Adeline Akansobe

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EDUCATION

Master of Science in Geographic Information Science Worcester, MA - USA
Clark University, IDCE Expected, May 2024

Commonwealth Executive Master of Business Administration (HR) Kumasi, Ghana
Kwame Nkrumah University of Science and Technology, School of Business August, 2017 – March, 2021

Bachelor of Science in Mining Engineering (Second class honors) Tarkwa, Ghana
University of Mines & Technology August, 2009 – June, 2013

PROFESSIONAL EXPERIENCE

MS GIS Student Worcester, MA - USA
Clark University, IDCE August, 2022 – To date

- Research Assistant - Currently Mapping forest loss in Rwanda which will be used by SSHRC, Canada in partnership with the University of Victoria-BC to assess the relationship between forest loss and the decade-long Cookstove policy.
- Mapped and measured the intensity of mining activities in southwestern Ghana.
- Mapped and analyzed forest loss due to mining and infrastructural development in Atewa Forest, Ghana.
- Adopted and modified a pre-trained foundation model, Presto to map agricultural fields.
- Mapped rooftop photovoltaic Panels and assessing the suitability of Building rooftops for installation in Worcester, MA.
- Created and analyzed landcover change within Blackstone Watershed in Worcester and Rhode Island using PostgreSQL(PgAdmin).
- Conducted a suitability analysis for Landfill Site Selection For Bolgatanga Municipality - Upper East Region, Ghana.
- Developed maps showing the least cost transportation route with minimal population exposure for transporting hazardous material from Pantego, Texas to Concord, Massachusetts, and Ann Arbor, Michigan to Barnwell, South Carolina.
- Volunteer in crowd-sourced emergency mapping for Turkey-Syria Earthquake by the Clark University IDCE department.

Mining Engineer (Ventilation) Accra, Ghana
Golden Star Wassa Limited October, 2016 – November, 2021

- Designed efficient Primary and auxiliary ventilation systems that provided quality air for underground workers and equipment to improve Mine production and reduce emissions into the atmosphere.
- Determined and evaluated Life of Mine (LOM) ventilation designs and advised on key mining connections and required infrastructure upgrades.
- Ensured all statutory compliance was achieved, reports, and 4 ventilation and 5 mine maps were presented to the Chief Inspector of Mines quarterly.
- Collaborated with the Mine Planning Superintendent to prepare yearly ventilation mining plans and budgets for the mine.
- Carried out QAQC ventilation surveys (primary/secondary), heat load surveys, and inspections.
- Improved ventilation fans and accessories stock levels by ensuring they are ordered and delivered on time.

Mining Administrative Technician Accra, Ghana
Golden Star Wassa Limited October, 2015 – October, 2016

- Performed ventilation surveys and reported on findings monthly to the Inspectorate division of minerals commission.
- Prepared and updated at least 5 underground mine and 4 ventilation maps monthly.
- Ensured all underground administrative works, service orders, and purchase orders were successfully executed.

Emergency Response Officer Accra, Ghana
Golden Star Wassa Limited January, 2015 - September, 2015

- Assessed, managed, rescued, and provided first aid treatment to victims during emergencies.

Graduate Mining Engineer Accra, Ghana
Golden Star Wassa Limited October, 2013 – August, 2014

- Collated and reported daily, weekly, and monthly production statistics to the team.
- Mapped and sampled rock structures to update Golden Star's geological database.

PUBLICATIONS AND CONFERENCE PRESENTATION

- **Akansobe, A,** Bilintoh, T. M., Opuni, A. & Korah, A. (2024). Mapping and measuring the intensities of mining activities in Southwestern Ghana, 2024 American Association of Geographers, Honolulu, USA.
- Bilintoh, T. M., Korah, A., Opuni, A., & **Akansobe, A.** (2023). Comparing the Trajectory of Urban Impervious Surface in Two Cities: The Case of Accra and Kumasi, Ghana. *Land*, *12*(4), 927. https://doi.org/10.3390/land12040927
- Bilintoh, T. M., Ishola, J. I., & **Akansobe, A.** (2022). Deploying the Total Operating Characteristic to Assess the Relationship between Land Cover Change and Land Surface Temperature in Abeokuta South, Nigeria. Land, 11(10). https://doi.org/10.3390/land11101830
- Prosser, B. S., Wallace, K. G., Redden, R. and **Akansobe, A.** (2019), Ventilation System Design for Wassa underground Mine, 17th North American Mine Ventilation Symposium, Montreal, Canada.

TECHNICAL SKILLS AND COMPETENCIES

- Software: QGIS, ArcGIS Pro, Python, R, Google Earth Engine, AutoCAD, PowerBI, Visual studio code, PostgreSQL, TerrSet, Draft Sight, VentSim, Geovia Surpac
- Languages: English, Frafra, Twi

PROFESSIONAL CERTIFICATES AND RECOGNITION

- Certificate of Competency in Explosive handling and usage (My Blast Number: 10728)
- 2014 National Winners – National Inter Mine Safety Competition from Minerals Commission (MINCOM)
- 2014 Zonal Winners – Inter Mine Zonal Safety Competition from Minerals

LEADERSHIP

- **Women's Commissioner** - University of Mines and Technology Catholic Students Chapter June, 2011 – June, 2012
- **Lead the Ventilation Section**   Oct. 2016 – Nov. 2021

REFERENCE

- **Professor John Rogan** – Graduate School of Geography, Clark University, Worcester -MA
- **George Asongo** – Mine Manger, Golden Star Wassa Limited
- **Professor Colette Salemi** - Department of Economics, University of Victoria, British Columbia