

# ALEX BASS

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**Summary:** Data Scientist with graduate degree + 5 years of experience focusing on **surveys, marketing, and causal inference**  
**Languages:** Python, R, SQL, Spark, Javascript (in this order)

## EDUCATION



**University of Virginia**

Charlottesville, VA

Master of Science: Data Science



**Brigham Young University**

Provo, UT

Bachelor of Arts: Political Science

## EXPERIENCE



**Meta**

(6mth) April 2024-Present

*Data Scientist V, Contractor*

New York, NY

- Built tools on **Meta's marketing decision science team** analyzing ads for public affairs and policy elites.
- Analyzed on-platform experiment data and marketing campaign survey data; Keywords: diff-in-diff, funnel analysis.



**Dynata**

(1yr 8mth) Aug 2022-April 2024

*Data Scientist, Marketing*

Herndon, VA

- **Led team (3 DS) to build a bayesian multi-touch attribution (PYMC) product measuring effectiveness of ad campaigns on brand lift surveys.** Outputting lift curves, channel contribution charts, and a simulation tool for client delivery.
- Regularly deliver advanced analytical studies (diff-in-diff, dominance analysis, time series, MTA). In total, delivered over 100 of these studies to clients including Google, Meta, CVS, Chickfila, and AT&T.



**Morning Consult**

(10mth) Nov 2021-Aug 2022

*Senior Data Analyst*

Washington, D.C.

- **Developed and automated wave-over-wave chi-squared tests on time series data** in 17 tracker surveys of 5 countries
- Over 300+ requests, pulled data from API or large database into R, wrangled data using R, and output figures and tables



**Echelon Insights**

(1yr 8mth) April 2020-Nov 2021

*Data Analyst*

Alexandria, VA

- Led in modeling projects **predicting election turnout for entire U.S. in 2022** analyzing over 460 million records.
- Wrangled, cleaned, weighted, or made presentations for 60+ survey datasets with R, SQL, and AWS

## SOFTWARE

[survey\\_tools](#) - Creator and Maintainer of an open-source **python package for survey researchers** with convenient functions for weighted crosstabs, recoding variables, and weighting surveys. This package is available on [github](#) and [PyPI](#).

## SELECTED PROJECTS

[Live Dashboard - 2024 US Pres. Election Forecast](#)

January 2024

- Estimate daily a heirarchal bayesian beta regression model to generate probabilities of election outcomes using latest polls
- Created a live data pipeline with Github Actions and Python > Live Quarto Dashboard

[Entity Resolution with Gradient Boosted Trees](#)

May 2023

- **Solved entity resolution problem** linking sparse wikipedia references to Internet Archive API 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.

[Star Wars: Political Messages and Likeability](#)

January 2020

- Awarded \$1500; wrote, fielded, analyzed original survey research project with [Prolific](#)
- Observational study: answered research questions using multiple linear regression and multinomial logit regression.