

# Jennifer R. Hodge

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## EDUCATION

Ph.D. Marine Biology, James Cook University, Townsville. 2015  
(Advisors: D.R. Bellwood and L. vanHerwerden)  
M.App.Sc. Marine Biology, James Cook University, Townsville. 2008  
B.Sc. Marine Science/Biology, University of Miami, Coral Gables. 2005

## PROFESSIONAL APPOINTMENTS

UC Davis, Evolution & Ecology, NSF Postdoctoral Fellow. 1/2016 – 1/2018  
UC Davis, Evolution & Ecology, Postdoctoral Scholar. 1/2015 – 1/2016  
(Sponsoring Scientist: P.C. Wainwright)

## PUBLICATIONS

### Manuscripts in Review

Hodge, J.R. & Bellwood, D.R., in review. The geography of speciation in coral reef fishes: the relative importance of biogeographical barriers in separating sister-species. *Journal of Biogeography*.

### Peer-Reviewed Publications

Hodge, J.R. & Bellwood, D.R., 2015. On the relationship between species age and geographical range in reef fishes: are widespread species older than they seem? *Global Ecology and Biogeography* 24(4): 495–505. Impact factor: 6.53. Citations: 1.

Hodge, J.R., van Herwerden, L., Bellwood, D.R., 2014. Temporal evolution of coral reef fishes: global patterns and disparity in isolated locations. *Journal of Biogeography* 41(11): 2115–2127. Impact factor: 4.59. Citations: 5.

Hodge, J.R., Read, C.I., Bellwood, D.R., van Herwerden, L., 2013. Evolution of sympatric species: a case study of the coral reef fish genus *Pomacanthus* (Pomacanthidae). *Journal of Biogeography* 40(9): 1676–1687. Impact factor: 4.59. Citations: 7.

Hodge, J.R., Read, C.I., van Herwerden, L., Bellwood, D.R., 2012. The role of peripheral endemism in species diversification: evidence from the coral reef fish genus *Anampses* (Family: Labridae). *Molecular Phylogenetics and Evolution* 62(2): 653–663. Impact factor: 3.916. Citations: 24.

### **Manuscripts in Preparation**

Hodge, J.R. & Wainwright, P.C., in prep. A biogeographically dependent transition from sexual to natural selection in the divergence and reinforcement of labrid species. Targeted for *Ecology Letters*.

Hodge, J.R., Santini, F., Wainwright, P.C., in prep. Coral reef habitat and light are drivers of the evolution of sexual dichromatism in wrasses and parrotfishes (Family: Labridae). Targeted for *Proceedings of the Royal Society B*.

### **GRANTS AND FELLOWSHIPS**

- 2016 – 2018 NSF Postdoctoral Research Fellowship in Biology, Research Using Biological Collections. UC Davis. \$138,000
- 2013 – 2014 Graduate Research School Write-Up Scholarship. James Cook University. \$12,300
- 2013 Department of the Environment Australian Biological Resources Study Student Travel Bursary. James Cook University. \$1,000
- 2013 Faculty of Science and Engineering Doctoral Completion Scheme. James Cook University. \$2,500
- 2012 Faculty of Science and Engineering Graduate Research Scheme. James Cook University. \$1,500
- 2011 Australian Research Council Centre of Excellence for Coral Reef Studies. James Cook University. \$900
- 2011 Australian National Network in Marine Science Travel Grant. James Cook University. Full cost of conference travel and attendance
- 2010 – 2013 Australian Government Postgraduate Award. James Cook University. Tuition plus annual stipend (\$24,653 per annum, 2013 rate)

### **AWARDS AND HONORS**

- 2014 Citation for Outstanding Contributions to Student Learning (as part of the 'Mathematics in Science Teaching, Research and Development Team'), Office for Teaching and Learning, Australian Government Department of Education
- 2014 Ernst Mayr Award nominee, Society of Systematic Biologists
- 2008 University Medal, James Cook University

### **CONFERENCE PARTICIPATION**

## Papers Presented

- 2015 Sexual dichromatism and the diversification of fishes on coral reefs. Joint Meeting of Ichthyologists and Herpetologists. July 15–19, Reno, USA.
- 2015 Sexual selection and the diversification of coral reef fishes. Society for Systematic Biologists Stand-Alone Meeting. May 20–22, Ann Arbor, USA.
- 2014 Temporal evolution of coral reef fishes: global patterns and disparity in isolated locations. *Evolution*. June 20–24, Raleigh, USA.
- 2013 The role of peripheral endemism in species diversification. 9<sup>th</sup> Indo-Pacific Fish Conference. June 24–28, Okinawa, Japan. \*Invited\*
- 2012 The role of peripheral endemism in species diversification. 12<sup>th</sup> International Coral Reef Symposium. July 9–13, Cairns, Australia.
- 2011 The role of peripheral endemism in species diversification. 3<sup>rd</sup> Australian National Network in Marine Science Conference. November 29–December 1, Perth, Australia.
- 2011 The role of peripheral endemism in species diversification: evidence from the coral reef fish genus *Anampses* (Family: Labridae). School of Marine and Tropical Biology Student Conference: Biology in the Tropics. September 29–30, Townsville, Australia.

## TEACHING EXPERIENCE

### James Cook University

Systems Modeling & Visualization (Head TA: 2<sup>nd</sup> Semester 2010 – 2013)  
Introductory Marine Science (Head TA: 2<sup>nd</sup> Semester 2010 – 2013)  
Functional Biology of Marine Organisms (TA: 1<sup>st</sup> Semester 2010 – 2012)  
Evolution & Biogeography of Marine Organisms (TA: 1<sup>st</sup> Semester 2010 – 2012 graduate level, 2007 – 2008)  
Coral Reef Ecosystems (TA: 2-week Field Intensive 2010 – 2011)  
Introduction to Plant Science (TA: 2<sup>nd</sup> Semester 2010)  
Fundamentals of Biology (TA: 1<sup>st</sup> Semester 2007 – 2008)  
Marine Conservation Biology (TA: 2<sup>nd</sup> Semester 2007 – 2008)

### Middlemount Community School

Science & Mathematics (Special Needs Teacher Aide: K-12, 2009)  
Advanced Science & Mathematics (Coordinator: grades 11-12, 2009)

## RESEARCH EXPERIENCE

2012 – 2013, 2007 – 2008 Graduate Research Scientist, James Cook University. Field expeditions included: Lizard Island, Orpheus Island, Keppel Islands, Australia; and Kimbe Bay, Papua New Guinea.

## **SERVICE AND OUTREACH**

### **Review Work**

*Arxius de Miscel·lània Zoològica; Global Ecology and Biogeography; Journal of Biogeography; National Science Foundation; Proceedings of the National Academy of Sciences, India Section B: Biological Sciences.*

### **Memberships**

American Society of Ichthyologists and Herpetologists  
American Society of Naturalists  
International Biogeography Society  
International Society for Reef Studies  
Society for the Study of Evolution  
Society of Systematic Biologists

### **Community Involvement**

- 2015 Volunteer writer for Ask a Biologist (<https://askbiologist.asu.edu>), an educational resource that seeks to increase the accessibility of science.
- 2015 Assistant Instructor at the Bodega Bay Workshop in Applied Phylogenetics, an intensive, week-long graduate course.
- 2010 – 2013 Developed curricula for Introductory Marine Science, a multi-disciplinary course offered to first-year undergraduate students at James Cook University.
- 2007 – 2008 Mentor for the Science Experience Program for 9<sup>th</sup> and 10<sup>th</sup> grade students from local minority-serving high schools.