

**Amy A. Briggs** - PhD Student

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**Education**

M.S.	California State University, Northridge	Biology	2016
B.S.	Stanford University	Biological Sciences	2008

**Research Experience**

2018 – Present, **Research Assistant**, University of Georgia (UGA), Athens, GA  
 (Supervisor: C.W. Osenberg)

- *Duties*: Develop content and create open-access online tutorials on meta-analysis for research professionals in ecology and conservation

2015 – Present, **PhD student**, University of Georgia, Athens, GA (Advisor: C.W. Osenberg)

- *Dissertation*: Interactions between toxic microalgae, seaweeds, and grazers on coral reefs: consequences for ecosystem states and ciguatera finfish poisoning

2012 – 2016 **Master's Student**, California State University, Northridge (CSUN), CA  
 (Advisor: R.C. Carpenter)

- *Thesis*: The effects of temperature, light, and ocean acidification on the physiology and ecology of tropical crustose coralline algae

2010–2011, **Research Assistant**, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (Supervisors: J.K. Baum & S.M. Walsh)

- *Research*: Changes in coral reef benthic communities with fishing pressure and oceanographic productivity at Kiritimati Atoll

2009–2010, **Research Technician**, Stanford University, CA (Supervisors: F. Micheli & R. Dirzo)

- Effects of artisanal fisheries on coral reefs in the Northern Line Islands
- Effects of the introduced coconut palm on island food web dynamics, Northern Line Islands
- *Individual research*: Morphological and trophic responses of geckos to seabird nutrient inputs and changes in habitat structure associated with the coconut palm

2008, **Research Intern**, Smithsonian Tropical Research Institute, Panama (Supervisor: L. D'Croz)

- Effects of nutrient enrichment on Caribbean and Pacific phytoplankton communities' productivity and size structure

2007–2008, **Research Assistant**, Stanford University, CA (Supervisor: R. Dirzo, H.S. Young)

- Coral reef community responses to the removal of large predatory fish (Palmyra and Tabuaeran Atolls)

- Effects of marine nutrient subsidies from seabirds on terrestrial communities, and the role of the introduced coconut palm in driving nutrient depletion at Palmyra Atoll
- *Individual research*: Effects of marine nutrient subsidies on the trophic ecology of geckos

2007, **Undergraduate Researcher**, Stanford@SEA program, Hopkins Marine Station, Monterey, CA, research cruise from Hawaii to Northern Line Islands (Supervisor: B.A. Block)

- *Individual research*: Toxic dinoflagellate densities along a gradient of human impact in the Northern Line Islands, and abundances of macroalgal hosts associated with their presence

2005, 2006, **Research Assistant**, ConocoPhillips, Bartlesville Technology Center, OK, Reservoir Mechanisms NMR/MRI lab (Supervisor: J.J. Howard)

- *Individual research*: Developing low-field nuclear magnetic resonance (NMR) as a tool for analyzing droplet size distributions in oil/water emulsions

## Fellowships & Awards

2018	Odum School of Ecology Small Grant for graduate student research (UGA)	\$5,000
2017	Odum School of Ecology Small Grant for graduate student research (UGA)	\$1,500
2015-2017	Graduate Assistantship Fellowship (UGA)	tuition + stipend
2015	Travel funding for research training (CSUN)	\$500
2013	Graduate Fellowship for Outstanding Research Promise (CSUN)	\$5,000
2013	Graduate Equity Fellowship (CSUN)	\$1,000
2013	Graduate Thesis Support Grant (CSUN)	\$1,000
2010	NSF Graduate Research Fellowship Program Honorable Mention	

## Publications

CL Wood, JK Baum, SM Walsh, R Trebilco, S Sandin, B Zgliczynski, **AA Briggs**, F Micheli (2015) Productivity and fishing pressure drive variability in fish parasite assemblages of the Line Islands, central equatorial Pacific. *Ecology*, 96(5): 1383-1398.

**AA Briggs**†, HS Young†, DJ McCauley, SA Hathaway, R Dirzo, RN Fisher (2012) Effects of spatial subsidies and habitat structure on the foraging ecology and size of geckos. *PLoS ONE* 7(8): e41364. † *authors contributed equally*

HS Young, T Raab, DJ McCauley, **AA Briggs**, R Dirzo (2010) The coconut palm, *Cocos nucifera*, impacts forest composition and soil characteristics on Palmyra Atoll, Central Pacific. *Journal of Vegetation Science*. 21: 1058-1068.

## Manuscripts in review/preparation

*In review*

**AA Briggs**, RC Carpenter. Contrasting responses of photosynthesis and photochemical efficiency to ocean acidification..

Goldberg, GE, TK Raab, P De Salle, **AA Briggs**, RB Dunbar, F Millero, R Woosley, HS Young, F Micheli, DJ McCauley. Chemistry of the consumption and the excretion of the bumphead parrotfish (*Bolbometopon muricatum*), a coral reef mega-consumer.

**AA Briggs**, CW Osenberg. Species-specific oviposition patterns in *Aedes* mosquitoes in response to spatial clustering of larval habitats.

*In prep*

**AA Briggs**, RC Carpenter. Temperature mediates the sensitivity of a resistant population of crustose coralline algae to ocean acidification.

## Professional Presentations

### *Contributed talks*

**AA Briggs**, CW Osenberg (2017) Ciguatoxic dinoflagellate densities and the effects of algal biomass and species composition in a Pacific coral reef. Indo-Pacific Fish Conference. Tahiti, French Polynesia.

**AA Briggs**, RC Carpenter (2017) The influence of light on the photosynthetic response of a crustose coralline alga to ocean acidification, and consequences for other physiological processes. Symbiofest. Athens, GA.

**AA Briggs**, RC Carpenter (2016) The influence of light on the photosynthetic response of a crustose coralline alga to ocean acidification, and consequences for other physiological processes. International Coral Reef Symposium. Honolulu, HI.

**AA Briggs**, RC Carpenter (2014) The influence of light and photosynthesis on the calcification response of a tropical crustose coralline alga to ocean acidification. Western Society of Naturalists, Tacoma, WA.

**AA Briggs**†, H Nelson†, C Wirth† (2014) The status of women in STEM fields and reasons for disparities. Women in Science, California State University, Northridge.

† *authors contributed equally*

**AA Briggs**, RC Carpenter (2014) The influence of light and photosynthesis on the calcification response of a crustose coralline alga to ocean acidification. Benthic Ecology Meeting. Jacksonville, FL.

**AA Briggs**, RC Carpenter (2013) The influence of photosynthesis on the response of crustose coralline algae to ocean acidification. Sesoko Station, Tropical Biosphere Research Center, Okinawa Japan.

**AA Briggs**†, C Wirth† (2013) The current status of women in STEM, reasons for disparities, and strategies for achieving equal representation. Women in Science, California State University, Northridge. † *authors contributed equally*

**AA Briggs**, HS Young, DJ McCauley, SA Hathaway, R Dirzo, RN Fisher (2012) Spatial subsidies and

habitat structure: the effects of seabird guano on island geckos in the tropics. Western Society of Naturalists, Seaside, CA.

**AA Briggs**, HS Young, DJ McCauley, SA Hathaway, R Dirzo, RN Fisher (2012) Effects of spatial subsidies and habitat structure on the ecology of two locally dominant geckos. Ecological Society of America, Portland, OR.

### *Poster presentations*

**AA Briggs**, RC Carpenter (2013) The influence of photosynthesis on the responses of crustose coralline algae to ocean acidification. Benthic Ecology Meeting, Savannah, GA.

## Teaching

- Fall 2017 *Teaching Assistant*, Ecology 3500 Lab (for science majors), UGA  
- Created lectures, led lab activities with regular field trips, and provided students with feedback on group research and writing projects (3 sections)
- Spring 2015 *Biology Tutor*, CSUN
- Fall 2014 *Graduate Assistant*, Phycology (upper-division undergrad & grad-level course), CSUN  
- Supervised labs and field trips, assisted students with individual research projects, collected specimens and set up labs (1 class)
- Fall 2012 - *Teaching Associate*, Introductory Biology 100 Lab (for non-majors), CSUN  
Spring 2014 - Created lectures and class materials (quizzes, homework, handouts, etc.), led lab activities based on established curricula (2 - 4 sections)
- Fall 2012 - *Graduate Assistant*, Introductory Biology 100 Lab (for non-majors), CSUN  
Spring 2013 - Supervised and assisted students with computer lab assignments (1 section)

## Science Outreach

- 2018 *Workshop coordinator* for STEMzone science outreach event and science communication workshops, UGA
- 2017 *Assistant logistics coordinator* at STEMzone science outreach event, UGA
- 2017 *Science educator* at Girls Scout Super Science Day, Stone Mountain, GA
- 2016 *Science educator* at Girls Scout Science Day, State Botanical Garden, Athens, GA
- 2014 *Field science mentor* in NSF Research Experience for Teachers (RET) program. Lead an elementary school teacher during field research in Moorea, French Polynesia, to help her develop science curriculum for K-12 students in California.
- 2013 *Guest speaker* for environmental science class at The Art Institute of California-Los Angeles, Los Angeles, CA
- 2013 *Guest speaker* in 7<sup>th</sup> and 8<sup>th</sup> grade marine biology class and after school program, at Lawrence Middle School, in Chatsworth, CA
- 2011 *Volunteer teacher* for Kids Do Ecology (National Center for Ecological Analysis & Synthesis), in 5<sup>th</sup> grade classroom at Franklin Elementary, in Santa Barbara, CA

- 2009 *Volunteer science educator* at Tabuaeran Atoll Secondary School
- 2009 *Liaison* with local government officials and *presenter* to 7 village councils on Tabuaeran Atoll to communicate goals and findings of research team's study of local fishing practices and their environmental impacts
- 2005-2006 *Volunteer teacher* for Science and Environmental Education (Stanford University), in 3<sup>rd</sup> grade classroom in East Palo Alto, CA

## Professional Service

### *University/department service*

- 2018-2019 *Graduate Student Organization representative*, Odum School of Ecology, UGA  
- Led organization meetings, acted as a representative for Ecology graduate students at Odum faculty meetings
- 2017-Present *Advisor* to SEEDS: diversity and professional development club for undergraduates interested in ecology-related careers  
- Helped club achieve national chapter recognition and organized professional developments events
- 2016-2017 *Grad student representative*, Diversity Committee, Odum School of Ecology, UGA  
- Established SEEDS undergraduate diversity and professional development club at UGA
- 2014-2015 *Planning committee member*, Women in Science, CSUN  
- Helped plan meetings and outreach activities, created and led a website design workshop
- 2013-2014 *President*, Women in Science (WiS), CSUN  
- Led meetings; organized discussions, workshop content, and outreach activities; established WiS as a university-recognized club
- 2012-2013 *President*, Marine Biology Graduate Student Association, CSUN  
- Led meetings, organized weekly paper discussions & presentation feedback sessions, maintained club status to receive university funding
- 2012-2013 *Co-founder, web-designer*, Women in Science, CSUN  
<http://csunwis.weebly.com>
- 2004-2005 *Elected representative* in Stanford University student government

### *Mentoring*

- 2017-2018 *Mentor* for undergraduate student conducting independent research project (UGA CURO program)
- 2016-2017 *Co-leader* of lab meetings for undergraduate research assistants (~7) working in the Osenberg lab at UGA - organize discussions, skill development workshops, etc. to foster students' knowledge and skills for science-related careers
- 2016-2017 *Mentor* for an early-stage graduate student through UGA Women in Science program
- 2014-2015 *Mentor* at monthly undergraduate science career development workshops, Biology Department, CSUN

2013 *Mentor* at drop-in mentoring event for undergraduates, hosted by Women in Science and Engineering, CSUN

***Peer review***

2015-Present *Manuscript reviewer* for academic journals:  
*Ecology*  
*Journal of the Marine Biological Association of the United Kingdom*

## **Membership in Professional Societies**

- International Society for Reef Studies
- International Society for the Study of Harmful Algae
- American Association of University Women
- American Association for the Advancement of Science

## **Skills & Certifications**

- CPR, AED, First Aid, & O<sub>2</sub> delivery certifications
- AAUS scientific diving certification
- PADI Advanced Open-water Diving certification