

PHILIP APRAKU TAWIAH

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Volta region, Ghana, West Africa

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SUMMARY OF QUALIFICATION AND EXPERIENCE

Philip Apraku Tawiah is a Laboratory Technologist, Junior Level Researcher and Research Data Analyst. He recently completed his PhD Public Health programme at Kwame Nkrumah University of Science and Technology, Kumasi. Philip also holds Master of Public Health and Bachelor of Science in Laboratory Technology degrees from the University of Ghana and University of Cape Coast, respectively. Philip has vast knowledge and experience in quantitative and qualitative research methodologies and has published articles in the area of infectious diseases, non-communicable diseases and occupational health. Also, he has taken several professional development courses related to public health, epidemiology and biostatistics. Dr. Apraku Tawiah has vast experience in teaching, design of studies, development of electronic questionnaire (Google form and Kobo Collect), data analysis using STATA Statistical software, writing manuscripts for publication and peer reviewer for some international journals.

RESEARCH INTEREST

- Occupational Health and Safety
- Infectious Diseases, Prevention and Control
- Musculoskeletal Disorders
- Employee Turnover and Retention
- Workplace Violence and Harassment
- Non-communicable Diseases (Mental Health)

EDUCATION

- Kwame Nkrumah University of Science and Technology Kumasi, Ghana
November 2024
Ph.D. Public Health
Dissertation: "Exposure to Selected Occupational Health Hazards among Healthcare Providers and Ancillary Staff in the Greater Accra region of Ghana"
Sub-specialization: Occupational and Environmental Health & Safety
- University of Ghana Accra, Ghana
December 2018
Master of Public Health (MPH)
Concentration: Biological, Environmental and Occupational Health Sciences
Dissertation: "Prevalence and Risk Factors of Hepatitis B virus infection among Medical Laboratory Science Students in the University of Health and Allied Sciences, Ho, Volta region, Ghana."
- University of Cape Coast Cape Coast, Ghana
May 2012
B. Sc., Laboratory Technology
Concentration: Biology, Chemistry, Physics and Mathematics
Dissertation: "Construction of a Tone Generator"

RESEARCH EXPERIENCE

Doctoral Student

Department of Occupational and Environmental Health, School of Public Health, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

- Developed and published a scoping review protocol on occupational health workers among health workers in Ghana.

- Published a scoping review work on exposure to occupational health hazards among healthcare professionals and ancillary staff in Ghana.
- Wrote and published articles on needlestick injuries, splash of body fluids, and workplace violence among healthcare support staff in Ghana.

Graduate Student

Department of Biological, Environmental and Occupational Health Sciences, School of Public Health, University of Ghana, Kumasi, Ghana.

- Published an article on prevalence and risk factors of hepatitis B among medical laboratory science of a tertiary institution.
- Re-analyzed thesis data, drafted and published an article on the occupational exposure to blood and body fluids among medical laboratory science students.

PROFESSIONAL DEVELOPMENT TRAINING

- ALX AiCE – Artificial Intelligence (AI) Career Essentials on March 4 – April 16, 2024.
- Art of Academic Writing Summer School, organized by University of Ghana and Amsterdam UMC, University of Amsterdam on August 1-5, 2021
- Epidemiology in Public Health Practice, organized by John Hopkins University, USA on June 30 – August 11, 2020
- Biostatistics in Public Health Practice, organized by John Hopkins University, USA on August 20 – November 7, 2020
- Survey Data Collection and Analytics, organized by University of Maryland and University of Michigan on September 4 – October 29, 2018
- Leadership and Management in Health, organized by University of Washington, Washington, USA on April 9 – June 25, 2018
- Clinical Management of Human Immunodeficiency Virus, organized by University of Washington, Washington, USA on March 27 – May 29, 2018
- Introduction to Epidemiology for Global health, organized by University of Washington, Washington, USA on January 31 – April, 2018
- Implementation Research on diseases of poverty, organized by World Health Organization on January 31 – April 9, 2018.
- Data Quality, Social and Behaviour Change for Nutrition, organized by John Hopkins Bloomberg School of Public Health, USA on September 9 – 16, 2018.
- Research Writing in the Sciences, organized AuthorAID INASP on September 3 – October 28, 2018.

SELECTED COURSEWORK

Essentials of Public Health, Essentials of Environment and Occupation on Human Health, Principles of Epidemiology, Advanced Epidemiology, Methods in Biostatistics, Research Methods in Public Health, Population Studies and Reproductive Health, Health systems, Behavioural Sciences, Disease Control, Water Supply and Sanitation, Occupational Health, Global Health, Infection and Immunity, Environmental Health, Food Science, Laboratory Instrumentation, Laboratory Organization and Administration, Safety and Health in Work Environment, and Academic Writing.

HONORS AND AWARDS

- Ph.D. Partial Tuition Fee Scholarship, GETFund Ghana January 2022 – October 2023

SELECTED PUBLICATIONS

Journal Papers

1. **Tawiah, P. A.**, Appiah-Brempong, E., Okyere, P., Adu-Fosu, G. and Ashinyo, M. E. (2025) Prevalence, Predisposing Factors, and Turnover Intention Related to Low Back Pain among Health Workers in Accra, Ghana. PLOS ONE, 20 (1) January, p. e0317582.

2. **Tawiah, P.A.**, Appiah-Brempong, E., Okyere, P. and Ashinyo, M.E. 2024. Exposure to needlestick injury among healthcare support staff in Greater Accra, Ghana: a cross-sectional study. *BMJ Public Health*. 2(1), p.e000681.
3. **Tawiah, P. A.**, Appiah-Brempong, E., Okyere, P., & Ashinyo, M. E. (2024). Splash of body fluids among healthcare support staff in Ghana: A cross-sectional study. *SAGE Open Medicine*, 12, 20503121241234473. <https://doi.org/10.1177/20503121241234473>
4. **Tawiah, P. A.**, Appiah-Brempong, E., Okyere, P., Adu-Fosu, G., & Ashinyo, M. E. (2024). Prevalence, risk factors and psychological consequences of workplace violence among health workers in the Greater Accra region, Ghana: A cross-sectional study. *BMC Public Health*, 24(1), 563. <https://doi.org/10.1186/s12889-024-17962-8>
5. **Tawiah, P. A.**, Baffour-Awuah, A., Effah, E. S., Adu-Fosu, G., Ashinyo, M. E., Alhassan, R. K., Appiah-Brempong, E., & Afriyie-Gyawu, E. (2022). Occupational health hazards among healthcare providers and ancillary staff in Ghana: A scoping review. *BMJ Open*, 12(10), e064499. <https://doi.org/10.1136/bmjopen-2022-064499>
6. **Tawiah, P. A.**, Baffour-Awuah, A., Appiah-Brempong, E., & Afriyie-Gyawu, E. (2022). Identifying occupational health hazards among healthcare providers and ancillary staff in Ghana: A scoping review protocol. *BMJ Open*, 12(1), e058048. <https://doi.org/10.1136/bmjopen-2021-058048>
7. **Tawiah, P. A.**, Abaka-Yawson, A., Effah, E. S., Arhin-Wiredu, K., & Oppong, K. (2022). Prevalence and risk factors of hepatitis B virus infection among medical laboratory science students in a Ghanaian tertiary institution. *Journal of Health Research*, 36(3), 442–452. <https://doi.org/10.1108/JHR-06-2020-0191>
8. **Tawiah, P. A.**, Arhin-Wiredu, K., Oppong, K., Torgbor, B. N., Konadu, P. E., & Abaka-Yawson, A. (2021). Socio-demographic characteristics influencing knowledge, attitude and preventive practices of COVID-19 among Ghanaians: A cross-sectional study. *Annals of Antivirals and Antiretrovirals*, 5, 019–027. <https://doi.org/10.17352/aaa.000012>
9. **Tawiah, P. A.**, Oppong, K., Effah, E. S., Abaka-Yawson, A., & Arhin-Wiredu, K. (2020). Occupational Exposure to Blood and Body Fluids among Medical Laboratory Science Students of the University of Health and Allied Sciences during Vocational Internship in the Volta Region of Ghana. *The Scientific World Journal*, 2020. <https://doi.org/10.1155/2020/4878315>
10. Kwadzokpui, P. K., Akorsu, E. E., Abaka-Yawson, A., Quarshie, S. S., Amankwah, S. A., & **Tawiah, P. A.** (2020). Prevalence and Knowledge of Hepatitis B Virus Infection among Pregnant Women in the Ningo-Prampram District, Ghana. *International Journal of Hepatology*, 2020, 7965146. <https://doi.org/10.1155/2020/7965146>

SCIENTIFIC PRESENTATION

1. **Poster Presentation** on the topic, “Predisposing factors and turnover intention effects of low back pain among health workers in selected hospitals in the Greater Accra region, Ghana” at 10th Biennial Scientific Conference held at Kwame Nkrumah University of Science and Technology, Kumasi, Ghana on September 27 – 28, 2023
2. **Oral Presentation** on the topic, “Prevalence, risk factors and consequences of workplace violence among workers of the healthcare industry of Ghana” at The International Conference on Science, Technology and Health Innovation for Sustainable Development, organized by University of Energy and Natural Resources, Sunyani, Ghana on August 23 – 25, 2023
3. **Oral Presentation** on the topic, “Prevalence and risk factors of hepatitis B virus infection among medical laboratory science students of the University of Health and Allied Sciences, Ho at a sensitization of hepatitis B vaccination program on September 28, 2019

TEACHING EXPERIENCE

1. Kwame Nkrumah University of Science and Technology Kumasi, Ghana
Lecturer December 2024 – Date
Lectures graduate students in the department of occupational and environmental health & safety.
2. University of Health and Allied Sciences, School of Pharmacy Ho, Ghana
Laboratory Technologist September 2017 – September 2018

Lectured Pharmacy Students on safety rules and procedures

3. Adonten Senior High School, Science Department Aburi, Ghana
Tutor and Science Resource Centre Coordinator September 2014 – October 2016
 - a) Tutored students in Biology, Physics and Integrated Science
 - b) Supervised students during preps and other activities

PROFESSIONAL EXPERIENCE

1. University of Health and Allied Sciences, School of Pharmacy Ho, Ghana
Laboratory Technologist November 2016 – Present
 - a) Set up laboratory and organization of practical lessons for students
 - b) Supervise students during practical lessons.
 - c) Managed school of pharmacy laboratory
 - d) Assisted students with research related work.

2. Adonten Senior High School, Science Department Aburi, Ghana
Tutor and Science Resource Centre Coordinator September 2014 – October 2016
 - a) Prepared Laboratory for Practical lessons
 - b) Managed the Science Resource Centre.

3. Avnash Industries Ghana Limited, Quality Assurance Department Tema, Ghana
Quality Assurance Personnel November 2013 – August 2014
 - a) Sampled raw materials (crude palm oil and crude palm olein) and finished products
 - b) Analyzed food samples (vegetable oil and water) and packaging materials (plastics)
 - c) Sanitized workers on safety precautions and contamination of food products.

OTHER TECHNICAL SKILLS

- Development of manuscript for publication.
- Fluent in the use of STATA analytical software and Microsoft Office.
- Design of electronic questionnaire using KoboCollect or Google Forms.
- Analysis of health-related research data

COMMUNITY SERVICE

Solidage Africa Foundation (Health Outreach Group) January 2017 – Date
 Member

PROFESSIONAL AFFILIATIONS

- Ghana Research Ethics Consortium (GREC)
- Universities of Ghana Senior Staff Association (UoG-SAA)

PEER REVIEWER

- **Environmental Health Insight** (Publisher - SAGE Publishing Inc.)
- **JBI Evidence Synthesis** (Publisher - Wolters Kluwer Health Publishers)
- **Journal of Multidisciplinary Healthcare** (Publisher - Dove Medical Press)
- **PLOS ONE** (Publisher – The Public Library of Science)
- **BMC Research Notes** (Publisher – Springer Nature)
- **BMC Infectious Diseases** (Publisher – Springer Nature)
- **Occupational and Environmental Medicine** (Publisher – BMJ)
- **Public Health Challenges** (Publisher - John Wiley & Sons)
- **Family Medicine and Community Health Journal** (Publisher – BMJ)
- **SAGE Open Medicine** (Publisher - SAGE Publishing Inc.)

- **BMC Nutrition** (Publisher – Springer Nature)
- **Frontiers in Global Women’s Health** (Frontiers Media)

REFERENCES

- Dr. Emmanuel Appiah-Brempong, Department of Health Promotion and Education, School of Public Health, College of Health Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. Tel: (+233) 208 905 920; Email: e.brempong@yahoo.com
- Dr. Paul Okere, Department of Health Promotion and Education, School of Public Health, College of Health Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. Tel: (+233) 204 212 754; Email: paul.okyere85@gmail.com
- Dr. Hilda Amekyeh, Department of Pharmaceutics, School of Pharmacy, University of Health and Allied Sciences, PMB 31, Ho, Ghana. Tel: +233 553 710 799; Email: hamekyeh@uhas.edu.gh
- Dr. Mary Eyram Ashinyo, Department of Quality Assurance – Institutional Care Division, Ghana Health Service Headquarters, Accra, Ghana. Tel: +233 208 182 647; Email: keyram1@yahoo.co.uk