

Jesse Bilinyi Jamal Musah

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EDUCATION

University of Texas at El Paso

El Paso - U.S.A

Ph.D. Interdisciplinary Health Sciences | Aug 2024 - Present

- Concertation on quantitative and qualitative evaluation methods to assess the impact of health interventions and policies among vulnerable populations.

Kwame Nkrumah University of Science and Technology

Accra, Ghana

MSc. Planning, Monitoring and Evaluation | August 2023

- Relevant Courses in; Statistics, Project Appraisal Techniques, Project management, Gender Mainstreaming, Management Information Systems and Data Visualization.
- Graduate Thesis: "Climate Patriarchy: How Gender-Blind Conservations in Northern Ghana Erases Women's Ecological Labor and Deepens Vulnerability"

University of Health and Allied Sciences

Ho, Ghana

Bachelor of Public Health | August 2020

- Relevant Courses in; Epidemiology, Biostatistics, Health Economics, Research Methods, Global health security, Public Health Policy, Health ethics and Health Promotion.

RESEARCH EXPERIENCES

National Malaria Elimination Programme (NMEP)

Accra, Ghana

Seasonal Malaria Chemoprevention (SMC) Coordinator - [05/2021 - 11/2023]

- As regional coordinator for SMC in the Northern and Northeast regions, provided guidance and supervision to SMC field teams, including training on SMC medicine administration protocols, data collection, and reporting.
- Collaborated with local communities and community leaders to raise awareness about SMC, promote participation, and address any concerns or misconceptions regarding the intervention

Ghana Health Service (G.H.S)

Accra, Ghana

Field Epidemiologist - [07/2021 - 12/2021]

- As a member of the national Marburg outbreak investigation team, participated in rolling out outbreak control measures, stepping up disease surveillance, testing, contact-tracing, clinical care as well as raising public awareness.
- Supervised the collection and analysis of epidemiological information regarding hemorrhagic fever outbreak that affected the country's Ashanti, Savannah and Western regions
- Worked in partnership with local public health professionals, stakeholders and the community to improve reporting of communicable and non-communicable diseases.

National Insecticide Resistance Monitoring Partnership (NIRMOP)

Accra, Ghana

NMEP Focal Officer [10/2020 - 10/2021]

- Coordinated and supervised entomological surveillance activities across 30 malaria sentinel sites in Ghana
- Assisted and supervised groups of human landing catchers (HLCs) to collect, sort and analyze mosquito species for entomological testing and intervention decision making
- Conducted malaria insecticide resistance testing trainings for 16 regional Food and Drugs Authority personnel to effectively monitor and regulate quality of Malaria insecticides available in Ghana

WORK & PROFESSIONAL EXPERIENCES

World University Service of Canada (WUSC)

Colombo, Sri Lanka

Monitoring and Evaluation Advisor - [08/2023 - 09/2024]

- Spearheaded the design and implementation of a gender-transformative MEL framework to evaluate climate resilience and inclusive development programs across the Southern & Northern provinces of Sri Lanka, directly aligning outcomes with priorities such as SDG 5 (Gender Equality) and SDG 13 (Climate Action).
- Secured \$825,000 in Global Affairs Canada funding for partner organization INDECOS by crafting evidence-based proposals that linked community-led climate adaptation (e.g., mangrove restoration, women's agroforestry cooperatives) to 30% projected income gains for 3,000+ rural households in climate-vulnerable districts.
- Pioneered data quality assurance systems that improved accuracy of program metrics by 25%, leveraging digital tools (e.g., Asana, Power BI) to track gender-disaggregated impacts across 8+ initiatives, including renewable energy access and women's entrepreneurship.
- Forged multi-stakeholder collaboration by training 50+ staff from the Sri Lankan government and grassroots organizations on MEL best practices, ensuring compliance with World Bank Environmental and Social Framework (ESF) standards for community engagement and safeguards.
- Elevated program scalability by synthesizing MEL findings into policy briefs cited in Sri Lanka's National Climate Change Adaptation Strategy, influencing \$2M+ in redirected investments toward gender-inclusive climate resilience.

Ghana Climate Change & Adaptability Community of Practice

Accra, Ghana

Focal Officer & Representative for WUSC - [08/2023 - 09/2024]

- Advised 15+ stakeholders (UNDP, Forestry Commission, Global Shea Alliance) on adaptive management strategies, resulting in \$2M+ in redirected funding to address gaps in women's land tenure rights and shea value chain equity.
- Co-designed a gender-inclusive REDD+ monitoring framework as a core contributor to the Community of Practice, collaborating with 50+ practitioners to standardize data collection tools for the Integrated Environmental Management Information System (IEMIS) at Ghana's Environmental Protection Agency.

World University Service of Canada (WUSC) - Ghana

Accra, Ghana

Knowledge Management & Learning Advisor - [07/2022 - 07/2023]

- Designed a knowledge management strategy that improved internal knowledge-sharing efficiency by 40%, informing WUSC's 2023-2025 Gender-Responsive Programming Strategy
- Co-developed gender-responsive TVET modules that integrated green skills training, increasing female enrollment by 30% and supporting 400+ young women in securing jobs in renewable energy and sustainable agriculture.
- Built and maintained a digital knowledge repository, hosting 200+ resources (reports, case studies, training materials) that improved accessibility for 80+ staff and partners, enabling data-driven decision-making.
- Led outcome harvesting for mid-term evaluations, conducting 60+ interviews and focus group discussions to document real-life stories of change for 6,000+ beneficiaries, including women and youth in agriculture, education, and green entrepreneurship.
- Advocated for gender-inclusive TVET reforms with GIZ, CTNET, and the Ministry of Education, driving policy changes that increased female enrollment by 18% and aligned with Ghana's National Gender Policy Framework.

National Malaria Elimination Programme (NMEP)

Accra, Ghana

Vector Control Technical Officer - [07/2020 - 07/2022]

- Developed performance dashboards for NMEP and donor partners (e.g., Global Fund, PMI & WHO), enabling real-time tracking of key indicators and informing the allocation of \$10M+ in malaria program funding.
- Trained 500+ health workers and community volunteers on data collection and reporting protocols, strengthening local capacity to monitor malaria interventions and adhere to WHO standards.
- Spearheaded larvicide mapping initiatives using the Larviciding Information Management System (LIMS) and GIS software (ArcGIS), identifying and targeting over 1000+ high-risk breeding sites across 10 malaria-endemic regions, reducing larval density by 12%.
- Conducted malaria insecticide resistance testing trainings for 16 regional Food and Drugs Authority personnel to effectively monitor and regulate quality of Malaria insecticides available in Ghana.

HONORS & AWARDS

College of Health Science - UTEP

2024 - Present

Graduate Research Assistantship

- Support research projects focused on health policy, aging, mental health, substance use, dementia-related outcomes, and health disparities among vulnerable populations.
- Conduct literature reviews, synthesize empirical evidence, and contribute to manuscript development for peer-reviewed journal submissions.
- Assist with data management, variable harmonization, statistical analysis, and interpretation of findings using large population-based and administrative datasets.

Emerging Public Leaders (EPL) Fellow

2023 - 2024

Description: Selected as one of 20 distinguished young Ghanaians for participation in the prestigious Emerging Public Leaders Program (EPL)

- Collaborating with prominent Civil Society Organizations (CSOs) (Penplusbytes & West Africa Civil Society Institute) in Ghana to drive policy change and advocacy efforts
- Gained hands-on experience and insights that inform my commitment to public service, policy analysis and positive social change

Ghana Aids Commission Grant for Research

2020

- Description: \$1,784 research grant awarded for undergraduate research dissertation

Builsa North Government Scholarship

2016

- Full tuition scholarship towards undergraduate studies at the University of Health and Allied Sciences

KEY SKILLS

Technical Skills:

- !Skilled in utilizing both qualitative and quantitative research methods, including performing statistical analysis.
- !Excellent level understanding of logic framework design and performance evaluation, including the assessment of metrics and Outcome harvesting.
- !Ability to provide training and technical support to project staff and partners on M&E concepts and tools.
- !Skilled in building and maintaining relationships with diverse stakeholders and fostering collaboration.
- !Proven experience in writing analytic reports, policy briefs, and research articles for dissemination.

Tools:

- !SPSS (advanced), R (Intermediate), NVivo(advanced), ArcGIS (Intermediate), SQL (Intermediate), Excel (advanced), Tableau (Intermediate)

Soft Skills:

- !Excellent oral and written communication skills, evidenced by comfort in sharing and interpreting research.
- !Experienced in leading and working with cross-functional teams and international partners.

CONFERENCES & WORKSHOPS

Africa CDC 2nd International Conference on Public Health in Africa (CPHIA 2022) August, 2023

- "Strengthening Health Systems for Equitable and Universal Health Coverage in Africa"

Ghana Malaria Research Conference; September, 2022

- "Strengthening Primary Health Care Systems to Fight Malaria and Improve Health"

7th Pan-African Mosquito Control Association (PAMCA) Conference; September, 2021

- Strengthening entomological surveillance capacity towards malaria elimination in sub-Saharan Africa"

Asian Pacific Malaria Elimination Network Training; August, 2021

- "Relevant modules in Vector diversity and abundance, vector behavior, vector Identification and insecticide resistance"

Noguchi Memorial Institute for Medical Research Entomology Training; November, 2021

"Morphological identification of Mosquito species, principles of ELISA and its application in entomological

evaluations" **PROFESSIONAL DEVELOPMENT TRAINING & CONFERENCES**

Google Data Analytics Professional Certification | UC Davis: SQL for Data Science | Global Affairs Canada: PSEA & Gender Mainstreaming Certification| Global Fund/PMI: Development Indicators & Assessments Cert. |WHO: IDSR 2, IDSR 3, DHIS 2 Administrator Certs

PUBLICATIONS & POSTER PRESENTATIONS

- **Musah, J. B.**, Rojas-Alvarez, A., & Cabrero, E. *Ethnic Disparities in Substance Use and Treatment Utilization Among U.S. Adults Aged 50 and Older: A Pooled Analysis of the 2022-2024 National Survey on Drug Use and Health.* Manuscript submitted to PLOS Aging and Health.
- **Musah, J. B.**, Rojas-Alvarez, A., & Cabrero, E. *Sobriety's Unfinished Tale: Navigating Ghana's Gaps in Alcohol Use Disorder Diagnosis and Treatment: A Narrative Review.* Manuscript submitted for publication.
- Loza, O., Yockey, A., & **Musah, J. B.** *Mental Health Services Utilization by Racial, Ethnic, and Sexual Minority Identities in U.S. Adults, 2022.* Manuscript submitted to SAGE Open. Manuscript ID: SO-26-5908.
- Cabrero, E., **Musah, J. B.**, & Rojas-Alvarez, A. *Racial Differences in Discharge Destinations and Inpatient Death After ADRD Hospitalizations by Time Since Diagnosis, 2005-2019.* Manuscript submitted to the *Journal of the American Geriatrics Society.* Manuscript ID: JAGS-0844-CLI-Apr-26.

LANGUAGES: English (Highly Proficient), French (Beginner)

PROFESSIONAL ASSOCIATIONS: American Statistical Association (ASA) | Allied Health Professions of Ghana |

American Evaluation Association