

# Peter Bachman

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## Education

### Washington University in St. Louis

2021 - 2024

M.A. Political Science; Emphasis on Quantitative Political Methodology and American Politics

### Utah State University

2021

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

## Professional Experience

### Washington University in St. Louis

May 2022 - Present

*Data Science Researcher*

- Managed data processing workflows using **Git**.
- Maintained databases of Twitter posts and comments using **SQL**.
- Developed visualizations in **Python** and **R** to communicate statistical findings and enhance data interpretation.
- Analyzed, prepared, and summarized survey data and statistical findings.
- Combined various data sources into cohesive datasets for statistical analysis.
- Collaborated with graduate students to develop an **R** package for multidimensional scaling across multiple datasets.
- Utilized OCR and OpenAI's LLMs to extract and validate information from PDFs.

### Washington University in St. Louis

August 2022 - Present

*Assistant Instructor*

- Assisted in teaching graduate and undergraduate political science courses in classes ranging from 10 to 100 students.
- Developed weekly assignments, problem sets, and exams to enhance student learning outcomes.
- Conducted a summer course focusing on applied statistical programming using **R**.

## Research Experience

### Washington University in St. Louis

August 2021 - Present

- Developed and trained machine learning models for text classification in legal texts.
- Collected, cleaned, and analyzed quantitative and qualitative data using **Python** and **R**.
- Led several research projects investigating the behavior of Supreme Court Justices.
- Presented research findings to local and national audiences.
- Compiled large-scale legal datasets to analyze the behavior of Supreme Court Justices.
- **Relevant Coursework:** Game Theory, Econometrics, Statistical Modeling, Machine Learning, Bayesian Modeling, Natural Language Processing, Causal Inference

### Utah State University

May 2019 - May 2021

- Assembled a large-scale database using a combination of API requests, **SQL** queries, and web scraping.
- Presented research projects and statistical findings to a diverse audience.

## Skills

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

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

Statistical Analysis: **Regression Analysis**, **Bayesian Modeling**, **Topic Modeling**, **Word Embeddings**, **LLMs**, **Sentiment Analysis**, **Text Classification**, **Causal Inference**