Dylan W. Meyer

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EDUCATION

Ph.D., Geological Sciences — May 2017
The University of Texas at Austin, Jackson School of Geosciences
Thesis: *Formation and stability of synthetic methane hydrate as analogs for natural reservoirs*
Advisor: Dr. Peter Flemings
Cumulative GPA: 3.79/4.0

Bachelor of Science, Marine Geophysics — May 2012
Eckerd College, Natural Sciences Collegium
Cumulative GPA: 3.85/4.0

Bachelor of Science, Computer Science — May 2012
Eckerd College, Natural Sciences Collegium
Cumulative GPA: 4.0/4.0

RELEVANT COURSEWORK

Reactive Transport in Porous Media, Introduction to Mathematical Modeling, Thermodynamics and Phase Behavior, Crustal Geofluids, Formation Evaluation, Geotechnical Engineering, Solid Earth Geophysics, Earth Materials, and Earth Structure

SKILLS

- Comprehensive scientific research experience in the geological sciences (field and lab), particularly with active source seismic collection, processing, and interpretation and synthetic hydrate formation experiments
- Expansive education in the geological, marine, and computer sciences
- Extensive programming experience with MATLAB and Generic Mapping Tools (GMT)
- Working knowledge of GeoLog and DecisionSpace
- Proficient at Microsoft, Macintosh, and Unix/LINUX operating systems
- Well practiced at utilizing Microsoft Word, Excel, and PowerPoint for scientific purposes

EXPERIENCE

Eastern North American Margin Community Seismic Experiment — Sept 2014 – Oct 2014
Science Crew Member — Cape Hatteras, NC

- Assembled, deployed, and recovered ocean bottom seismometers
- Collaborated with deck crew to complete scientific objectives in a safe and timely matter
- Worked with the chief scientists to determine a cruise plan that would allow for maximum time efficiency and that would complete the scientific objectives
- Extensively documented the procedures and methodology implemented for future reference
- Prepared clear, concise cruise reports that communicated the science we performed for all levels of understanding.

Marine Geology and Geophysics Field Course — May 2013 – Jun 2013
Seismic Research Short Course — Austin, TX

- Worked with a large team of students, teaching assistants, and professors to accomplish course goals and collect data for each student team
- Deployed and operated a range of marine geological equipment including: box cores, shipek grabs, multibeam bathymetry, side-scan sonar, high resolution CHIRP, and active source seismic system
- Processed geological and geophysical data through the application of corrections, migrations, and stacking protocols to seismic data, picked seismic velocities, eliminated erratic data from multibeam data, performed grain size analyses
- Used DecisionSpace to compile the data and interpret the results within our assigned study region presented a professional analysis of the structure of buried tributary channel systems beneath Heald Bank, offshore Galveston.

US Geological Survey — Jun 2012 – Aug 2012
Internship — St. Petersburg, FL

- Created Python scripts and C++ programs to perform image post processing tasks including image analysis and the collection of georeferencing information through multiple innovative algorithms
- Performed execution experiments on the stitching capabilities and efficiency of OpenCV
- Prepared professional report explaining the tests performed and outlining the results and conclusions of my experiments

Incorporate Research Institutes for Seismology (IRIS) — Jun 2011 – Aug 2011
Research Internship — Memphis, TN

- Worked for Dr. Maria Beatrice Magnani at the Center for Earthquake Research and Information (CERI) in Memphis, Tennessee
- Deployed and operated advanced seismological equipment on the Mississippi River
- Collected and analyzed hydrophone and CHIRP data with the purpose of better understanding the structural geology of the region
- Created and conducted my own supplementary seismic study and presented my results as an abstract at the 2011 AGU Fall Meeting

US Geological Survey — Jul 2010 – Aug 2010
Internship — St. Petersburg, FL

- Worked as a programmer and field assistant for two scientists studying the after effects of hurricanes on sediment deposition along the Gulf Coast and Cape Canaveral
- Created custom programs in LabVIEW to run the research cameras that were used in the field
- Participated in field work to implement the programs

Sea Education Association — Jun 2010 – Jul 2010
Crew Member and Student — Woods Hole, MA

- Acted as both scientific party and deck crew on a five week cruise in the middle of the Atlantic on the *SSV Corwith Cramer*
- Performed scientific operations and experiments such as CTD casts, neuston nets tows, tucker trawls, plankton identification, and microplastic counts, as related to the scientific goals of the cruise
- Coordinated deck crew for the successful navigation and operation of the vessel from start to finish

US Geological Survey — Jul 2009 – Aug 2009
Lab Assistant — Woods Hole, MA

- Prepared and conducted petrographic experiments in simulated high temperature and pressure conditions
- Sorted through sediment samples to isolate and collect specific minerals (e.g., olivine)
- Used a specialized microscope to capture pictures of samples
- Set up, repaired, calibrated, and cleaned lab equipment

Ocean Drilling Program — Jul 2007 – Jun 2008
Core Lab Supervisor — Sand Diego, CA

- Curated and packaged core samples for shipment
- Innovated and constructed tools to aid lab activities
- Instructed and supervised student workers
- Planned and coordinated student activities to make work day run smoothly and efficiently

HONORS AND AWARDS

GeoPRISMS Student Presentation Honorable Mention — February 2015
Chevron Graduate Student Fellowship — Jan 2015 – May 2015
AGU 2015 Outstanding Student Paper Award in Biogeosciences — February 2015
JSG Energy Geosciences Seed Grant — Dec 2014
Jackson School of Geosciences Fellowship — Jan 2014 – Aug 2014
Ewing-Worzel Fellowship — Spring 2013
Gale White Fellowship — Fall 2012
Eckerd College Presidential Merit Scholarship — Academic Years 2008 - 2012
Graduated with High Honors from Eckerd College — May 2012
Best Student Poster Presentation Award, Eckerd College Science Symposium — Fall 2011
President of Omicron Delta Kappa (Member Since 2010) — Academic Year 2011 - 2012
Eckerd College Dean's List — Fall 2010 - Spring 2012

PROFESSIONAL ORGANIZATIONS

- Jackson School of Geosciences (JSG) — 2012 - 2014
- American Geophysical Union (AGU) — 2011 - 2014
- Geological Society of America (GSA) — 2013
- American Association of Petroleum Geologists (AAPG) — 2013

VOLUNTEER EXPERIENCE

- Back on My Feet Austin Volunteer and Young Professionals Board Member — March 2015 - Present
- Austin Children's Museum Trip Co-Leader — Summer 2013
- Dripping Spring Tiger Splash Drylands Training Coach — Summer 2014
- Austin Pets Alive! Rufftail Runners Volunteer — June 2014 – Present

POSTERS and PRESENTATIONS

2011 AGU Fall Meeting Dec 2011
Erosion and Deposition Patterns of the Mississippi River as a Result of the "100-Year" Flood Event of April 2011
2013 AGU Fall Meeting Dec 2013
Thermodynamic state of hydrate-bearing sediments on continental margins around the world
2013 Society of Petrophysicists and Well Log Analysts Meeting Jun 2013
In situ gas hydrate saturation and salinity of hydrate-bearing sediments through well log analysis
2014 Gordon Research Conference March 2014
Thermodynamic stability of gas hydrate systems on continental margins and in permafrost regions inferred from well log analysis
2014 Offshore Technology Conference May 2014
Thermodynamic Stability of Gas Hydrates in the Krishna-Godavari Basin Inferred from Well Log Analysis
2014 AGU Fall Meeting Dec 2014
Vertical migration of gas through fractures due to salinity-buffered hydrate formation within the hydrate stability zone
2015 AGU Fall Meeting Dec 2015
Methane hydrate formation in a saturated, coarse-grained sample through the induction of a propagating gas front

PUBLICATIONS

Kukulka, T., G. Proskurowski, S. Morét-Ferguson, **D. W. Meyer**, and K. L. Law, 2012, The effect of wind mixing on the vertical distribution of buoyant plastic debris: Geophysical Research Letters, v. 39, L07601.

Meyer, D. W. and Flemings, P. B., 2014, Thermodynamic Stability of Gas Hydrates in the Krishna-Godavari Basin Inferred From Well Log Analysis: Offshore Technology Conference, 2014, Houston, TX, p. 9.