**First and Last Name**



Address

Phone | Email Address

Senior undergraduate Geology (B.S.) student at the State University of New York at New Paltz graduating in Spring 2019. Highly-motivated Research Assistant with a year and a half of laboratory experience with skills in Scanning Electron Microscopy (SEM), Energy-dispersive X-ray Spectroscopy (EDS), and Electron Backscatter Diffraction (EBSD). Currently seeking admission into the American Museum of Natural History Richard Gilder Graduate Student Fellowship Program (Ph.D.) in Earth and Planetary Science in collaboration with The Graduate Center of the City University of New York or Columbia University.

**Education**

***State University of New York at New Paltz***

**Bachelor of Science in Geology with Honors Designation** Expected Spring 2019

* **Coursework:** Mineralogy & Crystallography, Petrology, Economic Geology, Structural Geology, Field Geology, Stratigraphy and Sedimentation, Paleontology, Historical Geology, Hydrogeology, Research in Geology, Calculus 1 & 2, Ordinary Differential Equations, Introduction to Statistics, Chemistry 1 & 2, Physics 1 & 2 (Calculus Based), Data Visualization (Graphic Design)
* **New Paltz Honors Program** 
  + Enrolled as a first year student
  + Completed Honors Seminars, Community Service, Thesis Independent Study
  + Completion of Senior Thesis on pyroxenites from Beni Bousera in Northern Morocco
* **GPA:** 3.54/4.0

**Work Experience**

**Research Assistant | *State University of New York at New Paltz***

May 2017 - Present

* Conduct research with Professor Gordana Garapic on pyroxenites with graphite pseudomorphic after diamond from the Beni Bousera Massif in Northern Morocco; In-situ analysis of samples through Scanning Electron Microscope (SEM) including use of Electron Backscatter Diffraction (EBSD) and Energy Dispersive X-ray Spectroscopy (EDS)
* Prepare samples for imaging, standard fabrication, thin section preparation, lab organization

***State University of New York at New Paltz***

**Teaching Assistant, Petrology** Spring 2018 and 2019

**Teaching Assistant, Mineralogy & Crystallography** Fall 2017 and 2018

**Teaching Assistant, Physical Geology** Fall 2017

* Present during lab sections of 25 to 35 students, office hours held for three hours each week
* Create and image thin sections for lab use

**Geology Department Curatorial Assistant | *State University of New York at New Paltz***

February 2017- Present

* Identify, curate, produce, and organize New Paltz Geology Department collection of thin sections, hand specimens, and lab equipment
* Clean and prepare mineral specimens for display
* Label and organize classrooms and prepared labs

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**Internship Experience**

**Research Intern | *The Institute for Planetary Materials (IPM), Misasa, Tottori, Japan***

July 2018-August 2018

* Participated in the Misasa International Student Internship Program 2018 at the Institute for Planetary Materials (IPM) (MISIP 18)
* Geochemistry Intern at The Pheasant Memorial Laboratory where I conducted in-situ analysis on the alteration history of Carbonaceous Chondrites (Allende and Murchison) through SEM, EPMA, ICP-MS, LA-ICP-MS, and TIMS

**Geologic Collection Intern | *The Harvard Museum of Natural History, Cambridge, MA***

July 2017-August 2017

* Created databases using Mindat for organization of rock specimens by geographic location (specifically South African witwatersrand deposits)
* Used The Museum System (TMS) to digitize original sample labels and records
* Physical organization and preservation of hand specimens at the off-site mass storage warehouse

**Leadership Positions**

**Co-President | *State University of New York at New Paltz Geology Club***

January 2018-Present

* Member-elected position; organize club events, run club meetings, member outreach, school paperwork, and overall well-being of the club

**Co-Founder and Treasurer, New Paltz Student Chapter | *American Institute of Professional Geologists***

January 2017-December 2018

* Member-elected position; organized club funds for conference attendance and field excursion transportation

**Treasurer | *New Paltz Women’s Rugby Football Club***

January 2016-December 2017

* Member-elected position; communicated with New Paltz Student Association and filed paperwork to receive funding and reimbursement for club expenses
* Managed salary payment of coaches, EMTs, and referees, as well as club insurance

**Scrapbook Committee Chair**, **New Paltz Chapter |** ***Circle K International***

September 2016-May 2017

* Executive Board elected position; created club scrapbook for the 2017 club year
* Winner of New York District of Circle K International Outstanding Scrapbook Award 2017

**Professional Memberships**

**Geological Society of America | Student Member** Fall 2015-Present

**American Geophysical Union (AGU) | Student Member** Fall 2018-Present

**American Institute of Professional Geologists (AIPG) | Student Member** Fall 2016-Present

**New Paltz Geology Club | Member** Fall 2015- Spring 2019

**Sigma Gamma Epsilon Theta Beta Chapter | Member** Fall 2016- Spring 2019

**New Paltz Student Chapter, American Institute of Professional Geologists | Member** Fall 2017- Spring 2019

**New Paltz Women’s Rugby Football Club | Member** Fall 2016- Spring 2019

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**Awards and Honors**

**Geology Department, State University of New York at New Paltz**

* Drew R. and Donna T. Goodbread Geology Scholarship 2018
* Milton ‘Sparky’ Garrison Memorial Endowed Scholarship 2018
* Professor Martin “Doc” Rutstein Scholarship 2017
* Milton ‘Sparky’ Garrison Memorial Scholarship 2017
* Sigma Gamma Epsilon Theta Beta Chapter Fall 2016- Spring 2019

**State University of New York at New Paltz**

* Dean’s List Spring 2017, Fall 2017, Spring 2018

**Computer Skills**

* Microsoft Excel, Word, PowerPoint, OneNote
* Adobe Illustration and Photoshop
* Apple Keynote, Pages, Numbers
* Google Docs, Sheets, and Slides
* Orient: Spherical Projection and Orientation Data Analysis Program (Frederick Vollmer)
* AZtec GO and Oxford Software for SEM Operation
* Lispix: Phase Map Creation from EPMA maps
* The Museum System (TMS): Collection Management Software

**Lab Skills**

* SEM Imaging
* SEM Sample Preparation
* Petrographic Microscope
* Thin Section
* Petrographic Analysis and Description
* Decomposition of samples for ICP-MS analysis
* Creation of filaments for TIMS analysis
* Registering samples and spots for analysis using Virtual Stage
* Clean Lab Experience

**Research Interests**

Mineralogy Economic Geology Tectonics

Crystallography Planetary Geology Microscopy

Petrology Geo/Cosmochemistry Data Science

Gemology Structural Geology Mass Collection Curation

Crystal Defects Field Geology Sample Storage and Care

**Personal Interests**

Data Visualization Bird Watching Glass Blowing Astronomy

Graphic Design Rugby Stained Glass Windows Crochet

Mineral Identification Water Skiing Reptiles Playing Instruments

Paleontology Plant Identification Hiking Camping

**Professional References**

Name, Title, Email, Phone