

# JILLIAN ROSE CAVELLIER

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## EDUCATION

<b>Master of Science, Geological Sciences</b> <i>University of Kentucky, Lexington, KY</i>	Expected Graduation August 2024
<b>Bachelor of Science, Geology, Minor in Mathematics</b> <i>State University of New York (SUNY) at Oswego, Oswego, NY</i> Institution GPA: 3.56	August 2020
<b>Associates of Mathematics and Science, Science Concentration</b> <i>Jefferson Community College, Watertown, NY</i> Institution GPA: 3.68	May 2018

## APPOINTMENTS

<b>Graduate Research Assistant – Cementitious Materials</b> <i>Project Objective: Blast-Heating Effects on the Mineralogy of the Interstitial Transition Zone in Calcium Sulfoaluminate Cement Applications</i>	August 2022 - Present
<b>Laboratory Technician</b> <i>University of Kentucky's Center for Applied Energy Research</i> Assisted with various experimental procedures	July 2022
<b>Adjunct Professor of Mathematics</b> <i>Jefferson Community College</i> Instructed a mathematics course to freshman and sophomore college students	August 2021 – May 2022
<b>Teaching Assistant</b> <i>Assisted with instruction and grading of an upper division course of geologic hazards for majors and non-majors</i>	January 2020 – March 2020

## AWARDS, HONORS AND SERVICE

<b>Boone Fellowship – August 2022</b> <i>Department of Earth and Environmental Sciences, University of Kentucky</i>
<b>Pioneer Graduate Excellence Scholarship – August 2022</b> <i>Department of Earth and Environmental Sciences, University of Kentucky</i>
<b>Outstanding Geology Graduate of 2020 – May 2020</b> <i>Department of Atmospheric and Geologic Sciences, State University of New York at Oswego</i>
<b>Gary Fortoff Field Award – May 2020</b> <i>Department of Atmospheric and Geologic Sciences, State University of New York at Oswego</i>
<b>Secretary of Geology Club – Fall 2019 - Spring 2020</b>

## ANALYTICAL SKILLS

- Operation of a Scanning Electron Microprobe (SEM)
- Proficient in Microsoft Office 365
- MATLAB and C++ programming languages
- Operation of ArcGIS Software
- Operation of Adobe Photoshop and Illustrator
- Operation of Surfer and Canvas programs
- Production of petrographic thin sections
- Polarized light and reflected light microscopy
- Construction of geologic maps and cross sections
- Writing of geological technical reports
- Website design

## **FIELD RESEARCH EXPERIENCE**

### **Undergraduate Research**

*Analyzed fracture systems of the Black River and Trenton Groups  
in Jefferson County, NY*

April 2020 – August 2020

## **FIELD SKILLS**

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

## **RELATED COURSEWORK**

- Graduate Scientific Communications
- Graduate Tectonics
- Structural Geology
- Igneous and Metamorphic Petrology
- Sedimentology and Stratigraphy
- Hydrogeology
- Volcanology
- Exploration Geology
- Mineralogy
- Geographic Information Systems (GIS)
- Field Geology
- Historical Geology
- Physical Geology
- Calculus I
- Calculus II
- Calculus III
- Calculus Based Statistics
- Ordinary Differential Equations
- Matrix Algebra
- Engineering Mathematics
- Mathematical Modelling
- General Physics I
- Science and Engineering Physics I (Calculus Based)
- General University Physics II (Calculus Based)
- General Chemistry I and II
- Principles of Biology I and II