William Dormechele

Norwich - United Kingdom | Email: w.dormechele@uea.ac.uk | Languages: English (Fluent)

Profile

Data analyst and public health systems researcher with over five years' experience supporting evidence-informed health system performance, surveillance, and programme delivery through applied statistics, data integration, and evidence synthesis. Currently an ESRC-funded PhD student specialising in data-driven decision support for health systems, with hands-on experience working across population-based surveillance (HDSS), routine health and clinical data, and international research collaborations, using digital tools and analytical methods to produce policy-relevant evidence for decision-makers.

Core Skills

- Health system data analysis and indicators
- Applied statistics, data harmonisation and integration
- Longitudinal and surveillance data systems (HDSS)
- Data quality assurance, governance and standards
- Policy-oriented reporting, visualisation, briefing
- Cross-cultural and multidisciplinary collaboration

Technical Skills

- Statistical and Analytical: R, STATA, SQL, Python
- Data Systems: MySQL, REDCap, ODK
- Visualisation and reporting: Power BI, Tableau, Excel
- Other: Access, ArcGIS

Professional Experience

Data Manager

Royal Bournemouth Hospital NHS Foundation Trust, United Kingdom | Feb 2025 – Sep 2025

- Supported data management and analysis for commercial and non-commercial clinical trials within the NHS research and development framework.
- Managed clinical trial datasets, ensuring data quality, consistency, and compliance with regulatory and ethical requirements.
- Monitored recruitment and follow-up using electronic clinical research systems (such as Inform), producing structured reports to track progress and protocol adherence.
- Liaised with multidisciplinary clinical and research teams (consultants, fellows, nurses, clinical research associates and assistants) to support evidence generation for patient care and service improvement.

Data Manager and Analyst

Navrongo Health Research Centre, Ghana | September 2019 – Present

- Manage and analyse large-scale longitudinal Health and Demographic Surveillance System (HDSS) data covering population, mortality, migration, and health indicators.
- Design and maintain electronic data collection systems, improving data completeness and timeliness by up to 80%.
- Conduct statistical analyses to support epidemiological studies and health system monitoring.
- Develop dashboards and analytical summaries used by research teams and programme managers to inform operational and policy decisions.
- Train field and data staff on data quality, consistency, and reporting standards.

Research Officer, Data Analyst

Navrongo Health Research Centre, Ghana

(Multiple health system, epidemiology and clinical research projects) | 2021 – 2024

- Supported international studies on malaria vaccination, meningitis, sickle cell disease, maternal and child health, and point-of-care diagnostics.
- Conducted routine and ad-hoc statistical analyses to support recruitment monitoring, service delivery assessment, and interim reporting.
- Contributed to protocol development, ethics submissions, and amendments with national and international regulatory bodies.
- Developed automated reporting tools and dashboards to support timely decision-making.

Education

PhD in Management Research (ESRC-funded SENSS DTP Studentship)

University of East Anglia, United Kingdom | October 2025 – Present

- Fully funded by the UK Economic and Social Research Council (ESRC) through the South and East Network for Social Sciences (SENSS)
- Research theme: Health, Well-Being and Social Care
- Focus on data-driven decision support, health systems analytics, and population-health facility data integration

MSc Information Technology (Distinction), Bournemouth University, United Kingdom | 2024

BSc Public Health, University for Health and Allied Sciences, Ghana | 2019

Selected Publications (peer-reviewed)

- Tsifodze MA, Ofori EK, Nonterah EA, **Dormechele W**, Ansah P, Agongo G. (2025). *Prevalence and determinants of insulin resistance among middle-aged adults in rural northern Ghana: an Awi-Gen cross-sectional study*. **BMC Public Health**.
- Kwabla MP, Amuasi JH, Krause G, **Dormechele W**, Takramah W, Kye-Duodu G, et al. (2025). *Completeness of tuberculosis case notification in Ghana: record linkage and capture–recapture analysis of three TB registries*. **BMC Infectious Diseases**.
- Ayamba EY, Dzotsi EK, **Dormechele W**, Ansah NA, Bangre O, Ana-Imwine Nyuzaghl J, et al. (2025). *Evaluation of seasonal malaria chemoprevention implementation in the Upper East region of Northern Ghana*. **Malaria Journal**.
- **Dormechele W**, Osei Bonsu E, Boadi C, Adams MO, Hlormenu BA, Kwakye Addo S, et al. (2024). *Determinants of intention to conceal tuberculosis status among family members: a multi-country analysis in sub-Saharan Africa*. **BMC Infectious Diseases**.
- Kassim AB, Newton SK, **Dormechele W**, Rahinatu BB, Yanbom CT, Yankson IK, Otupiri E. (2023). *Effects of a community-level intervention on maternal health care utilisation in a resource-poor setting of northern Ghana*. **BMC Public Health**
- Amponsah SK, Apenkwa J, Yeboah E, Ayaaba E, **Dormechele W**, Okrah A. (2023). *Spatial dynamics of malaria transmission in the Tano North Municipality of Ghana: a geospatial analysis.* **Translational Medicine**

Selected Poster Presentations

European Haematology Association (Madrid, 2024); American Society of Tropical Medicine and Hygiene (New Orleans, 2024); World Congress on Lung Health, (Paris, 2023)

Awards

Best Junior Scientist - Navrongo Health Research Centre, Ghana Health Service (2022)