

# Erika Frances Neave

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- Education**      **M. Sc. Candidate, Marine Sciences**  
University of North Carolina at Chapel Hill, Chapel Hill, NC, Aug 2017 – Present
- B.S. Biological Sciences, Marine Biology, *cum laude***  
Florida Institute of Technology, Melbourne, FL, Aug 2013 – May 2017
- Research Experience**      **Graduate Researcher, University of North Carolina at Chapel Hill**  
Advisor: Adrian Marchetti PhD, Aug 2017 – Present  
DNA extraction, PCR, trace metal clean methods
- Staff Assistant, Biological Sciences, Florida Institute of Technology**  
Supervisor: Spencer Fire PhD, May 2017 – Aug 2017  
Ecotoxicology, solid phase extraction, ELISA methods, technical writing
- Undergraduate Researcher, Biological Sciences, Florida Institute of Technology**  
Advisor: Spencer Fire PhD, May 2015 – May 2017  
Phytoplankton and water quality sampling, light microscopy, phytoplankton culture
- Research Technician, Center for Corrosion and Biofouling Control, Melbourne, FL**  
Supervisors: Kelli Hunsucker PhD & Geoffrey Swain PhD, Aug 2014 – March 2017  
Biofouling community field assessment, plankton community analysis, light & dissecting microscopy
- NSF REU Intern, Mote Marine Laboratory, Sarasota, FL**  
Advisor: Vince Lovko PhD, May 2016 – Aug 2016  
Experimental design, liquid chromatography/mass spectrometry, oceanographic field sampling
- Undergraduate Researcher, Biological Sciences, Florida Institute of Technology**  
Advisor: Richard Turner PhD, Aug 2014 – Dec 2014  
Scanning electron microscopy, invertebrate morphology, field collection, vivarium maintenance
- Funding**                      ASLO multicultural program travel grant recipient, 2016
- Beta Beta Beta Biological Honors Society research grant recipient, 2016
- Dr. Kerry Bruce Clark Endowed Scholarship in Marine Biology, 2016
- Sigma Xi Grant-in-Aid of research recipient, 2016
- Florida Institute of Technology Academic Merit Scholarship, 2013 – 2017
- Teaching & Outreach**      **IMPACTS Science Ambassador Trainee, Morehead Planetarium, Chapel Hill, NC**  
Supervisor: Tamara Poles, Community Engagement Specialist, Aug 2017 – Present  
Creative science activity design & lesson plans, engagement w/ underprivileged communities
- Teaching Assistant, Marine Sciences, University of North Carolina at Chapel Hill**  
Supervisors: Karl Castillo PhD & Alecia Septer PhD, Aug 2017 – Present  
Guest lecturer, test review leader, grading
- SciREN Triangle Academic Liaison and Social Media Coordinator Trainee, Raleigh, NC**  
[www.thesciren.org](http://www.thesciren.org), Jan 2018 – Present  
Research and Education Network, engage w/ local educators, advertise on social media accounts

**Marine Science Summer Camp Teacher, Florida Institute of Technology**

Supervisor: Kelli Hunsucker PhD, July 2015

Marine biofouling lessons delivered to middle schoolers

**Community Service**

Taught girl scout troop about water quality and harmful algae, 2017

Coordinated haunted house at Brevard Zoo, Melbourne, FL, 2015 – 2016

Beach Clean-ups for Keeping Brevard Beautiful, Cocoa, FL, 2013 – 2016

**Presentations**

**Neave EF** & Fire SE (2017). Effects of light and temperature on the toxicity of Florida Red Tide. 78<sup>th</sup> Annual Meeting of the Association for Southeastern Biologists. Montgomery, AL (**talk**).

**Neave EF**, Lovko V, Henry M, Pierce R (2017). The effects of hydrodynamic shear stress on cell growth rate and release of brevetoxins from *Karenia brevis*, the Florida red tide organism. Aquatic Sciences Meeting. Honolulu, HI (**talk**).

**Neave EF**, Briant H, Hunsucker KZ, Lieberman K, Ralston E, Sweat H, Swain G (2016). A Snapshot of Phytoplankton Communities Along the Indian River Lagoon and Okeechobee Waterway. Indian River Lagoon Symposium. Fort Pierce, FL (**poster**).

**Neave EF**, Briant H, Hunsucker KZ, Lieberman K, Ralston E, Sweat H, Swain G (2015). Phytoplankton Community Structure Along the Okeechobee Waterway, FL. 37<sup>th</sup> Annual Southeastern Phycological Colloquy. Fort Pierce, FL (**poster**).

**Co-authored Presentations**

Marchetti A, Gifford S, Seim H, Cohen NR, Moreno C, Haines S, **Neave EF**, Walsh SJ, Paez-Rosas D, Mena C (accepted 2018). Impacts of the 2015/16 El Niño Event on Microbial Community Dynamics in the Galápagos Archipelago. Ocean Sciences Meeting. Portland, OR (talk).

**Research Cruises**

2017 (1 day) 20' center console, Indian River Lagoon, FL, bottlenose dolphin photo tagging

2016 (1 day) 42' center console, Gulf of Mexico, harmful algal bloom monitoring

**Skills**

**Data Analysis:** R, ArcGIS, SigmaPlot, MS Access, MS Excel

**Laboratory:** organic chemistry methods, molecular biology methods

**Field:** PADI Open Water Scuba certification, seine/cast netting, oceanographic sampling

**Media:** Wordpress, GIMP, Inkscape

**Workshops & Self-Teaching**

Single Variable Calculus, MIT open courseware, 2018

Introduction to Qiime, Research Computing, University of North Carolina at Chapel Hill, 2017

**Co-curricular Involvement**

Asian American Pacific Islander Graduate Student Association, member, 2017 – Present

Initiative for Minority Excellence, member, 2017 – Present

Beta Beta Beta Biological Honors Society – Sigma Xi Chapter, (prior secretary) member, 2016 – Present