Name



Address | Phone | Email

**Education**

State University of New York at New Paltz

**Bachelor of Science in Environmental Geochemical Science** Expected August 2017

Dean’s List Fall 2013-Fall 2014 and Spring 2016

**Coursework:** Analytical Chemistry, Geomorphology, Water Resource Management, Hydrology, GIS Application,

Organic Chemistry, Instrumental Chemistry, and Natural Resources Management.

**Technical Skills**

Remote Sensing | FAAS | DEP-MS | Water Quality | Electrochemistry | FTIR | GC-MS | AFM | Geomorphology | GPS

ArcGIS | FAAS | UV/Fluorescence | AES | Spectrophotometers | MAT-LAB | Geology | Probes (water quality properties)

## **Internship Experience**

**GIS/GPS Technician and Intern,** *Caroline County Planning & Codes*, New Paltz, New York | Seasonal June 2014-Present

* Hired based on completion of work as an Intern
* Collected GPS points of Parks and Recreation Facilities throughout county; evaluated and rated their conditions
* Entered and mapped points on computer using ArcPad, ArcView, and ArcMap
* Collected GPS points of new structures in County for E-911 system
* Mapped Critical Area for West County and converted paper maps to digital maps using ArcView

## **Research Experience**

**Senior Research Project,** *SUNY New Paltz* **|** December 2017 – May 2018

* Analyzed the limits of the antibacterial properties of dragonfly wings
* Produced images of dragonfly wings using Atomic Force Microscope (AFM)
* Collected data through colony counting and fluorescence stain microscope imaging
* Modified basic research practices to limit variables based on results
* Presented images and data at symposium and senior seminar

**SURE Researcher**, *SUNY New Paltz* | May 2017 - August 2017

* Conducted a hydrogeologic research project with my academic mentor; studied how water has a direct effect on major slope failure.
* Used common methods to study the rapidly changing slope of the land and the hydraulic conductivity
* Created a visual flow model of warner creek using the data collected; warner creek is a tibituary of esopus creek located in Phoenicia, New York.

**Undergraduate Lab and Field**, *SUNY New Paltz* | August 2017 – May 2017

* Quantitative Analysis of solutions through chromatography and spectrometry
* Acquired stream discharge and piezometric head data at streams and well sites
* Obtained core samples of pond and bog soil via Russian-bore and Vibra-core
* Compared inorganic contents of lake and pond sediment through Loss on Ignition
* Generated map from GPS data for pond water quality study using ArcGIS
* Reported lab data using Excel and technical writing

**Supporting Experience**

**Student Assistant**, *Center for Student Success*, SUNY New Paltz | September 2016-May 2018

**Campus Involvement**

**Member**, *Geographic Society,* SUNY New Paltz | September 2016-May 2018

**Environmental Geochemical Science**