

# Rebecca Albright

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Citizenship: United States Citizen

## EDUCATION

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**University of Miami, Rosenstiel School of Marine and Atmospheric Science** May 2011

Ph.D., Marine Biology and Fisheries

Dissertation: "Effects of Ocean Acidification on Early Life History Stages of Reef-Building Corals"

Advisor: Dr. Chris Langdon

**Duke University** May 2003

B.S. Degree, Biology (Marine Biology Concentration)

## EMPLOYMENT HISTORY

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**Postdoctoral Research Scientist** 2014-present

Employer: Carnegie Institution for Science, Department of Global Ecology

Stanford, California 94305

Supervisor: Dr. Ken Caldeira

**Adjunct Researcher** 2014-present

Australian Institute of Marine Science

**Postdoctoral Research Fellow (Super Science Fellow, Australian Research Council)** 2011-2014

Employer: Australian Institute of Marine Science

Cape Ferguson, Queensland 4810, Australia

Supervisors: Dr. Ken Anthony and Dr. Janice Lough

## GRANTS AND FELLOWSHIPS

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- Great Barrier Reef Foundation, co-PI \$789,086 2013  
"Increasing the available carbonate chemistry data for the Great Barrier Reef"
- Great Barrier Reef Foundation, co-PI \$643,900 2013  
"Developing a Carbon Budget for the Great Barrier Reef"
- Australian Research Council, Super Science Fellow 2011-2014
- Mote Marine Laboratory, "Protect Our Reefs" Grant Recipient, co-PI \$22,604 2009
- George Burlew Tuna and Marlin Club Scholarship Recipient \$500 2008
- Lerner-Gray Fund for Marine Research, Grant Recipient \$1000 2008
- Mote Marine Laboratory, "Protect Our Reefs" Grant Recipient (co-PI) \$14,500 2007
- University of Miami Maytag Fellowship 2005-2008

## AWARDS

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- My Research in Three Minutes, AIMS Champion (Early Career Category) 2013
  - Rowland Award for Best Student Publication, University of Miami 2010
  - Frank J. Millero Prize for Best Student Publication, University of Miami 2008

## PUBLICATIONS

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- Edmunds, P.J., R. Albright, R. C. Carpenter, A. Chuie, T-Y. Fan, S. Harii, H. Kitano, H. Kurihara, L. Legendre, S. Mitarai, S. Muko, Y. Nozawa, J. Padilla-Gamino, K. Sakai, R. Steneck, G. Suzuki, M. van Oppen, A. Yarid, N. Satoh, I., R. D. Gates. (in press) Geographic variation in long-term trajectories of change in coral recruitment: a global-to-local perspective. *Marine and Freshwater Research*.
- Price, N. R. Albright, R. C. Carpenter, A. Chuie, P.J. Edmunds, et al. (*in review*) Coral reefs on the move: worldwide recruitment declines and expansion to higher latitudes.
- Saunders M., M. Foley, C. Febria, R. Albright, M. Mehling, M. Kavanaugh, D. Burfeind, C. Brown (*in review*) Human impacts on connectivity in marine and freshwater ecosystems: a network perspective.
- Uthicke S., D. Pecorino, R. Albright, A. P. Negri, N. Cantin, M. Liddy, S. Dworjanyn, P. Kamya, M. Byrne, and M. Lamare (2013) Impacts of ocean acidification on early life-history stages and settlement of the coral-eating sea star *Acanthaster planci*. *PLoS ONE* 8(12): e82938.  
Doi:10.1371/journal.pone.0082938.
- Albright R., C. Langdon, K. Anthony (2013) Dynamics of seawater carbonate chemistry, production, and calcification of a coral reef flat, Central Great Barrier Reef, *Biogeosciences*, 10: 6747-6758.
- Albright R., B. Mason (2013) Projected near-future levels of temperature and  $p\text{CO}_2$  reduce coral fertilization success. *PLoS One*, 8(2): e56468.
- Ocean Acidification and Coral Reefs: Linking Science to Solutions, Discussion paper prepared for the Great Barrier Reef Foundation, 2013.
- Albright R., C. Bland, P. Gillette, J. Serafy, C. Langdon, T. Capo (2012) Juvenile growth of the tropical sea urchin *Lytechinus variegatus* exposed to near-future ocean acidification scenarios. *Journal of Experimental Marine Biology and Ecology*, 426-427: 12-17.
- Albright R. (2011) Reviewing the effects of ocean acidification on sexual reproduction and early life history stages of reef-building corals. *Journal of Marine Biology*
- Albright R., C. Langdon (2011) Ocean acidification impacts multiple early life history processes of the Caribbean coral *Porites astreoides*. *Global Change Biology* doi: 10.1111/j.1365-2486.2011.02404.x.
- Albright R, Mason B, Miller M, Langdon C (2010) Ocean acidification compromises recruitment success of the threatened coral *Acropora palmata*. *Proceedings of the National Academy of Sciences*, 107(47): 20400-20404.
- Albright R, Mason B, Langdon C (2008) Effect of aragonite saturation state on settlement and post-settlement growth of *Porites astreoides* larvae. *Coral Reefs* 27:485-490.
- Torres R, Garza-Perez R, Morgan I, Leon Y, Albright R, Ginsburg R (2005) Dominican Republic Coral Reefs Condition Assessment Using the AGRRA Protocol. V Congress of Caribbean Biodiversity, Santo Domingo, Dominican Republic.

## ABSTRACTS AND PRESENTATIONS

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- Pears, R, Beeden, R, Abal, E, Albright, R, Anthony, K, Changing science needs for different management paradigms on a protection–restoration spectrum, **NCCARF Conference, Sydney Australia, 2013.**
- Albright R, Anthony K, Langdon, C, Drivers of seawater carbonate chemistry, calcification, and primary production of a coral reef flat, Central GBR, **Australia-Japan Marine Science Workshop, Tokyo, Japan, 2013.**

ABSTRACTS AND PRESENTATIONS (continued)

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- Albright R, Anthony K, Langdon, C, Drivers of seawater carbonate chemistry, calcification, and primary production of a coral reef flat, Central GBR, **ARC Centre of Excellence - Coral Reef Studies, Australia**, 2013.
- Albright R, Anthony K, Drivers of seawater carbonate chemistry on the Davies Reef flat, Central GBR. **3<sup>rd</sup> Int. Symp. on the Ocean in a High CO<sub>2</sub> World. Monterey, CA**, 2012.
- Albright R, Anthony K, Drivers of seawater carbonate chemistry on the Davies Reef flat, Central GBR. **12<sup>th</sup> Int. Coral Reef Symp. Cairns, Australia** 2012.
- Albright R, Mason BM, Miller M, Langdon C, Ocean acidification compromises recruitment success of the threatened Caribbean coral *Acropora palmata*. **International Society for Reef Studies. Wageningen**. 2010.
- Albright R, Mason BM, Miller M, Langdon C, Effect of ocean acidification on early life history stages of reef-building corals. **Australian Institute of Marine Science**, 2010.
- Albright R, Mason BM, Miller M, Langdon C, Effect of ocean acidification on early life history stages of reef-building corals. **James Cook University**. 2010.
- Albright R, Mason BM, Miller M, Langdon C, Effect of ocean acidification on early life history stages of reef-building corals. **Centre Scientifique de Monaco**. 2010.
- Albright R, Mason BM, Miller M, Langdon C, Ocean acidification compromises the recruitment success of the threatened Caribbean coral *Acropora palmata*. **Benthic Ecology Meeting. University of North Carolina Wilmington**. 2010.
- Albright R, Ocean acidification and coral reefs. **Florida International University Invited Lecturer. Miami, FL**. 2010.
- Albright R, Mason BM, Miller M, Langdon C, Effect of ocean acidification on early life history stages of reef-building corals. **Smithsonian, Invited Speaker. Ft. Pierce, FL**. 2009.
- Albright R, Mason BM, Miller M, Langdon C, The effect of elevated CO<sub>2</sub> on fertilization, embryogenesis, and development of *Acropora palmata*. **NCORE Symposium, Miami, FL**. 2009.
- Albright R, Mason BM, Langdon C, Effect of elevated carbon dioxide on settlement and post-settlement growth of *Porites astreoides* larvae. **11<sup>th</sup> Int. Coral Reef Symp. Ft. Lauderdale, FL**. 2008.
- Albright R, Mason BM, Langdon C, Effect of depressed saturation state on settlement, post-settlement survivorship, and growth of *Porites astreoides* and *Montastraea faveolata* larvae. **Ocean Sciences Meeting, Orlando, FL**. 2008.
- Torres R, Garza-Perez R, Morgan I, Leon Y, Albright R, Ginsburg R, Dominican Republic Coral Reefs Condition Assessment Using the AGRRA Protocol. **V Congress of Caribbean Biodiversity, Santo Domingo, Dominican Republic**. 2005.

TEACHING EXPERIENCE

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- Graduate Teaching Assistant** Spring, 2011  
**University of Miami**  
Courses: Survey of Oceanography
- Private Tutor** 2006-2011  
  - Subjects taught: AP Biology, AP Physics, Chemistry, Geometry, Pre-Calculus, Calculus, Algebra, Algebra 2.
- New Horizons Colegio Bilingue, Santo Domingo, Dominican Republic** 2003-2005  
  - Middle and High School Teacher
  - Subjects taught: Biology, Environmental Science, Chemistry, Health, Reading

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### MENTORING EXPERIENCE

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Barbara Pinheiro, Universidade Federal de Pernambuco, Brazil, PhD Student	2013-2014
John Pineda Thomson, 6 month Intern	2013
Beatriz Diaz-Guijarro, 12 month Intern	2013
Emmett Clarkin, 12 month Intern	2012

### SYNERGISTIC ACTIVITIES

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Australia-Japan Marine Science Workshop, Nominated Representative for AIMS	2013
Joint US-Japan-Taiwan Workshop, Biogeographic Trends in Coral Recruitment	2013
Scientific Advisor, Great Barrier Reef Foundation	2013
NBC Universal, NBC Learn, video interview	2011
National Public Radio (NPR), phone interview	2010
USA Today, phone interview	2010
Science News, phone interview	2010
E&Enews, phone interview	2010
ABC news, video interview	2010
NBC news, video interview	2010
One Ocean Documentary, Merit Motion Pictures	2009

### PROFESSIONAL EXPERIENCE

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<b>Duke University Alumni Association</b> , Board of Directors (S. Florida Chapter)	2005-2008
<b>Torres Environmental Consulting</b> , Vice President, Dominican Republic	2006-2007
<b>AEcomar S.A.</b> , Environmental consulting, Dominican Republic	2004-2006
<b>Fundacion MAMMA Inc.</b> Field Volunteer, Dominican Republic	2004-2006
<b>Reef Check Dominican Republic</b> , Vice President	2004-2007
<b>Reef Check Youth Dominican Republic</b> , Founder and Director	2004-2005

### CONTINUING EDUCATION

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Best Practices pH Sensor Workshop, Scripps Institute of Oceanography	2014
Career Coaching Program, Learning Partnerships	2013
Ocean Acidification Methods Course, Friday Harbor Laboratories	2013
Conflict Management for Women Workshop, Townsville, QLD	2013
International Ocean Acidification Workshop, Seattle WA, USA	2012
Scientific Writing Workshop (AIMS), Townsville, QLD	2012
Dallas Murphy Scientific Writing Workshop	2011
Ecological Dissertations in the Aquatic Sciences (Eco-DAS IX), Participant	2010
Judith Swan Scientific Writing Workshop	2009
Motorboat Operator Certification Course, Crew Chief Program	2009
NOAA Think Tank #5, A Strategic Planning Session for Ocean Acidification Research	2007
American Academy of Underwater Sciences (AAUS) Scientific Diving Certification	2006
Atlantic and Gulf Rapid Reef Assessment (AGRRA), Dominican Republic	2004
Dr. Douglas A. Marchuk, Duke University Genetics Laboratory, Intern	2003
Coral Gardens Seminar, United Nations, Participant, Dominican Republic	2003
PADI Rescue Diver Course	2003
Dr. Kathleen Smith Embryology Lab, Lab Assistant, Duke University	2001

## LANGUAGES

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Spanish: conversational

French: reading knowledge

## REFERENCES

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**Dr. Ken Anthony**, Research Team Leader: Climate Change and Ocean Acidification, AIMS

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**Dr. Janice Lough**, Research Team Leader: Climate Change and Ocean Acidification, AIMS

+61 (07) 4753 4248, j.lough@aims.gov.au

**Dr. Chris Langdon**, Associate Research Professor, RSMAS, University of Miami

+1 (305) 421-4614, clangdon@rsmas.miami.edu

**Dr. Margaret Miller**, National Marine Fisheries Service, Southeast Fisheries Science Center

+1 (305) 361-4561, Margaret.W.Miller@noaa.gov