Jillian R. Cavellier

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# Education

August 2022 - Present

**University of Kentucky, Lexington, KY**

*Candidate for a Master of Science in Geological Science*

## State University of New York (SUNY) at Oswego August 2020

*Bachelor of Science in Geology with a minor in Mathematics*

*Institution GPA: 3.56*

## Jefferson Community College, Watertown, NY May 2018

*Associates in Mathematics and Science, Concentration: Science*

*Institution GPA: 3.68*

# Appointments

## Teacher’s Assistant – Earth’s Fury – GEO 315 March 2020

*Upper division course of geologic hazards for majors and non-majors*

**Adjunct Professor — Mathematics** August 2021-May 2022

*Introductory mathematics course*

**Senior Laboratory Technician — Cementous Materials — CAER** July 2022

*Cement and concrete research*

**Graduate Research Assistant — Cementous Materials —CAER** August 2022 - Present

 *Project Objective: Blast-Heating Effects on the Mineralogy of the Interstitial Transition Zone*

 *in Calcium Sulfoaluminate Cement Applications*

# Field Research Experience

## 2020 – Jefferson County, New York

*Project Objective: Fracture analysis of the Black River and Trenton Groups*

# Analytical Skills

* Proficient in Microsoft Office
* C ++ Programming Language
* Operation of ArcGIS software
* Operation of Adobe Photoshop and Illustrator
* Operation of Surfer and Canvas

# Field Skills

## Data collection and analysis of geophysical methods:

* + Electrical Resistivity Tomography (ERT)
	+ Electromagnetic induction (EM)
	+ Magnetics (Magnetometer)
	+ Ground Penetrating Radar (GPR)
	+ Spontaneous Potential (SP)

# Related Course Work

* Structural Geology
* Physical Geology
* Historical Geology
* Igneous and Metamorphic Petrology
* Sedimentology and Stratigraphy
* Hydrogeology
* Volcanology
* Exploration Geology
* Mineralogy
* Geographic Information Systems (GIS)
* Field Geology
* General Chemistry I and II
* Construction of geologic maps and cross sections
* Geological technical reports
* Production of Petrographic thin sections
* Polarized light microscopy and reflected light microscopy
* General Physics I
* Science and Engineering Physics I (Calculus Based)
* General University Physics II (Calculus Based)
* Principles of Biology I and II
* Calculus I, II and III
* Statistics
* Ordinary Differential Equations
* Matrix Algebra
* Engineering Mathematics
* Mathematical Modeling

# Honors, Service and Awards

**Outstanding Geology Graduate of 2020** May 2020

*State University of New York at Oswego, New York*

**Gary Forstoff Field Award 2020** May 2020

*Department of Atmospheric and Geologic Sciences, SUNY Oswego*

## Secretary of Geology Club (Fall 2019 – Spring 2020)

*Department of Atmospheric and Geologic Sciences, SUNY Oswego*

 **Pioneer Graduate Excellence** August 2022

*Department of Earth and Environmental Sciences, University of Kentucky*

 **Boone Fellowship** August 2022

*Department of Earth and Environmental Sciences, University of Kentucky*