

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 <i>Thesis: Political Message Detection and Likeability in Films (n=1000 survey)</i>	Apr 2020 Provo, UT

EXPERIENCE

Dynata Data Scientist	Aug 2022-Present Herndon, VA
Morning Consult Senior Data Analyst <ul style="list-style-type: none">Over 300+ requests, pulled data from API or large database into R, wrangled data using R, and output figures and tablesIn 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 tablesLed 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	Nov 2021-Aug 2022 Washington, D.C.
Echelon Insights Research Analyst <ul style="list-style-type: none">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 AWSUsing R Shiny, built a codeless-crosstab tool for company's research team	April 2020-Nov 2021 Alexandria, VA
Center for Elections and Democracy Undergraduate Research Fellow <ul style="list-style-type: none">Designed and executed multiple survey experiments in original research projectsMentored 60+ students in solving econometrics problems in weekly office hoursVisualized data using R creating 50+ informative figures for the AFS official report, news outlets, and professor's projects	Dec 2018-April 2020 Provo, UT

PERSONAL PORTFOLIO PROJECTS

Bayesian County-Level School Shooting Analysis <ul style="list-style-type: none">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	August 2022
Weekly COVID Email Update <ul style="list-style-type: none">Fully automated workflow (Github Actions) taking latest CDC data, transforming into visualizations, and sending informative email every Saturday morning to subscribers made in RCustomizable providing data to each subscriber's home state	November 2021
US 2020 Election Model <ul style="list-style-type: none">Created visualization dashboard with plotly displaying daily results of statistical modelGenerated 1000 simulations daily of election winner based on a probabilities from model for each stateModeled and adjusted for survey error using fixed effects regression	November 2020