

# Wisdom Akanmisikum

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## Education

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**Auburn University, Alabama** (*August 2025- Present*)

PhD in Earth System Science

**Georgia State University, Atlanta, GA** (*July 2023- July 2025*)

Master of Science in Geosciences, Geology Concentration with a Certificate in GIS

Cumulative GPA: 3.86/4.0

**Kwame Nkrumah University of Science and Technology, Kumasi, Ghana** (*September 2017-September 2021*)

Bachelor of Science, Geological Engineering

Cumulative GPA: 3.71/4.0 (First Class)

## Professional Experience

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**Auburn University, Alabama** (*August 2025- Present*)

Graduate Research and Teaching Assistant

- Teaching Dynamic Earth lab

**Georgia State University, Atlanta, GA** (*July 2023 – July 2025*)

Community Soil Air Water (CSAW) Research Fellow

- Sample sediment and water samples from the South River to determine the concentration of eight heavy metals (Cr, Ni, Cu, As, Cd, Zn, Sb, and Pb)
- Digest sediment samples using a microwave digestion system to prepare for heavy metal analysis using Inductively Coupled Plasma Mass Spectrometry (ICP-MS))
- Collaborated with community-based organizations (Eco-Action and West Atlanta Watershed Alliance (WAWA)) to provide data supporting environmental remediation and health efforts in East Point, Atlanta.
- Community Engagement to discuss findings with community members and work with them in addressing the contamination of the South River

**Kwame Nkrumah University of Science and Technology, Obuasi, Ghana** (*November 2021 – November 2022*)

Teaching Assistant

- Organized classroom displays for lecturers, which significantly improved visual learning and student engagement, leading to increased participation
- Graded tests and assignments for undergraduate students, providing timely and constructive feedback that contributed to a higher average grade of 70% in Geophysics
- Provided tutorial sessions to approximately 80 undergraduate students, offering additional academic support and guidance

**Bali GeoConsult Kumasi, Ghana** (*September 2020 - November 2020*)

Intern

- Supervised borehole drilling operations, including design and construction, ensuring compliance with industry standards
- Conducted geophysical exploration survey using the Electrical Resistivity method to identify optimal locations for borehole drilling
- Performed aquifer pumping tests and supported data analysis to assess water yield and quality
- Analyzed pumping test results and geophysical data to inform decision-making in groundwater exploration

## **Department of Feeder Road Kumasi, Ghana** *(June 2019 - August 2019)*

### Intern

- Performed sieve analysis for various soil samples, contributing to the assessment of soil quality and suitability for road construction projects
- Conducted site visits to assess road conditions, measure chainage, and document findings to provide essential data for current and future road infrastructure projects.

## **Skills**

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### Technical Skills:

#### Hydrology Field Experience

- Stream flow measurement: Experience in using Acoustic Doppler Velocimetry (ADV) and solute-dilution techniques for accurate stream discharge measurement.
- Soil hydraulic conductivity assessment: Skillful in measuring soil hydraulic conductivity using double-ring and Philip-Dunne infiltrometers for accurate evaluations of soil permeability and water movement.
- Aquifer Parameter Assessment: Proficient in performing slug and pumping tests to determine hydraulic conductivity and transmissivity.
- Automated Water Quality Monitoring: Competent in utilizing YSI Multi-Sonde and ISCO samplers for continuous water quality monitoring

Software Skills: Proficient in AQTESOLV, ArcGIS, Surfer, SPSS, RStudio, MS Word, PowerPoint, and Excel.

Soft Skills: Independent worker who also excels in teamwork, highly organized, with a strong work ethic and a strong desire to learn and improve

## **Academic Conferences Attended**

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- Georgia Brownfield Seminar Virtual Participation *(April 9th, 2024)*
- Annual Southeastern Biogeochemistry Symposium at Georgia State University *(April 13th – April 14th, 2024)*  
Presented a Poster on Assessing Surface Water-Groundwater Connectivity at the Contaminated Tift Site and its Implications on Downstream Water Quality in Eastpoint, Georgia Atlanta
- Environmental Justice & Climate Protection Conference, Savannah Georgia *(June 13th – June 14th, 2024)*  
Unposter presentation on Tift Site: History, Sampling, and Remediation Efforts
- 43rd Annual Technical Conference of the National Association of Black Geoscientists (NABG) in Atlanta, GA *(September 4th – 7th, 2024)*  
Presented a Poster on The Spatial Distribution of Heavy Metal Contamination in Sediments of South River Eastpoint, Georgia
- 75th Southeastern Regional Meeting of the American Chemical Society (SERMACS) in Atlanta, GA, *(October 23-26, 2024)*  
Presented a poster on the Assessment of Heavy Metal and Metalloid Contamination in sediments of South River Eastpoint, Georgia
- 79th Southeastern Division of the American Association of Geographers SEDAAG Meeting Greenville, South Carolina *(November 23-25, 2024)*  
Co-presented a paper titled Forward Together Against Hazardous Waste in Atlanta, GA

- American Geophysical Union Conference (AGU) Fall Meeting 2024 in Washington, D.C (*December 9-13*)  
Co-presented a poster titled Forward Together Against Hazardous Waste in Atlanta, GA

## Professional Development/Certifications

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- UG-UBO Hydrogeophysics Field School at the University of Ghana (*November 21st – November 25th, 2022*)  
As a participant in this field School, I gained insights into the application of various surface geophysical methods for data acquisition, processing, and interpretation in hydrogeophysics for groundwater exploration
- H2O for Life Summer School, Department of Chemical Engineering, KNUST, Ghana & Department of Water Technology, SRH University, Germany, sponsored by the German Academic Exchange Service (DAAD) (*March 27th – April 1st, 2023*)  
Participated in a collaborative program focused on the theme “H2O for Life: Tackling Water Pollution in Developing Countries—Emerging Water and Wastewater Treatment Technologies

## Honors & Leadership Activities

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- Edu Foundation Scholarship Recipient (*2017-2021*): Awarded for academic excellence and leadership potential
- Organizing Secretary, Builsa Students Union, KNUST (*2019-2021*): Coordinated events and activities, fostering a sense of community and cultural pride among members

## Organization and Professional Affiliations

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- **Member**, National Association of Black Geoscientists (*July 2024- Present*)
- **Member**, Atlanta Geological Society (*March 2024 - Present*)
- **Member**, Georgia Geospatial Association (*October 2023 – Present*)
- **Member**, Georgia Brownfield Association's Young Professionals Committee (YPC) (*August 2024 – Present*)
- **Member**, American Association of Geographers (*September 2024-Present*)