**Statement of Motivation-Francis Adane**

I often describe my journey into health economics as one that began not with numbers, but with people. My academic journey has been shaped by one central question: how can limited health resources be allocated to achieve the greatest and most equitable impact? Growing up in a small community in Ghana, I witnessed families struggle not only with illness and aged relatives but with its economic consequences-lost income, rising medical bills, children withdrawing from school, and households pushed into poverty. These experiences sparked my interest in public health and, ultimately, health economics, as I sought to understand not only who becomes ill, but how health systems and policy decisions shape people's economic lives.

My doctoral research focused on the economic analysis of anaemia reduction intervention among women fish processors in Ghana. Working closely with women in the informal sector, I evaluated the cost-effectiveness of public health interventions, while examining inequalities in access to nutrition among women fish processors. This experience pushed me to think beyond efficiency toward equity: who benefits from public investments, and how can policies be designed to reduce health disparities?

My research interests lie in health technology assessment, as it provides the required tools for assessing the cost-effectiveness of health interventions targeting the aged population. I am particularly interested in applying economic evaluation methods to public health interventions, exploring alternative healthcare financing models, impact evaluation, equity and access to health, and universal health coverage. As countries like Ghana undergo demographic transition, the economic evidence base for long-term care, chronic disease management, and financing mechanisms for older adults remains limited. I aim to expand my work towards evaluating interventions that address multimorbidity, caregiving systems, and equitable priority setting across the life course.

The National Bureau of Economic Research (NBER) Mentoring Program represents a transformative opportunity to deepen my exposure to frontier empirical methods and project development in economics of aging. I would greatly value mentorship to help refine my research, strengthen my identification strategies, and enhance the overall rigor of my work. I am also eager to engage with fellow mentees and senior scholars to build meaningful academic connections and position my research for international collaboration and publication in leading journals.

As an early career researcher based in Ghana, international travel and accommodation costs pose significant barrier. Access to financial support would make my participation possible and enable me to fully engage in and contribute to this important program.

**FRANCIS ADANE, PhD**
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Nationality: Ghanaian
Current affiliation: University of Health and Allied Sciences (UHAS), Ghana

## 1.RESEARCH PROFILE

Early career Health Economists and Public Health Researcher with training in economic evaluation, health policy analysis, and causal inference. My research focuses on the economic evaluation of public health interventions, using cost-effectiveness analysis to inform evidence-based priority settings in resource-constrained environment, health technology assessment, health inequality, aging population and brain health.
Adane's work is published in international journals including Cost Effectiveness & Resource Allocation, BMC Public Health, BMC Health Services Research, and Health Policy & Technology.

## 2.EDUCATION

PhD Public Health (Health Policy, Planning & Management) | 2016–2022
University of Ghana, Legon

Dissertation: *Economic Analysis of Anaemia Reduction Interventions Among Women Fish Processors in Ghana* (Core focus: economic evaluation, intervention effectiveness, inequality in consumption of anaemia mitigation foods, and policy design)

Supervisor: Prof. Justice Nonvignon

Courses completed: *Health Systems Evaluation, Health Systems and Policy Analysis, Monitoring and Evaluation in Public Health, Emerging Issues in Health Policy and Management, Advanced Data Analysis in Public Health, and Leadership in Public Health*

MPhil Health Services Management | 2012–2015
University of Ghana, Legon

Thesis: *Health Sector Decentralisation in Ghana: Exploring Implementation Challenges at the Hospital Level (*Core focus: health policy analysis, health financing, and management)

BA Psychology | 2007–2011
University of Ghana, Legon

Long Essay: *Gender Differences in Short-term Memory Among Senior High School Students (*Core focus: Experimental research design, Statistics for Psychologists, and measurement and evaluation)

## 3. RESEARCH INTERESTS

Health economics • Health inequalities • Health technology assessment • Causal inference • Impact evaluation • Non-Communicable Diseases • Health Financing

## 4.RESEARCH EXPERIENCE

**Postdoctoral Research Fellow – ENCOMPAS Project | Feb 2025–Present**

University of Health and Allied Sciences

- Lead baseline data collection, mixed-methods evaluation, and field supervision.
- Prepare peer-reviewed manuscripts, policy briefs, and research dissemination materials.
- Teach both undergraduate and graduate courses in Managerial Economics and Applied Health Policy

**Doctoral researcher on Invisible Fishers (IFs) Project | 2018–2019**

Bill & Melinda Gates Foundation (Partners: University of Ghana, University of Michigan, IPA, SNV)

- Analysed socio-economic and health data for inequality analysis
- Worked in large, interdisciplinary research consortium

**Graduate Research and Teaching Assistant | Jul 2017–Aug 2018**

University of Ghana School of Public Health

- Taught Applied Economics for Health Policy
- Supervised students in STATA-based data management and econometrics analysis.

## 5.METHODS & DATA SKILLS

- Causal inference: Difference-in-Differences, quasi experiments, RCTs
- Econometrics: Regression, panel data, impact evaluation
- Health economics: Cost-effectiveness analysis, costing, economic evaluation
- Data: Individual-level survey and administrative data
- Software: STATA, NVivo, SPSS

- Data Collection: In-depth interviews, focus group discussions, key informant interviews.

- Data Analysis: Thematic analysis using NVivo software.
- Mixed-Methods: Integration of quantitative and qualitative data.

## 6.TEACHING & MENTORING EXPERIENCE

**Part-Time Lecturer** | Central University, Ghana | Apr 2022–Present

- Course Development & Teaching: Health Economics & Financing, Health Systems Management, Public Health Programme Monitoring & Evaluation, Health Policy & Management.
- Student Supervision: Primary supervisor for 3 undergraduate long essays

**Graduate Mentor** | University of Health and Allied Sciences (UHAS) | Feb 2025–Present

- Mentor 3 MSc students in research methods, study design, and field data collection techniques and statistical analysis

## 7. PROFESSIONAL EXPERIENCE (Policy-Relevant)

**Health Operations Manager** | Nyaho Medical Centre, Accra | October 2020–February 2025

- Provided leadership for healthcare operations, overseeing a multidisciplinary team including nurses, administrators, and physicians
- Managed drug pricing, pharmaceutical procurement, and reimbursement
- Negotiated contracts with drug suppliers and insurers
- Monitored treatment costs and utilization
- Designed and implemented performance metrics and staff capacity-building programmes, improving operational efficiency
- Oversaw corporate insurance clients
- Contributed to the budgeting process and prepared quarterly operational reports

**Health Services Administrator** | Ghana Health Service Headquarters, Accra | August 2015 September 2016

- Compiled and submitted periodic and quarterly operational reports from Regional Deputy Directors of Health Administration from all the regions in Ghana
- Assisted in the preparation of annual work plans, budgets, and reports for the General Administration Department

## 8. PUBLICATIONS

- Bio, R. B., Akweongo, P., Azaare, J., **Adane, F**., Abdulai, K., Laar, R. A., & Titiati, A. (2025). Costs and psychosocial burden of tuberculosis to the treatment supporters in Ghana. Health Policy and Technology, 14(5), 101060. https://doi.org/10.1016/j.hlpt.2025.101060

- Abdulai, K., Torpey, K., Kotoh, A. M., **Adane, F.,** Azaare, J., & Laar, A. (2025). Antiretroviral therapy and cardiovascular risk in LMICs: A systematic review and meta-analysis. HSI Journal, 8(1), 400–500.

- **Adane, F**., Aryeetey, R., Aryeetey, G., & Nonvignon, J. (2024). The costs of implementing anaemia reduction interventions among women fish processors in Ghana. Cost Effectiveness and Resource Allocationhttps://doi.org/10.1186/s12962-024-00559-8`

- Azaare, J., **Adane, F**., Abdulai, K., Apiung-Ananiya, G., & Asamba Azaare, S. (2024). Maternal health care utilisation following the implementation of the free maternal health care policy in Ghana. BMC Health Services Research https://doi.org/10.1186/s12913-024-10661-5

- Adane, F., et al. (2025). Systematic review of costs of implementing and scaling up anaemia control interventions among women in sub-Saharan Africa. (Under Review, BMC Public Health).

- Foster, O. M., Ahenkan, A., & Adane, F. (2024). The Dilemma of Sustainable Procurement: An Exploration of Challenges in the Context of Multi-theoretical Perspective. Green and Low-Carbon Economy.

## 9.CONFERENCE PRESENTATIONS

- Oral Presenter: African Health Economics and Policy Association (AfHEA) Conference, Rwanda (2025)-Costs of Implementing Anaemia Reduction Interventions Among Women Fish Processors in Ghana
- Poster Presenter: African Interdisciplinary Health Conference, Accra (2018)-Health Sector Decentralisation: Exploring the Implementation Challenges at the Hospital Level

## 10.TRAINING

- Health Systems Performance Analysis | Institute of Tropical Medicine, Belgium (2025)
- Health Financing for Universal Health Coverage | World Health Organization (WHO) (2024)
- Impact Evaluation Methods with Application in LMICs | World Bank Open Learning Campus (2024)
- Qualitative Methodology Workshop | Asia-Pacific Qualitative Network (2024)
- Managing Successful Field Research – World Bank (2024)
- Health Programme Evaluation using STATA | Global Evaluation and Network for Health (2018)

## 11. SCHOLARSHIPS & AWARDS

- Belgian Development Cooperation Scholarship – Health Systems Performance Analysis (2025) - Institute of Tropical Medicine, Antwerp, Belgium
- Bill & Melinda Gates Foundation Research Scholarship for Ph.D. Thesis (2018)
- Ghana Education Trust Fund (GETFUND) Scholarship (2016) for Ph.D. Programme

## 12. SERVICE

Ethical Review Board Member - Central University & Nyaho Medical Centre

- Review research proposals for scientific merit and ethical compliance with national and international guidelines.