

# Peter Bachman

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## Education

### Washington University in St. Louis

May 2024

M.A. Political Science; Emphasis on Statistics and American Politics

### Utah State University

May 2021

B.A. Political Science; Minors in Statistics and Japanese

## Professional Experience

### Washington University in St. Louis - Weidenbaum Center

August 2024 - Present

*Statistical Data Analyst I*

- Audited, cleaned, and updated existing data and code to ensure the accuracy of statistical findings.
- Standardized data across five related databases.
- Wrote supporting documentation, outlining the databases and procedures to follow in code replication.
- Developed data visualizations to communicate statistical analyses and enhance interpretation.

### Washington University in St. Louis - Department of Political Science

May 2022 - May 2024

*Data Science Researcher*

- Maintained relational databases of Twitter posts and comments using **SQL**.
- Combined various data sources into cohesive datasets for statistical analysis, also creating .
- Collected, summarized, and analyzed existing research, creating report documents for other researchers.
- Prepared, analyzed, and summarized survey data and statistical results in **R** and **Python**.
- Managed a team of graduate students to develop an statistical analysis package written in **R**.
- Modeled and analyzed complex social behaviors using statistical modeling techniques.

### Utah State University - Advancement Services

August 2018 - May 2021

*Data Entry*

- Updated records of gifts to the university and helped track donations across alumni using CRM software.
- Validated the accuracy of archived transcripts with a digital database.
- Collected and maintained biographical records of alumni using LexisNexis to find important events.

## Applied Data Analysis Experience

### Washington University in St. Louis - Department of Political Science

August 2021 - May 2024

- Collaborated on research projects about American political behavior, presenting analyses to local and national audiences.
- Developed and trained machine learning models to understand Supreme Court behavior.
- **Relevant Coursework:** Game Theory, Econometrics, Statistical Modeling, Machine Learning, Bayesian Modeling, Natural Language Processing, Causal Inference, Public Opinion, American Political Behavior

## Skills

Languages: **Python**, **R**, **SQL**, **HTML**

Programs: **Git**, **Tableau**

Statistical Analysis: **Regression Analysis**, **Bayesian Modeling**, **Natural Language Processing**, **Causal Inference**