

MOHAMMED SANDA

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EDUCATION

PhD in Geography, University of Florida, Fall 2025 -

Master of Philosophy in Geography Education, University of Education Winneba, Ghana, 2020

Bachelor of Arts in Social Science, University of Education Winneba, Ghana, 2017 (Majored in Geography, Minored Political Science)

WORK EXPERIENCE

Assistant Research Officer, Social Security and National Insurance Trust, Ghana, 2021 –

Geospatial Analyst, Systems Solutions and Geospatial Research Service, Ghana, 2018 –

Research Assistant, Nimba Research & Consulting (Ghana) Ltd, 2020

Graduate Research Assistant, Department of Geography, University of Education Winneba, Ghana, 2019-2020

Teaching Assistant, Department of Geography, University of Education Winneba, Ghana, 2017-2018

RESEARCH PROJECTS

Volunteer – Political Accountability Activity – Project organised by USAID in collaboration with YEFL-Ghana and Fulani Youth Association of Ghana, 2023-2024

Led a high-level delegation representing Ghana's Ministry of National Security to Zakoli in the Yendi Municipality to mediate and restore peace following the tragic killing of multiple Fulani individuals in 2022

COVID-19 Mapping and Tracking Team, Ghana Health Service, 2020-2021

Disaster Risk and Emergency Plan Development for Sunyani Municipal Assembly, 2020

Network Analysis for Inner Rail Construction for Kumasi Metropolitan Assembly, ROM Transport, 2019-2020

PUBLICATIONS

Peer-reviewed

- Abbam, G., **Sanda, M.**, Mensah, K., Appiah, S.K., Nkansah, C., Daud, S., Aikins, C. N., ... & Bani, S.B. (2024). Complete blood count reference intervals for children aged less than 1 to 12 years in the Northern Region of Ghana. *BioMed Research International*, 2024(1), 6607281.
- Danso-Wiredu, E.Y., & **Sanda, M.** (2021). Environmental Dynamism: Increasing housing needs in urban Ghana and vegetation sustainability. *Environment, Space, Place* 13(1), 133-156.
- Mensah, B., Darkwa, I. O., Bonful, E. Y., Tuu, M. B., **Sanda, M.**, & Danso-Wiredu, E. Y. (2020). Patterns of Land Use Activities in Ghana's Secondary Cities. *Ghana Journal of Geography*, 12(2), 84-107.

Other publications

- Sanda, M.** (2018). Flood Mapping using Geographic Information System: A case study of Asokore Mampong Municipal. *Researchjournali's Journal of Geography*, 5(7).

TEACHING EXPERIENCE

Teaching Assistant. Department of Geography, University of Education Winneba, Ghana

- *Introduction to Map Work, Cartography and Map Analysis, Geographic Information System, Remote Sensing*

Geography Teacher, Intern. Asesewa Senior High School, Ghana

- *Physical Geography, Practical Geography, Human Geography*

CERTIFICATE COURSES

- Certificate in GIS for Climate Action (ESRI)
- Certificate in Going places with Spatial Analysis (ESRI)
- Certificate in Cartography (ESRI)
- Certificate in Do-It-Yourself Geo Apps (ESRI)
- Certificate in Data Management and Analysis (ISSER)
- Certificate in Research Methodology and Report Writing (ISSER)
- Certificate in Fundamentals of GIS (UC Davis on Coursera)
- Certificate in GIS Data Formats, Design and Quality (UC Davis on Coursera)
- Certificate in Spatial Data Science and Application (Yonsei University on Coursera)
- Certificate in Disaster preparedness (University of Pittsburgh on Coursera)
- Certificate in Smart Cities (EPFL on Coursera)

CONFERENCES

Revitalizing Social Security Systems through innovative survey methods: A case study of SSNIT's transformational journey *Statistical Society of Canada Annual Meeting*, St. John's, Jun 2-5, 2024.

Malaria control monitoring, intervention coverage and health outcome using GIS in Bawku Municipality, *Ghana Geographers Association Annual Meeting*, Cape Coast, Jul 20-21, 2022.

Flooding and its health effects on downstream communities within the Weija catchment, *Ghana Geographers Association Annual Meeting*, Cape Coast, Jul 20-21, 2022.

Environmental Dynamism: Increasing housing needs in Urban Ghana and vegetation sustainability, *Ghana Geographers Association Annual Meeting*, Kumasi, Nov 18-21, 2019.

Flood Mapping using Geographic Information System: A case study of Asokore Mampong Municipality, *Ghana Geographers Association Annual Meeting*, Winneba, Aug 8-11, 2018.

ACADEMIC AWARDS

- Most Hardworking Student (Department of Geography, UEW) 2016/2017
- Most Creative Student (Department of Geography, UEW) 2016/2017

LEADERSHIP SKILLS

- Co-founder, GeoMED Africa, 2018 –
- President & Founder, Fulani Students Association of Ghana, 2017 –
- President & Chapter founder, Youth Mappers UEW Chapter, 2018-2020
- Departmental Organizing team, Geography Students Association, UEW, 2015-2016

PROFESSIONAL AFFILIATIONS

- American Association of Geographers (AAG)
- American Geographical Society (AGS)
- Canadian Association of Geographers (CAG)
- Statistical Society of Canada (SSC)
- Youth Mappers – University of Education Winneba Chapter (Mentor)

COMPUTER SKILLS

- Geographic Information System (ArcGIS, QGIS)
- Remote Sensing (ERDAS Imagine, ENVI)
- Data Visualization (Power BI)
- Programming (Python)
- Statistics (SPSS, STATA)

LANGUAGES

- English, Fulani, Hausa, Twi