

Justin Morris

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Education

M.S. in Geology, Temple University. August 2020

Committee Members: Dr. Steven Chemtob (Advisor)

Dr. Alexandra Krull-Davatzes

Dr. Bojeong Kim

B.S. in Earth Science, Oregon State University (OSU). July 2016

Undergraduate Research Fellow

Research Experience

Master's Research Thesis (Dr. Steven Chemtob), Temple University, Aug. 2018 – Current

Title: Effects of Microtextural Interactions of Organics and Silica on Silica Diagenesis

- Developed scientific procedures for performing scientific experiments
- Collaborated with colleagues to refine and improve techniques to ensure accuracy
- Processed mineralogical data from analytical techniques
- Analyzed phase shift of minerals using Fourier transform-infrared spectrometry
- Mineralogical characterization using Bruker D8 Cu K α X-Ray Diffractometer
- National Synchrotron Light Source II experience

Senior Thesis (Dr. Jessica Creveling), OSU, Jan. 2016 – July 2016

Title: Carbon Isotope Chemostratigraphic Correlation of the Noonday Formation

- Characterized the Winter's Pass section of the Noonday Formation in Death Valley, California using a Jacob Staff and lithological observations
- Processed Noonday Formation carbonate rocks to determine stable carbon isotope values with using a Delta-V ISRM Mass Spectrometer
- Reconstructed stratigraphic column using Adobe Illustrator
- Analyzed stable carbon isotope data from various section of the Noonday Formation to determine correlations between basin and platform sections
- Present results in front of peers and faculty at G&G day May 2016

Research Assistant (Dr. Adam Kent), OSU, Dec. 2015- June 2016

- Outlined plagioclase crystals in a volcanic ash thin sections using Adobe Illustrator
- Determined overall crystal count in thin section through Image J numerical processing
- Calculated crystal size distribution was employed to determine the magnitude of magma chamber mixing in Mt. Saint Helens.

**Undergraduate Lab Aid, W.M. Keck Collaboratory for Plasma Spectrometry
OSU, Supervisor Dr. Brian Haley, Oct. 2011 – Oct. 2014**

Founded 1992, operates four types of plasma spectrometers: Quadrupole ICP-MS, High-Resolution ICP-MS, Multi-Collector ICP-MS, and Optical Emission ICP.

- Initiated lab procedural use of silver columns, where silver isotopes were separated from sea water samples through column chemistry
- Aided in the separation of various isotopes through other column chemistry methods
- Tuned and operated the Nu Plasma Multi-Collector ICP-MS to determine isotopic abundance in various sea water samples
- Fostered the upkeep of a class 100 clean room
- Cleaned lab equipment with chemical cleaning agents and procedures

Related Experience

Freelance Language Editor

Sep. 2021- Current

- Edited the language of over 500 papers for the American Journal Experts
- Maintained the voice of the writer while correcting for sentence flow
- Documents edited ranged from dissertations to publications across a wide range of fields

Adjunct Instructor

Temple University, Pennsylvania

Sep. 2020- Current

- Instructor of record for a freshman level course
- Designed coursework to assess the abilities of students
- Facilitated the education of all students using different teaching techniques in an online platform
- Constructed online based curriculum to enable students to learn at their own pace

Teaching Assistant

Temple University, Pennsylvania

Aug. 2018- May 2019

- Planned and implemented Igneous and Metamorphic Petrology labs
- Designed assessments to gauge overall learning of the students
- Facilitated the education of all students using different teaching techniques
- Assessed performance of students to highlight areas of improvement

Health Teacher (K-12)

Houck Middle School, Oregon

Oct. 2016 – June 2018

- Lead students in the discussion and learning of Health-related topics
- Implemented various teaching methods to stimulate different learning styles
- Managed behaviors of individual students as well as overall classroom management
- Constructed and implemented lesson plans
- Complimented the teaching of student teacher candidates

Presentation Experience

M.S. Thesis Defense, Summer 2020

Title: Effects of Microtextural interactions of Organics and Silica on Silica Diagenesis

M.S. Thesis Progress Report, Fall 2019

Title: Micro-interactions of Opal and Organics: A Tale of Two Phases

M.S. Thesis Proposal Defense, Spring 2019

Title: Mapping Microtextural Interactions of Organics on the Diagenesis of Opal-A to Opal-CT

Senior Research Thesis Defense, Spring 2016

Title: Carbon Isotope Chemostratigraphic Correlation of the Noonday Formation