ALEX BASS

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EDUCATION

University of Virginia — Expected Apr 2023
Master of Science: Data Science — Washington, DC

Brigham Young University — Apr 2020
Bachelor of Arts: Computational Political Science — Provo, UT
Thesis: Political Message Detection and Likeability in Films (n=1000 survey)

EXPERIENCE

Morning Consult — Nov 2021-Present
Senior Data Analyst — Washington, D.C.
- Over 1000+ 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 — April 2020-Nov 2021
Research Analyst — Washington, D.C.
- 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 the Study of Elections and Democracy — Dec 2018-April 2020
Undergraduate Research Fellow — Provo, UT
- Mentored 60+ students in solving econometrics problems in weekly office hours
- Designed and executed multiple survey experiments in original research projects
- Visualized data using R creating 50+ informative figures for the AFS official report, news outlets, and professor's projects

PERSONAL PORTFOLIO PROJECTS

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.
- Customizable providing data to each subscriber's home state

US 2020 Election Model — November 2020
- Generated daily simulation based on a series of one sample t-tests from each state's 5 latest polls
- Modeled survey error using fixed effects model
- Created 3 visualizations displaying daily results that ran on script

Word Search Puzzle Generator — July 2020
- Built Shiny App that generates wordsearch puzzle and key
- Downloadable as csv for distribution