

CURRICULUM VITAE

PERSONAL DETAILS

Name **Amprofi Ampah Amproche**
Citizenship **Ghanaian**
Address Sunyani Ghana
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Telephone +233 240 910 228

EDUCATION

January 2025- 2028 PhD candidate in Water Resource Engineering and Management
Kwame Nkrumah University of Science and Technology, Kumasi Ghana

January 2021- December 2023 MSc Environmental Engineering Management
University of Energy and Natural Resources, Sunyani Ghana
<https://uenr.edu.gh>
MSc Thesis “**Machine Learning-Based Assessment of Environmental Drivers on Soil Moisture Dynamics in the Volta River Basin**”

September 2015- August 2019 BSc Natural Resources Management
University of Energy and Natural Resources, Sunyani Ghana
<https://uenr.edu.gh>
BSc Thesis “**Geospatial Assessment of Land Use and Land Cover Patterns in the Black Volta Basin, Ghana**”

September 2007- May 2011 Agricultural Science
Annor Adjei Senior High School

Language English, Twi, Fante (Native)

WORK EXPERIENCE

February 2021 to date **SENIOR TECHNICIAN**
University of Energy and Natural Resources.

- ✓ Assist undergraduate students working on the research project
- ✓ Collect and analyze data
- ✓ Assist postgraduate students with their data analysis
- ✓ Gives tutorials to both undergraduate and postgraduate students

2018 to 2020 **GIS TECHNICIAN**
Earth Observation Research and Innovation Center (EORIC)

- ✓ Compiling geographic information in the form of satellite images, geographical surveys, and aerial photographs.
- ✓ Researching and verifying geographic data.
- ✓ Entering new data into the GIS database.
- ✓ Drawing maps using advanced GIS software.

2018 to 2020 **FIELD ASSISTANT**
Building Resilience of Lake Bosomtwe to Climate Change (RELAB) Project
UENR, Sunyani

- ✓ Collects, edits, processes, and coordinates research data.

- ✓ Arranges and conducts field interviews as appropriate to the study
- ✓ Records research data by specified protocols and procedures.

June to August 2017

INTERNSHIP

Resource Management Support Centre Adum Kumasi

- ✓ Responsible for preparing and distributing various weekly and monthly analyses as assigned.
- ✓ Liaises with various departments to assist with data analysis and decision support.
- ✓ Biodiversity Assessment

June to August 2016

INTERNSHIP

Chirano Gold Mines Company Limited, Chirano – Ghana

Laboratory Assistant

- ✓ Assist in buffer mixing required for processing field samples in the laboratory.
- ✓ Ensure sanitation of laboratory rooms, apparatus, and equipment.
- ✓ Update routine records of field samples and wash chemical supply usage.
- ✓ Prepare chemical waste, disposal forms, reagents, and experiment solutions

Scientific and societal impact of research

Journal Publications

- ✓ Domfeh, M.K., Sey, N.E.N., **Amproche, A.A.** *et al.* Exploring key drivers of forest fires in the Mole National Park of Ghana using geospatial tools. *Spat. Inf. Res.* (2022). <https://doi.org/10.1007/s41324-022-00478-x>
- ✓ Ramata Ouedraogo, Emmanuel K. Nyantakyi, Brahim Sorgho, Ebenezer K. Siabi, **Amprofi Ampah Amproche**, Abena Obiri-Yeboah, Tongnoma Zongo, Eric Mortey, Martin Kyereh Domfeh, Prince Appiah Owusu, The emergence of artisanal gold mining and local perceptions in the Houde municipality, Burkina Faso, <https://doi.org/10.1016/j.sciaf.2022.e01306>.
- ✓ Mark Amo-Boateng, Nana Ekow Nkwa Sey, **Amprofi Ampah Amproche**, Martin Kyereh Domfeh, Instance segmentation scheme for roofs in rural areas based on Mask R-CNN, *The Egyptian Journal of Remote Sensing and Space Science*, 2022, <https://doi.org/10.1016/j.ejrs.2022.03.017>.
- ✓ Höflinger, S., Antwi, M., **Amprofi, A. A.**, & Kabo-Bah, A. T. (2020). Spatial Identification of Potential Dump Disposal Sites for Effective Waste Management in the Sunyani Municipality, Ghana. *Journal of*

Geoscience and Environment Protection, 8, 93-111.
<https://doi.org/10.4236/gep.2020.811005>

- ✓ **Amproche AA**, Antwi M, Kabo-Bah AT (2020) Geospatial Assessment of Land Use and Land Cover Patterns in the Black Volta Basin, Ghana. J Remote Sens GIS. 9:269. DOI: 10.35248/2469-4134.20.9.269

Journal Publications Under Review International Journal of Applied Earth Observation and Geoinformation
MACHINE LEARNING-BASED ASSESSMENT OF ENVIRONMENTAL DRIVERS ON SOIL MOISTURE DYNAMICS IN THE VOLTA RIVER BASIN

Peer-Reviewed Articles Journal of Environmental Monitoring and Assessment, Springer Nature

- Training
- ✓ Agricultural Crop Classification with Synthetic Aperture Radar and Optical Remote Sensing (ARSET)
 - ✓ Earth Observations Toolkit for Sustainable Cities and Human Settlements (ARSET)
 - ✓ Using Earth Observations for Pre- and Post-Fire Monitoring (ARSET)
 - ✓ Earth observation for wetlands' monitoring, assessment and management (ARSET)
 - ✓ Mapping the future with GIS, ESRI
 - ✓ Do-It-Yourself Geo Apps, ESRI
 - ✓ Getting started with Spatial Analysis, ESRI
 - ✓ Digital Cartography & Evolution of Location Intelligence, Geospatial Awareness Hub
 - ✓ Remote Sensing for Monitoring Land Degradation and Sustainable Cities SDGs, NASA's Applied Remote Sensing Training Program (ARSET)
 - ✓ Remote Sensing for Conservation & Biodiversity, NASA's Applied Remote Sensing Training Program (ARSET)
 - ✓ Mapping Crops and their Biophysical Characteristics with Polarimetric Synthetic Aperture Radar and Optical Remote Sensing (ARSET)

REFERENCES

Ing. Dr. Mary Antwi,
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University of Energy and Natural Resources
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Surv. Ing. Dr. Peter Damoah-Afari,
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University of Energy and Natural Resources
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Email: peter.damoah-afari@uenr.edu.gh

I, Amprofi Ampah Amproche, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.