

Education

Ph.D. Geology, University of Utah, Salt Lake City, UT

Dissertation: Geomechanical Analysis of the Lower Mancos Shale, Colorado Plateau
An integration of process sedimentology and geomechanical analyses to determine the effects of sedimentary heterogeneity on fracture propagation utilizing core, laboratory testing, and numerical modeling.
Advisor: Dr. Lauren Birgenheier; GPA 3.97/4.00; Expected Graduation: August 2018

B.Sc. Geology, Appalachian State University, Boone, NC

Recognition of the Kellwasser Event, Late Devonian Hongguleleng Fm, NW China
Sedimentology and geochemistry of anoxic events using XRD, SEM- & CL-microscopy, and whole rock geochemical data to determine severity of the Late Devonian Mass Extinction in an island arc setting.
Advisor: Dr. Sarah Carmichael; GPA 3.97/4.00; May 2013

Appointments

Teaching Assistant, Sedimentology & Stratigraphy, University of Utah	2016 – 2017
Teaching Assistant, Structural Geology, University of Utah	2016 – 2017
Teaching Assistant, Science Communication for the Next Generation, University of Utah	2015 – 2016
Geoscience Intern, Chevron Corporation, Houston, Texas	Summer 2015
<i>CVX South African Strategic BU, 3D geo-cellular modeling of the Nemba Field, Offshore Angola</i>	
Geoscience Intern, Anadarko Petroleum Corporation, The Woodlands, Texas	Summer 2014
<i>APC Geological/ Geophysical Technology, Facies analysis from thin section to seismic, Offshore Mozambique</i>	
Teaching Assistant, Igneous and Metamorphic Petrology, Appalachian State University,	Spring 2013
Geology Tutor, Geology and Geophysics Teaching Museum, Appalachian State University,	2012 – 2013
Chemistry Tutor, University Tutoring Services, Appalachian State University,	Fall 2011

Selected Geologic & Synergistic Experiences, Fellowships, Grants, and Awards

Cottonwood Canyons Foundation and US Forest Service Tour with a Ranger Volunteer	2016 – 2017
USTAR-Energy Research Triangle Scholars Grant, \$15000	Spring 2017
GSA Grants-in-Aid, ExxonMobil Research Grant, \$7500	Summer 2016
AAPG Grants-in-Aid, Raymond D. Woods Memorial Grant, \$2750	Spring 2016
Rocky Mountain Section SEPM, Donald L. Smith Award, \$1000	Spring 2016
Cooper-Hansen Foundation Fellowship, University of Utah, in conjunction with TA position	2015 – 2016
Imperial Barrel Award, Taranaki Basin, NZ Dataset, Rocky Mountain Region, Second Place	Spring 2015
Petroleum Industry Career Path (PICP) Certificate, University of Utah	Spring 2015
Cooper-Hansen Foundation Fellowship, University of Utah	2014 – 2015
ConocoPhillips Fellowship, University of Utah	2013 – 2014
Geology Field Camp, Lost River Field Station, Idaho State University, Department of Geoscience	Summer 2013
Class of 2013 Geology Departmental Academic Honor Award, Appalachian State University	May 2013
Undergraduate Research Assistant, Appalachian State University	2011 – 2013
Chancellor's List and Dean's List, Appalachian State University	2010 – 2013

Technical Skills

Analogue geomechanical laboratory experience, Scanning Electron Microscopy, Cathodoluminescence microscopy, X-ray Diffraction analysis, Optical and petrographic microscopy, core description, Petrel 2014.5, Adobe Illustrator & Photoshop, MATLAB Simulink Software. *References and NSF style CV available upon request.*