



KIMBERLY C. GALVEZ

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OBJECTIVE

I am currently in my 4th year of my Ph.D. with Dr. Gregor P. Eberli assessing the Modern to Pleistocene paleoceanographic archive recorded within cold-water coral mounds developing on seafloor in the carbonate province of the Great Bahama Bank in the Straits of Florida.

EXPERIENCE

University of Miami – Rosenstiel School of Marine and Atmospheric Sciences

Research Assistant/Technician at CSL – Center for Carbonate Research | 2011-2014

- Data Image Analysis on rocks to determine permeability, porosity, and resistivity on samples using MatLab.
- Detailed descriptions of sediments on thin section slides.
- 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 geochronometry protocols on a MC-ICP-MS 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) | 2013-2014

- Collected and preserved samples in a mixed solution for archive.
- Sample preparation for various experiments/measurements.
- DNA Sequence Analysis from conducting qPCR (Quantitative Polymerase Chain Reaction) analysis and electrophoresis on samples.
- 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.

Tutor for the Athletics Department in Geography | 2014-2015

- GEG 120 – Tutored University of Miami Athletes in all major concepts of Geography (including Hydrology, Geology, Biology, and Anthropology).

EDUCATION

- **2014 – Current:** Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, Florida
 - Ph.D. Student in the Department of Marine Geosciences
 - Dissertation Topic: Cold-water Coral Growth Patterns Relative to Compositional Carbonate Substrates in the Straits of Florida: A Multidiscipline Approach
- **2011-2013:** University of Miami, Coral Gables, Florida
 - Undergraduate Degree - B.A. Biology, College of Arts and Sciences
 - Awarded Dean's List (2011-2013)
 - Awarded Dickinson Scholarship (2011-2013)

AWARDS AND ACKNOWLEDGEMENTS

- **2017 (Fall) – Current:** Vice President of the "American Association of Petroleum Geologists (AAPG) – Student Chapter at the University of Miami"
- **2014 – 2017 (Summer):** Treasurer of the "American Association of Petroleum Geologists (AAPG) – Student Chapter at the University of Miami"
- **2017:** Certificate of Completion of the ECORD Summer School 2017 titled "Current-Controlled Sea Floor Archives: Coral Mounds and Contourites" at the University of Bremen, Bremen, Germany
 - Lectures and interactive discussions took place and participants learned practicals on IODP-style shipboard techniques using the facilities of the IODP Bremen Core Repository (BCR)
 - Participants trained in methods of the core description and seismic interpretation, pore water geochemical analyses and physical properties of sediment samples as well as core splicing approaches in a virtual ship environment.
 - I presented research on: *Pleistocene-Recent Growth Patterns of Cold-water Coral in the Straits of Florida*
- **2017:** European Geosciences Union (EGU) General Assembly Outstanding Student Poster and PICO (OSPP) Award Winner
- **2016:** Imperial Barrel Award (IBA) participants representing the University of Miami
 - North Alaskan Slope Field
 - Skills Developed: In depth analyses of limited data sets and interpretation, organization of data sets, collective team effort and building collaboration and communication skills between members, Trinity program system modeling, log analysis, correlation between wells, seismic interpretation through Kingdom & Petrel, sequence stratigraphic analyses
- **2016:** Certificate of Completion of the Advanced Computing for Earth Sciences (ACES) Program at the University of Virginia, Charlottesville, Virginia, USA 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++

SKILLS

- **Personal Skills:**

- Team player, Fast learner, Dedicated to tasks at hand, Organized, Punctual, Motivated, Positive attitude, and Willing to assist others

- **Programming Skills:**

- Complete and advanced skill set of Microsoft Office; Adobe Acrobat, Adobe Illustrator, Adobe Photoshop; OsiriX; ESRI packages (i.e. ArcGIS; ArcMAP); Fledermaus; Trinity; Kinex; Kingdom; Petrel; Google Earth Pro; MacBook Terminal and TextWrangler
- Introductory skills to Website Design; coding with MatLab, Python, R, C++, and HTML

PUBLICATIONS, POSTERS, & TALKS

- **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.

- **Posters and Talks:**

- **Galvez, K.C.**, Eberli, G.P., Wienberg, C., Titschack, J., and Mulder, T., 2017, Coral Density and Temperatures of 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., Titschack, J., Hebbeln, D., Wintersteller, P., Freiwald, A., Mulder, T., and Beuck, L., 2017, Pleistocene-Recent Growth Pattern of Cold-water Corals in the Straits of Florida. ECORD Summer School 2017, University of Bremen, Bremen, Germany. Student Presentation.
- **Galvez, K.C.**, Eberli, G.P., Hebbeln, D., Wienberg, C., and Titschack, J., 2017, The Variability of Cold-water Coral Growth within the Straits of Florida. EGU - General Assembly, Vienna, Austria, Student Poster EGU2017-452, A.2. Outstanding Student Poster and PICO (OSPP) Award Winner.
- **Galvez, K.C.**, Sianipar, R., Eberli, G.P., Wienberg, C., and 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., and Pourmand, A., 2016, Variability of Cold-water Coral Growth in Glacial versus Interglacial Times. 6th 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., and 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.

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 outcrops 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.

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