

Andrew Heritage

Alexandria, VA | (253) 905-0854 | andrewheritage@comcast.net

<https://www.linkedin.com/in/andrewheritage/>

QUALIFICATIONS

- Experienced data scientist and researcher. Able to identify research questions, test hypotheses, select appropriate analytical techniques, and effectively communicate actionable, data-driven findings to both technical and general audiences.
- Familiarity working with large datasets. Experience with wrangling, merging/joining, and cleaning unstructured datasets.

SKILLS

Analytical Tools:

Statistics/Econometrics (R, Python, Stata, SPSS, Qualtrics)
Data Visualization (Tableau, ggplot, Highcharter, R Shiny)
Machine Learning (k-means clustering, principal component)
Natural Language Processing (NLP) / Sentiment Analysis
Geospatial Analysis (tmap, simplefeatures, Leaflet)
Data Scraping

Domain Knowledge:

Survey Research Design, Public Policy Analysis, Macroeconomics,
Political Campaigns / Elections

EXPERIENCE

National Federation of Independent Business (NFIB)

July 2019 – Present

Data & Policy Analyst

- Created 90% efficiency savings by automating survey data ingestion, analysis, and report generation. Applied best practices of data storage to create SQL instance to store historical survey data and flat tables for monthly economic trends survey.
- Wrote RMarkdown script to automate monthly report generation. Built R Shiny dashboard to interactively display survey results.
- Conducted research on minimum wage impact (structural equation dynamic modeling), time-series forecasting (vector autoregression; VAR), seasonal decomposition (ARIMA).
- Collaborated with lobbying and media teams to make research findings actionable.

i360

July 2018 - July 2019

Data Analyst

- Conducted analysis on volunteer retention (survival model), candidate approval ratings (Multilevel regression with poststratification; MRP), grassroots campaign impact (regression discontinuity design; RDD), text messaging data (sentiment analysis).
- Routinely wrangled, synthesized calculations, and joined multi-million row datasets.
- Prepared survey scripts, created sampling universes of registered and likely voters, applied weighting algorithms to survey results.
- Conducted “deep dive” analysis with turnout forecasts and voter issue models. Built dashboards for clients in Tableau to track touchpoints and election returns.
- Improved volunteer retention by 20% by testing findings from survival analysis model on volunteer activity data. Conducted A/B testing to measure impact.

Andrew Heritage

Alexandria, VA | (253) 905-0854 | andrewheritage@comcast.net
<https://www.linkedin.com/in/andrewheritage/>

California Policy Center Policy Fellow

September 2016 - May 2017

- Managed a team of three interns that conducted original research analyzing California's public school building condition reports.
- Wrote seven policy briefs on education policy and public finance. Published an op-ed critiquing survey methodology regarding polling results.
- Compiled actuarial reports on public pensions from municipal, county, and state sources in SQL tables for analysis.

Claremont Graduate University Research Assistant

August 2012 - May 2014

- Compiled data for analysis on macroeconomic indicators and political institutions.
- Researched and wrote academic literature reviews. Presented at academic conferences.

Carney Badley Spellman Legislative Assistant

December 2008 - June 2010

- Tracked legislation of interest to clients in a variety of industries; including construction, finance, health care, insurance, and telecommunications. Attended committee hearings and interacted with legislators and staff.

EDUCATION

Ph.D. Candidate (2020), Political Science, Claremont Graduate University

- Dissertation defense expected by December 2020

M.A. (2016), International Political Economy, Claremont Graduate University

B.A. (2007), Political Science, University of Washington