

CHRISTOPHER AKUKA AKURUGU

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PROFESSIONAL SUMMARY

Focused graduate student seeking to pursue master's degree in Geophysics or related fields and experienced as Teaching Assistant. Highly organized and adept in multitasking, leading classroom discussions and mentoring students. Geophysical survey and lab experience. Proficient in programming and statistical modeling techniques.

EDUCATION

SEPTEMBER, 2017 – SEPTEMBER, 2021

B.SC PHYSICS (Geophysics Option), KWAME NKRUMAH
UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI-GHANA

• Relevant Coursework Completed:

Mathematics for Physics, experimental physics, Solid State Physics, Classical and Statistical mechanics, Quantum Physics, Thermodynamics, C++ programming language, Electrical and Electromagnetic methods, Gravity and Magnetic Methods, Seismic methods, Radiometric & Borehole logging.

EXPERIENCE

OCTOBER, 2021 -CURRENT

TEACHING ASSISTANT, KWAME NKRUMAH UNIVERSITY OF SCIENCE AND
TECHNOLOGY (KNUST).

- Assisting lecturers with classroom management and document coordination to maintain positive learning environment.
- Implemented practice exercises and used repetition, enabling students to grasp new concepts quickly.
- Tutoring struggling students individually and in small groups to reinforce learning concepts.
- Assist students in laboratory experiments and field activities.

September, 2021 – October, 2021

GEOPHYSICAL FIELD WORK, GEOHYDRO CONSULT LIMITED, KNUST

- Volunteered in investigating the depth to bed rock and groundwater potential at Suame-roundabout for construction of a flyover using electrical sounding and Magnetotelluric methods
- Conducted electric resistivity and magnetic survey to determine the extent of pollution at a waste dumpsite as my final year project.
- Operated equipment used to obtain geological data.
- Recorded readings from site equipment and compiled data to determine optimal prospecting locations.
- Gained knowledge in data processing and inversion

JUNE, 2019- AUGUST, 2019

TEACHER INTERN, ZEBILLA SENIOR HIGH TECHNICAL SCHOOL

- Facilitated students' discussions of classroom topics, helping each explore concepts and expand horizons.
- Reviewed students' classroom assignments, homework and tests to evaluate knowledge of subject material and assign grades.
- Helped cultivate learning-focused and welcoming atmosphere for students of cultural and socioeconomic backgrounds.

SKILLS

- Collaborative and Team-Oriented: Acquired through active participation in group discussions, fieldworks and lab experiments.
- Leadership skills: acquired through leadership seminars and taking leadership positions.
- Geophysical software: Surfer, Res2Dinv, ArcGIS.
- Proficient in Microsoft office suit (Excel, PowerPoint, outlook)
- Programming skills: C++ programming language, Python, Machine learning.

AWARDS AND CERTIFICATION

- Certified on Research management (project work/Dissertation management), Time management, Leadership – KNUST, September, 2021
- Awarded MasterCard Foundation Scholarship for my undergraduate studies – KNUST, September, 2017-September, 2021.

Current Projects

- Geophysical investigation of Bosumtwi Impact Crater, A systematic review.
- Investigating the extent of pollution at a Municipal Solid waste Dumpsite in the Kumasi Metropolis, Ghana
- Artificial Intelligence prediction tool for groundwater availability and quality in different geological zones of Ghana

LANGUAGES

- English (Official language)
- Native Language (Kusaal)