

Kayleigh Wilson

University of Wyoming, Department of Geology and Geophysics

EDUCATION

M.S. Geophysics, Seismology

University of Wyoming, Laramie, WY Expected graduation: Spring 2016

Imaging of the magma chamber beneath the Yellowstone Caldera via receiver function analysis of seismic data from new broad-band seismometers, under the direction of Dr. Ken Dueker

B.S. Geology, Concentration in Geophysics – 3.6 GPA

Western Washington University, Bellingham, WA August 2012

MARINE RESEARCH AND FIELD EXPERIENCE

Assistant Geophysicist - Tetra Tech

October 2012- August 2014

- Data acquisition involving a variety of geophysical systems including sub-bottom profiler, side scan sonar, multibeam echosounder, electromagnetic systems, and associated navigation information aboard marine survey vessels
- Processed all of acquired data types to QA/QC and to produce charts and 3D models
- Seafloor analysis and classification based on benthic terrain and seafloor habitats
- Proposal and report writing for various types of marine surveys to investigate dam spillways, potential cable routes and areas containing unexploded ordnances
- Chart creation for proposals in addition to charting collected data for reports

NOAA Mapping Intern – Multibeam bathymetric research cruise EX1206 aboard NOAA's Okeanos Explorer

November 2012

- Mapped submarine canyons within the US EEZ off of the Atlantic Continental Shelf
- Processed and logged bathymetric data using CARIS and industry data logging procedures
- Discovered gas seeps east of Cape Henry, VA
http://www.noaanews.noaa.gov/stories2012/20121219_gas_seeps.html

Undergraduate Shipboard Scientist - Velocity structure of Lō'ihī submarine volcano, Hawai'i

August 2010 and July 2011, under the direction of P.I. Jackie Caplan-Auerbach

- Deployed ocean bottom seismometers in 2010 and recovered them in 2011

LAND BASED FIELD EXPERIENCE

Mapping, Field Methods and Theory, Western Washington University

June through July 2012

Structural Geology Field Course, Western Washington University

September 2011

SOFTWARE SKILLS AND EQUIPMENT EXPERTISE

Software: MATLAB, Chesapeake SonarWiz, CARIS HIPS/SIPS, ESRI ArcGIS, Geosoft Oasis Montaj, SEISSE, Hypack, Global Mapper

Equipment: Ocean Bottom Seismometer, Magnetometer, Towed Electromagnetic Array (TEMA), Side Scan Sonar/Sub-bottom Profiling Systems, CTD/UCTD/XBT