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Jared D. Berry

Education

2019 **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

2019–Present **Data Scientist**, *Morning Consult*, Washington, DC.

- Developed functions in R to parse unstructured .docx files into JSON to programmatically upload surveys through the Qualtrics API
- Wrote Python code to programmatically process unaided recall responses using a combination of regular expressions and edit distance
- Automated regular data pulls from brand intelligence platform using R and bash scripting/crontab to more rapidly deliver content to clients
- Performed first-pass drivers analysis using LASSO and Random Forest models to determine key demographic drivers of favorability toward clients' brands

2018–Present **Adjunct Lecturer**, *Johns Hopkins University*, Washington, DC.

- Coordinate and lead intensive, introductory, skills courses in the R programming language for master's degree students in the MIEF program
- Created course materials in R Markdown to cover foundations, data visualization, and data manipulation/wrangling with Tidyverse packages using the RStudio IDE

2017-2019 **Senior Research Assistant**, *Federal Reserve Board of Governors*, Washington, DC.

- 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
- 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
- Engineered proxy features for bank lending standards and implemented parallelized machine learning algorithms in SLURM to predict future standards and establish feature importances
- Led onboarding of research assistants with intensive introduction to the Board workflow and development environment, with emphasis on fundamentals of programming in R
- Performed entity resolution to merge disparate panels of banks across multiple data sources

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

- Coordinated and led recitations for Quantitative Methods course for MIEF 2017-2018 cohort, covering OLS, logit/probit models, IVs, introductory time-series analysis, and panel data
- Coordinated and led recitations for mid-career professionals in international monetary policy and banking as part of the Global Policy Practitioners program

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)

Data Science Capstone

Passive Portfolio Management: Predicting Excess Returns with Machine Learning

Constructed a novel data set of carefully engineered financial features and leveraged machine learning algorithms in Python to predict excess returns relative to an index, using custom-built frameworks for cross-validation

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	Data stores	SQL(PostgreSQL), SAS, FAME
Programming	Python, Linux (bash)	Markup	LaTeX, Markdown
Version control	Git, GitLab	Office	Excel, PowerPoint, Word

Relevant Coursework

- Time-Series Econometrics
- Cross-Sectional Econometrics
- Corporate Finance
- Software Engineering for Data
- Data Ingestion and Wrangling
- Visual Analytics
- Risk Analysis & Modeling
- Global Macro Modeling
- Multinational Corporate Finance
- Data Sources and Storage
- Machine Learning