

Leah Roberts

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EDUCATION

- Master of Arts in Teaching with a Specialization in Earth Science (grades 7-12)** **Aug 2014**
New York, NY
- American Museum of Natural History (AMNH)
 - Davis Fellow (full tuition scholarship and living stipend)
- Master of Science in Geology** **Aug 2009**
Albuquerque, NM
- University of New Mexico, Dept. of Earth and Planetary Sciences
 - Thesis Title: *Biogeomorphology and Soil Geomorphology of Small, Semi-Arid Basins, Northeastern Arizona: Influences of Topoclimate and Climate Variations*
 - Black Family Graduate Fellowship
- Bachelor of Science in Biology** **May 2002**
Fort Collins, CO
- Colorado State University, Dept. of Biological Sciences
 - summa cum laude*

CERTIFICATION

- New York State Professional Certification for Earth Science grades 7-12 **Aug 2014**

TEACHING EXPERIENCE

- Middle School Science Teacher** **Sept 2014 – Sept 2018**
Metropolitan Expeditionary Learning School **Forest Hills, NY**
- Taught middle school science to 120 students in grade 8
 - Developed curriculum and lesson plans that align with the principles of Expeditionary Learning, as well as the Next Generation Science Standards
 - Created all supporting lesson materials, including readings, worksheets, and laboratory manuals
 - Analyzed teaching strategies and student outcomes with a team of teachers
 - Planned and facilitated Science Department meetings around a focused inquiry cycle
- Math for America Early Career Fellow** **Sep 2015 – July 2018**
Math for America, Master Teachers of Math and Science **New York, NY**
- Participated in a range of learning opportunities to develop pedagogical skills and new strategies for reaching all students in the classroom
 - Facilitated a wellness course for the MfA community teachers
- Teaching Resident** **June – Aug 2013**
American Museum of Natural History **New York, NY**
- Promoted scientific literacy among museum patrons by engaging in inquiry techniques about items in museum's halls
 - Co-taught 20 7th grade students and 15 high school students in Lang Science Program – a 4-week competitive program for young scientists
 - Planned and implemented a lesson on meteorites for 20 students in grades 9-12 for Summer Science Institute – a two week institute for NYC high school students with an interest in science

TEACHING EXPERIENCE (CONT'D)

Teaching Assistant	Aug 2008	May 2009
University of New Mexico	Albuquerque, NM	
<ul style="list-style-type: none">• Assisted professor in a 4-week long, experiential Introductory Field Geology summer course• Assisted professor in a weekly, fieldtrip-based New Mexico Field Geology course• Taught Introductory Geology Laboratory course to 30 college sophomores		

SCIENCE EXPERIENCE

Biological Science Technician	June	Sept 2012
Bureau of Land Management	Fairbanks, AK	
<ul style="list-style-type: none">• Monitored and managed invasive plant species along river corridors• Collected and analyzed vegetation and soil data to provide information on caribou habitat		

Agroforestry Volunteer	Sept 2009	Dec 2011
US Peace Corps	Paraguay, South America	
<ul style="list-style-type: none">• Constructed, planted, and maintained a small yerba maté tree nursery with a local farmer• Taught Environmental Education and English as a foreign language to middle school students• Evaluated the need for reforestation and, working with a local NGO, distributed over 10,000 native tree saplings to more than 50 families		

Research Assistant	Aug 2008	May 2009
Lidar Laboratory, University of New Mexico	Albuquerque, NM	
<ul style="list-style-type: none">• Performed terrestrial laser scanner data acquisition in a variety of field settings for geotechnical applications• Assisted with Lidar data processing using an Optech ILRIS laser scanner and Polyworks scanning software		

Biological Science Technician	Feb	Dec 2003
US Geological Survey, Southwest Biological Science Center	Moab, UT	
<ul style="list-style-type: none">• Estimated frequency and diversity of biological soil crusts in the Southwestern US• Collected soil samples and surveyed vegetation in plots selected from aerial photographs and soil maps in southern Idaho and southern California		

SKILLS/ACTIVITIES

- **Computer skills:** SMART Board, ArcGIS, Microsoft Word/PowerPoint/Excel, Matlab, Adobe Illustrator/Acrobat/Photoshop
- **Language skills:** Spanish (intermediate), Guaraní (beginner)
- **Activities:** yoga, bicycling, traveling, hiking, gardening, local food, camping, public radio

REFERENCES

Available upon request