College of Marine Science 140 7<sup>th</sup> Avenue South Saint Petersburg, FL 33701 stbeckwith@usf.edu mobile: 727-744-2176

# Curriculum Vitae Sean T. Beckwith

#### Education

2001

2016 M.S. Geological Oceanography, University of South Florida College of Marine Science, Saint Petersburg, FL, 3.73 GPA. Thesis: Abundance of Archaias angonathus West Florida Coast Indicates the Influence of Carbonate Alkalinity over Salinity. Advisor

Pamela Hallock Muller

2002 B.S. Environmental Science, University of Florida, Gainesville, FL

Relevant Work and Research Experience		
2019present	Graduate sudent researcher, CMS Ocean Technology Group. Withkpast data sets to apply salinity corrections to the sensor data exhibiting thermal lag. Also assist in deployment	
	and recovery of autonomous underwater gliders.	
2017present	Science communicator, USF College of Marine Science (CMS)nmunicate scientific work of CMS researchers using multimedia (Adobe Creative Suite) and written articles	
	targeted to a general audience. Participate in cruises and conferences.	
2015-2016	Volunteer, USGS St. Petersburg Coastal and Marine Center. Performed spectrometric	
	measurements of total alkalinity and coulometric measemes of dissolved inorganic carbon in the CO2 System Laboratory (Dr. Kimberly Yates). Modified TA method for	
	freshwater influenced carbonate system chemistry.	
20142016	Studentresearcher, USF College of Marine Science. Operated small research vessels to	
	collect sediment and water samples. Measured carbonate system seawater variables using spectrometry, spectrophotometry, and coulometry. Sorted and picked foraminifera to	
	identify symbiont bearing specimens and to recognize dissolution charactel/latipped	
	species distribution and oceanographic characteristics using a GIS. Statistically analyzed	
20072008	CO <sub>2</sub> system endmembers and spatial distribution of foraminifera.  Beckwith Electric Research member, Beckwith Electric Co., Inc., Largo, FL. Research	
	work compared ULF/ELF signals detected by an underground antenna to workerge	
	time graphs to locate concurrent indicators of earthquake precursors in pursuit of an	
	earthquake early warning system.	
2001	Laboratory assistant, paleoceanographic labora DryBenjamin Flower, USF CMS.	

Sorted and labeled core samples for mass spectrometer analysis and identified

Assistant crew member, Florida Institute of Oceanography. Assisted scientists

microfossils for interpretation of glacial cycles.

researchinged tide on monthly cruises.

#### <u>Publications</u>

Beckwith ST, Byrne RH and Hallock P (2019) Riverine Calcium Medhbers Improve Coastal Saturation State Calculations and Reveal Regionally Variable Calcification Potential. Front. Mar. Sci. 6:169. doi:10.3389/fmars.2019.00169

Beckwith, Sean Thomas, "Abundance of Archaias angulatuthe West Florida Coast Indicates the Influence of Carbonate Alkalinity over Salinity" (2016). Graduate Theses and Dissertations. https://scholarcommons.usf.edu/etd/6463

### Published Abstracts

AGU 2016	Refugia for Carbonate Producing Organisms in High Carbon Dioxide Environmental
	Conditions (Poster)
GSA 2016	Abundance of Archaias angulatuon the inner west Florida shelf suggests the influence
	of carbonate alkalinity over salinity (Oral)
GSA 2015	Distribution of Archaias angulatuson the inner west Florida shelf: substrata and water
	chemistry versus temperature (Poster)

### Awards and Honors

Joseph A. Cushman Award for Student Research, Cushman Foundation for Foraminiferal
Research
Presidential Recognitionstudent senator the University of Florida
Award for Silent Leadership within Theta Chi fraternity, University of Florida

## Teaching and Mentoring Experience

2016	Laboratory mentor to undergraduate student from USFSP. Instructed mentethods
	for washing and picking sediment spalers for foraminiferal research
2011	Primary education assistant teacher, grades 3 – 12, International Calvary Academy,