

KYLE MURRAY

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EDUCATION

Cornell University

- PhD in geophysics (in progress)
- Advisory committee: Rowena Lohman, Katie Keranen, Todd Walter

Ithaca, NY [2015 – present]

New Mexico Institute of Mining and Technology

- M.S. in geophysics
- Thesis: GPS measurements of the Rio Grande rift
- Advisory committee: Mark Murray, Susan Bilek, Jolante van Wijk

Socorro, NM [2013 – 2015]

Montana State University

- B.S. in geology with honors
- Minor: Spanish language and Hispanic studies
- USP scholar (undergraduate scholar program)

Bozeman, MT [2006 – 2011]

Universidad Politécnica De Valencia

- International Student Exchange Program (ISEP)
- Departamento de las ciencias de la tierra
- TANDEM language exchange volunteer

Valencia, Spain [2008 – 2009]

RESEARCH EXPERIENCE

Cornell University

- Research in geophysics (space-geodesy/active tectonics/hydrology)

Ithaca, NY [2015 – present]

New Mexico Institute of Mining and Technology

- Research in geophysics (focus on GPS geodesy/tectonics)

Socorro, NM [08/13 – 08/15]

Hawaiian Volcano Observatory Intern (Volunteer)

- Compiled an updated velocity model for the seismic network using seismic tomography and reflection

HNP, Hawaii [12/12 - 04/13]

Montana State University

- Geology undergraduate research assistant in structural geology and metamorphic petrology

Bozeman, MT [06/10 - 06/11]

Yellowstone Ecologic Research Center

- GIS technician; Assimilation, mapping, and statistical analysis of remote sensing and geospatial data

Bozeman, MT [09/10 – 06/11]

ABSTRACTS

Murray K., Murray M., Sheehan A., Nerem S., van Wijk, J., Axen, G. (2016). GPS measurements of deformation near the Rio Grande rift: Evidence for variations in the rate of extension. 2016 UNAVCO Science Workshop

Murray K., Murray M., Sheehan A., Nerem S., van Wijk, J., Axen, G. (2015). GPS measurements of deformation near the Rio Grande rift: Evidence for variations in the rate of extension. 2015 Fall American Geophysical Union Conference.

Murray, K., Dobbins, J., Murray, M., van Wijk, J., Axen, G. (2015). *The active Rio Grande rift: Summarizing our current understanding of present-day deformation from geodetic and stress measurements*. New Mexico Geological Society Annual Spring Meeting, P. 41.

Abera, A., Sion, B., van Wijk, J., Axen, G., Koning, D., Chamberlin, R., Gragg, E., **Murray, K.D.**, Dobbins, J. (2015). *Timing, geochemistry, and distribution of magmatism in the Rio Grande rift*. New Mexico Geological Society Annual Spring Meeting, P. 7.

Gragg, E., Koning D., van Wijk, J., Axen, G., Sion, B., Abera, R., **Murray, K.D.**, Dobbins, J., Murray, M., Chamberlin, R. (2015). *Changes in Rio Grande rift tectonism as inferred from subsidence curves*. New Mexico Geological Society Annual Spring Meeting, P. 21.

van Wijk, J., Axen, G., Sion, B., **Murray K.**, Gragg, E., Abera, R., Dobbins, J., Koning, D., Murray, M., Chamberlin, R., (in preparation). *The active Rio Grande rift*. For submission to Geosphere.

- Murray K.**, Murray M., Sheehan A., Nerem S. (2014). *Deformation along the Rio Grande rift: Investigating the spatial and temporal distribution of strain using GPS*. 2014 Fall American Geophysical Union Conference
- Murray, K.**, Shaw C. (2011). *Study of the Savage Peak Shear Zone*. Montana State University Student Research Celebration

TEACHING EXPERIENCE

- YSE Education Center** *Kobe, Japan [04/13-08/13]*
- Science and mathematics teaching and curriculum development
- キンダーキッズ (KK International School)** *Osaka, Japan [11/11-09/12]*
- Taught a variety of subjects to a class of 18 students at a bilingual international school

FIELD EXPERIENCE

- New Mexico Tech/PASSCAL** (New Mexico) *[2013 – 2015]*
- Assisted in various seismic instrument deployments
- Hawaiian Volcano Observatory** (Kilauea, Hawaii) *[12/12 - 04/13]*
- Seismology/geodetic network maintenance, gas geochemistry, flow field geological mapping
- Montana State Geology field course** (SW Montana and Wyoming) *[05/11 - 06/11]*
- Mapping and practical field methods in igneous, metamorphic, and sedimentary environments
- Undergraduate Research Project** (Central Colorado) *[06/10 – 07/10]*
- Structural measurements, mapping, and sample collection

COMPUTER SKILLS

Matlab	ArcGIS/QGIS	GAMIT/GLOBK (GPS processing)
Python (Basic level)	Generic Mapping Tools (GMT)	ROI_PAC (InSAR processing)
HTML/CSS	Seismic Analysis Code (SAC)	GMTSAR (InSAR processing)
Linux/Unix	PDAL (LiDAR processing)	ISCE/GIAnt (InSAR processing)

EXTRACURRICULAR COURSES

- InSAR Processing & Theory with GMTSAR *[Scripps Institution of Oceanography, 2016]*
- Open source ALS and MLS processing tools *[UNAVCO, 2016]*
- Deform2015 thematic school *[Institut De Physique Du Globe De Paris, 2015]*
- Geophysical instrumentation short-course *[Iris Passcal, 2014]*
- Terrestrial Laser Scanning short-course *[UNAVCO, 2014]*

RECENT GRANTS & FELLOWSHIPS

- McMullen Fellowship *[Cornell University, 2017]*
- New Mexico Geological Society grant *[NMGS, 2015]*
- Deform2015 thematic school grant *[Institut De Physique Du Globe De Paris, 2014]*
- Kay and Elise Brower Music Scholarship *[New Mexico Tech, 2014]*

LANGUAGES

- English (Native Level)
- Spanish (Advanced Level)
- Japanese (Conversational Level)