

# 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: neural networks, natural language processing , advanced data visualization, database systems, cloud computing.

**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

**Programs Associate, Bluebonnet Data**

4/1/2024 – Present

*Working under Executive Director Jake Jackson*

*Austin, TX*

- Managed multiple cohorts of volunteers and project leads connecting to different clients across the country.
- Launched the AI and Innovation initiative, gathering key insights from stakeholders and directing volunteers on projects.
- Engaged with clients and helped manage the volunteer admissions pipeline through monthly meetings and interviews.

**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

**Artificial Neural Networks Final Project, Georgetown DSAN**

Spring 2024

- Constructed a convolutional neural network to analyze queried Amazon product images on a regression task to predict price of products.
- Implemented a visual transformer to vary the images and increase the eventual accuracy of the project.
- Tracked decisions of the model to anecdotally connect results to areas of focus.

**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

- 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.

## KNOWLEDGE, SKILLS, AND ABILITIES

**Hard Skills:** R, Excel, Microsoft Office, Python, Stata, GIS, ArcGIS, Java, SQL, Git, HTML, Tableau, Latex, VAN.

**Packages:** Tensorflow/Keras, Pandas, Pytorch, Numpy, SkLearn, Tidyverse, ggplot,

**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.