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**
Contract Data Analyst

- Developed data visualizations in **Python** and **R** to communicate statistical findings and enhance interpretation.
- Reviewed, cleaned, and updated existing code to ensure the consistent replication of statistical findings.

Washington University in St. Louis - Department of Political Science **August 2022 - May 2024**
Assistant Instructor

- Instructed students in multiple courses about the importance of data, data analysis, and various political concepts.
- 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 and data analysis using **R**.

Washington University in St. Louis - Department of Political Science **May 2022 - May 2024**
Data Science Researcher

- Prepared, analyzed, and summarized survey data and statistical results.
- Managed and improved data processing workflows across multiple projects using **Git**.
- Combined various data sources into cohesive datasets for statistical analysis.
- Led a team of graduate students to develop an **R** package for multidimensional scaling across multiple datasets.
- Utilized OCR and LLMs to extract and validate information from PDFs, improving existing processes.
- Maintained databases of Twitter posts and comments using **SQL**.

Applied Data Analysis Experience

Washington University in St. Louis - Department of Political Science **August 2021 - May 2024**

- Developed and trained machine learning models for text classification in legal texts to understand Supreme Court behavior.
- Led a team of seven undergraduate students in hand-coding Supreme Court opinions for LLM fine-tuning.
- Collaborated on and led multiple research projects focused on American political behavior.
- Presented research findings to local and national audiences.
- **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**, **Topic Modeling**, **Word Embeddings**, **LLMs**, **Sentiment Analysis**, **Text Classification**, **Causal Inference**