

**Kimberly C. Galvez**  
Ph.D. Student  
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### Goals:

I am currently in my 3<sup>rd</sup> year of my Ph.D. with Dr. Gregor P. Eberli assessing the relationships between benthic cold-water corals and the carbonate mounds that develop along the seafloor of the Great Bahama Bank (Straits of Florida).

### Education:

2014 - Recent - Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, Florida

Ph.D. in the Department of Marine Geosciences

Dissertation Topic: Species Specific Cold-water Coral Growth Patterns Relative to Substrates in the Straits of Florida: A Multidiscipline Approach

Advisor: Gregor P. Eberli

2011-2013 - University of Miami, Coral Gables, Florida

Undergraduate Degree - B.A. Biology, College of Arts and Sciences

### Publications:

Cunning, R., Gillette, P., Capo, T., **Galvez, K.C.**, Baker, A.C., (2015) "Growth tradeoffs associated with thermotolerant symbionts in the coral *Pocillopora damicornis* are lost in warmer oceans." *Coral Reefs*: v. 34, p. 155-160 DOI: 10.1007/s00338-014-1216-4

### Poster and Talks:

**Galvez, K.C.**, Sianipar, R., Eberli, G.P., Wienberg, C., Titschack, J., 2016, Variable Composition and Growth Rates in CWC Mounds in the Straits of Florida. Annual Meeting of the CSL – Center for Carbonate Research, Miami, FL. Student Presentation.

**Galvez, K.C.**, Sianipar, R., Eberli, G.P., Wienberg, C., Titschack, J., Pourmand, A., 2016, Variability of Cold-water Coral Growth in Glacial versus Interglacial Times. 6<sup>th</sup> International Deep Sea Coral Symposium, Boston, MA. Student Poster 48.

**Galvez, K.C.**, Sianipar, R., Eberli, G.P., Titschack, J., Hebbeln, D., Wintersteller, P., Freiwald, A., Beuck, L., 2015, Pleistocene-Recent Growth Pattern of Cold-water Corals

in the Straits of Florida. Annual Meeting of the CSL – Center for Carbonate Research, Miami, FL. Student Presentation.

Schnyder, J., **Galvez, K.C.**, Sianipar, R., Eberli, G.P., Grasmueck, M., Mulder, T., Hebbeln, D., Wintersteller, P., Freiwald, A., Beuck, L., Raineault, N., Mayer, L., and shipboard scientists, 2014, Habitats of Benthic Communities in the Straits of Florida, Annual Meeting of the CSL – Center for Carbonate Research, Miami, FL. Student Presentation.

### **Graduate Awards, Honors, and Scholarships:**

2014 – Current Treasurer of the American Association of Petroleum Geologists (AAPG) Student Chapter at the University of Miami

2016 Imperial Barrel Award (IBA) participants representing the University of Miami North Alaskan Slope Field; in depth analyses of limited data sets and interpretation, organization of data sets, collective team effort and building communication skills between members, Trinity system modeling, log analysis, seismic interpretation through Kingdom

2016 Certificate of Completion of the Advanced Computing for Earth Sciences (ACES) Program at the University of Virginia sponsored by NASA; developed skills for computational modeling for atmospheric, ocean, climate, geophysical, statistical analyses and other Earth sciences modeling systems through Python and C++.

### **Undergraduate Awards, Honors, and Scholarships:**

2011-2013 Dean's List

2011-2013 Dickinson Scholarship, University of Miami

2011 Presidential Scholarship, Florida International University

### **Languages:**

English - Fluent in speaking, writing, and reading.

German - Partial in speaking, writing, and reading.

Spanish - Partial in speaking, writing, and reading.

Italian - Partial in Speaking, writing, and reading.

## **Work Experience:**

2011-2014 Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, Florida

### **Research Assistant at CSL – Center for Carbonate Research**

- Data Image Analysis on rocks to determine permeability, porosity, and resistivity on samples using MatLab.
- Detailed descriptions of sediments on thin sections viewed on a microscope.
- Archived samples.
- Sample preparation for various analyses.
- Tested chemical and mineral composition of samples (XRD, XRF, Gamma, Isotopic analyses).
- Conducted U-Th series and Sr-series age dating protocols on a mass-spectrometer with carbonate samples for later interpretation of ages versus known weather and ocean conditions of those time periods.

### **Research Assistant, Marine Biology and Fisheries (and Publications)**

- Collected samples and created an archive in which to preserve samples for later use.
- Sample preparation.
- DNA Sequence Analysis from conducting qPCR (quantitative polymerase chain reaction) analysis and electrophoresis on samples.
- Cuning, R., Gillette, P., Capo, T., **Galvez, K.C.**, Baker, A.C., (2015) "Growth tradeoffs associated with thermotolerant symbionts in the coral *Pocillopora damicornis* are lost in warmer oceans." *Coral Reefs*: v. 34, p. 155-160 DOI: 10.1007/s00338-014-1216-4

### **Tutor for the Athletics Department in Geography**

- GEG 120 – Tutored University of Miami Athletes in all major concepts of Geography (2014-2015)

## **Field Experience:**

2014 Bahamas Field Seminar – Facies Successions on Great Bahama Bank  
Illustrated the depositional characteristics and dimensions of facies belts across an isolated platform; related variable accommodation space and facies heterogeneities to reservoir models; and interpreted subsurface core, log, and seismic data of carbonate systems.

2015 Paradox Basin Field Seminar – Used sections of the Paradox Basin to understand the processes and controls influencing the lateral distribution of carbonate and siliciclastic facies, learn how to measure sections and recognize the different facies in the rock record, introduce high-resolution sequence stratigraphy as a method to separate rock strata into small units, and to introduce a methodology to correlate high-resolution sequence stratigraphy with mechanical stratigraphy for an improved prediction of fracture behavior in carbonates.

**Skills:**

Complete and advanced skill set of Microsoft Office; Adobe Acrobat, Adobe Illustrator, Adobe Photoshop; OsiriX; ArcGIS; Trinity; Kinex; Kingdom; Google Earth; MacBook Terminal and TextWrangler  
Introductory to MatLab; Website Design and coding with Python and C++

**Hobbies:**

Traveling, photography, hiking, volleyball, scuba diving, swimming, cooking, baking, exploring new cuisines.