

# MANEH KOTIKIAN

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## OBJECTIVE

My diverse geology-related research background and studies have steered me in the direction of hydrogeophysics with a passion for understanding water interactions in the subsurface. I am interested in applying my knowledge to industry, where geophysical methods are used for resource extraction and environmental safety

## EDUCATION

- University of Wyoming**, Laramie, WY Expected 2019
- PhD student, hydrogeophysics; adviser: Dr. Andy Parsekian
- Mount Holyoke College**, South Hadley, MA. Graduated May 2015
- B.A., geology major with honors, geography minor, GPA: 3.4, Major GPA: 3.7

## RELEVANT EXPERIENCE

**Undergraduate Honors Thesis: Reconstructing the Holocene and Anthropocene Stratigraphic History in Fourmile Canyon** Fall 2014 – Spring 2015

- Studied recently exposed stratigraphy along Fourmile Creek to understand sediment accumulation and environmental events (floods and fires) before and after the Anthropocene using C-14 dates as age controls (field research opportunity provided by Keck Geology Internship)
- Defended thesis and presented at Mount Holyoke College's Senior Symposium

**Keck Geology Internship**, Leaders: Dr. David Dethier and Dr. Will Ouimet, Boulder, CO July 2014

- Designed and completed independent research project reconstructing the Holocene and Anthropocene sedimentary history and fire occurrences in Fourmile Canyon near Boulder, CO
- Presented at the annual Keck symposium at Union College in April and showcased a poster

**Teaching Assistant**, Rocks and Minerals GEOL-201 Fall 2014

- Assisted with labs, held help sessions explaining material to students, and graded

**Independent Study: Hydrologic Analysis using GIS**, Adviser: Dr. Thomas Millette Spring 2015

- Curiosity in hydrology led me to create a project to study a USGS monitoring bedrock well in Pelham, MA mysteriously losing water by analyzing changes in precipitation patterns and land-use changes with GIS

**Research Assistant for Dr. Steve Dunn**, *Mount Holyoke College*, South Hadley, MA May – August 2013

- Assisted with Dr. Dunn's research on graphite-calcite fragmentation and the relation to grain size
- Performed meticulous lab work independently including separating graphite by grain size, combusting, collecting produced gas in a vacuum and analyzing gas using a mass spectrometer to compare isotope values of the different grain sizes

## FIELD EXPERIENCE

**Geologic Mapping Field Course**, *UMass Amherst*, Amherst, MA Fall 2014

- Gained expertise creating outcrop maps, cross sections and interpreting structure from mapping results

## ADDITIONAL EXPERIENCE

**Volunteer**, *Birthright Armenia*, Yerevan, Armenia June – August 2015

- Volunteered at the *American University of Armenia's Acopian Center for the Environment and Center for Responsible Mining* digitizing a geohydrology map of Armenia and creating a new database and map of surface water pollution including pollution sources and pathways using GIS
- Volunteered at *Centaur Association of Hippotherapy and Equestrian Sports* providing the children therapy with horses and teaching them correct riding for muscular therapy as well
- Responsible for the safety of the child and ensuring full control of the horse at all times

**Sales Associate, Designer**, *Boston Ring and Gem*, Boston, MA May – August 2014

- Educated customers in selecting diamonds and worked with them to design rings for engagements and weddings
- Ensured everything was accounted for at all times and that customers were attended to
- Communicated the customers' ideas with the jewelers

**Sales Associate, Farmer's Market Vendor**, *Fastachi*, Watertown, MA, 2011 – 2013

- Worked at many farmers' market locations involving set up, sales, and business promotion
- Experience as a cashier dealing with money, orders, and re-stocking shelves
- Coordinated deliveries to farmers' markets and for UPS shipments

#### **AWARDS**

- Mount Holyoke Leadership Award : a merit scholarship for students that demonstrate leadership
- Ames-Weed Fund for Geology : to support geologic research
- Claire Bates-Davidson Geology Fellowship
- Martha Godchaux Field Scholarship
- Mary F. Waterous Field Studies Scholarship

#### **SKILLS**

**Computer:** ArcGIS, IDRISI, Adobe Photoshop, Illustrator, Actionsript, Java, Matlab, Hoboware

**Instrumentation:** Petrographic Microscope, Brunton Compass, Handheld GPS, Scanning electron microscope, Mass spectrometer, Vacuum line, NMR, GPR

**Language:** Fluent: English, Armenian; Basic: Spanish, French

#### **ACTIVITIES**

**Rider, Mount Holyoke College IHSA Varsity Equestrian Team** 2012 – 2015

**Rider, Coordinator, Mount Holyoke College IHSA Western Riding Team** 2011 – 2014

- Co-designed fundraising projects to raise team funds for the year
- Managed team apparel including placing large custom orders and embroidering

#### **RECOMMENDERS**

Available upon request