

Nicole D. Fogarty, PhD

Nova Southeastern University, Department of Marine and Environmental Sciences
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EDUCATION

- 2010 **Ph.D. Biological Science**
Florida State University: Tallahassee, Florida
Advisor: Dr. Don Levitan
Dissertation Title: Reproductive isolation and hybridization dynamics in threatened Caribbean acroporid corals
- 1998 **B.A. Biological Science**
Wittenberg University, Springfield, Ohio
Major: Biology; *Minor:* Environmental Studies
Undergraduate Research Advisor: Dr. Timothy Lewis
Courses: Duke U. Marine Lab, Bahamian Field Station, Bermuda Biological Station

PROFESSIONAL EXPERIENCE

- 2012- present **Assistant Professor**
Nova Southeastern University, Dania Beach, FL
Halmos College of Natural Science and Oceanography
Department of Marine and Environmental Sciences
Supervisors: Dr. Richard Dodge (Dean); Dr. Bernhard Riegl (Chair)
- 2010-2012 **Smithsonian Institution Postdoctoral Fellow**
Smithsonian Marine Station, Fort Pierce, FL
Advisors: Drs. Valerie Paul and Nancy Knowlton
- 2003-2010 **Instructor, Research Assistant, and Teaching Assistant**
Florida State University, Tallahassee, FL
Supervisors: Dr. Don Levitan (research); Dr. Ann Lundstrom (teaching)
- 2003 **Science Technician**
NOS/NOAA, Center for Coastal Fisheries & Habitat Research, Beaufort, NC
Supervisor: Dr. Mark Fonseca
- 2001-2003 **Research Associate**
University of North Carolina at Wilmington, North Carolina
Supervisor: Dr. Alina Szmant; collaborator: Dr. Margaret Miller
- 2000-2001 **Marine Ecology Program Manager**
The Nature Conservancy, Florida Keys
Supervisors: Dr. Brian Keller and Chris Bergh
- 1998-1999 **Marine Science Instructor and Intern**
Newfound Harbor Marine Institute at SeaCamp, Big Pine Key, Florida
Supervisor: John Booker

RESEARCH GRANTS and CONTRACTS

2017-2018	Norwegian Cruise Lines <i>Reef Coral Rearing, Restoration, and Research at Great Stirrup Cay, Bahamas; Education and Engagement for NCL Guests, Collaborators: Drs. Craig Dahlgren, Abby Renegar</i>	\$83,813
2016- 2018	NOAA Coral Reef Conservation Program, Identifying disease resistant and thermal tolerant threatened coral genotypes Co-PI: Dr. Steven Miller, Project Manager: Morgan Hightshoe	\$50,356
2015-2018	National Science Foundation, \$1,091,594 total <i>Collaborative Research: Hybridization, the key to threatened species survival or the harbinger of extinction?</i> Co-PIs: Drs. Iliana Baums and Webb Miller	\$391,917 (NSU)
2016-2017	Mote Marine Laboratory Protect Our Reef Grant Can forming coral chimeras (colonies with multiple genotypes) be a novel restoration method used with microfragmenting techniques? Project Manager: Ashley Dungan	\$5,000
2016	Florida Department of Environmental Protection, \$25,000 total Comprehensive Conditions Assessment. Co-PI: Dr. Esther Peters	\$12,500 (NSU)
2016	The Nature Conservancy Contract: <i>Acropora cervicornis</i> genotyping	\$12,000
2015-2016	Mote Marine Laboratory Protect Our Reef Grant <i>Multigenerational investigation of Diadema antillarum under ocean acidification conditions.</i> Co-PI: Dr. Emily Hall; Research Assistant: Ashley Dungan	\$9,886
2015-2016	NSU President's Faculty Research & Development Grant <i>Do hybrids of threatened corals survive better in a warming ocean?</i> Collaborators: Drs. Cliff Ross and Ester Peters, Graduate assistant: Margaret Rushmore	\$14,986
2014-2018	NOAA Coral Reef Conservation Program, \$443,489 total <i>Investigating how coral recruitment and juvenile survivorship varies along the Florida Reef Tract.</i> Co-PIs: Rob Ruzicka, Dr. Danny Gleason; Graduate Assistant: Leah Harper	\$123,224 (NSU)
2014-2015	Mote Marine Laboratory Protect Our Reef Grant <i>Quantifying the effect of ocean acidification on microcalcification among coral life history stages.</i> Graduate Assistant: Ashley Dungan	\$9,926
2014-2016	NSU President's Faculty Research & Development Grant <i>How does colony size and density influence paternity in a brooding coral?</i> Graduate Assistant: Alicia Vollmer	\$9,985
2014- 2016	NSU President's Faculty Research & Development Grant <i>Reproductive Behavior of Nursery Reared Staghorn Coral: Documenting Outplant Success</i> Co-PI: Dr. Dave Gilliam; Graduate Assistant: Katie Correia	\$10,000
2014-2015	NOAA Coral Reef Conservation Program <i>MESOPHOTIC REEFS: The Future of Shallow Reefs May Lie Deeper than Expected</i> Graduate assistant: Alicia Vollmer	\$34,548

2013-2016	Florida State Wildlife Grant <i>Population structure of Montastraea annularis and M. franksi and their associated zooxanthellae endosymbionts throughout the Florida reef tract</i> Co-PIs: Drs. Joe Jopez and Don Levitan	\$72,500
2013-2015	NSU President's Faculty Research & Development Grant <i>Effects of sex steroids on coral reproduction and growth;</i> Graduate assistant: Josh Stocker	\$9,985
2013-2015	NSU President's Faculty Research & Development Grant <i>The effects of petroleum pollutants on sea urchin reproduction and development</i> Graduate assistant: Kellie Pelikan	\$8,168
2011-2013	Smithsonian Walcott Endowment <i>Carrie Bow Belize Caribbean acroporid coral demographic project.</i> Co-PI: Dr. Valerie Paul	\$21,500
2007-2009	National Geographic Society #8230-07 <i>The significance of hybridization in a threatened Caribbean coral genus, Acropora</i> Co-PI: Dr. Don Levitan	\$20,000

PUBLICATIONS (ORCID # 0000-0003-3811-3791) H-index = 10 (<https://works.bepress.com/nicole-fogarty/>)

Ross, C., **N.D. Fogarty**, R. Ritson-Williams, V.J. Paul (accepted). Interspecific variation in coral settlement and fertilization success in response to hydrogen peroxide exposure. *Biological Bulletin*

Devlin-Durante, M.K., M.W. Miller, Caribbean *Acropora* Research Group (L. Carne, T.B. Smith, A. T. Banaszak, L. Greer, Adele Irwin, **N.D. Fogarty**), W.F. Precht, I.B. Baums. (2016). How old are you? Age estimates in a clonal animal. *Molecular Ecology*, 25(22): 5628-5646.

GIGA community scientists 2014. Global Invertebrate Genomics Alliance (GIGA): Developing Community Resources to Study Diverse Invertebrate Genomes; *Journal of Heredity*: 105(1):1-18.

Kirk, N.L., R. Ritson-Williams, M.A. Coffroth, M.W. Miller, **N.D. Fogarty**, S.R. Santos. 2013. Tracking Transmission of Apicomplexan Symbionts in Diverse Caribbean Corals. *PLoS ONE*. 8(11): e80618. doi:10.1371/journal.pone.0080618

Fogarty, N.D., M. Lowenberg, M.N. Ojima, and N. Knowlton, D.R. Levitan. 2012. Asymmetric conspecific sperm precedence in relation to spawning times in the *Montastraea annularis* species complex (Cnidaria: Scleractinia). *The Journal of Evolutionary Biology* 25: 2481-2488.

Fogarty, N.D. Caribbean acroporid hybrids are viable across life history stages. 2012. Caribbean acroporid coral hybrids are viable across life history stages. *Marine Ecology Progress Series*, 446: 145-159.

Jeffery, C.F.G., S.D. Hile, C.M. Addison, J. Ault, C. Currin, D. Field, **N.D. Fogarty**, J. Luo, V. McDonough, D. Morrison, G.A. Piniak, V. Ransibrahmanakul, S.G. Smith, S. Viehman. 2012. Assessment of natural resource condition in and adjacent to the Dry Tortugas National Park. *Natural Resource Report NPS/DRTO/NRR*: 1-178.

- Piniak, G.A., S. Viehman, C.M. Addison, **N.D. Fogarty**. 2012. Characterization of Benthic Communities. pp 31-42. In: C.F.G. Jeffrey, V.R. Leeworthy, M.E., Monaco, G. Piniak, M. Fonseca (eds.). 2012. An Integrated Biogeographic Assessment of Reef Fish Populations and Fisheries in Dry Tortugas: Effects of No-take Reserves. NOAA Tech MemoNOS NCCOS 111. Prepared by the NCCOS Center for Coastal Monitoring and Assessment Biogeography Branch. Silver Spring, MD. 147 pp.
- Fogarty, N.D.**, S.V. Vollmer, D.R. Levitan. 2011. Weak prezygotic isolating mechanisms in threatened Caribbean *Acropora* species. PLoS ONE 7(2): e30486.doi:10.1371/journal.pone.0030486
- Levitan, D.R., **N.D. Fogarty**, J. Jara, K. Lotterhos, and N. Knolwton. 2011. Genetic, spatial and temporal components to precise spawning synchrony in reef building corals of the *Montastraea annularis* species complex. Evolution 65 (5): 1254–1270
- Fogarty, N.D.** 2010. Reproductive isolation and hybridization dynamics in threatened Caribbean acroporid corals. [dissertation] Florida State University, Tallahassee, Florida.
- Arnold, M.L., **N.D. Fogarty**. 2009. Reticulate Evolution and Marine Organisms: The Final Frontier? Int. J. Mol. Sci. 10(9): 3836-3860.
- Ritson-Williams, R., S. Arnold, **N.D. Fogarty**, R. Steneck, M. Vermeij and V. Paul. 2009. New perspectives on ecological mechanisms affecting coral recruitment on reefs. Smithsonian Contributions to Marine Science, 38:437-457.
- Levitan, D.R., C.P. terHorst, **N.D. Fogarty**. 2007. The risk of excess sperm in three congeneric sea urchins. Evolution. 61(8):2007-2014.
- Vermeij, M.J.A., **N.D. Fogarty**, M.W. Miller. 2006. Pelagic conditions affect larval behavior, survival, and settlement patterns in Caribbean coral *Montastraea faveolata*. Marine Ecology Progress Series 310:119-128.
- Piniak, G.A, **N.D. Fogarty**, C.M. Addison. 2005. Fluorescence census techniques for coral recruits. Coral Reefs 24(3): 496-500.
- Fogarty, N.D.** and M. Enstrom. 2002. Sea Stewards a volunteer ecological monitoring program. Pages 27-30 in US Department of Commerce. Sanctuary Monitoring Report 2000. Florida Keys National Marine Sanctuary, Marathon, Florida USA.
- Fogarty, N.D.**, B.D. Keller, and P.B. Dye. 2001. Effects of installing flow-through culverts on canal water quality and benthic communities at Jolly Roger Estates. Final Report. The Nature Conservancy, Key West, Florida.

MANUSCRIPTS in REVIEW/ ADVANCED PREPARATION grad student*(drafts available upon request)

- Fogarty, N.D.**, B.K. Walker, D.R. Levitan (advanced preparation) Using genotypic diversity to determine the frequency of hybridization in imperiled corals. Molecular Ecology
- Dungan*, A., P. Blackwelder, E. Hall, **N.D. Fogarty** (in revision). Ocean acidification alters skeletal crystal morphology in the reef building corals *Montastraea cavernosa* and *Dichocoenia stokes*. Frontiers of Marine Science.

- Ratan, A, S. Kitchen, O.C. Bedoya-Reina, R. Burhans, **N.D. Fogarty**, W. Miller, I.B. Baums (advanced preparation). A computer resource for analyzing genomic variants among threatened *Acropora* corals. Target Journal: Molecular Ecology Resources
- Dungan*, A., P. Blackwelder, E. Hall, **N.D. Fogarty** (advanced preparation). Ocean acidification alters the skeletal ultrastructure of a threatened Caribbean coral. Target journal: MEPS
- Noren*, H.G. and **N.D. Fogarty** (advanced preparation) Twilight reefs may usher in a new dawn for depauperate, shallow reefs, Target journal: PNAS
- Rushmore*, M., C. Ross, **N.D. Fogarty**. (advanced preparation) Short-term effects of sediments on physiology and survival of the *Montastraea cavernosa* and *Porites astreoides* corals. Target Journal: Marine Pollution Bulletin
- O' Cain, E.D., M.E., Frischer, J.S. Harrison, **N.D. Fogarty**, R. Ruzicka, and D.F. Gleason. (advanced preparation). Development of a molecular assay for Caribbean coral identification. Target Journal: Molecular Ecology Resources

PROFESSIONAL SERVICES

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| 2017 | US Coral Reef Task Force- Florida Planning Committee |
| 2017- present | NSUOC Scientific Symposium Organizing committee |
| 2016 | Internal Review Committee for Marine Biology M.S. Program |
| 2016 | Internal Review Committee for Coastal Zone Management M.S. Program |
| 2015- 2017 | DoMES Curriculum Committee |
| 2015 | NSU President's Faculty Research & Development Grant Evaluation Committee |
| 2015- present | South Atlantic Fishery Management Council |
| 2015 | NSUOC Scientific Jamboree Organizing committee |
| 2014 | NSU Research misconduct investigation committee |
| 2014- 2016 | NSUOC Masters of Professional Science Committee |
| 2014 | NSU Branding Committee |
| 2013- present | Elected Benthic Ecology Committee Member at-large |
| 2013 -present | American Academy of Underwater Science (AAUS) member |
| 2013- present | NSUOC Dive Safety Board |
| 2013 | NSUOC MA Marine and Coast Studies Curriculum Evaluation Committee |
| 2013 | NSUOC MS Biological Sciences Curriculum Evaluation Committee |
| 2010 | FSU Biological Science' Graduate Program Review Committee (student rep) |
| 2008 | Organizing committee for hosting Southeast Ecology and Evolution Conference |

Peer Reviewer: National Science Foundation BMC Ecology, Marine Ecology Progress Series, Journal of Experimental Biology, Journal of Heredity, Marine Biology Journal of Marine Systems, Coral Reefs, Marine and Freshwater Research Marine Pollution Bulletin, U. of Puerto Rico SeaGrant College, Smithsonian Institution Scholarly Press, PLoSOne

TEACHING EXPERIENCE

Instructor of Record

Fertilization Ecology (Grad course- NSU)
Coral Reef Ecology (Grad course- NSU)
Marine Speciation (Grad course- NSU)
Professional Development (Grad course- NSU)
Scientific Communication (Grad course- NSU)
Animal Diversity and Evolution (Undergrad- FSU)

Teaching Assistant - Undergraduate Courses

Animal Diversity (FSU)
Introductory Biology Laboratory (FSU)
Experimental Biology (FSU)

Comments from Graduate Course Evaluations

"I wish you taught every course! Lots of info, but concise, clear delivery." - "Loved this course, felt like a grad course with discussions." - "Dr. Fogarty is a great professor that shows care in the classes she teaches." - "Lectures were great! It's nice to be engaged with questions and discussion and not just talked at." - "Very well prepared and structure of class made learning in 4 weeks better." - "I very much enjoyed this course. It is what I expect as a graduate level course." - "This course was incredible. The debates were excellent. Don't change a thing!" - "Good use of very different teaching strategies." "This is a great course. I feel like my writing, speaking, and presentations skills have significantly improved." - "The topics covered in this course were very relevant and valuable."

ADVISOR TO CURRENT MASTER'S STUDENTS

Kory Enneking	<i>Interests: gene expression under sedimentation stress</i> Expected graduation: Winter 2019
Cassie Van Wynen	<i>Interests: differential performance of acroporid taxa in restoration efforts</i> Expected graduation: Winter 2019
Murphy McDonald	<i>Interests: the role Rickettsia bacteria have in coral health</i> <u>Awards</u> : NSU Laboratory Assistantship Expected graduation: Winter 2019
Hannah Nylander-Asplin	<i>Quantifying shifts in acroporid community composition in the USVI</i> <u>Awards</u> : AMLC research scholarship, NSU Teaching Assistantship Expected graduation: Fall 2018
Kelly Habicht	<i>How will reef-building corals respond to thermal stress and ocean acidification during the earliest life history stages?</i> <u>Awards</u> : NSU Research Assistant Expected graduation: Fall 2018
Morgan Hightshoe	<i>Identifying disease resistant and thermal tolerant genotypes in the threatened staghorn coral, Acropora cervicornis</i> <u>Awards</u> : NSU Research Assistant, Lerner-Gray Grant, NOAA grant, AMLC 3 rd place best student talk <u>Conference Presentations</u> : AMLC & BEM (2017); SEEC & ESA (2016) Expected graduation: Winter 2018

- Megan Bock *Disease Transmission, Tolerance, and Survival of the Caribbean Reef-Building Coral, *Acropora cervicornis**
Awards: NSU Research Assistant, NSU Fishing Tournament Scholarship, AMLC 2nd place best student talk
Conference Presentations: SEEC (2016), AMLC, BEM & FWC (2017)
Expected graduation: Winter 2018
- Anna Jordan *Trends in Caribbean coral spawning*
Conference Presentations: SEEC (2016), BEM (2017)
Expected graduation: Winter 2018
- Alicia Vollmer *Rare parthenogenic reproduction in common reef coral, *Porites astreoides**
Awards: NSU Teaching Assistantship, NSU Research Assistant, SGA travel
Conference Presentations: SEEC & ESA (2016); AMLC, BEM, FWC (2017)
Expected graduation: Winter 2018

ADVISOR TO GRADUATED MASTER'S STUDENTS

- Leah Harper *Quantifying coral recruitment in the northern portion of the Florida Reef Tract*
Awards: NSU Research Assistant, Lerner-Gray Grant
Conference Presentations: SEEC & ESA (2016); AMLC, BEM & FWC (2017)
Employment: Fogarty grant funded lab technician
- Justin Voss, M.S. *Influence of *Laurencia* algae species on coral settlement and metamorphosis* http://nsuworks.nova.edu/occ_stuetd/435/
Awards: SEEC travel grant, Lerner-Gray Grant, Silva Student Grant from the International Phycological Society
Conferences: SEEC 2016
Employment: Florida Fish and Wildlife Conservation Commission
- Josh Stocker, M.S. *Effects of 17 β -estradiol and progesterone on *Porites astreoides* and *Acropora cervicornis* reproduction and growth*
http://nsuworks.nova.edu/occ_stuetd/431/
Employment: E Sciences Environmental Consulting
Conferences: BEM 2015
- Hunter Noren, M.S. *Twilight reefs may usher in a new dawn for depauperate, shallow reefs*
Awards: NSU Teaching Assistantship http://nsuworks.nova.edu/occ_stuetd/421/
Conferences: BEM 2015
Employment: Nova Southeastern University
- Margaret Rushmore, M.S. *The effect of sedimentation on *Porites astreoides*: examining oxidative stress and survival among life-history stages*
http://nsuworks.nova.edu/occ_stuetd/414/
Awards: Women in Fishing Grant, Shell Foundation Grant
Employment: Florida Department of Transportation

Ashley Dungan, M.S. *Does ocean acidification affect the coral ultrastructure across life history stage?* http://nsuworks.nova.edu/occ_stuetd/392/

Awards: AMLC, 2 Mote POR grants, Lerner-Gray Grant, SAML

Conferences: AMLC, ICRS, SEEC, ASLO

Employment: PhD candidate with Dr. Madeline van Oppen at the University of Melbourne

Kellie Pelican, M.S. *The effects of petroleum pollutants on sea urchins reproduction and development* http://nsuworks.nova.edu/occ_stuetd/401/

Employment: Federal Express/maternity leave

GRADUATE COMMITTEE MEMBER

Current M.S.

Cameron Baxley
Sarah Koerner
Ashley Kraus
Nicole Hayes
Allan Anderson
Collin Howe (UVI)

Current Ph.D.

Liz Larson

Graduated

Britney Lenz (M.S. 2017)
Haylee DeMarcus (M.S. 2017)
Beranda Harper (M.S. 2016)
Alyson Kuba (M.S. 2016)
Heather Schaneen (M.S. 2016)
Steven DiLauro (M.S. 2015)
John McDermond (M.S. 2014)
Cody Bliss (M.S. 2014)
Robert Brewer (M.S. 2013)

PUBLIC SEMINARS and EDUCATIONAL OUTREACH

Public lectures

2017 Nova Southeastern University Levan Ambassadors Board Meeting, Dania Beach, FL
2016 Dive-In Lecture Series at NSUOC, Dania Beach, FL
2016 Gumbo Limbo Nature Center Lecture Series, Boca Raton, FL
2015 Frost Museum Underwater Festival – Science Up Close Keynote speaker, Miami, FL
2014 Our Florida Reefs Community Working Group, NSUOC Dania Beach, FL
2014 Beneath the Waves Film Festival Scientific Panel, Miami, FL
2014 South Broward High School STEM workshops, Dania Beach, FL
2013 Nova Southeastern University's Lifetime Learning Institute, Davie, FL
2012 Museum of Arts and Sciences, Daytona, FL COSEE event
2012 Smithsonian Marine Lecture at Pelican Yacht Club, Fort Pierce, FL

Outreach/Community Service/ Media

2017 NSU Early Immersion Experience
2017 Caribbean Coral Restoration Webinar Series: Coral spawning and larval propagation
<https://www.youtube.com/watch?v=Cohf4cRpRvs>
2017 Darwin Day Roadshow Speaker, Northeastern High School, Fort Lauderdale, FL
2016 Broward County High School lecture to marine biology students
2016 Changing Seas, "Speaking Sustainability" at the Deering Estates
2015 Coral reproduction workshop, University of the Virgin Islands

- 2014 Science Friday, Fused Staghorn Coral by Chau Tu,
<https://www.sciencefriday.com/articles/a-resilient-hybrid-fused-staghorn-coral/>
- 2014 Hybrid Corals: Sex gone awry or saving grace? By Marah Hardt
<http://blogs.scientificamerican.com/guest-blog/hybrid-corals-sex-gone-awry-or-saving-grace/>
- 2013 Changing Seas Series documentary “Coral Hybrids” highlighting my scientific research; produced by Miami public broadcast system WPBT
<http://video.wpbt2.org/video/2365027764/>
- 2013 Mini-documentary on acroporid demographic project at Carrie Bow Caye, Belize
- 2012 Developed COSEE Flash (Florida Aquatic Science Heroes) Video for 7th Graders
<http://www.youtube.com/watch?v=5cLLIF9CYWk>
- 2010-2012 Mentored High School Student, Michael Kaiser, who presented his research at the Intel National Science Fair
- 2010-2012 Smithsonian Public Open House Volunteer

SCHOLARSHIPS and FELLOWSHIPS

2012	International Coral Reef Symposium Registration Scholarship	\$1,295
2010-2012	Smithsonian Marine Science Network Fellowship	\$100,000
2008-2009	Florida State International Dissertation Research Fellowship	\$14,000
2008-2009	Florida State Jack Winn Gramling Award in Marine Biology	\$3,405
2005-2006	American Academy of Underwater Science PhD Scholarship	\$2,500
2007-2009	PADI Project AWARE Foundation Award	\$2,185
2005-2006	Florida State University Short Scholarship	\$1,500
2005-2006	Lerner-Gray Marine Research Scholarship	\$880
2005-2006	Florida State University Bennison Scholarship	\$890
2006-2007	PADI Foundation Research Scholarship	\$3,800

RECENT CONFERENCE PRESENTATIONS and INVITED TALKS

- 2017 State University of New York at Buffalo, Evolution, Ecology, and Behavior Seminar Series
- 2017 Benthic Ecology Meeting, Myrtle Beach, SC (session chair)
- 2016 Ecological Society of America, Fort Lauderdale, Florida
- 2016 International Coral Reef Symposium, Honolulu, Hawaii (session chair)
- 2016 Nova Southeastern University Science Jamboree
- 2016 Benthic Ecology Meeting, Quebec City, Quebec Canada
- 2015 Benthic Ecology Meeting, Jacksonville, FL
- 2014 University of Florida, Fisheries and Aquatic Sciences Seminar
- 2013 Florida International University, Marine Seminar Series
- 2014 Nova Southeastern University, Earth Day Conservation Series
- 2013 University of Missouri’s Biology Dept. Conservation Series
- 2013 Benthic Ecology Meeting, Savannah, Georgia (session chair)
- 2012 International Coral Reef Symposium, Cairns, Australia

- 2012 Benthic Ecology Meeting, Norfolk, Virginia (session chair)
2011 Benthic Ecology Meeting, Mobile, Alabama (session chair)
2010 Benthic Ecology Meeting, Wilmington, North Carolina (chair, best student talk award)

NON-STUDENT COLLABORATORS (in past 5 years in alphabetical order)

Iliana Baums (Penn St. U.), Blair Sterba-Boatwright (Texas A&M), Nancy Budd (U. of Iowa), Justin Campbell (Smithsonian), Mary Alice Coffroth (St. U. of NY at Buffalo), Craig Dahlgren (PIMS), Joana Figueiredo (NSU), Zachary Foltz (Smithsonian), David Gilliam (NSU), Lisa Carne (Fragments of Hope), Danny Gleason (Georgia Southern U.), Dan Holstein (UVI), Javier Jara (Smithsonian), Scott Jones (Smithsonian), Nathan Kirk (Oregon St. U.), Jim Klaus (U. Miami), Nancy Knowlton (Smithsonian), Jessica Labonte (Texas A&M), Howard Lasker (St. U. of NY at Buffalo), Don Levitan (FSU), Kemit-Amon Lewis (TNC), Joe Lopez (NSU), Megan Lowenberg (Indian River St. Coll.), Kate Lunz (FWC), Margaret W. Miller (NOAA), Steven Miller (NSU), Webb Miller (Penn St. U.), Ken Nedimery (Coral Restoration Foundation), Valerie Paul (Smithsonian), Esther Peters (George Mason U.), Dirk Peterson (SECORE), Raphael Ritson-Williams (U. of Hawaii), Cliff Ross (UNF), Rob Ruzicka (FWC), Scott Santos (Auburn U.), Anja Schulze (Texas A&M), Xaymara Serrano (U. Miami), Tyler Smith (UVI), Jennifer Sneed (Smithsonian), Bob Steneck (U. Maine), Mark Vermeij (Univ. of Amsterdam)

CERTIFICATIONS and MEMBERSHIPS

NSUOC Research Diver; PADI Advanced Open SCUBA; AAUS diver; 35-hour Boat Handling Course; DAN CPR/AED/First Aid/O₂ Admin; IANTD Open Water Nitrox Diver; NOAA research diver; Canadian Red Cross Pleasure Craft Operator; Drysuit Diver, Divers Alert Network member, International Society for Reef Studies member (ISRS), Association of the Marine Labs of the Caribbean (AMLC)

COMMUNITY SERVICE

Broward County Foster and Adoptive Parent Association

2017- present	Board Member (secretary)
2016- present	Member

Kids in Distress

2016- present	Licensed foster parents
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Humane Society of Broward County

2013- 2016	Therapy Dog Outreach: Wags and Tales/Assisted Living Facilities;
2014	Education Department
2013-2014	Adoption Ambassador- Foster Dogs

REFERENCES

Dr. Richard Dodge, Current Dean, Nova Southeastern University, dodge@nova.edu
Dr. Don Levitan: PhD advisor, Florida State University, levitan@bio.fsu.edu
Dr. Valerie Paul: Postdoctoral advisor, Smithsonian Marine Station, paul@si.edu
Dr. Iliana Baums, NSF collaborator, Penn State University, baums@psu.edu