

Ing. Prof. Amos Tiereyangn Kabo-bah
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Dr. Kabo-bah is an Associate Professor and currently the Dean for the International Relations Office of the University of Energy and Natural Resources. Formerly, he was the Head of the Department of Civil and Environmental Engineering, Department for Energy and Environmental Engineering and the Earth Observation Research and Innovation Centre between 2015 and 2020. He is a Programme Board Member for the Group on Earth Observation (GEO); an intergovernmental organization working to improve the availability, access and use of Earth observations for the benefit of society. Under GEO programme, he is a Scientific Committee for GEO AquaWatch Programme and Co-Chair for developing the strategic direction and implementation schedule for the GEO Land Degradation Neutrality (LDN). This initiative will assist countries, regions and others interested in addressing land degradation with monitoring and reporting necessary to implement and achieve SDG 15, “Life on Land”. He is also a Scientific Steering Committee Member for the Global Climate Observing System (GCOS) of the World Meteorological Organisation (WMO). He has published 60+ articles in several journals, is an Editorial Member for Oriental Journal of Chemistry (OJC), Editor for Information Technology and Engineering Section – Scientific African Journal, and a Co-Chief Editor for the Journal of Energy and Natural Resource Management (JENRM). Dr. Kabo-bah obtained his bachelor education in Civil Engineering at Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana and MSc Environmental Hydrology at the University of Twente in the Netherlands. In 2013, he obtained his PhD Hydrology and Water Resources at Hohai University in Nanjing, China, and later for his Post-doctoral research on Climate Change Impacts on Hydropower Generation in Ghana at the University of Ibadan, Nigeria.

<https://orcid.org/0000-0002-5758-3708>

Professional Experience

- **Member-National Planning Committee**, AfriGEO Symposium, 24th October to 28th October 2022 in Accra, Ghana by the Regional Centre for Mapping of Resources for Development (RCMRD)
- **Member, GEO Blue Planet Symposium**, 24th October to 28th October 2022 in Accra, Ghana by the Mercator Oceans International.
- **Co-Chair-National Planning Committee**, GEO Week 2022 from the 31st October to 4th November in Accra, Ghana by the Group on Earth Observation.
- **Chairman-National Planning Committee**, United Nations/Ghana/PSIPW - 5th International conference on the use of space technology for water resources management, Accra, Ghana, 10-13 May 2022. <https://www.unoosa.org/oosa/en/ourwork/psa/schedule/2022/un-Ghana-water.html>
- **Programme Committee Member**, UN World Data Forum from April 24-27, 2023 in Hangzhou, China.
- **Co-Chair**, Group on Earth Observation (GEO) Land Degradation Neutrality (LDN)-
http://earthobservations.org/geo_ldn.php , 2018-2026
- **Dean**, International Relations Office, University of Energy and Natural Resources, Ghana | June 2021 to Present.
- **Focal Person**, Digital Belt and Road Initiative International Centre of Excellence for Big Data for Sustainable Development Goals in Ghana || March 2022 to Present

- **Lead Consultant**, Technically Facilitate, Coordinate and Fully Execute Five (5) Short-Term Courses (Introductory GIS, Intermediate GIS, Climate Change, Fisheries Management under Africa Centre Of Excellence in Coastal Resilience Project-University of Cape Coast -IFT No.: CR/UCC/CS/0003/2020 (UCC/ACE/08/2020) || September 2020 to May 2021.
- **Co-Chair**, Group on Earth Observation (GEO) Land Degradation Neutrality (LDN)-http://earthobservations.org/geo_ldn.php , 2018-2021
- **Head of Department**, Civil and Environmental Engineering, University of Energy and Natural Resources (UENR), Sunyani, Ghana || 1 September 2019 to 31 July 2021
- **Guest Editor**, Scientific African Journal – Special Issue Papers Call on Space technology for water resources management - December 31, 2022
- **Guest Editor** -Frontiers -Oceanobs19: An Ocean of Opportunity, 2019 || March 27, 2018 to 5 September 2019
- **Editor** – Engineering and Information Technology Section, Scientific African Journal, Elsevier Publishing, 2018 to Present
- **Investigating Member** (Hydrology), G-Class Satellite Mission for Africa Programme – an European Space Agency Space Mission || 2018 - 2021
- 2016-2017: **Lead Consultant**: Development of Affordable Latrines for Vulnerable Communities in Northern, Eastern and Volta Regions of Ghana. Supported by Afram Plains Development Organisation of Ghana.
- **Lead Consultant**, Conversion of Plastic Waste into Fuel, Supported by the UNDP GEF Small Grants Programme.
- **Proposed and Lead**, Establishment of the Earth Observation Research and Innovation Centre, UENR, 2015
- **Proposed and Lead**, Establishment of the Journal of Energy and Natural Resource Management, University of Energy and Natural Resources
- Since 1 January 2012: **Editorial Member**, Oriental Journal of Chemistry, ISSN: 0970 - 020X, ONLINE ISSN: 2231-5039. Emerging Sources Citation Index Journal.
- **Head of Department**, Energy and Environmental Engineering, University of Energy and Natural Resources, Sunyani, Ghana || 1 August 2018 to 31 August 2019
- **Head of Department**, [Earth Observation Research and Innovation Centre \(EORIC\)](#), University of Energy and Natural Resources, Sunyani, Ghana || 1 August 2015 to 31 July 2018
- **Senior Lecturer**, School of Engineering, University of Energy and Natural Resources, Sunyani, Ghana || 1 August 2016 – Present
- **Lecturer**, Department of Energy and Environmental Engineering, University of Energy and Natural Resources, Sunyani, Ghana || 1 June 2013 to 31 July 2016
- **Visiting Lecturer** (Instrumentation, Trans-boundary Water Resources Management), Pan African University Institute of Water and Energy Sciences, Algeria || 15 December 2018 to 10 February 2020
- **Visiting Lecturer** (GIS, Environmental Database Creation), West African Science Service Centre for Climate Change and Adapted Land Use (WASCAL) || February 2014- February 2017 & June 2020

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- **Education**
- **Post-Doc** (Climate Change and Energy) || University Of Ibadan, Ibadan-Nigeria Under Climate Impact Research Capacity And Leadership Enhancement -CIRCLE Programme || 1 January to 31 December 2015.
- **Ph.D** (Hydrology And Water Resources) || Hohai University, Nanjing-China || 1 September 2010 to 26 June 2013
- **MSc.** (Environmental Hydrology) || Faculty of Geoinformation Science and Earth Observation, University Of Twente, Enschede, The Netherlands || 01 September 2008 to 5 March 2010
- **Diploma** (Financial Management) || Institute of Commercial Management, Bournemouth, England || 1 September 2006 to 26 April 2007
- **Pg. Cert.** (Applications of Earth Observation (EO) and GIS For Integrated Water Resources Management || Regional Centre For Mapping of Resources for Development, Nairobi, Kenya || 1 January 2007 to 30 April 2007
- **BSc.** (Civil Engineering) - Kwame Nkrumah University of Science and Technology, Kumasi-Ghana || 1 September 2001 to 10 April 2005

1.0 Publications (selected)

1.1 Journal Papers

1. Kouman, K. D., Kabo-bah, A. T., Kouadio, B. H., & Akpoti, K. (2022). Spatio-Temporal Trends of Precipitation and Temperature Extremes across the North-East Region of Côte d'Ivoire over the Period 1981–2020. *Climate*, 10(5), 74.
2. Mensah, Jacob Kofi, Eric A. Ofosu, Komlavi Akpoti, Amos T. Kabo-Bah, Samuel A. Okyereh, and Sandow Mark Yidana. "Modeling current and future groundwater demands in the White Volta River Basin of Ghana under climate change and socio-economic scenarios." *Journal of Hydrology: Regional Studies* 41 (2022): 101117.
3. Yeboah, K. A., Akpoti, K., Kabo-bah, A. T., Ofosu, E. A., Siabi, E. K., Mortey, E. M., & Okyereh, S. A. (2022). Assessing climate change projections in the Volta Basin using the CORDEX-Africa climate simulations and statistical bias-correction. *Environmental Challenges*, 6, 100439.
4. Mensah, Jacob Kofi, Eric A. Ofosu, Komlavi Akpoti, Amos T. Kabo-Bah, Samuel A. Okyereh, and Sandow Mark Yidana. "Modeling current and future groundwater demands in the White Volta River Basin of Ghana under climate change and socio-economic scenarios." *Journal of Hydrology: Regional Studies* 41 (2022): 101117.
5. Mensah, Jacob Kofi, Eric A. Ofosu, Sandow Mark Yidana, Komlavi Akpoti, and Amos T. Kabo-bah. "Integrated modeling of hydrological processes and groundwater recharge based on land use land cover, and climate changes: a systematic review." *Environmental Advances* (2022): 100224.
6. Kouman, Kouamé Donald, Amos T. Kabo-bah, Boyossoro Hélène Kouadio, and Komlavi Akpoti. "Spatio-Temporal Trends of Precipitation and Temperature Extremes across the North-East Region of Côte d'Ivoire over the Period 1981–2020." *Climate* 10, no. 5 (2022): 74.
7. Akpoti, K., Groen, T., Dossou-Yovo, E., Kabo-bah, A. T., & Zwart, S. J. (2022). Climate change-induced reduction in agricultural land suitability of West-Africa's inland valley landscapes. *Agricultural systems*, 200, 103429.
8. Mensah, Jacob Kofi, Eric A. Ofosu, Sandow Mark Yidana, Komlavi Akpoti, and Amos T. Kabo-bah. "Integrated modeling of hydrological processes and groundwater recharge based on land use land cover, and climate changes: a systematic review." *Environmental Advances* (2022): 100224.
9. Mahama, P. N., Kabo-Bah, A. T., Blanford, J. I., Yamba, E. I., & Antwi-Agyei, P. (2022). Reviewing the Past, Present, and Future Risks of Pathogens in Ghana and What This Means for Rethinking Infectious Disease Surveillance for Sub-Saharan Africa. *Journal of Tropical Medicine*, 2022.

10. Dekongmen, Benjamin Wullobayi, Amos Tiereyangn Kabo-bah, Martin Kyereh Domfeh, Emmanuel Daanoba Sunkari, Yihun Taddele Dile, Eric Ofosu Antwi, and Rita Akosua Anima Gyimah. "Flood vulnerability assessment in the Accra Metropolis, southeastern Ghana." *Applied Water Science* 11, no. 7 (2021): 1-10.
11. Osiakwan, Gustav Merrit, Abass Gibrilla, Amos T. Kabo-Bah, Emmanuel K. Appiah-Adjei, and Geophrey Anornu. "Delineation of groundwater potential zones in the Central Region of Ghana using GIS and fuzzy analytic hierarchy process." *Modeling Earth Systems and Environment* (2022): 1-22.
12. Abebrese, S., Anornu, G. K., Kabo-Bah, A. T., Dekongmen, B. W., & Sunkari, E. D. (2022). Assessment of groundwater potential zones using GIS and remote sensing techniques in the Bole District, Savannah Region, Ghana. *International Journal of Energy and Water Resources*, 1-12.
13. Osiakwan, G. M., Appiah-Adjei, E. K., Kabo-Bah, A. T., Gibrilla, A., & Anornu, G. (2021). Assessment of groundwater quality and the controlling factors in coastal aquifers of Ghana: An integrated statistical, geostatistical and hydrogeochemical approach. *Journal of African Earth Sciences*, 184, 104371.
14. Kabo-Bah, A. T., Sedegah, D. D., Antwi, M., Gumindoga, W., & Eslamian, S. (2021). How to Increase Water Harvesting in Africa. *Handbook of Water Harvesting and Conservation: Case Studies and Application Examples*, 141-151.
15. Kabo-bah, A. T., & Eslamian, S. (2021). Watershed Water Balance. *Journal: Encyclopedia of the UN Sustainable Development Goals Clean Water and Sanitation*, 1-17.
16. Kabo-bah, A. T., Nyantakyi, E., Kabo-bah, K., Nasirudeen, A. F., & Siabi, E. K. (2021). Homemade Solutions for Self-Reliance: Escaping the Poverty Net in Developing Countries. *Journal: Encyclopedia of the UN Sustainable Development Goals No Poverty*, 1-11.
17. Akpoti, K., **Kabo-Bah, A. T.**, Dossou-Yovo, E. R., Groen, T. A., & Zwart, S. J. (2020). Mapping suitability for rice production in inland valley landscapes in Benin and Togo using environmental niche modeling. *Science of the total environment*, 709, 136165.
18. Obeng, M., Gyamfi, S., Derkyi, N. S., **Kabo-bah, A. T.**, & Pephrah, F. (2019). Technical and economic feasibility of a 50 MW grid-connected solar PV at UENR Nsoatre Campus. *Journal of Cleaner Production*, 119159.
19. Akpoti, K., **Kabo-bah, A. T.**, & Zwart, S. J. (2019). Agricultural land suitability analysis: State-of-the-art and outlooks for integration of climate change analysis. *Agricultural Systems*, 173, 172-208.
20. Speich Sabrina, Lee Tong, Muller-Karger Frank, Lorenzoni Laura, Pascual Ananda, Jin Di, Delory Eric, Reverdin Gilles, Siddorn John, Lewis Marlon R., Marba Nuria, Buttigieg Pier Luigi, Chiba Sanae, Manley Justin, **Kabo-Bah Amos Tiereyangn**, Desai Kruti, Ackerman Abby (2019). OceanObs19: An Ocean of Opportunity. *Frontiers in Marine Science*, 6, 570.
21. Okyereh, S. A., Ofosu, E. A., & **Kabobah, A. T.** (2019). Modelling the impact of Bui dam operations on downstream competing water uses. *Water-Energy Nexus*, 2(1), 1-9.
22. **Kabo-bah, A. T.**, Amo-Boateng, M., Kabo-bah, K., Sey, N. E. N., Siabi, E., Okyereh, S., & Sarquah, K. (2019). Sendai Framework Implementation—A Regional Assessment of Wildfires in West Africa. Contributing Paper to GAR 2019.
23. Ward, S., Scott Borden, D., **Kabo-bah, A.**, Fatawu, A. N., & Mwinkom, X. F. (2019). Water resources data, models and decisions: international expert opinion on knowledge management for an uncertain but resilient future. *Journal of Hydroinformatics*, 21(1), 32-44.
24. Amuzu, J., Jallow, B. P., **Kabo-Bah, A. T.**, & Yaffa, S. (2018). The Climate Change Vulnerability and Risk Management Matrix for the Coastal Zone of The Gambia. *Hydrology*, 5(1), 14.
25. Amuzu, J., **Kabo-Bah, A. T.**, Jallow, B. P., & Yaffa, S. (2018). Households' Livelihood Vulnerability to Climate Change and Climate Variability: A Case Study of the Coastal Zone, The Gambia. *Journal of Environment and Earth Science*, 8(1), 35-46.
26. Amuzu, J., Jallow, B. P., **Kabo-Bah, A. T.**, & Yaffa, S. (2018). The Socio-economic Impact of Climate Change on the Coastal Zone of the Gambia. *Natural Resources and Conservation* 6(1): 13-26, 2018. DOI: 10.13189/nrc.2018.060102

27. Agyare, A., Anornu, G. K., & **Kabo-bah, A. T. (2017)**. Assessing the vulnerability of aquifer systems in the Volta river basin: a case-study on Afram Plains, Ghana. *Modeling Earth Systems and Environment*, 3(3), 1141-1159.
28. Asamoah, M., **Kabo-Bah, A. T.**, & Antwi-Ofosu, E. (2017). Spatial and SocioEconomic Impacts Analysis of BUI Hydropower Dam on Downstream Communities. In *International Conference on Engineering, Applied Sciences and System Modeling* (pp. 303-322). Springer, Cham.
29. Obahoundje, S., Ofosu, E. A., Akpoti, K., & **Kabo-bah, A. T. (2017)**. Land Use and Land Cover Changes under Climate Uncertainty: Modelling the Impacts on Hydropower Production in Western Africa. *Hydrology*, 4(1), 2.
30. Mortey, E. M., Ofosu, E. A., Kolodko, D. V., & **Kabobah, A. T. (2017)**. Sustainability Assessment of the Bui Hydropower System. *Environments*, 4(2),
31. **Kabo-Bah, A. T.**, Diji, C. J., Nokoe, K., Mulugetta, Y., Obeng-Ofori, D., & Akpoti, K. (2016). Multiyear Rainfall and Temperature Trends in the Volta River Basin and their Potential Impact on Hydropower Generation in Ghana. *Climate*, 4(4), 49.
32. Akinbami, C. A. O., Ifeanyi-Obi, C., Appiah, D. O., & **Kabo-Bah, A. T. (2016)**. Towards sustainable adaptation to climate change: The role of indigenous knowledge in Nigeria and Ghana. *African Journal of Sustainable Development*, 6(2), 189-214.
33. Thakur, J. K., & **Kabo-bah, A. T. (2016)**. State Legislation on Water Reuse. In *Urban Water Reuse Handbook* (pp. 237-242). CRC Press.
34. Nicholas Miwornunyuie, **Amos. T. Kabo-Bah**, Komlavi Akpoti, 2016. Effect of the Sunyani Municipal Waste Dumpsite on Surface Water Quality. *Global Journal of Bio-Science and Biotechnology*. G.J.B.B., VOL.5 (3) 2016.
35. Akpoti, K., Antwi, E. O., & **Kabo-bah, A. T. (2016)**. Impacts of Rainfall Variability, Land Use and Land Cover Change on Stream Flow of the Black Volta Basin, West Africa. *Hydrology*, 3(3), 26.
36. WAGAN, B., ZHANG, Z., BAOPING, F., HAN, S., & **KABO-BAH, A. T. (2015)**. Drought Trends and Temperature Influence in Zhanghe River Basin, China. *Advances in Meteorology*, 2015.

1.2 Book Chapters

1. Kabo-bah, A. T., Diji, C. J., & Yeboah, K. A. (2018). Hydropower Generation in West Africa—The Working Solution Manual. In *Sustainable Hydropower in West Africa* (pp. 197-207).
2. Yuebo, X., Kabo-bah, A. T., Kabo-bah, K. J., & Domfeh, M. K. (2018). Hydropower Development—Review of the Successes and Failures in the World. In *Sustainable Hydropower in West Africa* (pp. 53-61).
3. Schafer, N., Megerle, H., & Kabo-bah, A. T. (2018). Socioeconomic Impacts of the Bui Hydropower Dam on the Livelihood of Women and Children. In *Sustainable Hydropower in West Africa* (pp. 121-136).
4. Kabo-bah, Amos T., and Caleb Mensah. "Hydropower and the Era of Climate Change and Carbon Financing: The Case From Sub-Saharan Africa." *Sustainable Hydropower in West Africa*. 2018. 37-51.
5. Kabo-bah A. T. (2012). Repackaging technology transfer for effective adaptation towards climate change in Africa. *energy infrastructure and policy options for a sustainable future*. Institute for Climate Protection, Energy and Mobility; Berlin- Germany.
6. Gumindoga W., Kabo-Bah A. T. (2012) Remote sensing as a support tool for water resources management in Sub-Saharan Africa: a review. In *Remote Sensing: Techniques, Applications and Technologies*. Nova Science Publishers, Inc., USA.

7. Kabo-Bah, A. T. , K. Lis (2011). Climbing the water ladder – the new GIS approach. Geospatial Techniques for Managing Environmental Resources. J. K. Thakur, Singh, S.K., Ramanathan, A., Prasad, M.B.K., Gossel, W. Heidelberg, Germany, Springer and Capital publication: 68-85

1.3 Books

1. Kabo-Bah, A. T., Diawuo F., Antwi, O. E. 2022, Pumped Hydro Energy Storage for Hybrid Systems, Elsevier. (In production)
2. Kabo-Bah, A. T. Chuks J.Diji, 2018. Sustainable Hydropower in West Africa: Planning, Operation and Challenges. ELSEVIER. ISBN:0128130172
3. Kabo-bah A. T. (2012). The Down Syndrome of Management & Governance Norms -The Ordinary Stand-Point. ISBN-10: 1469911264.
4. Kabo-Bah, T. A. (2011) Viability of Increasing Water Tariffs and Its Impact on Users, Lambert Academic Publishing. ISBN-10: 3845404825. Available on Amazon.com.
5. Kabo-Bah, T. A. (2011) Developing Water Quality Modelling Scheme in ILWIS OPEN, Lambert Academic Publishing. ISBN-10: 3845416513. Available on Amazon.com.
6. Kabo-Bah, T. A. (2011) A Rapid Overview of Water Research Projects in the Volta Basin, Lambert Academic Publishing. ISBN-10: 3845402393. Available on Amazon.com

- **Professional Affiliations**

1. Member, African Association of Remote Sensing (ID: 26921975), 2017
2. Member, Ghana Institution of Engineers (05822), 2018
3. Member, American Meteorological Society, 2018
4. Member, American Society of Civil Engineers (ID: 000011859898), 2019

- **Workshops/Conferences and Training (Selected)**

- Invited Speaker, Earth observation technologies for improved water management, IFAT 2022, May 30 to June 3, 2022
- Invited Expert, 2019 Land Use Land Cover Map of Ghana Under the Forest 2020 Project, Forestry Commission Headquarters, Accra 28 January 2021.
- Invited Expert, Africa Regional Data Cube (ARDC) training taking place in Accra from 22-24 May, hosted by the Global Partnership for Sustainable Development Data (GPSDD)
- Programme Board Member, 12th GEO Programme Board Meeting, Geneva, Switzerland, 7-8 February, 2019
- Member, OceanObs'19 Joint Session Meeting, 29-30 March 2019, UNESCO, 7 Place de Fontenoy, 75007 Paris, France
- Programme Board Representative, GEO Data Technology Workshop, 23 Apr - 25 Apr 2019, Vienna, Austria
- Guest Speaker, Climate Change & Geo-information Science Week Celebration on the theme “The Role of Geoscientists’ in the Socio-economic Development of Ghana”, 25 – 31 March 2019, University of Energy and Natural Resources (UENR), Dormaa Campus.
- Co-chair, GEO LDN Initiative Principles Meeting, 29-30 April 2019, UN Campus Bonn, Germany

- Programme Board Member, 8th GEO Programme Board meeting, 31 Jan - 1 Feb 2018, Geneva, Switzerland
- Member, OceanObs'19 Program Committee meeting on March 27-29, 2018 in Washington DC, USA.
- Invited Participant, National Stakeholder Workshop on Disaster Risk Reduction: Organised by NADMO and UNIDR and CIMA Foundation, 19-23rd November 2018, Alisa Hotel, Accra, Ghana
- Invited Speaker, 7th Space Science and Satellite Technology Applications Conference On 19th & 20th November 2018 At All Nations University College Main Campus - Koforidua, GHANA
- Keynote Speaker, 1st International Conference on Geographic and Sustainable Development, Department of Geography and Rural Development, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana- 25-27 July 2018.
- Invited Expert, Stakeholder Engagement on National Forest Monitoring System Framework, Organised by Forestry Commission, 27th September 2018, Mensvic Hotel, Accra – Ghana
- Member, INVITATION TO PEER REVIEW OF COCOA FOREST SEGREGATION, Forests 2020 project – RMSC –Kumasi, 5th November 2018.
- Invited Speaker, 4th ICGPSRO International Conference 2018 in Taipei, Taiwan
- Invited Expert on Water Resources, 3rd Digital Belt and Road Conference (DBAR 2018) from 5th-7th December in Tengchong, Yunnan, China
- Co-Facilitator and Organiser, Workshop on Earth Observation Technology for Effective Natural Resources Management with Focus on Water For Agriculture. WASCAL in collaboration with the European Space Agency's (ESA) TIGER Initiative, University of Twente (ITC) Faculty, GeoVille and University of Energy and Natural Resources, 7-9 June 2017.
- Chairman-LoC, 2nd AfriGEOSS Symposium on Delivering Earth Observations for Policy and Sustainable Societal Impact in Africa, 13th -15th June 2017, Sunyani, Ghana
- Programme Board Member: 1-2 February 2017, GEO Implementation Programme Board Meeting, Geneva-Switzerland
- Participant: 1st AU-ROK STI Workshop (African Union Commission, department of Human Resources, Science and Technology - Republic of Korea, Science, Technology and Innovation Workshop) 2017 in Addis Ababa, Ethiopia from 25 to 27 April 2017
- Steering Committee Member, 25th GCOS Steering Committee Meeting in Hangzhou, China, 25 to 29 September 2017
- Participant: Invited Speaker and Chair of Selected Panel Sessions: 11th AARSE International Conference, 24th to 28th October 2016, Kampala, Uganda
- Participant: Invited Speaker – SSSTA 2016 - The 5th Annual International Conference on Space Science and Satellite Technology Applications – All Nations University, Koforidua-Ghana
- Invited Fellow for Cohort 1: 5 - 7 FEBRUARY 2015, Circle Visiting Fellows Workshop, Nairobi, Kenya
- Invited Expert: 5 -7 May 2015, 2015 GEO Work Plan Symposium, World Meteorological Organization (WMO), Geneva- Switzerland
- Invited Expert: 20-22 April 2015, GEO Water Quality Summit, World Meteorological Organization, Geneva-Switzerland
- Invited Project Lead: 1-25 April 2015, TIGER Capacity Building Tailored Training, University of Twente, Enschede, The Netherlands
- Invited Project Lead: TIGER European Space Agency Programme - Water Observation and Information System for Flood Monitoring, AARSE conference, 29. Oct. – 1. Nov., 2016. Kampala, Uganda.

- Facilitator, 3-7 November 2014, Workshop on Understanding Climate Change with Space Science, University of Energy and Natural Resources, Sunyani-Ghana
 - Facilitator, March 2014, Workshop on Applied Satellite Technology for Integrated Resource Management, University of Energy and Natural Resources, Sunyani-Ghana
 - Facilitator, February 2014, Workshop on GIS for Scientists and Engineers, University of Energy and Natural Resources, Sunyani-Ghana
 - Facilitator, October 28 - 31, 2014, AWARD - Leadership Program for Agricultural Research and Development (LEPARD), Safari Park Hotel in Nairobi, Kenya
 - Invited Project Lead, 27-28 November 2014, TIGER Kick-Off 2014/2015 Workshop, Enschede, The Netherlands
 - Exhibitor, Global Geospatial Conference 2013, UNECA Conference Centre, Addis Ababa, Ethiopia - November 4-8, 2013
 - Invited Expert, April 2013, 3rd Space Science and Satellite Technology Workshop, All Nations University College, Koforidua-Ghana
 - Facilitator, September 27, 2013, GEONETCast workstation for energy and natural resources management, University of Energy and Natural Resources, Sunyani-Ghana
 - Participant, October 15-18, 2013, OWSD Africa Regional Conference "Climate Change and its Impact on Africa", Tyco Hotel, Sunyani-Ghana
 - Participant, November 4-8, 2013, Global Geospatial Conference 2013, UNECA Conference Center, Addis Ababa, Ethiopia
 - Participant, 3-5 December 2013, Africa Space Science Leadership Forum, La Palm Beach Hotel, Accra
 - Participant, 2-6 December 2013, Workshop on Methods of Teaching and Assessing Students, University of Energy and Natural Resources, Sunyani-Ghana
 - Co-Facilitator, 7-9 December 2013. Workshop on Early Warning Systems, UENR Auditorium, Sunyani-Ghana.
- **Funding**
 - Co-Investigator, €6.5m Levels Up local markets by utilizing biogenic residues- Joint project between University of Applied Forest Sciences -Rottenburg and University of Energy and Natural Resources, Ghana starting in November 2022.
 - Principal investigator, Scholarships and Exchange Fund €290,000.00 for Postgraduate students in Land degradation neutrality with first cohort starting in January 2023.
 - Principal Investigator, EORIC Co-location Service for SPIRE/MBS USA, May 2021 to May 2026. UENR to benefit USD4,600.00 monthly for the project period.
 - Principal Investigator, Advanced Fire Information System for Alerts for farmers, GHc245,000 Skill Development Fund Support –Government of Ghana – 1 January 2019 to December 2019.
 - 1 January 2017 - Present: Constellation Observing System for Meteorology, Ionosphere, and Climate (COSMIC) -2 Ghana Programme Coordinator - Establishment of Ground Station in Support of Numerical Weather Forecasting for West Africa Region. A programme supported by NOAA and Taiwan Space Agency about \$1.2million.
 - February 2016 - Present: Ghana Carbon Programme - Programme Coordinator: Establishment of Eddy Covariance Tower for Climate Change Studies for Ghana. Programme Supported by the Global Change Research Centre in Czech Republic. This project is worth 400,000 Euros.

- Co-PI and Ghana Coordinator - Researching together, learning from each other: Exchange in research and teaching between UENR, Ghana and HFR, Baden-Württemberg, Germany fund of 132 000 € || 1st November 2016 to 31st October 2019.
- Co-PI, £3000.00 from the University of Exeter/University of Energy and Natural Resources UK Global Challenges Research Fund project entitled “Sustainable Infrastructure Needs Basic Data (SINBaD) || 1 September 2017 until 30 March 2017
- 2015-2016. Project Leader, Establishment of a \$250,000 Funding from the Skills Development Fund of Ghana towards the building of Ground Reception for Receiving Satellite Data for Wild Fire Monitoring for West Africa. Project further led to the establishment of the BSc Programme in Fire and Disaster Management Programme at the University. This project led to the full establishment of the functional a World Class Centre of the University - Earth Observation Research and Innovation Centre.
- March 2015: Project Leader, \$50000 Grant for Baseline Assessment of Black Volta Basin Socio-Ecological Production Landscape and Waterscape in Ghana - Project Sponsored by UNDP GEF Small Grants Programme.

- **Community Service**

- External Examiner, BSc Civil Engineering, Accra Institute of Technology (AIT), Ghana, 2016 – Present
- External Assessor, Doctoral Thesis, Tshwane University of Technology, South Africa, 2017-2018/2020
- External Assessor, Master and Doctoral Theses, Kwame Nkrumah University of Science and Technology (KNUST), 2017-Present
- Internal Assessor, Master and Doctoral Theses, University of Energy and Natural Resources, Sunyani, Ghana, 2017-Present
- Editor, Information Technology and Engineering Section - Scientific African, Elsevier.
- Board Member, Afram Plains Development Organisation, Donkorkrom, Easter Region, Ghana
- Associate Editor, Journal of Energy and Natural Resource Management (ISSN: 2026-6189), Sunyani, Ghana
- Editorial Member, Oriental Journal of Chemistry, (ISSN: 0970 - 020X, ONLINE ISSN: 2231-5039), Madhya Pradesh, India
- Advisory Board Member, Space Science Systems Research Institute, Accra, Ghana
- Founder, Green WaterHut, Sunyani, Ghana
- Co-Founder, Ecoyouth Africa Initiative, Ghana

- **Prizes and Awards**

1. 2019: Geospatial Excellence Award -Sambus Geospatial Ltd -Ghana
2. 2016: **Gold Medal - Outstanding Staff** - University of Energy and Natural Resources at Maiden Congregation Opened by the President of Ghana - John Dramani Mahama.
3. 2009: The special award "**Developing a GUI for Modelling the Water Quality of the 52°North Dinkel River**". 52 North Initiative for Geospatial Open-Source Software GmbH.

- **Languages**

- English: Native Language

- Chinese: Beginner Learner
- Twi: Intermediate Listener

- **Skills and Competencies**
- International Relations and Networking
- Negotiation and Leadership
- Public Speaking
- Consulting

- **Hobbies/Interests**
- Reading, Poetry and Writing
- My favourite personal book - My Life, Your Story