

CARRIE SIMS

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EDUCATION

PhD - University of Queensland (Brisbane) 2016 - Current

Thesis topic: Community Ecology of Corals and their Symbionts

Supervisors: Professor John M Pandolfi, Dr Eugenia Sampayo, Associate Professor Margie Mayfield

Honours Class I - University of Queensland (Brisbane) 2011

Thesis topic: Biogeography of the cleaner fish *Labroides dimidiatus* using phylogenetics and morphometrics

Supervisors: Dr Cynthia Riginos, Dr Alexandra Grutter and Dr Simon Blomberg

Bachelor of Science - University of Queensland (Brisbane) 2010

Majors: Zoology and marine biology

PROFESSIONAL EXPERIENCE

Tutor – University of Queensland (Brisbane) 2017 – Current

I have tutored predominantly for field courses, including Australia's Marine Environment which takes undergraduates to Moreton Bay Research Station and Heron Island Research Station to undertake research projects. I also partake in marking project reports.

Marine Scientist - GHD (Brisbane) 2012 - 2013

GHD is a private consulting company, providing services to clients across a range of technical areas. I worked as a professional member of the Marine, Coastal and Freshwater Team within the Environment and Planning Group.

Contracted Researcher - AVIA Investments (Brisbane/Perth) 2011

AVIA Investments is an equities and investment company. As a Contracted Researcher I conducted a short-term, comprehensive literature review on a confidential topic to provide information on the viability of a product.

MANUSCRIPTS (PEER-REVIEWED)

Sims CA, Grutter AS, Huelsken T, Drew J, Blomberg S and Riginos C (2013) Cleaning up the biogeography of *Labroides dimidiatus* using phylogenetics and morphometrics. *Coral Reefs*, DOI 10.1007/s00338-013-1093-2.

Litsios G, **Sims CA**, Pearman P, Wüest R, Zimmerman N and Salamin N (2012) Mutualism with sea anemones drives the adaptive radiation of clownfish. *BMC Evolutionary Biology*, 12:212.

Wilson GDF, **Sims CA** and Grutter AS (2011) Toward a taxonomy of the Gnathiidae (Isopoda) using juveniles: the external anatomy of *Gnathia aureamaculosa* zuphea stages using scanning electron microscopy. *Journal of Crustacean Biology*, 31 (3), 509-522.

CONFERENCE & SYMPOSIUM PRESENTATIONS

90th Australian Coral Reef Society Conference – Townsville (Australia)	2017
Talk: Presence of an adult influences coral recruitment success	
UQ Centre of Marine Science TalkFest – Brisbane (Australia)	2016
Poster: Biogeography of <i>Symbiodinium</i> across Indian and Pacific Oceans	
13th International Coral Reef Symposium - Hawaii (USA)	2016
Poster: Biogeography of <i>Symbiodinium</i> across Indian and Pacific Oceans	
12th International Coral Reef Symposium - Cairns (Australia)	2012
Talk: Phylogeography and morphometrics of the cleaner wrasse <i>Labroides dimidiatus</i> (Honours research)	

RESEARCH SCHOLARSHIPS, GRANTS AND AWARDS

Holsworth Wildlife Research Endowment (Ecological Society of Australia)	2017
PhD scholarship funding field research undertaken at Heron Island Research Station. Awarded: \$3560.	
ACRS Conference – Best Student Talk	2017
Westpac Future Leaders Scholarship	2016 - 2019
PhD scholarship funding to cover: top-up stipend, conference and short-course attendance, publication and dissemination costs, equipment and consumables, 3 month international research experience and 9 month Leadership Development Program. Awarded: AU \$118,520 (of which \$34,000 is for research costs)	
Summer Program Scholarship - University of Lausanne (Switzerland)	2010
Project: Phylogenetic comparative analysis and ecological niche modeling of the anemonefish mutualism evolution Awarded: CHF 4850. Supervisor: Dr Nicolas Salamin, Computational & Molecular Phylogenetics Lab	
Dean's Commendation - University of Queensland (Brisbane)	2008-2010
Summer Project Scholarship - University of Queensland (Brisbane)	2008
Project: Do cleaner fish affect the size-frequency distribution of emerging gnathiid populations? Awarded: AU \$300/week for 2 months (\$2400). Supervisor: Dr Alexandra Grutter, Coral Reef Ecology Lab	

RESEARCH & FIELD WORK

Coral spawning and recruitment experiments – Solitary Islands, National Marine Science Centre (PhD)	Jan-Feb 2018
Coral nutrient and temperature experiments – Heron Island Research Station	Oct-Dec 2017
Coral spawning and recruitment experiments – Heron Island Research Station (PhD)	Oct-Dec 2017
Coral spawning and recruitment experiments – Palau, Biota Aquaculture (PhD)	April 2017
Coral sample collection – Heron Island Research Station	Nov 2016
Subtropical coral bleaching surveys – National Bleaching TaskForce (eastern Australia)	April & Oct 2016
Lab Assistant – Coral Reef Ecology Laboratory, UQ, Dr Alexandra Grutter	2009 - 2015
Field Assistant: Naticid feeding ecology - Moreton Bay Research Station, UQ, Dr Thomas Huelsken	2010 & 2011
Re-catalogue Naticid collection– Queensland Museum, Dr Thomas Huelsken & Dr John Healy	2010 - 2011
SEM of Gnathiid isopod ectoparasites - Australian Museum, Dr George Wilson	2009
Marine turtle conservation – Environmental Protection Agency (Mon Repo, Queensland)	2009

PROFESSIONAL MEMBERSHIPS

Australian Coral Reef Society (Newsletter Editor)	2016
International Society for Reef Studies	2016
Ecological Society of Australia	2016

OUTREACH

Coral Reef Symbiosis and Diversity Presentation 2017

Presentation and interactive table for Heron Island Resort guests on coral symbioses and behind the scenes of my PhD research on Heron Island. Interaction table included coral recruit tiles under microscopes and blue UV lights used on adult coral colonies to show fluorescence.

National Science Week – Australia 2016

Presentation and interactive table for primary school children from Prep to Year 6 regarding coral biology and ecology, coral bleaching and impacts to coral reefs, as well as ways each student can assist in protecting coral reef ecosystems.

LICENSES

PADI Nitrox	2017
ADAS Scientific (Occupational) Diver Restricted to 30m	2016
Apply First Aid and Apply Advanced Resuscitation	2016
PADI Advanced Open Water Diver	2015
PADI Open Water Diver	2009

WORKSHOPS & COURSES

ARC Centre of Excellence for Coral Reef Studies – 2 weeks R statistics course (Murray Logan, AIMS)	2018
ARC Centre of Excellence for Coral Reef Studies – National Student Mentoring Workshop	2017
Subtropical Bleaching Workshop – National Marine Science Centre, Coffs Harbour	2016
Coral Finder Course (Russell Kelley, BYO Guides)	2016
University of Queensland - Introduction to R	2016