

CURRICULUM VITAE

BENJAMIN BANAF0

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PROFESSIONAL SUMMARY

Highly organized and efficient in fast-paced multitasking environments; able to prioritize effectively to accomplish objectives with creativity and within set timelines. More importantly, I am an excellent team player, analytical, fast learner, calm and focused. These qualities, I always seek to bring-in wherever I find myself or called to apply my skills and competences.

EDUCATION

- **Master of Science degree in Applied Geophysics** *August 2015 - July 2016*
University of Ghana, Accra Ghana.
Course modules: *Advanced Structural Geology, Seismic Reflection Acquisition & Processing, Seismic Reflection Interpretation, Reservoir Characterization and Modelling, Health, Safety and Environment, Applied Geophysics in Site Investigations, Gravity and Magnetic Methods, Earthquake Seismology, Borehole Geophysics, Near-Surface Geophysics, GIS Applications in Earth Science, Geoscience Professional Practice.*
- **Bachelor of Science degree in Earth Science** *August 2009 - May 2013*
Major: Petroleum Geoscience
University of Ghana, Accra Ghana.

FELLOWSHIP AND ACTIVITIES

- **United Nations Nippon Thematic Fellow** *August 2019 – December 2019*
Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs
United Nations Headquarters, New York.
The Fellowship was a competitive award to professionals with interest in Ocean affairs and whose work involves the ocean and Areas beyond National Jurisdiction. The fellowship aimed at professional skills development as well as increasing capacity of fellows through in-depth advanced training and research in specific thematic areas of ocean affairs and the law of the sea and related disciplines, including marine science in support of management frameworks, so as to provide the necessary knowledge to assist fellows to incorporate the knowledge gained in that specific area in addressing their field of work, in conformity with the United Nations Convention on the Law of the Sea (UNCLOS) and the 2030 Agenda for Sustainable Development.

PROFESSIONAL EXPERIENCE

Ministry of Energy, Accra, Ghana

September 2018 –Present

Geophysicist

- Monitoring and reporting of exploration and appraisal activities of companies, their drilling, seismic activities and everything in its context.
- Coordination and reporting of development and production activities.
- Review and monitor the implementation of Petroleum Agreements, and conduct industry related intelligence regarding activities in the oil and gas industry.

- Providing support in activities related to the promotion of the hydrocarbon potential of Ghana to local and international companies through presentations and exhibitions at trade/industrial fairs related to oil and gas activities.
- Provide input for policy development and realignment.
- Providing support for the drawing of annual programme and budget for the Petroleum Upstream directorate.

Ghana Geological Survey Department, Accra, Ghana

June 2017 – July 2018

Graduate Geophysics Intern

Responsibilities

- Assisted the Geophysics department in data collection using various geophysical methods.
- Using computer modelling applications to produce maps.
- Integration of geophysical and geological models in order to reconstruct the structural and stratigraphic features.
- Report writing and presentation.

Ghana Geological Survey Department, Accra, Ghana

September 2013 - August 2014

National Service Personnel – Laboratory Assistant

Responsibilities

- Assisted the Geophysics department in data collection and processing at times and sundry.
- Supported the department during Regional Geochemistry survey & field mapping.
- Soil Sample preparation.
- Conducted XRF analysis of soil samples.
- Prepared thin section of samples.

Leibniz-zentrum für agrarlandschaftsforschung, Müncheberg, Germany

July 2011 - September 2011

Junior Researcher Intern

Responsibilities

- Supported the institute during field trace gas (CO₂, CH₄, N₂O) measurement campaign.
- Conducted trace gas flux measurement via closed chamber methodology at selected peat-land and agricultural sites throughout northeast Germany.
- Trace gas detection with gas chromatography.
- Analysed soil and water samples.
- Data post processing with several software packages (e.g. Logger Net, MS Excel).
- Flux calculation for individual greenhouse gases.

PROFESSIONAL DEVELOPMENT

- **Introduction to Ocean Science** *March 2021 – Present*
Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs
United Nations Headquarters, New York.
- **Energy Statistics and Modelling** *November 2020 - Present*
International Energy Agency, Paris, France

- **Training Certificate on the Law of the Sea** *September 2020 – January 2020*
Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs
United Nations Headquarters, New York.
- **Training Certificate on the Law Ocean Affairs and Law of the Sea: Impacts and Solutions in the Age of COVID – 19** *March 2020 - January 2020*
Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs
United Nations Headquarters, New York.
- **Field Development Plan Processes** *12th – 21st October, 2020*
New Producers Group (Chatham House, the Natural Resource Governance Institute and the Commonwealth Secretariat), and PETRAD.
- **Analysis of faults and fault seal for petroleum studies** *7th - 11th December, 2015*
University College Dublin – Tullow Short Courses in Petroleum Geosciences
Accra, Ghana.
- **Occupational Safety and Health Training** *October, 2013*
Online Course: *Introduction to Safety Management*
OSHAcademy, Beaverton, U.S.A.
- **Training in waste residues and emissions in the environment** *July 2011 - September 2011*
Institute of Landscape Dynamic Matter, Müncheberg, Germany.

TECHNICAL COMPETENCES

- Reservoir characterisation and modelling using Petrel.
- Knowledge of seismic field acquisition operations and data processing, and seismic and non-seismic interpretation techniques, in order to create geophysical models of the subsurface.
- Knowledge of rock properties and fundamental physical principles at the base of the geophysical methods used in the oil and gas industry (seismic, gravity, magnetics, electromagnetics).
- Geophysical data interpretation using Geosoft.
- Data post processing with several software packages (e.g. Res2dinv, SPSS, ArcGIS).
- Microsoft Office Applications.

PROFESSIONAL MEMBERSHIPS

- United Nations Nippon Fellowship Alumni Network
- Ghana Institution of Geoscientist
- Society of Exploration Geophysicist
- American Association of Petroleum Geologist
- Society of Petroleum Engineers

LEADERSHIP EXPERIENCE

- **Financial Secretary** *November 2013 - October 2015*
Calvary Baptist Church Youth Chapel
- **President** *August 2012 - July 2013*
American Association of Petroleum Geologists (University of Ghana Students Chapter)
- **Financial Secretary** *July 2012 - June 2013*
National Union of Baptist Students (University of Ghana)
- **President** *July 2011 - June 2013*
International Association for the Exchange of Students for Technical Experience (University of Ghana)
- **Public Relations Officer** *June 2011 - May 2012*
Society of Petroleum Engineers (University of Ghana, Accra, Ghana)
- **Assistant Boys prefect** *September 2006 - August 2007*
Abundant Grace Academy Senior High School (Accra, Ghana)

CONFERENCES AND WORKSHOPS

- **Global Petroleum Show and Conferences**, June 8 -11, 2019, Calgary, Canada.
- **United Nations Climate Action Summit and Climate Week**. September 23 – 27, 2019, United Nations Headquarters, New York.
- **The State of CarbonTech**, September 24 2019, Consulate General of Canada in New York.
- **The Race to Zero Emissions**, September 25, 2019, Climate Analytics, New York.
- **Climate and Ocean Action**, September 26, 2019, Make_Sense, New York.
- **International Pathways: Cities Decarbonizing Buildings**, September 27, 2019, Building Energy Exchange and Japan Climate Initiative, New York.

REFERENCES

1. Mr. Benjamin Kwame Asante
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