

EULLE STANN S. CASAQUITE

Skokie, IL 60077

✉ eullecasaquite@gmail.com

☎ 224-415-6989

EDUCATION

Graduation: May 2025

Augustana College Rock Island, IL

GPA: 3.74

Bachelor of Arts in Geology, Geography, Minor in GIS and Technology

Dean's List (6 Terms)

Coursework: Digital Cartography and Design, Advanced GIS, Drone Mapping & GIS, GIS for Natural Sciences, Natural Resource Management, Geomorphology and Paleoclimatology, Hydrogeology, Structural Geology and Tectonics, Geography of World Regions, Computer Science: Python, Mineralogy, General Chemistry, Pre-Calculus

SENIOR THESIS RESEARCH EXPERIENCE

Collaborator for the Philippine National Volcanic Threat Assessment Project (2025)

- Philippine Institute of Volcanology and Seismology, Quezon City, Philippines (10 hrs./week)
(July 2024 – Current)

SENIOR THESIS: IMPROVING THE EXPOSURE CALCULATION FOR THE VPI30 COMPONENT OF THE PHILIPPINE NATIONAL VOLCANIC THREAT ASSESSMENT USING SENTINEL-2 IMAGERY DATA AND GIS EXTRACTION METHODS

- Completed analysis to place large population dataset to its respective study areas
- Extracted built area pixels from Sentinel -2 imagery data
- Compared current exposure calculation vs my improved exposure calculation to identify differences in quality
- Results will be verified by the Philippine Institute of Volcanology and Seismology to be part of the Philippine National Volcanic Threat Assessment report
- Will be presented at the Geological Society of America 2025 Joint North East – North Central Section Meeting, Eerie, PA

RESEARCH EXPERIENCE

Cartographic Assistant | Augustana College, Rock Island, IL

Dec 2024 - Current

- Georeferenced pdf maps to be used in ArcGIS Pro
- Created and organized paleogeography shapefiles as a client deliverable

Philippine Institute of Volcanology and Seismology | Quezon City, Philippines

Jun 2024 - Jul 2024

- Created maps related to Mt. Tumatangas volcanic deposits
- Generated GIS layers for possible lahar extent of a Mt. Tumatangas eruption
- Conducted fieldwork in various outcrops in the western municipalities of Mt. Taal
- Completed remotely piloted aircraft training
- Prepared samples for XRF analysis

Upper Mississippi Center | Augustana College, Rock Island, IL

Jul 2022 - May 2024

- Completed field and lab work to isolate, detect and quantify microplastics in water and sediment samples
- Deployed multi-parameter probes to assess water quality of watersheds and streams in Rock Island (IL) and Scott County (IA) watersheds
- Collected fish and microorganism samples in streams to assess biodiversity health of streams
- Generated GIS maps for the city of Rock Island
- Used large dataset of field survey results to isolate and identify possible lead service lines the city of Rock Island
- Canvassed houses to identify service line materials for the city of Rock Island

PRESENTATIONS

TOPOGRAPHIC INTERPRETATION OF TUMATANGAS VOLCANO, SULU, PHILIPPINES (2024)

- Presented and proposed to the volcano section of the Geology and Geophysics Research and Development Division at the Philippine Institute of Volcanology and Seismology, Quezon City, Philippines

UBIQUITOUS MICROPLASTICS IN FLUVIAL SEDIMENTS OF URBAN STREAM SYSTEMS IN DAVENPORT AND BETTENDORF, IOWA (2024)

- Presented at the Geological Society of America North Central/South Central Meeting and the Augustana College Celebration of Learning, Springfield, MO

STREAM ASSESSMENT OF MICROPLASTICS IN QUAD CITY WATERSHEDS (2023)

- Presented at the Upper Mississippi River Research Consortium, La Crosse, WI
-

FIELD COURSES AND EXPERIENCES

- **Taal Volcano, Philippines (July 2024)** - 1 week fieldwork experience to identify and understand volcanic processes through main crater tephra and tuff deposits across various outcrops/conducted house-to-house survey to assess damages of volcanically induced fissures
 - **Collinson Ecological Preserve, IL (April 2023)** - Geomorphology and surficial geology mapping, focused on interpreting glacial geology in the Midwest.
 - **Mojave Desert/Death Valley, CA (January 2023)** - 3-week field mapping course, which included measuring stratigraphic sections, mapping faults, and creating a geological map of rock units in the Rainbow Basin syncline near Barstow, CA.
 - **Baraboo, WI (November 2022)** - Attended a weekend field trip to Baraboo WI, to study a syncline and analyze geological structures using a Brunton Compass and stereonet.
 - **South Dakota/Wyoming (August 2021)** - summer field course of intro-level geologic concepts in the Badlands, Devil's Tower, Bighorn Mountains, and Wind River Canyon, with a focus on rock identification and pressure/temperature concepts.
-

TECHNICAL SKILLS

- ArcGIS Pro - Data Engineering, Georeferencing, Charts and Reports, StoryMaps, Survey123, Cluster Analysis, Regression Analysis, Data Interpolation
 - Adobe Illustrator - ArcGIS Maps for Adobe Creative Cloud, Subsurface Maps, Thematic Maps
 - Remote Sensing - Remotely piloted aircraft training, PIX4D Mapper, Image Classification, Change Analysis
 - Microsoft Products - Word, Excel, PowerPoint
 - Language - Fluent in Filipino and Bisaya
-

HONORS & AWARDS

Deans Scholarship Augustana College

- Awarded to students with an excellent academic record amounting to \$26,000 annually

IINSPIRE-LSAMP Grant National Science Foundation

- Received NSF-funded grant for a research project amounting to \$3500

Lucken Geology Scholarship Augustana College

- Awarded to geology students based on academic merit and financial need amounting to \$2000 annually
-

CAMPUS INVOLVEMENT

- Udden Geology Club
- Asian Student Organization (former social media chair)