

CURRICULUM VITAE OF GRETCHEN GOODBODY-GRINGLEY

EURIAS Research Fellow, Institute of Advanced Studies

Alma Mater Studiorum – University of Bologna

Via F. Selmi 3, Bologna 40126, Italy

Tel (+39) 331-393-6608, email: gretchen.goodbody (at) unibo.it Instructor/Postdoctoral Scientist,
Bermuda Institute of Ocean Sciences 17 Biological Station, St. George's GE01, Bermuda

tel (441) 297-1880 ext. 249, fax (441) 297-8143, email gretchen.ggringley@bios.edu Nationality:
USA

Birthdate: 22 May 1979

Place of Birth: San Diego, CA, USA

Sex: Female

Marital status: Married

EDUCATION

Harvard University, Cambridge, MA 2003 – 2009 - **Ph.D.** in Organismic and Evolutionary Biology
Northeastern University, Boston, MA 2001 – 2002 - Three Seas Marine Biology Program

University of Georgia, Athens, GA 1997 – 2001

- **B.Sc.** in Biology, Cum Laude

• Semester Abroad, Oxford University, Keble College. 1999 • UGA Classics Program Abroad,
Rome, Italy. 1998

APPOINTMENTS

EURIAS Research Fellow: University of Bologna, Institute of Advanced Studies 2013-present

Instructor/Postdoctoral Scientist: Bermuda Institute of Ocean Sciences 2011-present

Adjunct Scientist: Mote Marine Laboratory 2011-present

Postdoctoral Researcher: Mote Marine Laboratory 2010-2011

Centers for Aquaculture and Coral Reef Research. Advisor: Kevan Main *Co-Instructor*: Bermuda
Institute of Ocean Sciences 2009-2010

Graduate Research and Teaching Fellow: Harvard University. Advisor: Robert M. Woollacott 2003-
2009

Faculty Research Assistant: University of Maryland. Kenneth P. Sebens 2002-2003 *Laboratory*

Technician: University of Georgia. Meryll Alber 2000-2001

RESEARCH INTERESTS

Reproduction and dispersal of marine invertebrates Ecology and evolutionary history of coral reefs

Climate change and invasive species

RESEARCH EXPERIENCE

Research Fellowship: University of Bologna, Institute of Advanced Studies

- Phylogeography and genetic connectivity of *Balanophyllia europaea*
- Effects of population demography on rates of self-fertilization

Postdoctoral Research: Bermuda Institute of Ocean Sciences 2011 – 2013

- Differential gene expression of corals exposed to ocean acidification conditions
- Growth and development of juvenile corals under varying environmental conditions
- Distribution and ecology of the invasive lionfish population in Bermuda

Postdoctoral Research: Mote Marine Laboratory, Tropical Research Laboratory 2010 – 2011
(Postdoctoral Advisor: Dr. Kevan Main)

- Coral culture and restoration techniques (PI's: Drs. Kevan Main and David Vaughan)
- Effects of South Louisiana crude oil and dispersants on coral life history (PI: Dr. Kim Ritchie – Mote)
- Molecular response of coral to South Louisiana crude oil and dispersants (PI: Dr. Sara Edge – HBOI)

Doctoral Research: Department of Organismic and Evolutionary Biology, Harvard University 2003 – 2009 (Dissertation advisor: Professor Robert M. Woollacott)

- Study of the reproductive timing and life history of *Favia fragum* in Bermuda
- Phylogeography of the brooding coral *F. fragum* and the broadcasting coral *Montastraea*

cavernosa

Independent research project: Three Seas Program, Northeastern University. 2001 (advisor:

Dr. M.A. Steele)

- The influence of habitat complexity on the aggressive behavior of the Beaugregory Damselfish (*Stegastes leucostictus*) in Discovery Bay, Jamaica

Undergraduate research: Department of Marine Science, University of Georgia 2000 – 2001
(research advisor: Professor Meryll Alber)

- Effects of natural disturbances to salinity on the population dynamics of two gastropod species from the Satilla River salt marshes of coastal GA

Scientific Cruises:

- PBS&J Consulting, coral reef monitoring at the Flower Garden Banks, TX, 2006
- University of Washington, PRISM oceanographic cruise, Puget Sound, WA. 2001
- University of Georgia Marine Science Department, Estuarine system of Georgia 2000

PUBLICATIONS

Speare, KE, Bruno, JF, **Goodbody-Gringley, G** (In Review) Combined effects of sedimentation and increased water temperature on the growth and development of juvenile coral spat. PLoS ONE

Page, C, **Goodbody-Gringley, G**, Leber, K, Bartels, E, Main, KL, Vaughan, D (In Revision) Effects of habitat type on the success of coral restoration in the Florida Keys. *Restoration Ecology*

Kenkel, CD, **Goodbody-Gringley, G**, Caillaud, D, Davies, SW, Bartels, E, Matz, MV (2013) Evidence for a host role in thermotolerance divergence between populations of the mustard hill coral (*Porites astreoides*) from different reef environments. *Molecular Ecology* 22: 4335-4348.

Goodbody-Gringley, G, Wetzel, DL, Gillion, D, Pulster, E, Miller, A, Ritchie, KB (2013) Toxicity of Deepwater Horizon source oil and the chemical dispersant, Corexit 9500, to coral larvae. *PLoS ONE* 8(1): e45574. doi:10.1371/journal.pone.0045574

Kenkel CD, **Goodbody-Gringley G**, Bartels E, Davies SW, Percy AL, Matz MV (2012) Evidence of local thermal adaptation in a Caribbean coral. *Integrative and Comparative Biology* 52: E92.

Goodbody-Gringley, G, Woollacott, RM, Giribet, G (2012) Population structure and connectivity of the Atlantic scleractinian coral *Montastraea cavernosa* (Linnaeus, 1766). *Marine Ecology* 33: 32-48.

Goodbody-Gringley, G (2010) Diel planulation by the brooding coral *Favia fragum* (Esper). *Journal of Experimental Marine Biology and Ecology* 389: 70-74.

Goodbody-Gringley, G, Vollmer, S, Woollacott, RM, Giribet, G (2010) Limited gene flow in the brooding coral *Favia fragum* (Esper, 1797). *Marine Biology* 157: 2591-2602.

Goodbody-Gringley, G and de Putron, SJ (2009) Patterns of planulation by the brooding coral *Favia fragum* (Esper) in Bermuda. *Coral Reefs* 28: 959-963.

PRESENTATIONS

Oral:

International Coral Reef Symposium, Cairns, Australia, 2012

Euro International Society for Reef Studies Meeting, Wageningen, Netherlands, 2010 *International Coral Reef Symposium*, Fort Lauderdale, 2008

Harvard University, G4 Symposium, 2007

Benthic Ecology Meeting, University of Connecticut, 2003

Poster:

Euro International Society for Reef Studies Meeting, Wageningen, Netherlands, 2010 *Linking Science to Management: A conference on the Florida Keys Marine Ecosystem*, 2010 *Benthic Ecology Meeting*, Georgia Institute of Technology, 2007

South Eastern Estuarine Research Society, Annual Meeting, Charleston, SC. 2001

- "**Best Undergraduate Poster**"

TEACHING & SERVICE

Instructor: Bermuda Institute of Ocean Science, Marine Invertebrate Zoology (Fall 2011- Present)

Independent Consulting: Bermuda Zoological Society, BREAM Project (August 2011-Present) Co-Instructor: Bermuda Institute of Ocean Science

- Coral Reef Ecology (Summer & Fall 2009; Summer 2011 & 2012)

- Marine Biology and Oceanographic Research (Fall 2009)

Teaching Fellow: Harvard University, OEB 234 Topics in Marine Biology (Spring 2005, 2008 & 2009)

- Harvard University Certificate of Distinction in Teaching (2009)

Teaching Fellow: Harvard University, Marine Life and Ecosystems of the Sea (Summer 2008)

Head Teaching Fellow: Harvard University, Science B-53 Marine Biology (Fall 2006 & 2007)

Teaching Assistant: Bermuda Institute of Ocean Science, Coral Reef Ecology (Summer 2005-2007)

Undergraduate Advising:

- Supervised 13 undergraduate independent research projects and 1 NSF-REU project in Bermuda (2009-2013)

- Supervised 8 undergraduate interns, Mote Marine Laboratory (2010)

- Field advisor to Harvard College undergraduates: H. Rivera (2011&2012); L. Stoppel (2007)

Guest Lectures:

- SeaCamp: Science Night lecture series, Summer 2010

- Columbia University: Summer Ecosystem Experience for Undergrads (SEE-U), June 2010

Journal Reviewer:

- *Marine Biology* • *Marine Ecology* • *Biological Bulletin* • *Invertebrate Systematics* • *Hydrobiologia* • *Pacific Science* • *Marine Biodiversity* • *PLoS ONE* • *Coral Reefs* • *JEMBE*

Professional Associations:

- International Coral Reef Society • American Society of Limnology and Oceanography •

Graduate Women in Science • Bermuda Lionfish Taskforce Committee

AWARDS and HONORS

- Darwin Initiative; Darwin Plus Funding – DPLU S001, \$264,080: *Bermuda Invasive Lionfish Control Initiative*. (2013-2015)

- EURIAS Fellowship: 10-month research fellowship at the Institute of Advanced Studies, University of Bologna (UNIBO), Italy. *Prevalence of self-fertilization in a Mediterranean coral population*. (2013-2014)

- Lerner Gray Memorial Fund – American Museum of Natural History (Co-PI: S. Goffredo), \$2000: *Self-fertilization as a mechanism for population maintenance*.(2013-2014)

- NSF DBI-1034738 with Kim B. Ritchie, \$103,889: *Development of a Multi-User Molecular Facility at Mote Marine Laboratory's Tropical Research Laboratory*. (2011)

- BP/FIO – Gulf Oil Spill Prevention, Response & Recovery Grant with Sara Edge, Joshua Voss, Kate Semon and Rob Ruzicka, \$285,346: *Molecular diagnostics of coral exposed to oil and dispersants: A holobiont approach to investigate potential effects on the host corals, symbiotic algae, and mucus associated microbial communities*. (2010-2012)

- Protect Our Reefs Grant with Mote postdoctoral supervisor Kevan Main \$37,000: *Coral Aquaculture and Restoration*. (2010-2011)
- Putnam Expedition Grant, Museum of Comparative Zoology, Harvard University, \$7,000 (2006)
- PADI, Project AWARE Foundation Fellowship, \$1,750 (2005) - BIOS Grant-in-Aid Fellowship, \$1200 (2004)
- HOPE scholarship (1997-2001)
- UGA Deans List (1997-2001) & Presidential Scholar (1998)

ADDITIONAL QUALIFICATIONS

- PADI certified Dive Master (2010-present)
- AAUS certified scientific diver (2001-present) - Experience handling small boats