

GOURO KOITA

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EDUCATION

University of Houston

Houston, TX

Doctor of Philosophy (Ph.D.) Student in Geology

August 2026 – Present

Research Focus: Rare Earth Elements, Critical Mineral Systems, and Geospatial Analysis

Eastern Michigan University

Ypsilanti, MI

Bachelor of Science in Professional Geology & Geospatial Information Science and Technology

Geology Concentration: Geology

GIS Concentration: Information Assurance & Security

January 2022 – May 2026

Research Focus: Metamorphic Petrology, Tectonics, and Geospatial Analysis

South Dakota School of Mines & Technology

French Alps, France

Geological & Earth Sciences/Geosciences – Non-Degree Seeking

May 2025 – August 2025

FIELD & TECHNICAL SKILLS

Geology & Field Methods: Geologic mapping, cross-section construction and interpretation, petrographic analysis, core logging, sediment and soil analysis, groundwater sampling techniques.

GIS & Remote Sensing: ArcGIS Pro, ENVI, ArcGIS Story Maps, ArcGIS Enterprise, GMDE, Survey123, QGIS, ERDAS IMAGINE.

Programming & Data Management: Python, RStudio, IBM SPSS, Microsoft SQL Server, Microsoft Office.

RELEVANT COURSEWORK

Structural Geology | Mineralogy | Tectonics | Igneous & Metamorphic Petrology | Hydrogeology | Geomorphology | Geophysics | Sedimentology & Stratigraphy | Field Geology | Critical Minerals | Remote Sensing | Environmental Geochemistry | GIS Customization and Programming | Geodatabases and GIS Client Applications

PROFESSIONAL EXPERIENCE

University of Houston

Houston, TX

Graduate Teaching Assistant

August 2026 – Present

- Facilitate undergraduate Physical Geology laboratory activities, supporting students in applying fundamental concepts through hands-on exercises and demonstrations.
- Foster an inclusive and engaging laboratory environment that encourages student participation, critical thinking, and application of geologic principles.

RELEVANT PROJECTS

"Analysis of Dutchess County, New York's Classic Metamorphic Barrovian Sequence"

Undergraduate Research Student | Eastern Michigan University | August 2024 – May 2026

- Awarded a \$2,200 EMU Undergraduate Research Stimulus Program Scholarship for research on Taconic orogeny metamorphic rocks under faculty supervision.
- Applied petrographic analysis of zircon, monazite, rutile, and titanite with GIS-based spatial analysis (GMDE, QGIS, RStudio) to reconstruct metamorphic P–T–t evolution and regional tectonic history.

"Integrating GIS and Well Data to Model Groundwater Flow Systems"

Undergraduate Research Student | Eastern Michigan University | October 2025 – December 2025

- Developed a GIS-based laboratory exercise for Advanced Hydrogeology, integrating topographic, hydrologic, and groundwater data from 41 wells using ArcGIS Pro and Microsoft Excel.
- Generated water-table surfaces, equipotential contours, and groundwater flow maps to support analysis of subsurface flow patterns and surface-groundwater relationships.

CONFERENCE PRESENTATIONS

“Revisiting Ninety-Year-Old Structural Data from the Barrovian Sequence of Dutchess County, New York”

GSA Connects 2026 — *Poster Presenter* | *Denver, Colorado, USA* | October 11—14, 2026

“Analysis of Dutchess County, New York’s Classic Metamorphic Barrovian Sequence”

61st Geological Society of America (GSA) Northeastern Section Meeting — *Poster Presenter* | *Hartford, Connecticut, USA* | March 2026

“Analysis of Dutchess County, New York’s Classic Metamorphic Barrovian Sequence”

Eastern Michigan University 46th Annual Undergraduate Research Symposium — *Poster Presenter* | March 2026

“Analysis of Dutchess County, New York’s Classic Metamorphic Barrovian Sequence”

Eastern Michigan University 45th Annual Undergraduate Research Symposium — *Poster Presenter* | March 2025

AWARDS & HONORS

University of Houston Graduate Tuition Fellowship (GTF)	August 2026 — Present
Certificate of Achievement; EMU Department of Geography and Geology	May 2026
Certificate of Achievement; EMU Department of Geography and Geology	May 2026
GSA Student Volunteer Service Recognition	March 2026
Geological Society of America Northeastern Section Meeting Travel Grant (\$200)	March 2026
Certificate of Achievement; EMU Department of Geography and Geology	April 2025
EMU Undergraduate Research Stimulus Program (\$2,200)	January 2025
EMU Housing Departmental Scholarship (\$2,900 for 4 semesters)	July 2024 – April 2026
EMU 4WARD Graduation Scholarship (\$29,000 for 4 semesters)	January 2024 – December 2025

LANGUAGES

Fluent in English, French, Bambara and German (written and spoken).

PROFESSIONAL AFFILIATIONS

- American Association of Petroleum Geologists (AAPG)
- American Institute of Professional Geologists (AIPG)
- Geological Society of America (GSA)