


Jared D. Berry

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Education

- 2019 **Data Science Certificate**, *Georgetown University*, Washington, DC.
(Anticipated)
- 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, Summa cum Laude

Experience

- 2017–Present **Senior Research Assistant**, *Federal Reserve Board of Governors*, Washington, DC.
- Operationalized and automated use of large 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 commercial and industrial bank lending standards and implemented parallelized machine learning algorithms (GBM and Random Forest) and regression analysis to predict future standards and establish variable importances
 - Developed and optimized code to operationalize weekly branch-level deposit rate and fee data and built out analytics and visualization for monitoring during normalization using R (dplyr and ggplot2) and PostgreSQL
 - Developed a monitor for bank earnings expectations for section economists, tapping into WRDS data pipelines using Python and PostgreSQL and building out visualizations in R
 - Led the overhaul of section production pipeline to reliably process quarterly SLOOS survey data, incorporating robust error-handling and version control
 - Wrote scripts in R using regular expressions and distance measures to merge data sets on "fuzzy" text-based keys
 - Served as lead RA for three SLOOS rounds, responsible for processing all response micro data, liaising with system-wide survey teams to coordinate releases, and building out all analytics and visualizations
- 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 and Monte Carlo methods

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.

Technical Skills

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

Relevant Coursework

- Time-Series Econometrics
- Cross-Sectional Econometrics
- Corporate Finance
- Risk Analysis & Modeling
- Global Macro Modeling
- Multinational Corporate Finance

Additional Coursework

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