

CARRIE SIMS

Marine Palaeoecology Lab, Gehrman Building (60)

School of Biological Sciences, University of Queensland, St Lucia, QLD, 4072, Australia

c.sims@uq.edu.au or carrie.sims@uqconnect.edu.au

+ 61 (0) 408 710 175

EDUCATION

PhD - University of Queensland (Australia)

2016 - Current

Thesis topic: Community ecology of corals

Supervisors: Professor John Pandolfi, Dr Eugenia Sampayo, Professor Margaret Mayfield

Honours Class I - University of Queensland (Australia)

2011

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

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

Bachelor of Science - University of Queensland (Australia)

2010

Majors: Zoology and marine biology

PROFESSIONAL EXPERIENCE

Tutor – University of Queensland (Brisbane)

2017 – Current

I have tutored predominantly for field courses to Moreton Bay Research Station and Heron Island Research Station, including Stanford International Coral Reef Ecology Course and Australia's Marine Environment, where undergraduates undertake research projects and practical laboratories. I also partake in marking student 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. CITATIONS: 10, ALTMETRIC SCORE: 5

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. CITATIONS: 46, ALTMETRIC SCORE: 9

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.

CITATIONS: 11

CONFERENCE & SYMPOSIUM PRESENTATIONS

91st Australian Coral Reef Society Conference – Exmouth (Australia) **2018**

Poster: Home is where the hetero-species aren't: coral species settle better alone

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 *Symbiodinium* across Indian and Pacific Oceans

13th International Coral Reef Symposium - Hawaii (USA) **2016**

Poster: Biogeography of *Symbiodinium* across Indian and Pacific Oceans

12th International Coral Reef Symposium - Cairns (Australia) **2012**

Talk: Phylogeography and morphometrics of the cleaner wrasse *Labroides dimidiatus*

RESEARCH SCHOLARSHIPS, GRANTS AND AWARDS

UQ School of Biological Sciences - Conference Travel Award **2019**

Australian Coral Reef Society Conference – Runner-up Poster Award **2018**

Holsworth Wildlife Research Endowment (Ecological Society of Australia) **2017**

PhD scholarship funding field research undertaken at Heron Island Research Station. Awarded: \$3560.

Australian Coral Reef Society Conference – Outstanding 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 larval temperature experiments – Heron Island Research Station (ARC Discovery project) **Nov-Dec 2018**

Coral species collections for isotopic analysis – southern GBR to Solitary Islands (ARC Discovery project) **Sept 2018**

Coral nutrient and temperature experiments – Solitary Islands (ARC Discovery project) **Jan-Feb 2018**

Coral spawning and recruitment experiments – Solitary Islands, National Marine Science Centre (PhD) **Jan-Feb 2018**

Coral nutrient and temperature experiments – Heron Island Research Station (ARC Discovery project) **Oct-Dec 2017**

Coral spawning and recruitment experiments – Heron Island Research Station (PhD) **Oct-Dec 2017**

Coral spawning and recruitment experiments – Biota Aquaculture, Palau (PhD) **April 2017**

<i>Turbinaria</i> spp. coral sample collection – Heron Island Research Station (field assistant)	Nov 2016
Subtropical coral bleaching surveys – eastern Australia (National Bleaching TaskForce, ARC CoE)	April & Oct 2016
Lab Assistant – Coral Reef Ecology Laboratory, Dr Alexandra Grutter (Uni of Qld)	2009 - 2015
Field Assistant (<i>Naticid</i> feeding ecology) - Moreton Bay Research Station, Dr Thomas Huelsken (Uni of Qld)	2010 & 2011
Re-catalogue <i>Naticid</i> 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 (Councillor: currently Secretary, previously Newsletter Editor)	2016 - current
International Coral Reef Society	2016 - current
Ecological Society of Australia	2016 - current

OUTREACH

National Science Week – Australia

2018

Presentation for school children from Prep to Year 10 regarding coral biology, ecology and coral spawning as well as the impacts human actions are having on marine ecosystems. Interactive marine science table to learn about, for example, buoyancy, taxonomy and ecology techniques, amongst other things.

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 diverse 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 marine ecosystems.

LICENSES

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

WORKSHOPS & COURSES

National Student Mentoring Workshop - ARC Centre of Excellence for Coral Reef Studies	2018
Getting research into policy and practice – Centre for Policy Futures, UQ	2018
Two week R statistics course - ARC Centre of Excellence for Coral Reef Studies (Murray Logan, AIMS)	2018
National Student Mentoring Workshop - ARC Centre of Excellence for Coral Reef Studies	2017
Subtropical Bleaching Workshop – National Marine Science Centre, Coffs Harbour	2016
Coral Finder Course - Russell Kelley, BYO Guides	2016
Introduction to R – School of Biological Sciences, UQ	2016