

Nicholas J. Taylor

1000 E. University Avenue, Laramie, WY 82071 • (912).704.0440 • ntaylor9@uwyo.edu

Education:

The University of Wyoming

September 2014-Present

M.S. Geophysics

Graduate Research Assistant

The University of Georgia

August 2009-June 2013

Bachelor of Science in Geology

Cumulative GPA: 3.84/4.00

Major GPA: 3.78/4.00

HOPE Scholarship Recipient, Dean's List

Newmont Mining Outstanding Undergraduate Student Scholarship

May 2013

Student Research and Field Work:

The University of Wyoming, Department of Geology & Geophysics

Graduate Research Assistant to Ken Dueker and Cliff Riebe

August 2014-Present

- Ambient seismic tomography: using Rayleigh waves to image the 3D shear wave structure of the near surface to constrain water conduits and storage in the Southern Sierra Nevada range

The University of Georgia, Department of Geology

Undergraduate Field Assistant to Robert Hawman for Southeastern Suture of the Appalachian Margin Experiment (SESAME)

May 2011-May 2013

- Installed and serviced PASSCAL US Array seismic equipment
 - Project funded by National Science Foundation
 - Collaborations with Brown University, University of Georgia, University of North Carolina
- Independent Research: Extrapolated data using the receiver function method
 - Constrained crustal thickness and V_p/V_s ratio in the Carolina terrain to model the Moho depth and continental crust mineralogy
 - JWEED and related software from IRIS used for obtaining and plotting earthquake data recorded by PASSCAL broadband array

University of Georgia Field School, CO

May 2013-June 2013

- Geologic mapping in the Canon City Basin, CO
 - ArcGIS used to construct geologic maps and cross-sections
- Water chemistry analysis of the Summitville mine site, CO

Undergraduate Research Assistant to Samuel Swanson and Chris Fleisher

January-May 2011

- Analyzed Li- pegmatite samples with electron microprobe and petrographic microscope to determine mineralogy
- Co-author to poster titled *Comparison of Mineralogy of Li Pegmatite in the Kings Mountain District, North Carolina*; abstract published in The Geological Society of America meeting bulletin

Employment:

Department of Geology and Geophysics, University of Wyoming

September 2013-Present

Graduate Research Assistant:

- Geophysical research at the Southern Sierra Critical Zone Observatory (SSCZO)
- Wyoming Center for Environmental Hydrology and Geophysics (WyCEHG) student collaborator
 - Assisted in deployment of a nodal array at a watershed in the Snowy Range near Centennial, WY as a preliminary experiment to study the Critical Zone using passive seismic interferometry

Center for Applied Isotope Studies, University of Georgia

August 2013-July 2014

Laboratory Technician: Assisting senior analytical chemist with:

- Sample analysis using ICP-MS, ICP-OES, and CHN Analyzer
- Creating soil analysis methods on Optima 8300 ICP-OES
- CHEMATIX inventory and hazardous waste disposal
- Sample preparation including double acid extraction for soils, and dry ash and wet digest methods for plant tissue