

L.M. ALLEN-JACOBSON

Bartram Hall- Room 616
876 Newell Drive,
Gainesville, Florida
32611

LifeInAColony.com
(860) 292 – 0854
LianneJacobson@ufl.edu

EDUCATION

Doctor of Philosophy

University of Florida
2018

Gainesville, FL
Biology

*Life in a colony: growth,
morphology, and metabolic scaling*

Master of Science

California State University
2011

Northridge, CA
Biology

*Coral energetics: the response to
resource limitation*

Bachelor of Science

Northeastern University
2008

Boston, MA
in Biochemistry and Marine Biology

APPOINTMENTS

- 2018** **Postdoctoral Researcher (anticipated start date: Nov 1)**
Agricultural Research Service, USDA
Gainesville, Florida
*Fire ant ecology: including the effect of colony size on ant
communication*
- 2017-2018** **Adjunct Professor**
Biology, University of Florida
Gainesville, Florida
Marine Biology (ZOO 4403C)

GRANTS & AWARDS

- 2016-2017** **Nominated for Teaching Award**
Biology, University of Florida
Marine Biology and Ecology
- 2016-2017** **Nominated for Teaching Award**
Graduate School, University of Florida
Ecology
- 2016-2017** **Nominated for Service Award**
Biology, University of Florida
Undergraduate mentorship
- 2015** **Research Grant (\$2,000)**
QSE3 IGERT, National Science Foundation
*From polyp traits to colony morphology (jointly awarded to
Tavis Abrahamsen, Ph.D. in Statistics)*
- 2013** **Michael May Interdisciplinary Grant (\$1,000)**
Biology, University of Florida
*Resolving the origins and implications of coral morphospecies
(jointly awarded to Richie Hodel, Ph.D. in Biology)*
- 2012** **Travel Award (\$100)**
College of Liberal Arts and Sciences, University of Florida
- 2011** **Mature Funds (\$15,000)**
Biology, University of Florida
*Funds were awarded with my acceptance into the department
and have been used to facilitate graduate research*
- 2010** **Graduate Research Thesis Support (\$1,000)**
California State University, Northridge
- 2007** **Research Grant (\$1,000)**
Provost, Northeastern University

FELLOWSHIPS & RESEARCH

- 2018** **Dissertation Fellowship (accepted)**
College of Liberal Arts and Sciences, University of Florida
- 2018** **Dissertation Fellowship (awarded)**
Graduate School, University of Florida
- 2015** **Research Assistantship**
QSE3 IGERT, National Science Foundation
Correlated evolution of two traits associated with transitions in individuality: coloniality and symbiosis in Cnidarians
- 2012-2014** **Trainee Fellowship**
QSE3 IGERT, National Science Foundation
Cultivation by fishing: a theoretical explanation for the apparent resilience of the Gulf of Mexico's shrimp fishery
- 2010-2011** **Graduate Student Participant**
National Center for Ecological Analysis and Synthesis
Tropical coral reefs of the future: modeling ecological outcomes from the analysis of current and historical trends
- 2010-2011** **Graduate Equity Fellowship**
California State University, Northridge
- 2008-2011** **Research Assistantship in Polyp Laboratory**
California State University, Northridge
- 2008** **Research Experience for Undergraduates**
St. John, USVI
National Science Foundation, Supplement to LTREB (DEB 0343570)

TEACHING ASSISTANTSHIPS

- 2015-2017** **Ecology**
Biology, University of Florida
ZOO 4043C
- 2016** **Marine Biology**
Biology, University of Florida
ZOO 4403C
- 2014** **Integrative principles**
Biology, University of Florida
ZOO 6055/8698
- 2014** **Marine Ecology**
Biology, University of Florida
ZOO 4926
- 2011-2012** **Introductory Biology Online**
Biology, University of Florida
BSC 2007
- 2009-2010** **Introductory Biology**
California State University, Northridge

MENTEES

All mentees were undergraduate students unless otherwise noted.

2018 Austin Smith

Biology, University of Florida

Austin is quantifying the coral skeletal structures using nano-CT. I supported his training for the nano-CT and reconstruction software. Austin is now working in the Florida Museum of Natural History.

2016-2017 Christina Mallica

Biology, University of Florida

Christina added to my database of species traits used to predict variation in group metabolism. Christina is not a graduate student at Nova Southeastern University.

2016-2017 Jonna Boyda

Biology, University of Florida

Jonna added to my database of Cnidarian traits, specifically, whether each species forms colonies or associates with Symbiodinium spp.

2013-2016 Morgan Farrell

Biology, University of Florida

I trained Morgan to do fieldwork in the South Pacific and analyze time-lapse photographs of corals. Under my advisement, Morgan received support from the University Scholars Program. She is now a Ph.D. student at the University of Florida.

2014 Jana Huebner

Biology, University of Florida

I advised Jana on an independent project as part of Marine Ecology. Jana was a Ph.D. student at the University of Florida.

2014 Emily Olson

Biology, University of Florida

I advised Emily on an independent project as part of Marine Ecology. Emily was a Masters student who has since graduated from the University of Florida.

2014 Nicholas Carchi

Biology, University of Florida

I trained Nicholas to analyze samples of coral tissue, specifically: the density of Symbiodinium spp. and nematocysts.

2012-213 Corinne Fuchs

Biology, University of Florida

I trained Corinne to do fieldwork. Corinne also analyzed videos to quantify net retraction by a vermetid gastropod, and she will be a co-author on a manuscript. Under my advisement, Corinne received support from the University Scholars program. She is now a graduate student at the University of California, Santa Barbara.

2013 Julie Zill

Biology, University of Florida

After earning her Bachelors, Julie assisted with my fieldwork. Julie is now a Ph.D. student at the University of Hawaii.

2013 Brad Udell

Biology, University of Florida

Brad helped build a database of coral traits. Brad is currently a Ph.D. student at the University of Florida.

2012-2013 Angela Mulligan

Biology, University of Florida

I trained Angela to do fieldwork in the South Pacific. Under my advisement, Angela received support from the University Scholars Program. Afterward, Angela worked for the Florida Fish and Wildlife Conservation Commission.

OUTREACH

2015-2016 Frontiers for Young Minds paired with Conniston Middle

Biology, University of Florida

Conniston Middle School, West Palm Beach, Florida

Students were assigned a paper to review for Frontiers for Young Minds. I guided the students through the paper, summarized their comments in a review, and taught the students about scientific peer review. I was paired with Stephanie Killingsworth, a teacher at Conniston Middle.

2015 Physics Bus

Gainesville, Florida

I interacted with the public by teaching basic physics, but mostly by helping them engage in science

2011-2013 Atitia Center

Mo'orea, French Polynesia

I taught students (K-12) mini-lessons on marine ecology and my research

2009-2010 Viewpoint High School

Calabasas, California

I gave seminars on my research

2009-2011 Virgin Island Environmental Resource Station

St. John, USVI

I taught students (K-12) mini-lessons on marine ecology

SERVICE

2012-2017 Strategic Planning Committee

Biology, University of Florida

Biology Graduate Student Association

2016-2017 Curriculum Committee

Biology, University of Florida

Biology Graduate Student Association

2013-2014 Graduate Committee

Biology, University of Florida

Biology Graduate Student Association

2012-2013 Colloquium Committee

Biology, University of Florida

Biology Graduate Student Association

2012-2013 Welcoming Committee

Biology, University of Florida

Biology Graduate Student Association

SOCIETIES

- 2018 **Sigma Xi**
The scientific research honor society (Full member)
- 2016-2019 **International Society for Reef Studies**
- 2016-2018 **Ecological Society of America**
- 2012-2014 **Benthic Ecology Meeting Society**
- 2008-2012 **Western Society of Naturalists**

PRESENTATIONS

1. **Allen-Jacobson, L.M.** Metabolic scaling: changes in allometry during transitions in individuality.
2018: Gordon Research Seminar: Unifying Ecology Across Scales, Biddeford, ME (Accepted Talk)
2018: Gordon Research Conference: Unifying Ecology Across Scales, Biddeford, ME (Contributed Poster)
2. **Jacobson, L.M.** 2016. Metabolic scaling in colonies: the influence of integration.
2016: International Conference for Reef Studies, Honolulu, HI (Accepted Talk)
2016: Annual meeting of the Ecological Society of America, Fort Lauderdale, FL (Contributed Talk)
3. **Jacobson, L.M.,** C. Fuchs, J. Zill, M. Farrell, M. Gil, A. Brown, E. Hamman, C. Osenberg. The decoupling of tissue and skeletal production of corals in response to vermetid gastropods.
2014: Benthic Ecology Meeting, Jacksonville, FL (Contributed Talk)
4. **Jacobson, L.M.** The physiological coupling of tissue growth and skeletal production in corals.
2013: Benthic Ecology Meeting, Savannah, GA (Contributed Talk)
5. **Jacobson, L.M.,** E. Muller, R. Nisbet, and P.J. Edmunds. Scleractinian corals are capable of metabolic depression.
2012: Benthic Ecology Meeting, Norfolk, VA (Contributed Talk)
2010: Annual meeting of the Western Society of Naturalists, San Diego, CA (Contributed Talk)
6. **Jacobson, L.M.** and P.J. Edmunds. Long-term changes in biological water quality of seawater on a shallow Caribbean reef.
2009: Annual meeting of the Western Society of Naturalists, Monterey Bay, CA (Contributed Talk)
2008: Annual meeting of the Western Society of Naturalists, Vancouver, BC. (Contributed Poster)
7. **Jacobson, L.M.** and G. Begley. Qualitative and quantitative measures planktonic bacteria in groundwater.
2007: Eastern New England Biological Conference, Boston, MA (Contributed Poster)

PUBLICATIONS

8. **Jacobson, L.M.**, Edmunds, P.J., Muller, E.B., and R.M. Nisbet. 2016. The implications of reduced metabolic rate in a resource-limited coral. *J Exp. Biol.* 219: 870-877. DOI: 10.1242/jeb.136044
9. Edmunds, P.J., Adjeroud, M., Baskett, M., Baum, J., Baums, I., Budd, A., Carpenter, R.C., Fabina, N., Fan, T.-Y., Franklin, E., Gross, K., Han, S., **Jacobson, L.M.**, McClanahan, T., O'Leary, J., van Oppen, M.J.H., Pochon, X., Putnam, H.M., Smith, T.B., Stat, M., Sweatman, H., van Woesik, R., and R.D. Gates. 2014. Persistence and Change in Community Composition of Reef Corals through Present, Past, and Future Climates. *PLoS ONE* 9(10): e107525. DOI: 10.1371/journal.pone.0107525
10. **Jacobson, L.M.** and P.J. Edmunds. 2010. Long-term changes in the concentration of zooplankton and particulate matter over a fringing reef in St. John, US Virgin Islands. *Bulletin of Marine Sciences* 86: 763 – 772.

PREPARED MANUSCRIPTS

11. **Allen-Jacobson, L.M.** Modular coral growth: relationship to calcification and implications for morphology. Target: *Functional Ecology*
12. **Allen-Jacobson, L.M.**, Brown, A., Gil, M., Farrell, M., Fuchs, C., Hamman, E., Zill, J., and C.W. Osenberg Implications of vermetid density on coral growth, corallivory, and herbivory. Target: *Coral Reefs*.
13. **Allen-Jacobson, LM.** Metabolic scaling: changes in allometry during transitions in individuality. Target: *The American Naturalist*.