

RICHARD ADJEI-BOATENG, Ph.D.

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HEALTH ECONOMICS AND OUTCOMES RESEARCH (HEOR)

SUMMARY

Health economist with advanced training in health economics, econometrics, and causal inference, specializing in health policy evaluation, cost-effectiveness analysis, and real-world evidence generation. Exceptional quantitative background with experience in assessing the economic and clinical impact of health interventions using large administrative and longitudinal datasets. Proven ability to translate complex empirical analyses into decision-relevant insights for policymakers, payers, healthcare providers, and life sciences stakeholders.

Expertise includes cost-effectiveness and budget impact analysis, quasi-experimental methods (difference-in-differences, instrumental variables, event studies), and outcomes modeling across healthcare utilization, costs, labor market outcomes, and population health. Adept at working with claims, hospital discharge, and survey data to support reimbursement, coverage, and policy decisions. Strong communicator with experience producing publication-ready analyses, technical reports, and summaries.

CORE COMPETENCIES

- Statistical Programming (SAS, R, Python, Stata)
- Process Improvement & Innovation
- Project Management & Delivery Excellence
- Data Quality Validation & SOP Compliance
- Remote Team Leadership & Mentoring
- Health economic modeling, cost-effectiveness analysis (CEA), and budget impact analysis (BIA)
- Real-world evidence generation using causal inference methods (DiD, IV, Event studies, etc.)
- Healthcare utilization, cost, and outcomes analysis
- Health policy and market access evaluation for reimbursement and risk determination
- Clear communication of technical findings to clinical, payer, and policy stakeholders

WORK HISTORY

Economics Department + Health Systems, Management and Policy Department, University of Colorado Denver|Anschutz

Research & Teaching assistant – Health Economics Projects

August 2020 – Present

- Developed, programmed, and documented data cleaning reports, and analytic pipelines supporting administrative and health-related research studies which led to dissertation completion.
- Collaborated closely with clinical, statistical, and economic research teams to design reporting and analytics solutions aligned with standardized and study-specific data review plans.
- Implemented cost effectiveness analysis to model the cost-effectiveness of a new medication to treat breast cancer (compared to current medication) which after a using a threshold of \$150,000 per QALY, the new intervention was determined to be cost effective because it had a \$13346.1 per QALY which was less than the \$150000 per QALY.
- Delivered high-quality reporting services, including performance dashboards and data visualizations, communicating analytical insights to improve operational decision-making.
- Prepared, validated, cleaned, and integrated large clinical and administrative datasets using SQL, Python, R, and Stata.

AIMS Community College, Co.

Adjunct Professor, Economics August 2024-present

- Principles of Macroeconomics (98% students success rate and achieved set goals).
- Principles of Microeconomics (100% students success rate and achieved set goals).
- Designed and managed instructional resources and technology needs, applying cost analysis, forecasting, and resource planning which optimized learning and student ergonomics including ADA requirement provision.
- Translated complex economic concepts and analytical models into clear, actionable frameworks for diverse audiences, mirroring the job's requirement to clarify questions, guide decision making, and communicate effectively with students and supervisors at all levels.
- Developed and evaluated quantitative models—such as forecasting, functional analysis, and economic evaluation tools—to assess performance, support evidence-based decisions, and improve program outcomes leading to positive futuristic organizational change.
- Built strong partnerships with colleagues, academic committees, and external organizations; represented the department in meetings, coordinated with multiple stakeholders, and facilitated communication networks to support strategic planning, performance management and operational improvements.

Centers for American Indian and Alaska Native Health (CAIANH), Aurora, Co. (CU Anschutz)

Statistical Programmer and Researcher October 2022 – May 2023

- Used SAS, R, Stata and Excel to analyze and report on results of summaries and regressions using very large Medicare beneficiary files/data.
- Wrote and reviewed manuscripts for journal publications.
- Implemented, developed, evaluated, collaborated, and wrote scientific manuscripts with diverse research communities.
- Conducted literature review using EndNote and google scholar and Overleaf which greatly increased productivity and publication of study results.

Department of Mathematics, Western Kentucky University, Ky.

Research Assistant and Teaching Assistant August 2018 – July 2020

- Implemented data management systems including merging, cleaning, querying, scraping, construction and quality checks of complex and unstructured data from different platforms.
- Performed in high-paced, team-oriented problem resolution with minimal supervision, managing multiple deadlines, procurements and cross-functional projects simultaneously which saved weeks of time and led to 5% increase in performance improvement.
- Wrote three manuscripts for publication using Latex and Word.
- Tutored and organized calculus recitation sessions for undergraduates in WKU (Independent recitation sessions) achieving 99% success and accountability rates.
- Conducted experiments to test the effects of different treatments in a controlled setting using both parametric and non-parametric multiple comparison tests leading to the right conclusions and outcomes.

Principal Teacher

Teacher/Ideal College, Ghana August 2016 – May 2018

- High School Economics.
- High School Government.
- High School Mathematics.

EDUCATION

Doctor of Philosophy (Ph.D.), Health Economics, University of Colorado Denver	December 2025
Master of Science (MS), Applied Economics, University of Colorado Denver	December 2023
Master of Science (MS), Mathematics, Western Kentucky University, Bowling Green	May 2020
Bachelor of Arts, Economics & Mathematics, Double Major, University of Cape Coast	May 2016

RESEARCH ACTIVITIES

1. Associations between Social Determinants of Health and Alzheimer's Disease and Related Dementia among American Indian and Alaska Native and White Medicare Beneficiaries. Yang, M., Abdulsalam, R., Adjei-Boateng, R., Li, L., Manson, S., O'Connell, J., & Jiang, L. (2025, January). DOI: <https://doi.org/10.1002/alz.092107>
2. Causal effects of Medicaid Expansion on job security (Dissertation chapter, preparing for publication).
3. Effects of education on health in Ghana (Dissertation chapter, preparing for publication).
4. Causal effects of Medicaid expansion on hospital costs (Dissertation chapter, preparing for publication).
5. Interdependence of Foreign Exchange Rate Markets-A Mixed Copula Approach (Master's Thesis).
6. Effects of the Affordable Care Act (ACA) on ambulance response times in Colorado (submitted).
7. A bibliometric analysis of research status on Copula from 2000 to 2019 (Master's project).

Professional Affiliations

American Society of Health Economist	2023 -
American Economic Association	2023 -

Seminars and Conferences

AHSE (presented by a co-author)	2023
The Public Health in the Rockies (PhiR), 2023 "Omni Salud"	2023
Western Kentucky University, 38th Annual Mathematics Symposium	2018

Professional Development and Certifications

- SAS Certified Specialist Base Programming using SAS 9.4 (SAS institute professional proficiency exam)
- SAS programming Essentials Certification (SAS institute professional exam)
- Graduate Teaching Instructor (CITL) (WKU in-person)
- CERT. Economic Data Analytics, Western Kentucky University, Bowling Green, KY, USA
- Getting and Cleaning Data Certification (John Hopkins online)
- Advanced programmer in R (John Hopkins online)
- Reproducible Research (John Hopkins online)
- The Data Scientist toolbox (John Hopkins online)