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| Eric Opoku  Health Economist, and Economic Modeler | eric.opoku@mail.utoronto.ca • (647) 513-3742  • Toronto, ON |

Highly trained in health economics research, modelling and data analysis with relevant knowledge, experience, skillset, and data story telling capacity. Adept in presenting modelling and statistical results in a concise and detailed manner. Great communicator, leader, coach, and mentor.

**Areas of Expertise**

Health Economic Modelling

* Demonstrated ability to critically appraise economic evidence results (i.e., systematic and or scoping review), and construct Budget Impact Analyses and health economic models for submission to Canada Health Technology Assessment (HTA) agencies using Visual Basic for Applications in Microsoft Excel (or TreeAge).
* Possesses adequate insights of HTA processes, private and public payer markets, their drug review processes and reimbursement trends that impact market access.

Quantitative Research and Statistical Analysis

* Highly equipped with skills involving developing research objectives using directed acyclic graphs, data cleaning and transformation using logarithm or inverse hyperbolic sine functions and attaining bootstrapped, clustered, or robust standard errors for model-based regression models (i.e., Ordinary Least Squares, Probit/Logit, Multinomial Logistic regression, Poisson, Hurdle models) using the R software or Stata.
* Highly trained in conducting design-based research in terms of analyzing health policies or economic shocks using matching strategies (i.e., exact matching, nearest neighbor matching, and or propensity score matching), instrumental variable techniques (i.e., two-stage least squares), difference-in-difference approaches (i.e., dynamic treatment effects, and synthetic control and, staggered adoption approaches), Regression Discontinuity and Quantile regression models.
* Proven skills in theory development, literature review, statistical analysis, and preparing manuscripts for submission to peer-review journals and statistical reports to influence health policy decision-making.
* Conversant with cross-sectional, panel and longitudinal data and machine learning techniques.

**Education**

**Doctor of Philosophy in Health Services Research (Health Economics Emphasis-Year Two)**

University of Toronto

GPA: 3.81/4.0

**Dissertation: Investigating medical expenditure risks using panel data statistical tools, machine learning techniques and the Extended Cost-effectiveness analysis method.**

**Master of Arts in Economics**

Memorial University of Newfoundland

GPA: 3.86/4.0

**Thesis: Used the Multinomial Logistic Regression model and the Ghana Maternal Health Survey data to examine the determinants of maternal health care utilization in Ghana. Explored factors that affect pregnant women’s decision to attend any antenatal care visits and in the first trimester and their decision to use health facility for child delivery.**

**Master of Philosophy in Economics**

University of Ghana

GPA: 3.42/4.0

**Thesis: Employed the Recursive Bivariate Regression model and the Ghana Demographic Health Survey data to investigate the effect of women empowerment and mass media exposure on neonatal mortality in Ghana.**

**Bachelor of Arts in Economics**

University of Ghana

FGPA: 3.51/4.0

**Project: Used survey data to conduct a cost-benefit analysis of building a plastic recycling plant in Adjen-Kotoku in Ghana.**

**Work In Progress**

* Exploring medical expenditure risks using panel data statistical tools and economic modeling strategies.
* What are the Barriers and Facilitators to Polio Vaccination and Eradication Programs? A Systematic Review (Accepted for publication).

**Teaching Experience**

**Teaching Assistant**

**Department of Economics,** Memorial University of Newfoundland 08/2019 – 04/2020

-ECON 1010 Introduction to Microeconomics

**Department of Economics,** University of Ghana (National Service) 09/2014 – 08/2015

-ECON 101 Introduction to Economics I (taught not less than 50 students)

-ECON 102/112 Introduction to Economics II (taught not less than 50 students)

-ECON 201/211 Elements of Economics I (taught not less than 80 students)

-ECON 202/212 Elements of Economics II (taught not less than 80 students)

-ECON 301/311 Microeconomic Theory I (taught not less than 400 students)

**Professional Experience**

**Researcher**

**Global Health Innovation Lab** 01/2022 – 07/2022

University of Toronto, Scarborough

* Worked on a research project to investigate the barriers and facilitators to Polio Vaccination and Eradication Programs.
* Worked on a research project to understand handwashing behaviors on University of Toronto Scarborough campus.

**Nocland Business Incorporation** 4/2021 – 08/2021

St. John’s, Newfoundland and Labrador, Canada

* Was tasked with customer data analysis and reporting.
* Worked on a project to develop a manual for successful business day-to-day operations to best serve clients.

**Rose Ricciardelli Research Lab** 03/2020 – 02/2021

Memorial University of Newfoundland, St. John’s, Newfoundland and Labrador, Canada

* Worked on a research project to examine the effect of social media bullying on students and the role of restorative justice.

**Global Partnership for Small-Scale Fisheries Research** 04/2020 – 05/2020

St. John’s, Newfoundland and Labrador, Canada

* Worked on a research project to investigate whether sub-Saharan African countries have enacted and implement Fisheries Act and Management plans according to the global Small-Scale Fisheries guidelines.

**Ghana Chamber of Bulk Oil distributors** 08/2017 – 07/2019

* Worked on a research project to investigate ways of improving the Health, Safety, Security, and Environment standards at the storage depots of the Bulk Oil Distribution Companies in Ghana.
* Worked on CREPT project to investigate options of improving trade financing in the Downstream

Petroleum sector.

* Worked on Pexus Mooring project to investigate ways of expanding ship docking at the port to improve petroleum supply in Ghana.
* Conducted a research project to gauge client satisfaction.
* Wrote monthly newsletters and annual industry reports to inform stakeholders in the Downstream

Petroleum sector.

**Data collection and Interviewing**

**English Survey Interviewer**

MarketQuest Omnifacts Research 02/2020 – 05/2021

St. John’s, Newfoundland and Labrador, Canada

* Interviewed not less than 500 people randomly on the New Brunswick Health Council Primary Health Survey. The survey is aimed at understanding and reporting on New Brunswickers’ self-rated health, and their experiences with the primary health services in their communities.
* Interviewed customers of Newfoundland Power, Bell Aliant and Nalcor energy on their service satisfaction.

**Retention Agent**

S&P Data 05/2020 – 07/2020

St. John’s, Newfoundland and Labrador, Canada

* Resolved the billing queries of Sprint Corporation customers and updated their profile using highly advanced CSM software.

**Professional Development and Training**

DHIS2 Fundamentals (February 2022), University of Oslo

Cross-Programmatic Efficiency Analysis (September 2021), WHO

Health Financing for Universal Health Coverage (September 2021), WHO

Maternal Infections (September 2021), The Global Health Network

Public Financial Management (September 2021), WHO

Commercial Banking and Credit Analyst, Corporate Finance Institute, 2020

**Personal Links & Websites**

[*https://public.tableau.com/app/profile/eric.opoku*](https://public.tableau.com/app/profile/eric.opoku)

[*https://github.com/Ponderic/Regression-Analysis*](https://github.com/Ponderic/Regression-Analysis)

**Nominations & Awards**

***Dalla Lana Merit-Based scholarship*** –University of Toronto, Canada

***University of Toronto Fellowship (UTF-funding)***–University of Toronto, Canada

***School of Graduate Studies fellowships*** – Memorial University of Newfoundland, Canada

**Relevant Courses**