

# Veronica Hanus

vzh@mit.edu 402.319.4517

## Education

---

**Colgate University**, Hamilton, NY

Bachelor of Arts, Geology, May 2010

Alumni Memorial Scholar Fellowship Awardee

· \$5,000 award for the top 2% of each class year to fund research

## Data Collection & Management

---

*Research Engineer*, **Schlumberger-Doll Research Center Petrolabs**, Cambridge, MA, Mar. 2014 - Dec. 2014

- Prepared samples, collected mineralogy data, and presented findings
- Projects included samples from the Vaca Muerta, Eagle Ford, Marcellus, Bakken & Qusaiba formations
- Rebuilt mineral standards library, increasing the number of standards from 34 to 75

*Research Assistant*, **MIT Paleomagnetism Laboratory**, Cambridge, MA, Jan. 2012 - Oct. 2013

- Performed conglomerate test and alternating field demagnetization on early-earth rocks
- Improved procedure for removing contaminants from sample disks, allowing more precise measurements to be taken
- Maintained lab by completing organizational tasks, including ordering supplies, introducing others to procedures, & trouble-shooting

*Data Intern*, **NASA Jet Propulsion Laboratory**, Pasadena, CA, Jan.– Aug. 2009

- Led student effort to determine rock distributions for possible landing sites for the Mars Curiosity rover and developed methods to incorporate these distributions into GIS datasets
- Maintained ArcGIS database and prepared existing data for landing site selection
- Mentored three students, teaching them pertinent geology concepts and helping them adjust to lab
- Collaborated with software lead to implement improvements, developed assessment criteria

## Organization & Communication

---

*Event Lead*, **Graduate Women at MIT (GWAMIT) Fall Leadership Conference**, Cambridge, MA Fall 2012

- *Facilitated a panel of women who have managed a transition between academia and industry*

*Event Lead*, **MIT Student Information Processing Board Cluedumps Lecture Series**, Cambridge, MA Fall 2011

- *Facilitated a fifteen week series of technical lectures on a variety of computing-related topics that reached 250+ people*

*Senior Advisor* (2009-2010) & *Vice-President* (Fall 2008), **Colgate University Geological Society**, Hamilton, NY

- Coordinated quarterly presentations of Earth Science topics at local schools with typical participation of six geology students and 60+ middle school students
- Directed student trips to locations of geologic interest
- Facilitated communication between faculty and students by publicizing class trips, speakers, and club events
- Coordinated weekly “bad geology” movie series and moderated accompanying discussions

*Student Senator*, **Colgate University Student Government Association**, Hamilton, NY, 2005-2007

- Served on Academic Affairs Board as one of two students elected to advocate for student needs
- Acclaimed for creative problem-solving and outstanding communication with constituents

## Teaching & Advising

---

*Science Instructor*, **Guided Discoveries Astrocamp**, Idyllwild, CA, Spring 2015

- Developed curriculum and introduced 3rd-11th graders to planetary science and geology in an experimental teaching environment

*Writing Instructor*, **MIT Academic Teaching Initiative SAT Prep**, Cambridge, MA, 2011-2012

- Developed and taught 12-week course for 110 students, a low-cost alternative to commercial SAT preparation
- Developed online system for student homework submission and grading

*Instructor*, **Bootstrap Afterschool Program**, Cambridge, MA, 2011

- *Used functional programming (Scheme) to teach 14 middle-school students to create video games and strengthen math skills*

*Grant Writer*, **ARRL Education and Technology Program Grant for School Radio Equipment**, Dec. 2010

- Wrote successful \$3,000 grant to purchase robotics for after-school programs in a disadvantaged community

*GIS Instructor and Coach*, **Academy Robot Club**, Elkhorn, NE, Fall 2010

- Integrated GIS and robotics to make them accessible to 10 middle-school and junior high students

## Certifications

---

*Licensed Private Pilot*, *National Registry Certified Emergency Medical Technician (EMT-B)*, *Wilderness First Aid Certified*, *CPR/AED for Professional Rescuers*, *Red Cross First Aid/AED/CPR Instructor*

*Publications and references available upon request.*