LEX BASS

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EDUCATION

University of Virgina Charlottesville, VA

Master of Science: Data Science

Brigham Young University Provo, UT

Bachelor of Arts: Political Science

SKILLS

Languages and Tools - proficient: Python, R, Bash intermediate: Spark, SQL, Tensorflow/Keras, Git, Docker Selected Coursework - Deep Learning, Bayesian Machine Learning, Big Data Systems with Spark, Linear Models for Data Science, Statistical Learning, Data Engineering, Linear Algebra, Econometrics I & II, Data Visualization, Programming in Python

EXPERIENCE

Dynata Data Scientist, Marketing Aug 2022-Present Herndon, VA

- · Delivered 30+ advanced analytical studies (MTA, drivers analysis, diff-in-diff) to high profile clients including 15+ to marketing teams at Google and Meta
- Built diff-in-diff and multi-touch attribution model codebase in Python(OOP) for Ad Data Science Team. This codebase has saved 100+ hours and brought over in \$2 million in revenue to date

Internet Archive Nov 2022-May 2023

Intern, Data Science

Washington, D.C.

- Solved entity resolution problem with Gradient Boosted Trees [here] linking sparse wikipedia references to Internet **Archive Database References**
- Implemented model in Python [here] which, given a wikipedia reference, will return a match in the Internet Archive Database along with a probability of matching.

Morning Consult Nov 2021-Aug 2022 Washington, D.C.

Senior Data Analyst

- Developed and automated wave-over-wave statistical tests on time series data in 17 tracker surveys of 5 countries
- · Led project to build a Python Web Bot (Selenium) to automate generation of test cases in surveys, contributed this to data science code base (used by 60+ data scientists)
- Over 300+ requests, pulled data from API or large database into R, wrangled data using R, and output figures and tables

April 2020-Nov 2021 **Echelon Insights** Research Analyst Alexandria, VA

- Led in modeling projects predicting election turnout for entire U.S. in 2022, phone response rates, etc.
- Wrangled, cleaned, weighted, or made presentations for 60+ survey datasets with R, SQL, and AWS
- Using R Shiny, built a codeless-crosstab tool for company's research team

Center for Elections and Democracy

Dec 2018-April 2020 Provo, UT

Research Fellow

• Designed and executed multiple survey experiments in original research projects

- Mentored 60+ students in solving econometrics problems in weekly office hours
- Visualized data using R creating 50+ informative figures for AFS official report [here], news outlets, and professor's projects

SELECTED PROJECTS

Bayesian County-Level School Shooting Analysis

August 2022

· Compared and estimated several Bayesian Regression models with PYMC3 in Python. Ultimately, used hierarchal negative binomial model to predict shootings and make inferences about gun laws

Political Message Detection and Likeability in Films

April 2020

- recieved award from Political Science department to fund a panel survey (n=1000).
- estimated linear regression and multinomial logit in observational study context and wrote paper [here] on findings.