POWELL R. SHEAGREN

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EDUCATION AND COURSEWORK

Georgetown University Graduate School of Arts and Sciences, Washington DC   2023-2025
Masters: Data Science and Analytics
Coursework: Probabilistic computing, advanced data visualization, database systems, supervised and unsupervised modeling.

Swarthmore College, Swarthmore, PA,   2018-2022
Bachelor of Arts: Double Major in Political Science and Mathematics with an Emphasis on Statistics
Coursework: Survey design, public opinion research methodology, Frequentist and Bayesian statistics, public policy, statistical modeling

WORK EXPERIENCE

Data Fellow, Project Lead, Bluebonnet Data   09/2022 – Present
Member of the Fellow Advisory Council   *Austin, TX*
- Identified target districts for canvassing in Texas house 132 election using VAN voter file data, impacting allocation of campaign funds.
- Compared VAN data to FEC national donor information in R to target donors in the desired districts, increasing fundraising efforts.
- Managed a team of 4 remote 2023 summer fellows: checking in with fellow's progress weekly, scheduling biweekly meetings with 5 non-profit clients, and ensuring timely arrival deliverables.

Data Manager, Voter Empowerment Project   11/21/2022 –06/29/2023
Working under CEO and Founder Dave Chandrasekaran   *Washington, DC*
- Summarized and visualized survey response data from VEP volunteers and partner organizations which were presented at the quarterly board meeting and informed future survey development.
- Developed 2 Shiny apps for partner organizations using public census and shapefile data to improve voter registration targeting.
- Created a targeting algorithm for user a separate partner organization which increased positive response rates by 20 percent.

Survey Data Intern, Trendency   08/2022 – 12/2022
Working under Harini Swaminathan, Research Director   *Washington, DC*
- Conducted data wrangling and analytic tasks in R and Python on survey data related to the 2022 election and lived experience metrics.
- Designed 4 slide decks for clients based on visualized demographic breakdowns and statistical inferences.
- Incorporated feedback to improve presentations and tailor results to the external stakeholder as data complexity increased.

PROJECTS

Data Science and Analytics Final Project , Georgetown DSAN   Fall 2023
- Queried an API and tidied quantitative and qualitative data with tidyverse and pandas from Ravelry's pattern database.
- Conducted exploratory data analysis: visualizing correlations, providing naïve bayes classification estimates, applying random forests to find data clusters, and reducing dimensionality all to find ways of improving the database's recommendation algorithm.
- Compiled and reported successes in a presentation for the Georgetown DSAN department.

Political Science Senior Comprehensive, Swarthmore College   Spring 2022
- Established project on effects of drought on water policy public opinion in my home state of California.
- Merged data across 18 Berkley IGS poll survey years in Python by question and cleaned results in R to prepare for modeling.
- Utilized a multiple linear regression model that statistically showed droughts increased favorability by about .75 percent a year.
- Compared practical to theoretical results in a presentation for the entire Swarthmore Political Science department.

Principal Component Analysis Paper, CIMAT Data Science Workshop   Summer 2021
- Sourced data from the BIARE wellbeing survey in Mexico which covered wellbeing in 41 questions.
- Employed principal component analysis (PCA) to index wellbeing into a single variable which was compared with economic indicators.
- Synthesized results into a paper on the subject which I presented at the 61st Western Regional Science Association conference.

KNOWLEDGE, SKILLS, AND ABILITIES

Hard Skills: R, Excel, Microsoft Office, Python, Stata, GIS, ArcGIS, Java, SQL, Git, HTML, Tableau, Latex.
Soft Skills: Communication, Teamwork, project management, solutions oriented, flexibility, oral and written communication skills, presentation.
Interests: knitting, reading, data journalism, film and culture, dance, progressive politics, acting.