

Lauren A. Yeager

Curriculum Vitae

National Socio-Environmental Synthesis Center
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Education

- 2013 Ph.D. in Biology, Florida International University, Miami, FL
(Adviser: Dr. Craig Layman)
- 2006 Bachelor of Science, Eckerd College, St. Petersburg, FL
Majors: Marine Science (Biology Track) and Spanish
(Adviser: Dr. William Szelistowski)

Professional/Research Appointments

- 2014-Present *Postdoctoral Fellow*, National Socio-Environmental Synthesis Center
(Advisers: Dr. Julia Baum and Dr. Jana McPherson)
- 2013-2014 *Postdoctoral Researcher*, University of North Carolina at Chapel Hill, Institute of
Marine Sciences (Adviser: Dr. Joel Fodrie)
- 2006-2007 *Fulbright Researcher*, Institute of International Education, CINVESTAV del
Instituto Politécnico Nacional, Mérida, Mexico (Adviser: Dr. J. Ernesto Arias-
González)
- 2003-2006 *Wetland Ecology Intern/Technician*, U.S. Geological Survey, St. Petersburg, FL
(Adviser: Dr. Carole McIvor)

Grants and Fellowships

- 2014-2016 Postdoctoral Fellowship, National Socio-Environmental Synthesis Center, \$119,500
- 2013-2015 North Carolina Coastal Recreational Fishing Licenses Program, Co-PI (with Dr. Joel
Fodrie, UNC-IMS), \$217,400
- 2014 North Carolina Sea Grant Minigrant, \$5,000
- 2012-2013 Dissertation Year Fellowship, Florida International University, \$18,600
- 2007-2012 National Science Foundation Graduate Research Fellowship, \$121,500
- 2008, 2012 Sigma-Xi Grants-In-Aid of Research, \$1000
- 2011-2012 Various travel awards, \$1,100
- 2008-2010 Florida International University Presidential Fellowship, \$72,000
- 2006-2007 Fulbright Grant, \$18,000
- 2005-2006 Ford Scholars Program Research Grant, Eckerd College, \$2,400
- 2005 National Science Collegium Summer Research Grant, Eckerd College, \$2,500

Additional Honors:

2012	FIU University Graduate School Provost Award for Outstanding Paper or Manuscript
2006	Marine Science Academic Excellence Award, Eckerd College
2006	Natural Science Collegium Scholarship and Service Award, Eckerd College
2006	Best Student Poster Runner-up, Florida Chapter of the American Fisheries Society Meeting
2005	Best Research Project, Comparative Animal Physiology, Eckerd College
2004	Barry Goldwater Scholar
2002	Eckerd College Honors Scholar
2002	L. Barry Santy Memorial Scholar

Publications

17 peer-reviewed publications (3 additional in review)
209 Google scholar citations, h-index = 7

Chacin, DH, Giery, S, **Yeager, LA**, Layman, and CA, Langerhans, RB. In press. Bird communities in fragmented and unfragmented wetlands in The Bahamas. *Wetlands Ecology and Management*.

Zapata, MJ, **Yeager, LA**, and Layman, CA. In press. Day-night patterns in natural and artificial patch reef fish assemblages of The Bahamas. *Caribbean Naturalist*.

Yeager, LA, Stoner, EW, Zapata, MJ, and Layman, CA. 2014. Does landscape context mediate density dependence in a coral reef fish? *Ecological Applications* 24(7): 1833-1841.

Stoner, EW, **Yeager, LA**, Selliban, SS, and Layman, CA. 2014. Modification of a seagrass community by benthic jellyfish blooms and nutrient enrichment. *Journal of Experimental Marine Biology and Ecology* 461: 182-192.

Yeager, LA, Hammerschlag-Peyer, CM, and Layman, CA. 2014. Diet variation of a generalist fish predator, grey snapper *Lutjanus griseus*, across an estuarine gradient: trade-offs of quantity for quality? *Journal of Fish Biology* 85(2): 264-277.

Stoner, EW, **Yeager, LA**, and Layman, CA. 2014. Effects of epibenthic jellyfish, *Cassiopea* spp., on faunal community composition of Bahamian seagrass beds. *Caribbean Naturalist* 12:1-10.

Layman, CA, Allgeier, JE, **Yeager, LA**, and Stoner, EW. 2013. Thresholds of ecosystem response to nutrient enrichment from fish aggregations. *Ecology* 94(2):530-536.

Allgeier, JE, **Yeager, LA**, and Layman, CA. 2013. Consumer regulation of nutrient limitation regimes and primary production. *Ecology* 94(2):521-529.

Yeager, LA, Acevedo, CL, and Layman, CA. 2012. Effects of seascape context on condition, abundance, and secondary production of a coral reef fish, *Haemulon plumieri*. *Marine Ecology Progress Series* 462: 231-240.

Layman, CA, Araújo, MS, Boucek, R, Harrison, E, Jud, ZR, Matich, P, Hammerschlag-Peyer, CM, Rosenblatt, A, Vaudo, J, **Yeager, LA**, Post, DM, and Bearhop, S. 2012. Applying stable isotopes to examine food web structure: an overview of analytical tools. *Biological Reviews* 87(3): 545-562.

Hammerschlag-Peyer, CM, **Yeager, LA**, Araujo, MS, and Layman, CA. 2011. A hypothesis-testing framework for studies investigating ontogenetic niche shifts using stable isotope ratios. *PLoS ONE* 6(11): e27104.

Yeager, LA, Layman, CA, and Allgeier, JE. 2011. Effects of habitat heterogeneity at multiple spatial scales on fish community assembly. *Oecologia* 167:157-168.

Won award for FIU UGS Provost Award for Outstanding Paper or Manuscript

Stoner, EW, Layman, CA, **Yeager, LA**, and Hassett, HM. 2011. Effects of anthropogenic disturbance on the abundance and size of epibenthic jellyfish *Cassiopea* spp. *Marine Pollution Bulletin* 62: 1109-1114.

Yeager, LA and Layman, CA. 2011. Energy flow to two abundant consumers in a sub-tropical oyster reef food web. *Aquatic Ecology* 45:267-277.

Layman, CA, Allgeier, JE, Rosemond, AD, Dahlgren, CP, and **Yeager, LA**. 2011. Marine fisheries declines viewed upside down: human impacts on consumer-driven nutrient recycling. *Ecological Applications* 21:343-349.

Yeager, LA and Arias-Gonzalez, JE. 2008. Preliminary survey of fish community composition in seagrass habitat in two back-reef lagoons of the southern Mexican Caribbean. *Gulf and Caribbean Research* 20: 41-47.

Yeager, LA, JM Krebs, AB Brame, and CC McIvor. 2007. Comparison of juvenile blue crab abundances in three mangrove habitat types in Tampa Bay, Florida USA. *Bulletin of Marine Science* 83: 555-565.

Manuscripts in review

Fodrie, FJ, **Yeager, LA**, Layman, CA, Grabowski, JH, and Kenworthy, MD. In review. Intrapopulation variation in habitat use driven by landscape connectivity and seasonal patch availability. *Oecologia*.

Yeager, LA, Stoner, EW, Peters, JR, and Layman, CA. In review. Terrestrial-aquatic food web subsidy mediated by multiple predator effects on behavior of an arboreal crab. *Oikos*.

Peters, JR, **Yeager, LA**, and Layman, CA. In review. Comparison of fish assemblages in restored and natural mangrove habitats along urban shorelines of Biscayne Bay, Florida. *Bulletin of Marine Science*.

Manuscripts in advanced stages of preparation

Yeager, LA, Valdivia, A, and Cox, CE. In prep. Occupancy-abundance relationships in Caribbean reef fish assemblages and the effects of marine reserves. To be submit to *Diversity and Distributions*.

Yeager, LA, Keller, DA, Burns, TR, Pool, A, and Fodrie, FJ. In prep. Habitat fragmentation per se affects community diversity at landscape scales. To be submit to *Ecology Letters*.

Teaching Experience

- 2014 *Instructor*, University of North Carolina at Chapel Hill
Ecological Community Analysis (graduate level)
- 2013 *Co-instructor*, University of North Carolina at Chapel Hill
Estuarine and Coastal Marine Ecology (undergraduate level)
- 2011-2013 *Seminar Leader*, Florida International University
Organized and lead weekly meetings for an undergraduate scientific paper discussion group.
- 2011, 2012 *Guest Lecturer*, Florida International University
Undergraduate lecture on “Seagrass Ecosystems” for Ecology Course.
- 2011 Career opportunities overview for Marine Biology undergraduates.
- 2009 Undergraduate lecture on “Landscape Ecology” for Ecology course.
- 2008 Undergraduate lecture on “Microbes and Primary Producers” for Introduction to Marine Biology course.
- 2008 *Teaching Assistant*, Florida International University
Taught two sections of Introduction to Marine Science Laboratory. Designed course syllabus and implemented weekly laboratory activities.
- 2007 *Teaching Assistant*, Florida International University
Taught two sections of General Biology II Laboratory. Led weekly laboratory activities.
- 2006 *Teaching Assistant*, Eckerd College
Assisted professor in laboratory portion of Principles of Ecology class. Designed and taught laboratory experiment, graded assignments, helped students outside of class, and prepared weekly laboratory experiments.

Professional Presentations and Posters

Only first-authored presentations and posters listed

Yeager, LA. Spatial food web subsidies in coastal ecosystems. *Chesapeake Biological Laboratory Seminar Series*. July 2014.

Yeager, LA. Effects of landscape context on the structure and function of coastal ecosystems. *Georgia Southern University Biology Seminar Series*. March 2014.

Yeager, LA. Effects of landscape context on habitat value of coastal ecosystems. *University of North Carolina at Chapel Hill Institute of Marine Sciences Seminar Series*. Oct 2013.

Yeager, LA, Acevedo, CL, Allgeier, JE, Layman, CA. Seascape context affects community assembly and habitat quality for fishes using model patch reefs. *41st Annual Benthic Ecology Meeting*. Mar 2012.

Yeager, LA, Layman, CA, Allgeier, JE. Seagrasses and their importance to coral reef fish communities. *Abaco Science Alliance Conference*. Jan 2012.

- Yeager, LA,** Acevedo, CL, Layman, CA. Effects of seascape context on condition, abundance and production of a coral reef fish. Poster Session, *8th International William R & Lenore Mote Symposium: Species Interactions in Marine Communities*. Nov 2011.
- Yeager, LA,** Layman, CA, Hammerschlag-Peyer, CM. Foraging trade-offs of a generalist fish predator viewed from the landscape-scale. *96th Annual Ecological Society of America Meeting*. Aug 2011.
- Yeager, LA,** Layman, CA. Role of oyster reefs in supporting juvenile and sub-adult mangrove snapper (*Lutjanus griseus*): a food web perspective. *5th Loxahatchee Watershed Science Symposium*. Mar 2011.
- Yeager, LA,** Layman, CA, Hammerschlag-Peyer, CM. Foraging trade-offs of a generalist fish predator viewed from the landscape-scale. *40th Annual Benthic Ecology Meeting*. Mar 2011.
- Yeager, LA,** Layman, CA, Hammerschlag-Peyer, CM. Foraging trade-offs of a generalist fish predator viewed from the landscape-scale. *FIU Biology Research Symposium*. Jan 2011.
- Yeager, LA,** Layman, CA, Hammerschlag-Peyer, CM, Allgeier, JE. Does Landscape context effect habitat value? The importance of seascape ecology in back-reef systems. *Smithsonian Marine Station Seminar Series*. Apr 2010.
- Yeager, LA,** Layman, CA. Experimental test of how landscape- and patch-scale variables affect fish community assembly. *FIU Biology Research Symposium*. Feb 2010.
- Yeager, LA,** Krebs, JM, Brame, AB, McIvor, CC. Recruitment of juvenile blue crabs to natural tidal creeks and altered ditches in mangrove wetlands. *First International Symposium on Mangroves as Fish Habitat*. Apr 2006.
- Yeager, LA.** Habitat utilization by juvenile reef fishes in Manzanillo, Costa Rica. Poster Session, *26th Annual Meeting of the Florida Chapter of the American Fisheries Society*. Feb 2006.

Reviews

Reviewed manuscripts for:

Aquatic Biology
Bulletin of Marine Science
Ecology
Estuaries and Coasts
Estuarine, Coastal and Shelf Science
Fisheries
Journal of Fish Biology

Journal of Experimental Marine Biology and Ecology
Journal of Sea Research
Marine Ecology Progress Series
Restoration Ecology
Oikos

Reviewed grants for:

NOAA Seagrant

Mentoring and Educational Outreach

- 2013-2014 *Undergraduate mentor*, University of North Carolina at Chapel Hill
Advised 4 undergraduate students on independent field and mesocosm-based experiments leading to 1 co-authored publication in preparation and one honors thesis.
- 2008- 2013 *Undergraduate mentor*, Florida International University
Advised 13 undergraduate students with field internships and independent research projects, leading to 7 co-authored manuscripts published/in review and two honors theses.
- 2011, 2012 *Environmental summer camp*, Abaco, Bahamas
Designed and led fieldtrips for an environmental summer camp program for youth on Abaco, Bahamas ran by Friends of the Environment (local non-profit).
- 2011, 2012 *Miami-Dade County Science Fair*, Miami, FL
Judged student projects (grades 6-12).
- 2012 *Career Day*, Aventura City Excellence School, Aventura, FL
Spoke to 6th graders about careers in marine biology
- 2011 *Teacher Training Workshop*, Mangrove and Tidal Creek Ecosystems
Helped lead a field based workshop on the importance of mangrove ecosystems in Abaco, Bahamas, involving 40 teachers.
- 2010 *Guest speaker*, Camp Live Oak Science Program, Miami, FL
Gave marine biology talk and science demonstration for science summer camp (grades K-5).
- 2009 *Jupiter High School Summer Internship Program*, Jupiter, FL
Created a field-based summer internship program for local high school students. The top four students were selected based on an application process. The students were involved in weekly field work, being exposed to multiple research projects (grades 11-12).
- 2006 *Teacher of introductory marine conservation*, Quintana Roo, Mexico
Taught weekly marine conservation classes to primary school students (grades K-5).
- 2006 *Women in Science Career Interviews*, St. Petersburg, FL
Interviewee for young women participating in the Oceanography Camp for Girls.
- 2004-2005 *Science Center of Pinellas County*, St. Petersburg, FL
Educated public on marine topics, maintained aquaria, designed exhibits.
- 1998-2002 *Marine Science Summer Camp*, Clearwater Marine Aquarium, Clearwater, FL
Helped with youth summer camp program.

Environmental Stewardship Activities

- 2010, 2012 *Lionfish Derby*, Abaco, Bahamas
Helped run a local “derby” involving local fisherman to target and raise awareness about invasive lionfish in Abaco, Bahamas.
- 2010 *Restoration at Broad Creek*, Abaco, Bahamas
This restoration project involved the restoration of tidal flow to a mangrove creek previously fragmented by a road. Concomitant with the restoration project, I gave school presentations and ran field trips involving local 510 students (grades K-12).
- 2001 *Tampa Baywatch*, St. Petersburg, FL
Volunteered on Bay Grasses for Classes, Seagrass Transplanting, and Great Bay Scallop Search programs.

Communicating Science to the Public

- 2011-2012 *Blog contributor*, The Abaco Scientist
Contributed online articles about ongoing research activities on a blog (<http://abasci.fiu.edu>) targeted for use by other scientists, managers, schools and the general public.
- 2011-2012 *Newsletter contributor*, Friends of the Environment
Regularly contribute articles for the general public to a monthly newsletter about current research and ecology of Abaco’s ecosystems. Over 1000 people receive this newsletter.

Professional Societies

Ecological Society of America	Sigma Xi, The Scientific Honor Society
Phi Beta Kappa, Honor Society	Sigma Delta Pi, Spanish Honor Society

Special Certifications/Skills

Experienced with Geographical Information Systems (ArcGIS)	Boat Crew Chief (MOCC) certified, 2008
Statistical packages/languages: SAS, MATLAB, R, Unix/Shell, PRIMER-E	American Red Cross First Aid and CPR certified, 2012
Languages: English (native), Spanish (excellent), Haitian Creole (Basic)	AAUS Scientific Diver, 2011