

Curriculum Vitae

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Education

- ❖ Bachelor of Arts: Geology *May 2016*
Colorado College, Colorado Springs, CO
GPA: 3.83, Major GPA: 3.87
Relevant fieldwork and coursework: Physical Geology, Historical Geology, The Rocky Mountains as a Chemical System, The Rocky Mountains as a Physical System, Planetary Geology, Terrestrial Environments of the Past, Geomorphology, Igneous Petrology, Introductory Geophysics, Structural Geology, Geochemistry of the Rock Cycle, Stratigraphy & Sedimentation, Studies in Geology: Map of the Caloris Basin Mercury, Regional Studies in Geology
Total Days in the field: 82

Research Experience

- ❖ Planetary Geology Intern *June 2015-July2016*
The Johns Hopkins University Applied Physics Laboratory
Funded by NASA's Planetary Geology and Geophysics Undergraduate Research Program (PGGURP)
Research Advisor: Dr. Debra Buczkowski
- Created a geologic map of the Caloris basin on Mercury using MESSENGER data
 - Used ArcMap v.10.3
 - Expected publication with the USGS in 2016
 - Presented the map as a poster at GSA 2015 in Baltimore, MD and at the Lunar and Planetary Science Conference (LPSC) in March 2016

Relevant Field Experience and Projects

- ❖ Regional Studies in Geology (GY445)-17 field days
- Explored the regional geologic history of Wyoming and Montana for 17 days
 - Focused on Quaternary glaciology, variations in large-scale fold-thrust belt structure, and the Purcell-Belt Supergroup
- ❖ Introductory Geophysics (GY308)-3 field days
- Independently mapped subsurface expressions of dikes using a magnetometer in the Spanish Peaks, CO

- This was a self-created group project approved by our professor and executed independently over 3 days in the field
- ❖ Structural Geology (GY315)-8 field days
 - Geologically and structurally mapped the Alcova Reservoir in Alcova, WY
- ❖ Surface Processes and Geomorphology (GY320)-8 field days
 - Geologically mapped Quaternary terraces and calculated change in streamflow dynamics as a result of debris flows at the Colligate Peaks, CO
- ❖ Stratigraphy and Sedimentation (GY305)-8 field days
 - Constructed a detailed stratigraphic column and depositional history for a 100m section near Steamboat Springs, CO
- ❖ Terrestrial Environments of the Past (GY250)-9 field days
 - XRD and XRF analysis of paleosol deposits at the K-P boundary in the San Juan basin near the Bisti Badlands, NM

Awards and Honors

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| ❖ Dean's List, Colorado College | 2015-2016 |
| ❖ Dean's List, Colorado College | 2014-2015 |
| ❖ Dean's List, Colorado College | 2013-2014 |
| ❖ Eagle Scout, Boy Scouts of America | 2010 |

Abstracts

- ❖ "Geologic map of the Caloris basin, Mercury," 2016 *at* LPSC 2016
 - <http://www.hou.usra.edu/meetings/lpsc2016/pdf/1254.pdf>

Computer & Technical Skills

- ❖ Hands on experience in sample preparation and data interpretation for both X-Ray Diffraction (XRD) and X-Ray Fluorescence (XRF)
- ❖ Proficient in the use of ESRI's ArcMap v.10.3 and v.10.2
- ❖ Learned in Python v3.0
- ❖ Capable of using both Windows and Mac OS
- ❖ Comfortable with Adobe Illustrator and Photoshop editing software
- ❖ Experience using R studio for statistical purposes