



Matthew Reinhold

Ph.D. Student in Geological Sciences, admitted Autumn 2019

 Curriculum Vitae available Online

Bio

BIO

Born in Sweden, but raised primarily in New Hampshire, where I attended high school and college. In 2011, I graduated from the University of New Hampshire with a B.S. in Physics - Astronomy, then found myself working as a laboratory technician in a glycomics facility. A career shift then occurred, as I was offered admission into Southern New Hampshire University, where I pursued a Masters in Education. During the following two years, I was a teacher in Washington (high school), Colorado (middle school math) and for two months, Cambodia (English).

Now it was time to shift back to the sciences! In 2017 I was accepted to Penn State University to pursue a Masters in Geoscience, studying the thermal history of tectonics by using noble gases in the mantle as tracers. In 2019, my time at Penn State came to an end, and my time at Stanford began, where I am currently investigating the consequences of tidal heating on the habitability of exoplanets.

EDUCATION AND CERTIFICATIONS

- MSc, Pennsylvania State University , Geosciences (2019)
- MEd, Southern New Hampshire University , Education (2014)
- BS, University of New Hampshire , Physics and Astrophysics (2011)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- 5th grade science teaching (June 2018 - June 2019)
- English teaching in Cambodia (July 2016 - September 2016)
- AmeriCorps - Academic Aide (September 2014 - July 2015)

PERSONAL INTERESTS

I am very fond of the outdoors and the natural world as a whole. I am an avid runner, rock climber, hiker and aspiring mountaineer. On an unrelated note, I am also a lover of science fiction (movies, TV shows and books), and fantasy (movies, TV shows and table top role playing games).

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Planetary habitability, specifically looking into the effects of tidal heating as both a source of energy to maintain habitable climates, and as a means of keeping small, terrestrial worlds warm, and thus geologically active for long periods of time. In addition, I am interested in the physical, geological and chemical processes on exotic worlds, like Saturn's moon Titan. How do the climates of such worlds evolve, and what kinds of geologic features would they produce on the landscape?

Teaching

COURSES

2021-22

- Introduction to Geology: EARTHSYS 11, GEOLSCI 1 (Spr)