

Michael S. Browne, PhD

Email: mbrowne@gwu.edu; Mobile: (202) 329-1802

SUMMARY

Economist with over 15 years of progressive experience working closely with public and private sector stakeholders, developing and applying macroeconomic, forecasting, and policy simulation models to macroeconomic, fiscal, tax and investment policy analysis and program design. Over 8 years of experience architecting and developing software, systems and networks for autonomous generation, storage, analysis, and visualization of economic and financial data.

EDUCATION

THE GEORGE WASHINGTON UNIVERSITY

Department of Economics, PhD in Economics

Department of Economics, MPhil in Economics

Washington, DC

2018

2014

UNIVERSITY OF MARYLAND

Department of Economics, B.A in Economics

College Park, MD

2008

PROFESSIONAL EXPERIENCE

KENTRO

Washington, DC

Lead Economist/Data Scientist (Reference Jeanine Russell: jeanine.russell@kentro.us)

2024- Present

- Lead team of data scientists and economists in the development of artificial intelligence algorithms
- Provide thought leadership among subject matter experts and government officials
- Coordinate and execute applied artificial intelligence and machine learning research projects
- Coordinate and prepare research reports and technical documents to aid policymakers and analysts
- Design and implement data engineering pipelines for data acquisition and modeling
- Design, develop and document processes for the automated reporting of research results
- Present and participate in research review meetings and liaise with government officials

SAGE RESEARCH & DEVELOPMENT, Research Division

Washington, DC

Principal Research Scientist, Data Generation Processes

2022- 2024

- Supervised and executed applied research projects relevant to socioeconomic data generation
- Architected and developed Internet of Things (IoT) software, systems and networks
- Developed application programming interfaces to facilitate machine to machine communication
- Architected and developed ETL (extract, transform and load) data engineering pipelines
- Architected and developed real-time artificial intelligence and machine learning pipelines
- Contributed to the design of internal AI Governance and Data Governance frameworks
- Reviewed and revised Data Governance Processes for compliance with policies and regulations
- Coordinated privacy assessments of cloud resources and data management services
- Designed and implemented data management, quality, privacy, and anonymization processes
- Developed autonomous processes for real-time data visualization and generative reports

TOBAGO HOUSE OF ASSEMBLY, Division of Finance and Enterprise

Scarborough, Tobago

Deputy Chief Economist (Reference Selvon Hazel)

2021- 2022

- Assisted in the management of the unit and provided guidance to its staff
- Coordinated, monitored and prepared technical reports and papers on policy developments
- Coordinated the reviewed and design of economic, fiscal and industrial policy programs
- Executed and supervised major research projects relevant to the economy of Tobago
- Prepared terms of reference and facilitated employment of staff and consultants
- Presented papers and research findings in academic and technical conferences and seminars
- Reviewed and revised data governance strategies and data management processes

INTERNATIONAL FINANCE CORPORATION, CSEIN/CSEIM

Washington, DC

Macroeconomist Consultant (Reference Evgenia Shumilkina: eshumilkina@ifc.org)

2018- Present

- Designed, developed and documented infrastructure investment economic impact models
- Predicted the economic and environmental impacts of infrastructure investment projects
- Developed ETL data engineering and data science pipelines
- Analyzed data using statistical and machine learning methodologies
- Participated in development of the Anticipated Impact Measurement and Monitoring framework
- Designed indicators for the Transport Infrastructure, Mining, and Oil and Gas AIMM frameworks

INTER-AMERICAN DEVELOPMENT BANK, IFD/FMM

Washington, DC

Fiscal Economist Consultant (Reference Gerardo Reyes-Tagle: gerardor@iadb.org)

2014- 2016

- Reviewed and evaluated priorities for comprehensive tax policy reforms for Caribbean nations
- Drafted and revised qualitative and quantitative reports on tax policy and administration issues
- Implemented ETL data pipelines for tax policy, tax expenditure and state enterprise data
- Participated in preparation of Fiscal Strengthening to Support Economic Growth Programs
- Participated in technical assistance and advisory missions and liaised with government officials

THE GEORGE WASHINGTON UNIVERSITY, Research Program on Forecasting

Washington, DC

Academic Research Assistant (Reference Tara Sinclair)

2013- 2018

- Provided research and administrative assistance for program directors and members
- Maintained program website, RePEc page and social media accounts
- Organized forecasting seminars/webinars, and 14th and 17th OxMetrics User Conferences

BARBADOS, Ministry of Finance and Economic Affairs

St. Michael, Barbados

Macroeconomic Analyst Consultant (Reference Derek Gibbs: gibbsd@caribank.org)

2013

- Modeled and programmed macroeconomic model of the Barbados economy
- Implemented ETL data pipelines used in the macroeconomic model
- Forecasted macroeconomic policy scenarios to aid in policy analysis and formulation
- Provided technical training to ministry personnel in use of the macroeconomic model

BENCHMARK FORECASTS

Washington, DC

Macroeconomic Research Analyst (Reference Fred Joutz)

2012- 2022

- Implement ETL data pipelines from multiple energy and macroeconomic data sources
- Develop and test energy and macroeconomic models for forecasting and policy analysis
- Draft, revise and review technical and policy reports
- Referee papers for academic journals including Energy Economics and Energy Policy

MANUFACTURERS ALLIANCE FOR PRODUCTIVITY AND INNOVATION

Arlington, VA

Econometric Analyst Intern (Reference Dan Meckstroth)

2012

- Modeled and programmed Input-Output model of the US economy
- Forecasted US macroeconomic data using the developed Input-Output model
- Specified and estimated structural econometric models of the US economy

INSTITUTE FOR POLICY STUDIES

Washington, DC

Macroeconomic Analyst Intern (Reference Dedrick Muhammad)

2009

- Drafted and co-authored articles, reports, grant proposals and opinion-editorials
- Coordinated efforts with other organizations for collaborative projects and events
- Organized events within the organization and for the public

TRINIDAD AND TOBAGO, Judiciary Research and Statistics Unit

Port of Spain, Trinidad

Statistical Analyst Intern (Reference Desmond Hunte)

2007

- Implemented ETL data pipeline to make data readily accessible
- Analyzed judicial statistical data and drafted analytical reports
- Designed, conducted and evaluated surveys carried out within the judicial system

SKILLS

Cloud/Data: Airflow, Azure, Cassandra, Docker, Etc, Kafka, K8s, Pandas, PyTorch, Spark, SQL, TensorFlow

Languages: Native in English; Intermediate in Spanish and French

Programming: Bash/Dash, Go, JavaScript, Linux, Python, R, Rust, Solidity

Software: EViews, Matlab, Microsoft Office, OxMetrics, SAS, Stata, Tableau

TEACHING EXPERIENCE

THE GEORGE WASHINGTON UNIVERSITY

Washington, DC

Adjunct Professor (Coordinator Michael Bradley)

2017- Present

- Lecturer in Macroeconomic Theory, Department of Economics
- Lecturer in Macroeconomic Theory, Elliot School of International Affairs

CONFERENCE ACTIVITIES

25th Federal Forecasters Conference, Participant	2024
21st Dynamic Econometrics Conference, Presenter	2019
Caribbean Centre for Money and Finance 50th Annual Monetary Studies Conference, Presenter	2018
Workshop on Forecasting Issues in Developing Economies, Participant	2017
Caribbean Centre for Money and Finance 48th Annual Monetary Studies Conference, Presenter	2016
Central Bank of Barbados 36th Annual Review Seminar, Presenter	2016
17th OxMetrics User Conference, Presenter	2016
21st Federal Forecasters Conference, Participant	2015
14th OxMetrics User Conference, Participant	2014
11th OxMetrics User Conference, Participant	2012

AWARDS/GRANTS

The George Washington University, Conference Travel Grant for Graduate Students	2016
The George Washington University, Department of Economics Conference Travel Grant	2016
The George Washington University, Department of Economics Conference Travel Grant	2016
17th OxMetrics User Conference, Best PhD paper and presentation	2016

SERVICE AND MEMBERSHIP

GWU Research Program on Forecasting, Member and archivist	2013- Present
GWU Research Program on Forecasting, Research assistant	2013- 2018
17th OxMetrics User Conference, Local organizing committee	2016
14th OxMetrics User Conference, Local organizing committee	2014
GWU Student Association for Graduate Economics, Member	2012- 2018
GWU Macroeconomics Reading Group, Member	2013- 2018

WORKING PAPERS

“Liquidity effects on consumers’ imports in Trinidad and Tobago”

- The George Washington University Research Program on Forecasting Working Paper 2016-005
- Central Bank of Barbados Working Paper 2017-02

“Estimating monetary policy rules in small open economies”

- The George Washington University Research Program on Forecasting Working Paper 2019-001
- Paper presented at the Caribbean Centre for Money and Finance 48th Annual Monetary Studies Conference

“The Dutch Disease and Monetary Policy”, joint with Fred Joutz

- Paper presented at the 21st Dynamic Econometrics Conference
- Paper presented at the University of Vigo Department of Economics Macroeconomics Seminar
- Paper presented at the Caribbean Centre for Money and Finance 50th Annual Monetary Studies Conference

ACADEMIC REFERENCES

Research Professor Neil R. Ericsson (Dissertation Co-Director, ericsson@frb.gov)

Division of International Finance, Board of Governors of the Federal Reserve System

Professor Frederick L. Joutz (Dissertation Co-Director, bmark@gwu.edu)

Department of Economics, The George Washington University

Professor Tara M. Sinclair (Dissertation Committee Member, tsinc@gwu.edu)

Department of Economics, The George Washington University

Professor Michael D. Bradley (Dissertation Committee Member, mdbrad@gwu.edu)

Department of Economics, The George Washington University