Benjamin O. Harrison

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Bio!

Benjamin O. Harrison is a PhD student in Economics at Emory University, specializing in time series models, Bayesian econometrics, causal inference, and machine learning. He holds a Master's degree from the ERASMUS Mundus Joint Degree Program in Quantitative Economics and a Bachelor's in Economics and Mathematics from the University of Ghana. His diverse background and research interests place him at the forefront of innovative economic research.

Education

- **Emory University**, PhD Economics — Aug 2023 – May 2028
  - GPA: 3.85/4.0 Transcript
  - **Coursework:** Macroeconomics, Microeconomics, Probability and statistics, Econometrics.
- **Erasmus Mundus Joint master's degree:** Quantitative Economics Economics. — Sept 2021 – July 2023
  Partner Universities:*Université Paris 1 Panthéon-Sorbonne, Université catholqiue de Louvain, Universitat Autònoma de Barcelona, Università Ca'Foscari Venezia, Warsaw School of Economics.*
  - GPA: 30/30 cum laude
  - **Coursework:** Time series Econometrics, Microeconometrics, Bayesian econometrics, FinTech.
- **University of Ghana**, BA Economics and Mathematics — Aug 2016 – May 2020
  - GPA: 3.75/4.0 Transcript
  - **Coursework:** Linear Algebra, Real Analysis, Abstract Algebra, Topology, etc.

Experience

Research Assistant, Emory University – Machine learning and Causal Inference. — July 2024 – Aug 2024

- Read, analyze, and replicate a selected number of AR papers in causal inference using STATA.
- Identify the treatment variables, methodology, and other key variables in the paper and reproduce all results using R.

Research Intern, Venice Centre in Economics and Risk Analytics – Ca'Foscari University, Venice, Italy. — Jan 2023 – Apr 2023

- Worked on a Cointegration Analysis of GARCH type volatilities of the NASDAQ Stock index.
- Examined the relationship between the volatility of the NASDAQ index and other macroeconomic indicators using the ECM model.
- Examine the spillover effect and perform sensitivity analysis.

Teaching Assistant, Ca'Foscari University of Venice– Microeconomics. — Sep 2022 – Jan 2023

- Organized tutorial sessions for first-year master's students on Advanced Microeconomics.
- Prepared teaching materials to aid in the understanding of the course.
- Assisted in scoring the assignments presented by students.

Teaching & Research Assistant, University of Ghana – Economics Departmemt. — August 2020 – July 2021

- Organized tutorial sessions on mathematical concepts and their applications in Microeconomics and Macroeconomics.
- Collaborated in using STATA to clean data and perform simple linear regression analysis effect of COVID-19 on Ghana's Labor Market.

Summer School Programs

- **Network Econometrics** , Venice center in Economic and Risk Analytics – Ca’Foscari University of Venice. June 2022 – July 2023
- **Bayesian Multivariate Models and Forecasting in Economics** , Venice Center in Economic and Risk Analytics – Ca’Foscari University of Venice. June 2022 – July 2023
- **Spatial Health Econometrics**, Venice Center in Economic and Risk Analytics – Ca’Foscari University of Venice. June 2022 – July 2023

Projects

- Built a simple MATLAB App that solves the Markowitz Portfolio Optimization model using Machine learning Techniques
- Participant in the Bloomberg Global Trading Challenge in which we developed trading strategies using Back-testing techniques and VAR models.
- Created and built a user-friendly shipping platform for small businesses using Python. In this case, the user inputs the necessary information about the product being shipped and we generate the cost of the shipping.
- Participant in the IMF Challenge 2020: we perform a comprehensive diagnostic economic analysis of the Turkish economy by observing structural reforms and others.

Additional Certification And Awards

Erasmus Mundus Scholar

Bloomberg Market concepts: Financial Markets and trading.

Technologies

Languages: MATLAB, R, Python, Git.