

Meghan Spoth
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Education:

University of Maine

Masters of Science in Earth and Climate Science current

State University of New York at New Paltz

Bachelors of Science in Environmental Geochemical Science, 3.13/4

Minor in Political Science, Graduated Cum Laude with honors May 2016

Experience:

Teaching Assistant at the University of Maine September 2018 - present

Lecture and guide laboratory sections within the Earth and Climate Science Department at the University of Maine in step with lecture section and holding office hour reviews of material

Kingston Advanced Learning Program, Rock On!-Earth Science Instructor January 2017 - current

Plan and teach weekly after school program for local elementary students focusing on Earth Science topics with hands-on projects through the KALP program

Kingston Parks and Recreation Dept.-Environmental Educator Aid April 2017 - August 2017

Planned and taught elementary through middle school aged field trips and summer long programs based on boating and swimming safety along with local ecology and geology

Americorps-Invasive Species Monitor Intern at Saguaro National Park June - November 2016

Performed GIS monitoring and mapping management of wilderness spray plots through the identification and removal of invasive grasses using chemical and manual methods; led and organized community volunteer events within the park

Student Research Project at SUNY New Paltz 2015-2016

Led campus research on passive solar energy building materials within the Engineering Department; conducted the research and presentation of the results for the trombe wall project

New York Public Interest Group (NYPIRG)- Board Member 2012- 2015 **Executive Member** 2015

Organized media events, participated in budgetary hearings and press conferences, lobbied on NYPIRG's environmental platform, and canvassed neighborhoods on environmental topics

Sojourner Truth Library- Librarian Assistant 2013-2016

Trained students on the organization and tools of the campus library, organized library collection, and gathered relevant print and digital resource materials for staff and students

Certifications:

Wilderness First Aid 6/2019 (Rincon Field Institute)

Advanced first aid training for wilderness medical emergencies and EMT patient hand off

Herbicide Handler Verified (EPA and NASDARF)

Experience with Glyphosate and surfactant mixing, transporting and application

CPR Certified 6/2019 (NSC)

Completed adult CPR and AED administration training

Field and Lab Experience:

Atomic Emission Spectrometry (AES), Atomic-Force Microscopy (AFM), Backcountry navigation, Biology Census Surveys, Direct Exposure Probe for Mass Spectrometry (DEP-MS), Ecological Vegetation Survey, Flame Atomic Absorption Spectroscopy (FAAS), Fourier Transform Infrared Spectroscopy (FTIR), Gas Chromatography Mass Spectrometry (GC-MS), Garmin GPS Navigation, High Performance Liquid Chromatography (HPLC), Petrographic microscope, Piezometer set-up, Russian Peat Borer, Trimble(ArcPad), Vibracore for sediment cores, X-ray fluorescence (XRF)

Relevant Education Courses

Analytical/Instrumental Chemistry, Climate Change Science to Politics and Policy, Ecology, Environmental and Constitutional Law, Environmental Geochemistry, Geomorphology, Environmental Impact Assessment, Field Biology, Geographic Instrument Systems-GIS (ESRI), Geomorphology, Hydrogeology, Mineralogy and Crystallography, Natural Resource and Energy, Organic Chemistry, Paleoclimate, Statistics

Leadership Positions:

SUNY Student Association, *University College Representative* 2015-2016

SUNY New Paltz Student Senate, *Senator* 2013-2016

Oxfam America @ SUNY New Paltz, *Treasurer* 2012-2015

Kingston High School Varsity Crew, *Captain* 2012

Hobbies/ Skills

Hiking/ Getting Outside

Working to complete the 3500 Catskill Mountain Club with local hikes while spending longer trips backpacking in the Adirondack Region and the White Mountains; hiked in over 20 National Parks/ Monuments and preparing for a rim to rim hike of the Grand Canyon; skiing, kayaking, crew, swimming

Building/ Crafting

Currently finishing building my “tiny house” at 160ft² after inspiration from my work on passively heated trombe walls; knitting and needle pointing

Cooking/ Food

Working with Josh Applestone’s *Applestone Meat Company* start-up to increase availability and affordability of sustainably raised meat products; very passionate about tasty, well sourced food options