Benjamin Apraku Gyampoh

Lecturer · Department of Fisheries and Watershed Management
Kwame Nkrumah University of Science and Technology

ORCID 0000-0003-2069-7071 · Homepage webapps.knust.edu.gh/staff/dirsearch/profile/summary/368f65eafb69.html · Google Scholar scholar.google.com/citations?user=Jn14ANsAAAAJ&hl=en · Profile knust.peerford.com/staff/62c72729-738d-48eb-a9d0-963cfbda4ced

RESEARCH

Interests	Watershed Mgt · Climate Sciences · Environmental Systems · Groundwater Hydrology · Ecosystem Resilience
Areas	Ecology · Ecology, Evolution, Behavior and Systematics · Global and Planetary Change · Aquatic Science · Nature and Landscape Conservation · Management, Monitoring, Policy and Law

RESEARCH SUMMARY

43	920	15	19	2.70	36%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 43 publications listed below, 2007–2026. Field-weighted impact is the mean over the 22 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 22 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2018–present
Fisheries and Watershed Management, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Programme Manager 2012–present
Programmes - Climate Change, African Academy of Sciences, Nairobi, Kenya

Research Officer 2009–2012
International Water Management Institute, Accra, Ghana

EDUCATION AND QUALIFICATIONS

PhD Watershed Management 2005–2009
Fisheries Science and Watershed Management, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Fellow 2020–present
Africa Research and Impact Network (ARIN), Nairobi, Kenya

Member 2019–present
Ghana Science Association, Kumasi, Ghana

Affiliate Lecturer 2014–present
Institute for Climate Change and Adaptation, University of Nairobi, Nairobi, Kenya

Member 2009–present
African Forest Forym, Nairobi, Kenya

PUBLICATIONS

Journal articles 37

1. **Benjamin Apraku Gyampoh**, Patience Enyonam Akoto, Wonder Sekey, Emmanuel Xorla Xatse, Hubert Klenam Woclarchie, Benjamin Betey Campion (2026). Dissolved oxygen and pH as hydrological connectivity indicators for mangrove restoration site assessment: Evidence from a tidally attenuated Ramsar lagoon in Ghana. *Ecohydrology & Hydrobiology*. https://doi.org/10.1016/j.ecohyd.2026.100817
2. G Ashiagbor, **BA Gyampoh** (2026). Ecohydrological risk assessment model for the Pra River Basin using GIS and multi-criteria decision making. *International Journal of River Basin Management*.
3. **Benjamin Apraku Gyampoh**, Hubert Klenam Worclachie, Patience Enyonam Akoto, Emmanuel Xorla Xatse, Benjamin Betey Campion (2026). Local engagement and mangrove conservation in the Keta Lagoon Complex Ramsar Site (KLCRS), Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2026.e03485
4. **Benjamin Apraku Gyampoh**, P Osei-Tutu, CA Nsor, E Acquah (2026). Soil Nutrient Dynamics in a Five-Year Agroforestry System on Gold Mine Tailings. *Trees, Forests and People*. https://www.sciencedirect.com/science/article/pii/S2666719326001639
5. George Ashiagbor, Magdalene Sackey, **Benjamin A. Gyampoh** (2024). Ecohydrological risk assessment model for the Pra River Basin using GIS and multi-criteria decision making. *International Journal of River Basin Management*. https://doi.org/10.1080/15715124.2024.2411237
6. Kwasi Adu Obirikorang, Wonder Sekey, Sedinam Amenutsuor-Vondee, Enock Kweku-Akagbo, Daniel Adjei-Boateng, Jemimah Etornam Kassah, **Benjamin Apraku Gyampoh** (2023). Functional feeding traits and fecundity as predictors of invasive success of the introduced Nile tilapia, Oreochromis niloticus in Lake Bosomtwe, Ghana. *Biological Invasions*. https://doi.org/10.1007/s10530-023-03029-z
7. Kwasi Adu Obirikorang, Tabitha Adinorkwor Alimo, Wonder Sekey, **Benjamin Apraku Gyampoh**, Jemimah Etornam Kassah, Jedida Osei Bediako, Gifty Anane-Taabeah (2023). Influence of migrant Western Regional shark fishers on shark fishing practices along the eastern coastline of Ghana. *Regional Studies in Marine Science*. https://doi.org/10.1016/j.rsma.2023.103316
8. Wonder Sekey, Kwasi Adu Obirikorang, Kwadwo Boakye Boadu, **Benjamin Apraku Gyampoh**, Angela Nantwi-Mensah, Elizabeth Yeboah Israel, Oparebea Asare-Ansah, George Ashiagbor, Daniel Adjei-Boateng (2023). Mangrove plantation and fuelwood supply chain dynamics in the Keta Lagoon Complex Ramsar Site, Ghana. *Wetlands Ecology and Management*. https://doi.org/10.1007/s11273-022-09906-z
9. **BA Gyampoh** (2022). Effect of road conditions on physiological stress responses and post-transportation growth and survival of Nile tilapia (Oreochromis niloticus) fingerlings. *Journal of Applied Aquaculture*.
10. Wonder Sekey, Kwasi Adu Obirikorang, Tabitha Adinorkwor Alimo, Martin Soku, Benjamin Acquah, **Benjamin Apraku Gyampoh**, Daniel Adjei-Boateng, Oparebea Asare-Ansah, George Ashiagbor, Jemimah Etornam Kassah (2022). Evaluation of the shark fisheries along the Coastline of Ghana, West Africa. *Regional Studies in Marine Science*. https://doi.org/10.1016/j.rsma.2022.102434
11. Kwasi Adu Obirikorang, Emmanuel Nkwantabisa Opoku, **Benjamin Apraku Gyampoh** (2022). Feed Digestion, Growth and Disease Prevalence in Nile Tilapia (Oreochromis niloticus) Cultured at Different Water Exchange Rates in a Recirculating Aquaculture System. *Aquaculture Studies*. https://doi.org/10.4194/aquast565
12. Obed M. Ogega, George Lakey, Rowland Opisa, **Benjamin Apraku Gyampoh** (2022). Strengthening climate research capacity in Africa: lessons from the 'Climate impact research capacity leadership enhancement' project. *Regional Environmental Change*. https://doi.org/10.1007/s10113-022-01997-x
13. Amos Apraku, **Benjamin Apraku Gyampoh**, John F. Morton, Akosua Bonsu Karikari (2022). Water security in rural Eastern Cape, SA: Interrogating the impacts of politics and climate change. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01493
14. Kwasi Adu Obirikorang, Wonder Sekey, **Benjamin Apraku Gyampoh**, George Ashiagbor, Winston Asante (2021). Aquaponics for Improved Food Security in Africa: A Review. *Frontiers in Sustainable Food Systems*.

https://doi.org/10.3389/fsufs.2021.705549

15. Amos Apraku, John F. Morton, **Benjamin Apraku Gyampoh** (2021). Climate change and small-scale agriculture in Africa: Does indigenous knowledge matter? Insights from Kenya and South Africa. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00821
16. Ebunoluwa O. Ajagun, George Ashiagbor, Winston A. Asante, **Benjamin A. Gyampoh**, Kwasi A. Obirikorang, Emmanuel Acheampong (2021). Cocoa eats the food: expansion of cocoa into food croplands in the Juabeso District, Ghana. *Food Security*. https://doi.org/10.1007/s12571-021-01227-y
17. Godwin P. Cudjoe, Phillip Antwi-Agyei, **Benjamin A. Gyampoh** (2021). The Effect of Climate Variability on Maize Production in the Ejura-Sekyedumase Municipality, Ghana. *Climate*. https://doi.org/10.3390/cli9100145
18. Winston Adams Asante, Gabriel Ahoma, **Benjamin Apraku Gyampoh**, Boateng Kyereh, Richard Asare (2021). Upper canopy tree crown architecture and its implications for shade in cocoa agroforestry systems in the Western Region of Ghana. *Trees Forests and People*. https://doi.org/10.1016/j.tfp.2021.100100
19. Maina J, Wandiga S, **Gyampoh B**, Charles KKG (2020). Assessment of Land Use and Land Cover Change Using GIS and Remote Sensing: A Case Study of Kieni, Central Kenya. https://doi.org/10.35248/2469-4134.20.9.270
20. Obed M. Ogega, **Benjamin A. Gyampoh**, Christopher Oludhe, James Koske, James B. Kung'u (2020). Building on foundations for climate services for sustainable development: A case of coastal smallholder farmers in Kilifi County, Kenya. *Climate Services*. https://doi.org/10.1016/j.cliser.2020.100200
21. Kwasi Adu Obirikorang, Anthea Georgina Ama Ofori, **Benjamin Apraku Gyampoh** (2020). Dominance hierarchies within different size groupings of Nile tilapia (Oreochromis niloticus) and effects on growth and physiological responses. *African Zoology*. https://doi.org/10.1080/15627020.2020.1756909
22. Kwasi Adu Obirikorang, Esther Adu Yeboah, **Benjamin Apraku Gyampoh**, Seyram Kwadzo Amanie-Adjei (2020). Effect of road conditions on physiological stress responses and post-transportation growth and survival of Nile tilapia (Oreochromis niloticus) fingerlings. *Journal of Applied Aquaculture*. https://doi.org/10.1080/10454438.2020.1825269
23. M Ansong, **BA Gyampoh** (2020). First report of aquaculture-mediated introduction of the Nile tilapia, Oreochromis niloticus (Linnaeus, 1758) into Lake Bosomtwe, Ghana. *BioInvasions Record*. https://www.reabic.net/journals/bir/2020/4/BIR_2020_Obirikorang_etal.pdf
24. Obed M. Ogega, **Benjamin A. Gyampoh**, Malcolm N. Mistry (2020). Intraseasonal Precipitation Variability over West Africa under 1.5 °C and 2.0 °C Global Warming Scenarios: Results from CORDEX RCMs. *Climate*. https://doi.org/10.3390/cli8120143
25. **BA Gyampoh** (2020). Understanding the neglected shellfish fishery of the Keta Lagoon, Ghana. *Journal of Fisheries and Coastal Management*. https://www.researchgate.net/profile/Kwasi-Obirikorang/publication/342380286_Understanding_the_neglected_shellfish_fishery_of_the_Keta_Lagoon_Ghana/links/5ef1cd02299bf1faac6f4a0c/Understanding-the-neglected-shellfish-fishery-of-the-Keta-Lagoon-Ghana.pdf
26. **B Gyampoh** (2019). Analysis of average annual rainfall and average maximum annual temperature for a period of 30 years to establish trends in Kieni, Central Kenya. *Climatol weather forecasting*. https://www.academia.edu/download/94769285/analysis-of-average-annual-rainfall-and-average-maximum-annual-temperature-for-a-period-of-30-years-to-establish-trends-.pdf
27. Faith Nyangute Saalu, Silas Oriaso, **Benjamin Gyampoh** (2019). Effects of a changing climate on livelihoods of forest dependent communities. *International Journal of Climate Change Strategies and Management*. https://doi.org/10.1108/ijccsm-01-2018-0002
28. **B Gyampoh** (2012). Water implications of large-scale land acquisitions in Ghana. *Water Alternatives*. https://www.academia.edu/download/39227264/543696aa0cf2bf1f1f2be3e6.pdf
29. **BA Gyampoh** (2011). Deforestation in Ghana: Government's incentives and policies. *See: https:// benjigyampoh. blogspot. com/2011/10/deforestation-in-ghana-governments. html. Accessed December*.

https://scholar.google.com/scholar?cluster=9213956477746962662&hl=en&oi=scholarr

30. **BA Gyampoh**, WA Asante (2011). Mapping and documenting indigenous knowledge in climate change adaptation in Ghana. *Africa Adaptation Programme Rep*. https://www.researchgate.net/profile/Benjamin-Gyampoh/publication/281741251_MAPPING_AND_DOCUMENTING_INDIGENOUS_KNOWLEDGE_IN_CLIMATE_CHANGE_ADAPTATION_IN_GHANA/links/55f680f108ae6a34f6633f6f/MAPPING-AND-DOCUMENTING-INDIGENOUS-KNOWLEDGE-IN-CLIMATE-CHANGE-ADAPTATION-IN-GHANA.pdf

31. **Benjamin Apraku Gyampoh** (2010). Dealing with reducing trends in forest ecosystem services through a vulnerability assessment and planned adaptation actions. *African Journal of Environmental Science and Technology*. https://www.academia.edu/download/101896282/article1380209772_Idinoba_et_al.pdf

32. **BA Gyampoh**, S Amisah (2009). Aplicando los conocimientos tradicionales para afrontar el cambio climático en zonas rurales de Ghana. *Unasylva: Revista Internacional de Silvicultura e Industrias Forestales*. https://www.fao.org/4/i0670s/i0670s14.pdf

33. **BA Gyampoh**, S Amisah (2009). Using traditional knowledge to cope with climate change in rural Ghana. *Unasylva*. https://www.academia.edu/download/71747209/Using_traditional_knowledge_to_cope_with20211007-13499-1gdi9ws.pdf

34. **BA Gyampoh**, S Amisah (2009). Utiliser le savoir traditionnel pour s' adapter aux changements climatiques dans le Ghana rural. *Unasylva*. https://www.fao.org/4/i0670f/i0670f14.pdf

35. **BA Gyampoh** (2008). Coping with climate change: HOW local communities use traditional knowledge in rural Ghana. Adaptation of Forest and Forest Management to Changing Climate with Emphasis on …. *A Review of Science, Policies and Practices Workshop*. https://scholar.google.com/scholar?cluster=17308089160799992446&hl=en&oi=scholarr

36. **BA Gyampoh**, S Amisah (2008). Water scarcity under a changing climate in Ghana: Options for livelihoods adaptation. *Development*. https://doi.org/10.1057/dev.2008.46

37. **BA Gyampoh**, S Amisah (2007). Adapting watersheds to climate change and variability in West Africa-the case of Offin River basin in Ghana. *Proceedings, Third International Conference on Climate and Water*. https://helda.helsinki.fi/server/api/core/bitstreams/ca412ed4-02c0-4c6c-8fb7-23d9c3872a7b/content#page=205

Book chapters 3

1. **Benjamin Apraku Gyampoh** (2018). Promoting Research in Sustainable Energy in Africa—The CIRCLE Model. *Elsevier eBooks*. https://doi.org/10.1016/b978-0-12-813016-2.00002-2

2. **BA Gyampoh** (2011). Forest goods vulnerability to climate change in West Africa: Voices from local communities on medicinal plants and prescribed actions for adaptation. *ustainable Forest Management in Africa: Some Solutions to Natural Forest Management Problems in Africa. Proceedings of the Sustainable Forest Management in Africa Symposium.*.

3. **BA Gyampoh** (2011). THE SUSTAINABLE FOREST MANAGEMENT PUZZLE: POLICIES, LEGISLATION, DEFORESTATION AND THE CLIMATE CHANGE ISSUE IN GHANA. *SUSTAINABLE FOREST MANAGEMENT IN AFRICA: Some Solutions to Natural Forest Management Problems in Africa*.

Conference papers 2

1. **B Gyampoh** (2009). Dealing with limitation of forest ecosystem services through a vulnerability assessment and planned adaptation actions. *Unknown host publication*. https://researchportal.helsinki.fi/en/publications/dealing-with-limitation-of-forest-ecosystem-services-through-a-vu/

2. **B Gyampoh** (2008). A framework for vulnerability assessment of non-timber forest goods for planning adaptation to climate change and variability in West Africa. *Unknown host publication*. https://researchportal.helsinki.fi/en/publications/a-framework-for-vulnerability-assessment-of-non-timber-forest-goo/

Reports 1

1. Akwasi Acheampong, AFA Marfo, **BA Gyampoh**, AO Antwi, MK Baah, E Bessah, Gordon A Awandare (2021). Scientific African. *Scientific African*. https://www.researchgate.net/profile/Temitope-D-Timothy-Oyedotun/publication/356402866_Household_Waste_Generation_Change_in_Waste_Composition_and_the_Exposure_to_COVID-19_in_Guyana_and_Nigeria/links/619fb8b1d7d1af224b241a9b/Household-Waste-Generation-Change-in-Waste-Composition-and-the-Exposure-to-COVID-19-in-Guyana-and-Nigeria.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail