

CURRICULUM VITAE

PERSONAL INFORMATIO

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SUMMARY PROFILE

Dr. Barbara Gyapong-Korsah is an Occupational and Environmental Health and Safety Lecturer at the School of Public Health of the Kwame Nkrumah University of Science and Technology (KNUST). Before her appointment as a lecturer, she served as the Grants and Research Manager at the College of Sciences at KNUST. She provided research/project management expertise and administrative support services to fund research/project activities in the colleges, ensuring their successful implementation. Dr. Gyapong-Korsah is also a Community Development Specialist with over eight (8) years of experience in Water, Sanitation, and Hygiene (WASH) Projects. She has extensive experience in using Participatory Learning and Action (PLA) for democratic problem-solving, decision-making, and development in communities; community mobilization/development; participatory project planning and management; adult training; capacity building; participatory monitoring and evaluation; and strong facilitation skills.

BACKGROUND AND EXPERIENCES

A. EDUCATION

Name of University Attended	Start - Complete Date	Type of Degree/Diploma
Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana	September 2019 – November, 2023	Doctor of Philosophy Degree in Environmental Sanitation and Waste Management
Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana	August 2007- July 2009	Master's Degree in Water Supply and Environmental Sanitation
University of Cape Coast (UCC), Cape Coast, Ghana	September 2003- June 2005	BSc Degree in Chemistry/Biology
University of Cape Coast (UCC), Cape Coast, Ghana	September 1999 -July 2003	Diploma in Laboratory Technology

B. EMPLOYMENT HISTORY

Employer's Name & Address	Position & Responsibilities	Duration (from/to)
Kwame Nkrumah University of Science and Technology, KNUST	Lecturer. Deliver lectures, practical training and supervise postgraduate thesis.	December 2024 to date
Kwame Nkrumah University of Science and Technology, KNUST	Grants and Research Manager, provided provided research/project management	February 2022 to November 2024

	expertise and administrative support services to fsponsored research/ projects.	
Office of the Provost College of Health Sciences KNUST	Research Administrator, provided research/project management expertise and administrative support services to sponsored research/ projects.	April 2021 – February 2022
Office of the Provost College of Engineering, KNUST	Research Manager, supported PIs in proposal development and administrative support to funded research projects.	March 2014 to 2018
Otumfuor Charity Foundation	Volunteer Project Manager, Coordinated all projects under the water and environment theme.	2012-2013
Care International Ghana	Project Officer. Worked with project manager, project coordinator, Consultant and the M&E officer to implement the Innovation for Marginalised Girls Education (IMAGE) project	2010-2012

C. PUBLICATIONS

1. Appiah-Effah, E., Acquah, E., Duku, G. A., **Gyapong-Korsah, B.**, Essandoh, H. M. K., & Kuffour, R. A. (2026). Bench-scale evaluation of sand-only and sand-activated carbon filtration for treating handwashing greywater from basic schools in Oforikrom Municipality, Kumasi, Ghana. *Next Sustainability*, 8, 100391.
2. Adjei-Nimoh, S., Appiah-Effah, E., Akodwaa-Boadi, K., & **Gyapong-Korsah, B.** (2026). Design and evaluation of a scalable decentralised greywater treatment technology for reuse, towards climate and WASH resilient urban communities. *Next Sustainability*, 7, 100246.
3. **Gyapong-Korsah, B.**, Duku, G. A., Appiah-Effah, E., Kunkuaboor, Y. C., Boakye, P., Akodwaa-Boadi, K., & Nyarko, K. B. (2026). Greywater quantities and qualities in low-income Kumasi, Ghana: Implications for sustainable water management. *PLOS Water*, 5(1), e0000398.
4. Tawiah, P. A., Appiah-Brempong, E., Okyere, P., **Gyapong-Korsah, B.**, Agyekum, T. P., Asumah, P. A., ... & Asiedu, F. O. (2026). What predicts mucocutaneous exposure among health workers? Insights from an analytical cross-sectional study of 10 major hospitals in the Greater Accra region, Ghana. *One Health*, 101387.
5. Duku, G. A., Bonso, N. K., Appiah-Effah, E., Kunkuaboor, Y. C., Nouwati, E., **Gyapong-Korsah, B.**, ... & Nyarko, K. B. (2025). Achieving universal sanitation in Ghana: An analysis of key drivers of toilet ownership among property owners in Urban areas. *Plos one*, 20(1), e0307729.
6. Duku, G. A., Appiah-Effah, E., **Gyapong-Korsah, B.**, Wulet, A. A., & Nyarko, K. B. (2026). Socioeconomic and geographic inequalities in access to improved drinking water among rural households in Ghana: Evidence from the 2017/18 Multiple Indicator Cluster Survey.
7. Ofori-Amanfo, D., Appiah-Effah, E., **Gyapong-Korsah, B.**, Awuah, E., Essandoh, H. M., Appiah-Brempong, M., & Ahmed, I. (2025, September). Characterisation and Fertiliser Potential of Mechanically Dewatered Faecal Sludge from Anaerobic Digestion. In *Waste* (Vol. 3, No. 4, p. 31). MDPI.
8. Barnie, B., Aboh, F. A., Adjei, K. G. A., & **Gyapong-Korsah, B.** (2025). Opportunities and Constraints in Advancing Research Management: An Account of Ghanaian Tertiary Institutions. *Journal of Research Management and Administration*, 4(1), 2025020601-2025020601.
9. **Gyapong-Korsah, B.**, Duku, G. A., Appiah-Effah, E., Boakye, K., Dwumfour-Asare, B., Essandoh, H. M. K., & Nyarko, K. B. (2023). Greywater generation and reuse among residents of low-income urban settlements in the Oforikrom Municipal Assembly, Ghana. *Journal of Water, Sanitation and Hygiene for Development*, 13(8), 551-565.

10. Brenyah, J. K., Kyei-Dompim, J., Koranteng Tannor, E., Twum, P., Boakye Okyere, P., **Gyapong-Korsah, B.**, ... & Agyare, C. (2023). Assessment of non-communicable diseases screening practices among university lecturers in Ghana—a cross sectional single centre study. *F1000Research*, 12, 746.
11. Appiah-Effah, E., Duku, G. A., Azangbego, N. Y., Aggrey, R. K. A., **Gyapong-Korsah, B.**, & Nyarko, K. B. (2019). Ghana's post-MDGs sanitation situation: an overview. *Journal of Water, Sanitation and Hygiene for Development*, 9(3), 397-415.

D. REFREES

Name	Contact Address	Phone No.	Email:
Professor. Kwabena Biritwum. Nyarko	Provost College of Engineering KNUST, Kumasi, Ghana	0208165515	nyarko.k.b@gmail.com
Professor Christian Agyare	Provost College of Health Sciences KNUST, Kumasi, Ghana	0208165506	sikampadu@yahoo.co.uk
Professor Peter Donkor	Former Director Office of Grants and Research (OGR) Office of the Vice-Chancellor KNUST Kumasi, Ghana	0208164427	Petadonkor@yahoo.com