

ALEX BASS

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EDUCATION

University of Virginia

Master of Science: Data Science

Expected Apr 2023

Charlottesville, VA

Brigham Young University

Bachelor of Arts: Computational Political Science

Thesis: Political Message Detection and Likeability in Films (n=1000 survey)

Apr 2020

Provo, UT

EXPERIENCE

Dynata

Data Scientist

Aug 2022-Present

Herndon, VA

- Built diff-in-diff and multi-touch attribution modeling codebase in Python(OOP) for Ad Data Science Team and spec requesting these studies for Research Team. This code base has saved 100+ hours and brought in \$100,000s in revenue.

Morning Consult

Senior Data Analyst

Nov 2021-Aug 2022

Washington, D.C.

- Over 300+ requests, pulled data from API or large database into R, wrangled data using R, and output figures and tables
- In conjunction with other data scientists on a large project, developed and performed statistical tests on time series data in 17 surveys of 5 countries in over 200 tables
- 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), saving company \$10,000s in time and errors

Echelon Insights

Research Analyst

April 2020-Nov 2021

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

Undergraduate Research Fellow

Dec 2018-April 2020

Provo, UT

- 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 the AFS official report, news outlets, and professor's projects

PERSONAL PORTFOLIO PROJECTS

Bayesian County-Level School Shooting Analysis

August 2022

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

Weekly COVID Email Update

November 2021

- Fully automated workflow (Github Actions) taking latest CDC data, transforming into visualizations, and sending informative email every Saturday morning to subscribers made in R
- encrypted all API tokens via custom encryption (R package Sodium) + github environment variables so repository can be publicly viewable
- Each subscriber receives national data and state-level data customizable to their home state

US 2020 Election Model

November 2020

- Created visualization dashboard with plotly displaying daily results of statistical model
- Generated 1000 simulations daily of election winner based on a probabilities from model for each state
- Modeled and adjusted for survey error using fixed effects regression