Washington, DC 20002
1 (724) 584 8807
jberry32@jhu.edu
www.linkedin.com/in/jareddberry
jareddberry.github.io

Jared D. Berry

Education

2019 (Anticipated) **Data Science Certificate**, *Georgetown University*, Washington, DC.

2016–2017 **Master of Arts, International Economics and Finance (MIEF)**, *Johns Hopkins University, School of Advanced International Studies*, Washington, DC.
Cumulative GPA: 3.97, with Distinction; STEM-Accredited in 2018

2011–2015 **Bachelor of Arts, Economics**, *Capital University*, Columbus, OH.
Cumulative GPA: 3.99, Honors, Summa cum Laude

Experience

2017–Present **Senior Research Assistant**, *Federal Reserve Board of Governors*, Washington, DC.

- Operationalized and automated use of daily bank balance sheet data to monitor balance sheet normalization using R, developing all data manipulation and visualization infrastructure
- Automated multiple preexisting section production items end-to-end from initial data munging to visualization and analysis using R, Python and bash scripting/crontab
- Led onboarding of division research assistants with intensive introduction to the Board workflow and development environment, particularly using the R programming language
- Engineered proxy features for bank lending standards and implemented parallelized machine learning algorithms (GBM and Random Forest) on a SLURM scheduler to predict future standards and establish variable importances
- Wrote and optimized code to operationalize weekly branch-level deposit rate data and built out analytics and visualization for monitoring using R (dplyr and ggplot2) and PostgreSQL
- Developed a monitor for bank earnings expectations using Thomson Reuters I/B/E/S data, tapping into data pipelines with Python and PostgreSQL and building out visualizations in R
- Led the overhaul of production pipeline to reliably process quarterly Senior Loan Officer Opinion Survey (SLOOS) data, incorporating robust error-handling and version control
- Co-authored FEDS Note on changes in net interest margins (NIMs) at banks relative to monetary policy tightening implementing decompositions using bank balance sheet data in R
- Acted as lead RA for three SLOOS rounds, processing all micro data, liaising with system-wide survey teams to coordinate releases, and building out analytics and visualizations
- Conducted extensive first-pass regression analysis in Stata to assess the impact of capital requirements on high volatility commercial real estate lending

2018-2019 **Adjunct Lecturer**, *Johns Hopkins University*, Washington, DC.

- Coordinated and led an intensive introductory course in the R programming language for 30+ master's degree students in the MIEF program Winter Intercession
- Created course materials in R Markdown to cover foundations, data visualization, and data manipulation/wrangling with Tidyverse packages using the RStudio IDE

2017 **Teaching Assistant–Missaka Warusawitharana & Jaime Marquez**, *Johns Hopkins University*, Washington, DC.

- Coordinated and led review sessions for Quantitative Methods course for MIEF 2017-2018 cohort, covering OLS, logit and probit models, instrumental variables, introductory time-series analysis, and panel-data analysis
- Coordinated and led review sessions for mid-career professionals in international monetary policy and banking as part of the Global Policy Practitioners program, covering economic monitoring, interest rate determination, and unconventional monetary policy

2016-2017 **Research Assistant–Jaime Marquez**, *Johns Hopkins University*, Washington, DC.

- Conducted analysis to determine interest rate regime interdependency across developed economies by modeling interdependent Taylor Rules with Full-Information Maximum Likelihood models (using OxMetrics) and Monte Carlo methods (using Excel)

Masters Capstone

The Role of Theory-Motivated Fundamentals in Long-Horizon Exchange Rate Forecasting

Dr. Jaime Marquez

Examined the role of "fundamentals" (or theory) in long-term exchange rate forecasting, improving the accuracy of long-term exchange rate forecasts by incorporating structural components, such as the relative price ratio. Analysis conducted in EViews.

Technical Skills

Statistical computing	R, EViews, Stata, Matlab	Data stores	SQL(PostgreSQL), SAS, FAME
Programming	Python, Linux (bash)	Markup	LaTeX, Markdown
Version control	Git	Office	Excel, PowerPoint, Word

Relevant Graduate/Post-Graduate Coursework

- Time-Series Econometrics
- Cross-Sectional Econometrics
- Corporate Finance
- Foundations of Data Analytics and Data Science
- Risk Analysis & Modeling
- Global Macro Modeling
- Multinational Corporate Finance
- Software Engineering for Data

Additional Coursework

- Machine Learning by Stanford University–Coursera
- Applied Machine Learning in Python by University of Michigan–Coursera
- Introduction to Computer Science and Programming Using Python by MIT–edX
- Introduction to Computational Thinking and Data Science by MIT–edX