Abdul-Karim W. Fuseini

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Education

Stuttgart University of Applied Sciences, Germany	Oct. 2023 – Present

Master of Science in Photogrammetry and Geoinformatics
Relevant Coursework: GIS, R S, Database Systems, GIS Programming, Project Management

Kwame Nkrumah University of Science & Technology, Ghana	Sept. 2016 – Aug. 2020

Bachelor of Arts in Geography & Rural Development
Relevant Coursework: GIS, Remote Sensing, Cartography & Map Design

Skills

Software: ArcGIS Pro, QGIS, MATLAB, FME, ERDAS, ENVI, SNAP, Sparx's Enterprise Architect

Solutions and Tools: ArcGIS Online, ODK, Kobo Collect, QField, ArcPad

Programming Languages: Python, R, JavaScript, HTML & CSS, SQL

Databases: PostgreSQL, SpatiaLite, MySQL

Libraries: GeoPandas, matplotlib, NumPy

Other: Git & GitHub, Microsoft Office Software, Zoom

Languages: English (Bilingual Proficiency), German (Basic, A2)

Experience

Ghana Cocoaborad, Accra, Ghana	Sept. 2021 – March 2023

Assistant Cartographic Officer
- Surveyed and managed location data of over 2000 cocoa farmlands for the development of the Cocoa Management System (CMS).
- Checked & validated the accuracy & precision of surveyed data (on-site and in the office).
- Conducted community entry exercises to engage with farmers on the need to participate in the CMS project.
- Organized and compiled weekly data for district and regional-level integration.

Kwame Nkrumah University of Science & Tech, Kumasi, Ghana	Sept. 2020 – Aug. 2021

Teaching Assistant
- Developed and conducted Statistical and QGIS data analysis tutorials for students.
- Conducted literature reviews detailing findings & summarizing studies.
- Conducted on-site interviews using structured & unstructured interview questions.
- Cleaned and organized spatial and non-spatial data for the development of the myTroski mobile app that facilitates navigation.

Projects

Population Dashboard of Selected Districts in Baden-Württemberg	Jan 2024 – June 2024

Tools: Python, Streamlit, PostgreSQL/PostGIS, FME, QGIS
- Identify and study literature related to the topic
- Utilize web crawling techniques to automatically download or read HTML files from the Statistisches Landesamt Baden-Württemberg website.
- Integrate and store the collected data in the PostgreSQL database for further post-processing and analysis.
- Build a WebGIS Dashboard for the visualization of the collected data with appropriate charts/graphs.

Solar-Photovoltaic Suitability Analysis in Jagstfeld	December 2023

Tools: ArcGIS Pro
- Determine buildings with good potential for using solar energy (size, orientation, and slope of the roof).
- Calculate potential energy production.
- Create a 3D model (LOD 1) of the building footprints

Implementing an Ecosystem Services Assessment Tool with QGIS	December 2023

Tools: QGIS, QField, QGIS2Web
- Designed, tested, and implemented a data collection tool using QGIS and QField.
- Configured QField and QCloud for seamless data flow from the field to the office.