

CV OF EFIBA VIDDA SENKYIRE KWARTENG (PhD)

E-mail: lynnvid@yahoo.com

Mobile: +233 209 055 309, +233 553237513

PERSONAL INFORMATION

Name: Efiba Vidda Senkyire Kwarteng
Nationality: Ghanaian
Date of Birth: 26/04/1985
Place of Birth: Takoradi, Ghana
Address: Department of Geomatic Engineering, KNUST, Ghana
Email: lynnvid@yahoo.com
Phone: +233 209 055309

EDUCATION

Academic Visiting Fellow - University of Twente, Faculty of Geo-Information Science and Earth Observation (ITC), Netherlands (2020 - Date)

Training in

- Spatial Epidemiology
 - Ecological Niche Modelling
 - Disease Mapping
 - Spatial Statistics
 - Mathematical Modelling

PhD Geomatic Engineering - KNUST, Ghana (2017-2021)

Courses Read

- Mathematical Modelling
- R Programming
- Ecological Modelling
- Spatial Epidemiology
- Geographic Information Systems (GIS)
- Statistical Multivariate Analysis
- Satellite Remote Sensing
- Research Methods

MSc Oil and Gas Enterprise Management - University of Aberdeen, Scotland, UK (2013-2014)

Courses Read

- Petroleum Engineering
- Well Engineering
- Entrepreneurial and Negotiations skills

- International Petroleum Economics
- Operational Accountancy and Oil & Gas Law
- Project and Facilities Management
- Latest modelling in Reservoir and Well Engineering
- Environment and Safety Engineering
- Introduction to Seismic Data Processing and interpretation software (Petrel)

Diploma in Financial Management - Institute of Commercial Management, UK (2006-2007)

BSc Geomatic Engineering - Kwame Nkrumah University of Science & Technology (KNUST), Kumasi-Ghana (2003-2007)

WORK EXPERIENCE

KNUST - December 2021 to Date

- Lecturer
 - Teaching
 - Research
 - Service to community

KNUST - January 2021 to September 2021

- Graduate Assistant
 - Facilitate Programming Languages including R, Python, MATLAB for undergraduate and graduate students, etc.
 - Teach GIS and Remote Sensing software
 - Teach Field Survey Practical works

KCCR - September 2017 to Date

Lymphatic Filariasis Stigma Project Sponsored by the Canadian Institute for Health Research

- Project Coordinator, GIS and Data Analyst
 - Lead community mapping, photo voice and body mapping activities
 - Organize and lead field trips and community entry
 - Assist with qualitative data analysis and report writing

Lymphatic Filariasis (LF) Project

- Worked as a spatial epidemiologist, collecting ecological data for laboratory testing and questionnaire administration in LF endemic communities while working with LF patients
- Mapped the spatial dynamics of LF in Ghana using various disease mapping techniques
- Used machine learning, statistical methods including GIS and Remote sensing approaches to model the environmental niche of LF
- Predicted LF prevalence levels over Ghana

J-Con Engineering and Construction - October 2016 to January 2017

- GIS and Database Analyst on the Asanko dynamite hill project
- Organized data for reporting, meetings, and presentations

CBM Survey Ltd - October 2009 – August 2013

Surveyor, GIS and Database Administrator

Consulted to various mining, exploration and infrastructural companies within the West African Sub-regions such as Adamus Resources, Golden Star Resources, Ampella Exploration, Accra Brewery etc.

Duties/Achievements

- Managed a Geo-database with ArcSDE for MySQL server
- Developed and implemented a database program for property and farm compensation on a windows platform with Microsoft Access
- Trained 25 newly recruited staff on the use of GIS software and applications
- Carried out general survey works (e.g. Traversing, levelling, setting out, point picking, road and drain designs)
- Analyzed spatial data, point editing and adjustment
- Prepared data for reporting, meetings, and presentations

Stanbic Bank Ghana Ltd - July 2007 - September 2009

National Service Personnel and then a Permanent Staff with the following achievements:

- Improved Direct Sales Activities
- Accelerated Teller Activities
- Enhanced Customer Service relations
- Facilitated ATM Card production services
- Maintained a running end-of-day backups, installations and upgrades of software

Architectural and Engineering Services Ltd (AESL) - July 2005 - August 2005

Student Industrial Attachment

- Assisted the Regional Surveyor in general office and field works (cadastral survey)

SKILLS/ABILITIES / SPECIAL ATTRIBUTES

- Thorough understanding in data collection, collation, validation and storage
- In depth knowledge and ability to work across discipline boundaries to solve industrial problems
- Inter-personal and transferable skills in presentation, report-writing, team work, creative thinking, and problem solving
- High-level varied experience in Land survey and geodetic works
- Skilled in programming such as R, Python; Digital Mapping techniques; AutoCAD; Good working knowledge of GPS and Satellite Images, Geographic Information System (GIS) and Real Time Kinematics (RTK) Surveying techniques

SOFTWARE EXPERIENCE

Programming and Statistical and Spatial Statistical Experience

- R studio, Data Analysis, etc.
- Python

- MATLAB
- SPSS
- Kulldorf's ScanStat
- Machine Learning
- Artificial Intelligence

GIS and Remote Sensing Platforms

- ArcGIS
- MapInfo professional
- QGIS
- SNAP
- Envi

Geological Modelling Software

Relational Databases

- MySQL Server
- Microsoft Access

Project Management Software

- Microsoft Project
- Primavera

LANGUAGES

English, Akan

RESEARCH AND PROJECTS

- ✓ Geo-spatial modelling and distribution of lymphatic filariasis in Ghana (KNUST/KCCR/ITC).
- ✓ Project financing in the hydrocarbon industry in developing countries: A case study in Ghana (University of Aberdeen, Scotland)
- ✓ Using Visual Basic program to develop a student survey adjustment program.
- ✓ Resettlement of the Salman village, haul road design, survey and construction, farm boundary survey and compensation, gold processing plant building verticality checks.
- ✓ Ampella Exploration (Batea, Burkina Faso): Topographic and Drill Hole Survey.
- ✓ Golden Star Resources: Farm survey and compensation, Tailings dam raise, mine pit back-fill monitoring and volume computations.

PUBLICATIONS

- Kwarteng, E. V. S., Arthur, Y. D., & Ayer, J. (2019). Project finance and investment in the oil and gas industry in developing countries: a case study of Ghana. *International Journal of Energy Technology and Policy*, 15(4), 373-395.
- Kwarteng, E. V., Andam-Akorful, S. A., Kwarteng, A., Asare, D. C. B. M., Quaye-Ballard, J. A., Osei, F. B., & Duker, A. A. (2021). Spatial Variation in Risk Factors of Lymphatic Filariasis in Hotspot Zones in Ghana.
- Duker AA, Kwarteng EVS (2021). Lymphatic filariasis: a snap shot of a neglected tropical disease. *Int J Community Med Public Health*; 8:3611-7.

Publications in Progress

- Mapping Spatial Variation and Impact of the National MDA Program on Lymphatic Filariasis Elimination in Ghana (Accepted for Publication in **Frontiers in Tropical Diseases Population Ecology and Socio-Epidemiology**).
- Review of the application of Spatial Analytical Methods in the study of Lymphatic Filariasis (**Under Review**).

REFREES

Prof. Alfred A. Duker

Department of Geomatic Engineering - College of Engineering
KNUST – Kumasi, Ghana
E-mail: duker@itc.nl

Prof. Frank Badu Osei

Department of Earth Observation Science,
University of Twente-Netherlands
E-mail: f.b.osei@utwente.nl

Dr. Samuel Ato Adam-Akorful

Department of Geomatic Engineering - College of Engineering
KNUST – Kumasi, Ghana
E-mail: aaakorful@gmail.com