

**JACQUELINE S. LONG**  
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## EDUCATION

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- 2016 **Master of Science, Marine Science**  
Univ. of South Florida, College of Marine Science, St. Petersburg, FL.  
MS Thesis: “*Whiting events off southwest Florida: remote sensing and field observations.*”  
Advisor: Dr. Chuanmin Hu
- 2011 **Bachelor of Science, Physics**  
Florida State University, Tallahassee, FL.  
Senior Project: “*Optimization modeling for electric car fueling stations.*”

## POSITIONS HELD

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- 2018 – Present:  
Research Technician, *Marine Biogeochemistry Group*  
**Monterey Bay Aquarium Research Institute**, Moss Landing, California
- Fall 2017:  
Research Assistant, *Cooperative Institute for Marine & Atmospheric Studies*  
**University of Miami Rosenstiel School of Marine and Atmospheric Science**, Miami, FL
- Spring 2017:  
Adjunct Instructor, *Microbiology Laboratory*  
**University of South Florida St. Petersburg**, St. Petersburg, FL
- 2017:  
Research Assistant, *Remote Sensing and Optical Oceanography Laboratory*  
**University of South Florida College of Marine Science**, St. Petersburg, FL  
Remote detection of chlorophyll-*f* using MERIS reflectance data.
- 2013-2016:  
Graduate Research Assistant, *Remote Sensing and Optical Oceanography Laboratory*  
**University of South Florida College of Marine Science**, St. Petersburg, FL  
Optical oceanography, remote sensing, and *in situ* biochemical characterization of CaCO<sub>3</sub> precipitation (whitings) in southwest Florida. Long-term satellite observations of whitings in Cuba and southwest Florida using MODIS, MERIS, and Landsat data.
- Aug 2012-Dec 2012:  
Internship, *Florida Fish and Wildlife Research Institute*  
**Florida Fish & Wildlife Conservation Commission**, St. Petersburg, FL  
Analysis of dissolved inorganic and organic carbon fluxes through Tampa Bay and Sarasota Bay to coastal waters.

May 2012-July 2012:

Internship

**Mote Marine Laboratory**, Sarasota, FL

Data management, archival research, and fieldwork in water quality analysis through Sarasota County estuaries and rivers.

## HONORS AND AWARDS

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- 2018 Sackett Prize for Innovative Research, \$2,500  
2018 Ocean Carbon & Biogeochemistry Travel Support  
2017 Astrobiology Science Conference [1<sup>st</sup> Place Student Poster Competition](#), \$1,000  
2015 Carl Riggs Fellowship in Marine Science, \$10,000  
2014 Southern Kingfish Association's Fellowship, \$10,000  
2011 Florida State University Grant, \$1,800  
2010, 2011 Science and Mathematics Access to Retain Talent Grant, \$8,000  
2009 Dean-Whitton Science and Mathematics Scholarship, \$1,000

## PUBLICATIONS

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**Long JS**, Hu C & Wang M. 2018. Long-term spatiotemporal variability of southwest Florida whiting events from MODIS observations. *International Journal of Remote Sensing* 39(3):906-923  
<https://doi.org/10.1080/01431161.2017.1392637>.

**Long JS**, Hu C, Robbins L, Byrne RH, Paul JH & Wolny JL. 2017. Optical and biochemical properties of a southwest Florida whiting event. *Estuarine, Coastal and Shelf Science* 196:258-268  
<https://doi.org/10.1016/j.ecss.2017.07.017>.

Moyer RP, Powell CE, Gordon DJ, **Long JS** & Bliss CM. 2015. Abundance, distribution, and fluxes of dissolved organic carbon (DOC) in four small sub-tropical rivers of the Tampa Bay Estuary (Florida, USA). *Applied Geochemistry* 63:550-562  
<https://doi.org/10.1016/j.apgeochem.2015.05.004>.

**Long J**, Hu C & Robbins L. 2014. Whiting events in SW Florida coastal waters: A case study using MODIS medium-resolution data. *Remote Sensing Letters* 5:539-547  
<https://doi.org/10.1080/2150704X.2014.933275>.

## PUBLISHED ABSTRACTS AND PRESENTATIONS

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**Long JS** & Hu C. 2017. Chlorophyll-f: Earth's unseen production and habitability under red light. Astrobiology Science Conference ([Poster #3472](#)).

**Long JS** & Hu C. 2016. Exploring the whiting events of SWFL through remote sensing and field measurements. Ocean Sciences Meeting (Poster).

Moyer RP, Powell C, Grier S, **Long JS** & Bliss CM. 2013. Distribution and fluxes of dissolved and particulate forms of organic carbon (DOC, POC) in small tropical rivers, estuaries, and coastal

waters of Tampa Bay, Florida (USA). Geological Society of America Abstracts with Programs 45:215 (Oral Presentation).

Moyer RP, Bliss CM, Amin-Arsala R, & Long JS. 2012. Distribution and fluxes of dissolved forms of carbon (DOC, DIC) in small sub-tropical rivers, estuaries, and coastal waters of west-central Florida (USA). Geological Society of America Abstracts with Programs 44:504 (Oral Presentation).

## INVITED TALKS

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- 2018 “Carbonate: from AUVs to space” Seminar Guest Speaker, College of Marine Science, University of South Florida St. Petersburg, FL.  
2015 “From Wormholes to Warp Drive.” Panelist, Sci-Café. St. Petersburg, FL.

## ARTICLES & MEDIA HIGHLIGHTS

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Voiland A. 2018. *Making Sense of Whiting Events*, media release, 7 March, [NASA Earth Observatory](#), Goddard Space Flight Center, Washington D.C.

## OCEANOGRAPHIC EXPERIENCE

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- 2018 EXPORTS OSP, R.V. Sally Ride, Seattle, Washington, 31 days  
2017 GO-SHIP P6, R.V. Nathaniel B. Palmer, Tahiti - Chile, 41 days, TCO<sub>2</sub> analyst  
2016 DEPEND 03, R.V. Point Sur, Mississippi, 3 weeks, CTD operator, optical package deployment, *in situ* remote sensing reflectance measurements, filtering for phytoplankton pigment absorption  
2015 Harmful Algal Boom Response Cruise, R.V. Bellows, Florida, 1 week, optical characteristics of a harmful algal bloom created by *Karenia Brevis* (known as “red tide”)

## WORKSHOPS & TRAINING

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Cornell Satellite Remote Sensing Workshop, Ithaca, NY, June 4 – 15. 2018

## MEMBERSHIP

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Astrobiology and Astronomy Club of USFSP - *Founder* est. 2015  
Florida Aquarium - *Diver* 2015-2017  
Surfrider Foundation - *Member* 2016-2017  
Marine Science Advisory Committee - *Social Chairperson* 2014-2016  
St. Petersburg Science Festival - *Marketing Committee Board Member* 2014

## OUTREACH

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- NASA Astrobiology Institute demonstrator for MarsFest, Death Valley National Park, 2018
- BLUE Ocean Film Festival, St. Petersburg, 2016
- Astrobiology and Astronomy Club of USFSP outreach manager, St. Petersburg Science Festival
  - “*Biosignatures, Extremeophiles, and Craters*”, 2016
  - “*Cryovolcanoes of Icy Moons*”, 2015
- Oceanography Camp for Girls, 2014
  - Science Mentor*
  - Lab Coordinator*
- Girl Scouts, 2014
  - Lab Coordinator*

## RELATED SKILLS & CERTIFICATIONS

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### **Laboratory Skills**

- Working knowledge with: marine carbonate system measurements, Scanning Electron Microscopy (SEM) + EDS, *in situ* and laboratory-based measurements of IOPs, AOPs, and  $R_{rs}$ , basic microbiology techniques
- Experience using: spectrophotometry, coulter counters, fluorometry, flowcytometry

### **Field**

- Experience leading field campaigns (3+ yrs)
- Operating and trailering boats up to 17' (3+ yrs)
- Motorboat Operator Certification Course, *MOCC*
- American Academy of Underwater Scientists, *AAUS*
- Diving First Aid for Professional Divers, *DAN*
- NITROX, 2012
- Open Water, 2002, with skills in night, cave, navigation, deep dives and bail-out
- Intermediate in Spanish

### **Computational**

- Knowledge in Python, MatLab, IDL, ENVI, SeaDAS, VI editor, Microsoft Office Suite
- Experience processing and analyzing MODIS, MERIS, and Landsat images
- Basic knowledge of GIS applications and HTML/CSS-based web design