

Philip Boakye

EPIDEMIOLOGIST · BIOSTATISTICIAN · HEALTH-INFORMATICS SPECIALIST

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PROFESSIONAL PROFILE

Public-health systems specialist with more than 15 years of experience connecting epidemiology, biostatistics, health informatics, diagnostic systems and implementation. Current work spans national HIV Strategic Information, differentiated service delivery, diagnostic-network improvement, DHIS2 implementation for aggregate reporting and individual-level tracking, viral-load data systems, programme analytics and capacity strengthening. Preparing for doctoral research on integrated diagnostic and Strategic Information systems, implementation science, continuity of HIV care, viral suppression and equity in resource-constrained settings.

STRATEGIC INFORMATION	DIGITAL HEALTH	EPIDEMIOLOGY & ANALYTICS	LABORATORY SYSTEMS
M&E · data quality · HIV data	DHIS2 · aggregate & individual data	study design · R · Python · Stata	LIS/LIMS · diagnostic networks

PROFESSIONAL EXPERIENCE

Strategic Information Focal Person / Laboratory Information Systems Specialist

Ghana Health Service · CDC Cooperative Agreement | 2017-Present

National HIV Strategic Information, diagnostic-network and health-information-system leadership.

- Led Diagnostic Network Continuous Quality Improvement across PEPFAR-supported regions for viral-load, early-infant-diagnosis and TB testing.
- Scaled the individual-level tracking function of DHIS2 across more than 700 ART sites, within the same platform used for aggregate reporting.
- Implemented a viral-load data-management system integrating laboratory analysers with DHIS2.
- Named member of Ghana's National Estimates Team for the 2024 and 2025 national and sub-national HIV estimates; acknowledged in both reports for contributing to generating the estimates and developing the reports.
- Provided Strategic Information support for the June 2026 orientation of pilot Community ART Refill Sites on the Annual Clinical Visit model, covering KPIs, monitoring tools, viral-load documentation and timely DHIS2 individual-level data entry (e-Tracker).
- Trainer and facilitator in HIV/AIDS Strategic Information, including index-testing M&E;/QI, continuity-of-treatment and data-use sessions.

Laboratory Management Information System Consultant

King's College London / King's Sierra Leone Partnership · Ministry of Health and Sanitation | 2019-2021

LIMS assessment, configuration and workforce preparation for public hospital laboratories in Sierra Leone.

- Conducted needs assessments and configured LIMS for teaching hospitals and seven additional public hospital laboratories.
- Delivered training and sensitisation for laboratory and information-technology staff.

PROFESSIONAL EXPERIENCE - CONTINUED

Independent Consultant

Health facilities and public hospital laboratories · Ghana | 2016-2017

Designed patient and laboratory data-management systems and monitored information-system implementation.

- Designed and implemented laboratory and patient data-management systems for healthcare facilities.
- Conducted information-system assessments and site monitoring in public hospital laboratories.

Data and Information Systems Project Manager

Global Health Systems Solutions · Ghana | 2011-2015

Led laboratory information-system delivery, quality data systems and monitoring tools.

- Led Basic Laboratory Information System implementation in more than 25 hospitals.
- Implemented data systems for Dried Tube Specimen proficiency testing.
- Developed monitoring and evaluation tools to improve programme management.

Biostatistics Officer

Asante Bekwai Municipal Hospital | 2010-2011

Improved patient-record workflows, morbidity reporting and health-facility performance reporting.

- Reduced misfiling and duplication by improving medical-records processes.
- Developed a morbidity data-collection tool and supervised medical-records staff.

EDUCATION

2022	MPhil, Field Epidemiology and Applied Biostatistics Kwame Nkrumah University of Science and Technology
2015	MSc, Health Informatics Kwame Nkrumah University of Science and Technology
2012	Postgraduate Diploma, Information Technology Sikkim Manipal University
2009	BA, Geography and Rural Development Kwame Nkrumah University of Science and Technology Concentration: Medical Geography

SELECTED PUBLICATIONS

Boakye P, Safowaa A. Prevalence and predictors of viral load suppression in adults living with HIV in the Western Region of Ghana: a cross-sectional study. *AIMS Public Health*. 2023;10(2):469-479. DOI

Boakye P. Implementation of an Open Source Laboratory Information System in Ghana. *American Journal of Clinical Pathology*. 2018;150(suppl_1):S118-S119. DOI

Nkrumah B, Boakye P, Ofosu A, Akuro S, Duh S, Onalaja A, Njukeng P, Kakkar R, Adhikari A, Woodfill C. The use of standardized tools for monitoring of a Laboratory Information System in Ghana. *Proceedings of the 9th Health Informatics in Africa Conference (HELINA 2014)*. Accra, Ghana; March 2015:115. Peer-reviewed conference abstract.

SELECTED PRESENTATIONS AND TECHNICAL CONTRIBUTIONS

- 2026 · Acknowledged data contributor - Kwarah et al. Predictors of HIV treatment interruption among people living with HIV in 6 regions in Ghana. BMC Public Health. 26:503. The acknowledgements credit Ekow Wiah and Philip Boakye with extracting the national HIV e-Tracker datasets used. DOI: 10.1186/s12889-026-26243-5. (Not authorship.)
- 2024 and 2025 final reports · National Estimates Team contributor - The Ghana AIDS Commission reports formally acknowledge Philip Boakye among Ghana's National Estimates Team for contributing to generating the national and sub-national HIV estimates and developing both reports. The 2025 report used Spectrum 6.43 and Naomi 2.10.19 and covered all 16 regions and 261 districts. (Documented team contributions; not authorship.)
- 2020 · Youth Technology and Health, USA - An Interactive Online Youth-Centered Dashboard for Updating the Public on COVID-19 Outbreak Data in Real Time.
- 2016 · Acknowledged by Vempala and colleagues for contributions to C4G BLIS in C4G BLIS: Health Care Delivery via Iterative Collaborative Design in Resource-constrained Settings, ICTD '16. DOI: 10.1145/2909609.2909657.
- March 2015 · Proceedings of the 9th Health Informatics in Africa Conference (HELINA 2014), Accra, Ghana - Co-author, peer-reviewed abstract: The use of standardized tools for monitoring of a Laboratory Information System in Ghana.
- December 2014 · African Society for Laboratory Medicine, Second International Conference, Cape Town, South Africa - Rapid scale-up of the Basic Laboratory Information System in Ghana (oral presentation).
- October 2012 · Scientific Conference of the Ghana Association of Biomedical Laboratory Scientists, Kumasi, Ghana - Basic Laboratory Information Systems: A sustainable approach to the implementation of computerized laboratory information systems in Ghana.
- December 2012 · African Society for Laboratory Medicine, First International Conference, Cape Town, South Africa - Speaker at the Symposium on Affordable and Easy-to-Implement Information Systems for Laboratories: What is the Basic Laboratory Information System?
- May 2012 · Global Health Systems Solutions Open Day, Republic of Cameroon - Basic Laboratory Information System Activities in Ghana.

RESEARCH AND DOCTORAL DIRECTION

Doctoral interests centre on integrated diagnostic and Strategic Information systems, implementation science, continuity of HIV care, viral suppression and equity. The central question is how diagnostic data and digital systems can move more reliably from result production to timely programme and clinical action in resource-constrained settings.

- HIV outcomes, care continuity and viral suppression
- Digital health, DHIS2 aggregate reporting and individual-level longitudinal tracking
- Diagnostic networks, interoperability and result-to-care pathways
- Implementation outcomes including adoption, fidelity, sustainability and equity
- Routine-data quality, decision use and programme performance

CONSULTANCY CAPABILITIES

Health information systems Needs assessment, workflow and requirements design, implementation planning, scale-up and interoperability.	Epidemiology and analytics Study design, data management, statistical analysis, interpretation, visualisation and decision-ready reporting.
Strategic Information Indicator design, monitoring frameworks, data-quality improvement, estimates, projections and programme review.	Implementation support Training, supportive supervision, adoption monitoring, stakeholder facilitation and practical improvement planning.

TECHNICAL TOOLKIT

Systems: DHIS2 (aggregate & individual-level), C4G BLIS, LIS/LIMS, REDCap **Analysis:** Python, R, Stata, SPSS, SQL, Excel **Visualisation and GIS:** Power BI, Tableau, ArcGIS, QGIS **Delivery:** Programme M&E, differentiated service delivery, data quality, capacity strengthening and implementation support

PROFESSIONAL MEMBERSHIPS AND SERVICE

- American Society of Tropical Medicine and Hygiene (ASTMH)
- African Society of Laboratory Medicine (ASLM)
- American Society for Clinical Pathology (ASCP)
- Peer-review contributions to Heliyon and JMIR
- Trainer and facilitator in HIV/AIDS Strategic Information

RECOGNITION AND LANGUAGES

2018: Travel Grant, American Society for Clinical Pathology Systems Solutions **2015:** Recognition Award for Dedicated Service, Global Health

Languages: English and Akan

This public CV intentionally excludes private contact details and confidential programme information. For current publications, fieldwork and collaboration information, visit pkboakye.com.