

# Summer Miller

P.O. Box 753566 Fairbanks, Alaska 99775-3566  
summer.miller@gi.alaska.edu - Cell: 949-683-3573 - <http://gps.alaska.edu/summer>

---

## OBJECTIVE

To obtain employment and experience in a field using the education and degrees I have earned. I would like to work on projects with aspects of both geophysics and geology using a variety of survey methods.

## SUMMARY OF QUALIFICATIONS

Geologic professional with a unique combination of technical experience, education, and volcanic research. Excellent written and verbal communications skills, time management, problem solving and organizational skills. Self-motivated team player, passionate about volcanoes. Works well with other groups within and external to project. Software skills include the MS Office Suite, Access, Adobe PDF, Photoshop and Illustrator, Digital Image processing, Linux. Areas of expertise include:

### **Technical Experience**

Lab Research Assistant  
Data Collection Surveys  
GPS Installation  
Presentations  
Report Writing  
Database Entry

### **Education Coursework**

Field Methods/Field Camps  
Petrology/Mineralogy  
Tectonics/Structural Geology  
Geophysics  
Geodynamics  
Geochemistry/Isotope Tracers

### **Geologic Research**

Volcanic Deformation  
Process various InSAR Data  
Process Kinematic GPS Data  
Process MSH images for public  
Mapped Lava on active flows  
Database Creation & Analysis

## RESEARCH INTERESTS

I am interested in using geophysical methods to explore the earth be it volcanoes, earthquake faults or subsurface geology. My current research interests involve the combination of geodetic tools to observe volcanic deformation, specifically InSAR and GPS in remote locations such as Aleutian volcanoes. Another project involves the use of a variety of field geophysical methods to understand subglacier dynamics on the Taylor glacier in Antarctica.

## PROFESSIONAL EXPERIENCE

### **ALASKA VOLCANO OBSERVATORY, Anchorage, Alaska**

**6/2010-9/20011**

#### ***Summer Volunteer Intern, Geophysics Group***

Assisted and lead various projects related to GPS, seismic, and infrasound installation and maintenance at 4 volcanoes along the Aleutian chain.

### **CALTECH SEISMOLOGY LABORATORY, Pasadena, California**

**4/2009-9/2009**

#### ***Field Technician/Scientist***

Salton Seismic Imaging Project (SSIP) a large-scale seismic reflection and refraction survey that took place in southeastern California in March, 2011. The project involved deployment of seismometers in over 4000 locations to record more than 100 borehole explosions, and was a collaboration among Caltech, Virginia Tech, and the US Geological Survey. <http://pubs.usgs.gov/of/2010/1295/>

### **UNAVCO – PLATE BOUNDARY OBSERVATORY, Boulder, Colorado**

**2/2007-10/2008**

#### ***Field Engineer, Southern California Region***

UNAVCO, a non-profit, membership-governed consortium, supports and promotes earth science by advancing high-precision techniques for the measurement and understanding of deformation.

### **HAWAIIAN AND CASCADES VOLCANO OBSERVATORIES, Volcano, HI & Vancouver, WA**

**1/2006-11/2006**

#### ***Volunteer Intern, Geodesy Group***

Assisted on various projects related to geodesy of volcanoes in the region.

## EDUCATION

**M.S. Geophysics**, University of Alaska Fairbanks, – Anticipated graduation May 2012

**B.S. Geological Sciences**, University of California at Santa Barbara, – May 2005

**A.A. General Education**, Irvine Valley College, Irvine, CA - May 2003