modifying invasive macroalgae on epiphytic algal communities. MS Thesis, University of Rhode Island, Kingston, RI. 54 p.

Rohr, N., Thornber C.S., and **Jones, E**. Biotic influences on epiphyte and herbivore recruitment in a marine subtidal system. In revision.

Bracken, M.E.S., **Jones, E**., and Williams, S.L. Context-dependency of intertidal ecosystem functioning: herbivores and tidal elevation mediate nitrate uptake by seaweed assemblages. In prep.

Research Experience

2010 **Research Assistant**, San Diego State University Research Foundation
Performed laboratory feeding assays to examine different types of interactions between marine intertidal herbivores and their algal food.

2007-2009 **Staff Research Associate I**, Bodega Marine Laboratory, University of California, Davis
Conducted laboratory and field experiments evaluating the feedbacks between algal diversity and marine ecosystem functioning. Maintained field manipulations of herbivores, nutrient levels, and shade to examine their effects on algal diversity. Measured algal nutrient uptake rates in laboratory chambers to better understand how non-random changes in algal diversity affect ecosystem functions.
PI's: Matthew Bracken and Susan Williams

2004-2007 **Masters Thesis Research**, University of Rhode Island
Investigated the role of habitat-forming invasive macroalgae for epiphytic algal communities by conducting monthly field surveys of epiphyte abundance, richness, and diversity on two native and two invasive host species. Examined potential mechanisms for differences in epiphyte composition through mimic experiments of secondary structure and feeding assays with the herbivorous snail *Lacuna vincta*.
Advised by: Carol Thornber

2004 **Research Assistant**, University of California, Davis
Assisted with nitrate and ammonium uptake trials for a project investigating the role of algal diversity on nutrient uptake. Helped with initial set-up and surveys for a study evaluating how algal biodiversity influences ecosystem functioning in upper-intertidal systems.
PI's: Jay Stachowicz and Matthew Bracken

2003-2004 **Undergraduate Research Project**, University of California, Davis
Examined chemical deterrents toward herbivory of high and low intertidal algae using chemical extractions and feeding preference assays.
Advised by: Jay Stachowicz and Carol Thornber

2003 **Stachowicz Lab Intern**, University of California, Davis
Identified and sorted invertebrate samples for a project examining how the genetic diversity of eelgrass affects species diversity.
Advised by: Jay Stachowicz and Randall Hughes

2003 **Marine and Coastal Field Ecology**, Bodega Marine Laboratory, Bodega Bay, CA
Conducted two different types of feeding preference assays to determine if an herbivore preference exists between low and high intertidal algae, and investigated potential mechanisms for differences in algal palatability (e.g. algal morphology).
Advised by: Victor Chow and Carol Thornber

Teaching Experience

2010-present **Teaching Assistant**, San Diego State University
Discussion sections: **Ecology and the Environment** (Fall 2010, Spring 2011)

2004-2007 **Teaching Assistant**, University of Rhode Island
Lab courses taught: **Principles of Biology 1** (Fall 2004), **Principles of Biology 2** (Spring 2005/2006/2007), **Biology of Algae** (Fall 2005), **Ecology of Marine Plants** (Fall 2006)

Spring 2004 **Undergraduate Lab Assistant**, Introductory Biology 1B, University of California, Davis
Assisted a graduate student with lab activities, provided explanations of biological concepts, and answered student questions

Winter 2003 **K-12 Science Teaching Intern**, University of California, Davis
Facilitated science activities for fourth grade students. Worked with a classroom teacher to cover standard curriculum and create activities. Led experiments, class reading assignments, and helped with written work.

2002 **Explorit Science Center**, Davis, CA
Provided science themed birthday parties for children ages 3 to 12. Created an environment where children could learn through hands-on observations, presentations, and questions.

Presentations

Nov. 2007 Jones, E., M.E.S Bracken, A. Carranza, and S.L. Williams. Realistic differences in species composition, but not diversity, determine nitrogen use by intertidal seaweed assemblages. Western Society of Naturalists Meeting, Ventura, CA

April 2007 Jones, E. and C.S. Thornber. Impacts of Habitat-Modifying Invasive Macroalgae on Epiphytic Algal Communities. 46th Annual Northeast Algal Symposium, Narragansett, RI

March 2007 Jones, E. and C.S. Thornber. Positive Interactions in an Epiphytic Algal Community. Benthic Ecology Meeting, Atlanta, GA.

Nov. 2006 Jones, E. and C.S. Thornber. Impacts of Habitat-Modifying Invasive Macroalgae on Epiphyte Richness and Diversity. Western Society of Naturalists Meeting, Redmond, WA

March 2006 Jones, E. and C.S. Thornber. Impacts of Habitat-Modifying Invasive Macroalgae on Epibiont Richness and Diversity. Benthic Ecology Meeting, Quebec City, CAN

March 2005 Jones, E., C.S. Thornber, and J.J. Stachowicz. Complexity in Algal-Herbivore Interactions in a Rocky Intertidal System. Northeast Ecology and Evolution Conference, University Park, PA

April 2004 Jones, E., C.S. Thornber, and J.J. Stachowicz. Variability in Algal Defense Across a Rocky Intertidal Vertical Gradient. UC Davis 15th Annual Undergraduate Research Conference, Davis, CA

Aug. 2003 Jones, E. Herbivore Preference and the Intertidal Gradient: A Comparison of Algal Defense. Bodega Marine Lab Summer Research Symposium, Bodega Bay, CA

Invited Presentations

March 2006 Jones, E. Introduction to Seaweeds. Warwick Schools Accelerated Learning Activities Program, Warwick, RI.

Grants, Honors, and Awards

April 2007 URI Dept. of Biological Sciences Excellence in Teaching Award
April 2007 Sigma Xi, URI Chapter initiation
April 2007 Hannah Croasdale Fellowship ($600, declined)
March 2007 URI Dept. of Biological Sciences Research Grant ($175)
Jan 2007 URI GSA Conference Travel Grant ($250)
Dec 2006 Western Society of Naturalists Conference Travel Award ($50)
Nov 2006 URI Dept. of Biological Sciences Conference Travel Grant ($175)
May 2006 Sounds Conservancy Grant ($500)
March 2006 URI Dept. of Biological Sciences Conference Travel Grant ($175)
March 2006 URI Dept. of Biological Sciences Research Grant ($175)
Nov 2005 Phi Kappa Phi, URI Chapter initiation
April 2005 URI Dept. of Biological Sciences Research Grant ($175)
April 2005 Sounds Conservancy Grant ($900)
March 2005 URI GSA Conference Travel Grant ($150)
Jan 2005 URI Graduate Research Grant ($650)

Service

2005-present **Undergraduate Student Mentor**
Instructed students on algal identification and laboratory and field research techniques in marine ecology (Courtney Viall, Emily Field, Vanessa Scialabba, Patrick Lyons, Casey Donahue, Emily Blair, Theresa DiMarco, Terra Hazen)

Summer 2006 **Mentor: Masters in Education Student**
Provided a masters in education student (biology emphasis) with field research experience in marine ecology (Michelle Thomson)

Summer 2006 **Coastal Fellow Co-Mentor**
Helped an undergraduate URI Coastal Fellow with algal identification and research methods in marine ecology (Emily Field)

June 2005 **Bio Blitz 2005**, RI Natural History Survey
Helped with marine algal identification

May 2005-Dec 2005 **Coastal Fellow Mentor**
Introduced an undergraduate URI Coastal Fellow to laboratory and field research methods in marine algal communities (Courtney Viall)

Professional Organizations

Western Society of Naturalists
Phycological Society of America
Northeast Algal Society

Phi Kappa Phi
Sigma Xi

Other Achievements

2000-2001 UC Davis Honors Challenge
2004-2007 Macroalgae of Rhode Island Photo Gallery http://www.uri.edu/cels/bio/thornber/macroalgae.html

Popular Press

Newport This Week "Sea-ing red at Easton's Beach" by Sandra Gahlinger 7/1/05
http://ebypublish.bits.baseview.com/story/301493697325535.php

References

Jeremy Long, Ph.D. Dept. of Biology, San Diego State University, San Diego, CA 92182
jlong@sciences.sdsu.edu, 619-594-3598

Carol Thornber, Ph.D. Dept. of Biological Sciences, University of Rhode Island, Kingston, RI 02881
thornber@uri.edu, 401-874-4495

Matthew Bracken, Ph.D. Marine Science Center, Northeastern University, Nahant, MA 01908
m.bracken@neu.edu, 781-581-6076

Susan Williams, Ph.D. Bodega Marine Laboratory, University of California, Bodega Bay, CA 94923
slwilliams@ucdavis.edu, 707-875-2211

Jay Stachowicz, Ph.D. Section of Evolution and Ecology, University of California, Davis 95616
jjstachowicz@ucdavis.edu, 530-752-1113