

## Education:

2019 - Present

**Stanford University**

Stanford, CA

***PhD in Geosciences***

- Subject Areas: Planetary Science, Astrobiology
- Adviser: Laura Shaefer, PhD. (e-mail: [lschaef@stanford.edu](mailto:lschaef@stanford.edu) )

2017 - 2019

**Pennsylvania State University**

State College, PA

***Master's in Geosciences, Received August 2019***

- GPA : 3.7
- Subject Areas: Geoscience
- T.A. Experience:
  - Introduction to Physical Geology Lab
  - Preparing, running and grading weekly labs for 60+ students.
- Master's Thesis: Constraints on Earth's Thermal Evolution from the Heavy Noble Gas Content of the Mantle.
  - Adviser: Bradford Foley, PhD. (e-mail: [bjf5382@psu.edu](mailto:bjf5382@psu.edu) )

2013 - 2014

**Southern New Hampshire University**

Manchester, NH

***Master's in Education, Received July 2014***

- GPA : 3.91
- Classroom Observations: 6<sup>th</sup> Grade Science

2007 - 2011

**University of New Hampshire**

Durham, NH

***Bachelor of Science, Physics: Astronomy, Received July 2011***

- Cum Laude
- Honors in Major.
- University Scholar
- GPA : 3.46
- Undergraduate Thesis: Deviations in Ultra-High Energy Neutrino Spectra due to CPT Violation.
  - Adviser: David Mattingly, PhD. (e-mail: [david.mattingly@unh.edu](mailto:david.mattingly@unh.edu) )

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## Employment and Experience:

June 2018 – June 2019

**Volunteering - 5<sup>th</sup> Grade Astronomy Teaching**

State College, PA

- Weekly guest lectures at Mount Nittany Elementary School.

- 5th grade teachers:
  - Tim Kamats (e-mail: [tmk14@scasd.org](mailto:tmk14@scasd.org) )
  - Karen Styers (e-mail: [krs11@scasd.org](mailto:krs11@scasd.org) )
- Principal: Mark Feldman (e-mail: [mjf15@scasd.org](mailto:mjf15@scasd.org) )

September 2016 – July 2017

**Online tutoring – Chegg.com**

Candia, NH

- Subjects taught: Physical science, earth science, physics, astronomy, astrophysics, basic math, geometry, trigonometry, pre-calculus, calculus.

July 2016 – September 2016

**Volunteering – English Teaching**

Siem Reap, Cambodia

- Assistant English teacher at the Chea Smonn school.
- Primary teacher: Lach Ravy
- Principal: Phay Sopheak (e-mail: [phaysopheak@yahoo.com](mailto:phaysopheak@yahoo.com) )

2015 - 2016

**Denver Math Fellows**

Denver, CO

- Math Teacher at West Generation Academy.
- Mathematics support and intervention for 6<sup>th</sup> and 8<sup>th</sup> grade students who are behind grade level.
- Responsibilities:
  - Lesson Planning
  - Assessing student performance
  - Parental contact
- Taught a group of 6<sup>th</sup> graders the basics of calculus:  
(<https://www.youtube.com/watch?v=T7YJeK--xxQ> )
- Site Supervisor: Tiffany Almon (e-mail: [TIFFANY\\_ALMON@dpsk12.org](mailto:TIFFANY_ALMON@dpsk12.org) )

February 2015

**Neutral Ground Dispute Resolution Center**

Walla Walla, WA

*Certificate, Received May 2015*

- 40-hour Fundamentals of Facilitative Mediation Training

2014 – 2015

**BMAC (Blue Mountain Action Council) AmeriCorps.**

Walla Walla, WA

- Teacher and academic aide at Lincoln High School serving high-need, at-risk students.
- Academic support for the Recovery school.
  - Ran program for students transitioning back into the school environment after rehab.
- Assisting teachers in History, Science and College Prep classes.
  - Producing laboratory instruction videos for science class - Human Body Systems (HBS) online curriculum:
  - Video: [https://www.youtube.com/watch?v=QyyMMTG0i\\_w](https://www.youtube.com/watch?v=QyyMMTG0i_w)
  - Science teacher: Erik Gordon (e-mail: [erikggordon@gmail.com](mailto:erikggordon@gmail.com) ).
- Volunteer for the Sustainable Living Center at the Walla Walla Community College.
  - Project: Georgetown University Energy Prize.

- Site Supervisor: Principal Marci Knaft (e-mail: [mknaft@wwps.org](mailto:mknaft@wwps.org) )
- AmeriCorps supervisors: Belen Cardenas (e-mail: [belenc@bmacww.org](mailto:belenc@bmacww.org) ) and Cat Pond (e-mail: [catp@bmacww.org](mailto:catp@bmacww.org) )

2011 - 2013

### **Hubbard Center for Genome Studies.**

Durham, NH

- Laboratory assistant working in analytical biochemistry.
- Educated on the basics of Glycobiology and Glycomics.
- Trained in various analytical methods:
  - Liquid and gas chromatography
  - Mass spectrometry
- Work/Tasks/Responsibilities:
  - Equipment Maintenance and Operation
  - Sample preparation
  - Data analysis
- Employer: Vernon Reinhold (e-mail: [Vernon.Reinhold@unh.edu](mailto:Vernon.Reinhold@unh.edu) )
- Supervisor: Andrew Hanneman (e-mail: [andy@andrewjshanneman.net](mailto:andy@andrewjshanneman.net))

### **Honors and Achievements:**

- SNHU collegiate cross country
  - 1<sup>st</sup> for the team at the 2013 NE-10 Conference Championships.
- University Honors
  - University Scholar
- High School Cross Country - Varsity
- 4000 Footers Club
  - Established by the Appalachian Mountain Club.
  - Climbing all 48 mountains in New Hampshire over 4000 feet.
  - Membership since 2002.

### **Additional Information:**

International travel experience

- Cambodia, Thailand, Malaysia, Egypt, Turkey, Colombia, Chile

Languages

- English (native)
- Swedish (native)
- German (2 years – high school)

Avid runner and hiker

- Hiking video logs:
  - Cascade Range: [https://www.youtube.com/watch?v=1azrKpfDakU&list=PLP-9ES-EbV1nOaLIPs--eCoJy\\_N0wyCq5](https://www.youtube.com/watch?v=1azrKpfDakU&list=PLP-9ES-EbV1nOaLIPs--eCoJy_N0wyCq5)
  - Colorado Rockies: [https://www.youtube.com/watch?v=7dMmlclwWvY&list=PLP-9ES-EbV1m6iDF2CRjW\\_yZc1pZhDmn](https://www.youtube.com/watch?v=7dMmlclwWvY&list=PLP-9ES-EbV1m6iDF2CRjW_yZc1pZhDmn)
  - Sierra Nevada Range: [https://www.youtube.com/watch?v=BkFrQw4yO70&list=PLP-9ES-EbV1mn4CBuaJjliqG\\_nkD\\_BKHN](https://www.youtube.com/watch?v=BkFrQw4yO70&list=PLP-9ES-EbV1mn4CBuaJjliqG_nkD_BKHN)