

Brandon Derr

People-centered Data Analyst

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Hattiesburg, MS (Desire to relocate)

Professional Statement

People-centered data analyst with graduate-level training in analytics, statistics, and research methodology. Experienced in developing end-to-end data pipelines, performing rigorous modeling, and communicating complex findings as clear, actionable insights. Brings strong professional communication skills and experience working collaboratively across teams to support data-driven decision-making.

Core Competencies

Programming: Python, R, SQL; Git/GitHub; Jupyter, RStudio

Statistical Modeling: Regression, GLMs/GLMMs, forecasting, experimental design, fixed effects

Data Engineering: ETL workflows, API integration, large-scale preprocessing, reproducible pipelines

Analytics: Data visualization, EDA, feature engineering, machine learning classification

Communication: Technical writing, presentations, stakeholder coordination, cross-team collaboration

Relevant Projects

Bluesky Political Polarization

Jun – Oct 2025

- Collected and analyzed 80,000+ Congressional posts from Bluesky to study political polarization.
- Built an end-to-end analysis pipeline (scraping, cleaning, sentiment analysis, negative binomial modeling).
- Found that polarized posts receive 91% more likes and 62% more replies than neutral ones.
- Presented findings and defended methodological decisions to supervisors.

LLMs for Sentiment Analysis

2024

- Designed a zero-shot topic classifier using major AI APIs (Anthropic, OpenAI, Mistral).
- Processed 200,000 Tweets in hours instead of days using automated classification pipelines.
- Analyzed models' accuracy, cost, speed, and consistency.

Senate Climate Change Messaging Analysis

2022 – 2024

- Collected 200,000+ Congressional Tweets using a Python scraper, studying policy messaging.
- Trained traditional machine learning models to identify climate policy topics.
- Presented results at 4 academic conferences in North America.

Experience

Graduate Research Assistant

Aug 2024 – Dec 2025

Minerva Research Initiative Grant, Department of Defense (DoD)

- Built and documented an R package that made a large government dataset accessible to researchers, shortening data preparation time and simplifying complex data structures.
- Improved the speed and clarity of key functions by over 50%, helping users run analyses more efficiently and consistently.
- Met with a team of researchers twice a month to gather feedback and make sure the tools I developed fit the project's needs.
- Presented research findings at an international conference, helping share results with a broader audience and strengthening the project's visibility.

Research Intern

Aug 2022 – Dec 2023

Institute for Advanced Analytics and Security, USM

- Identified appropriate data sources for a project by comparing several providers and summarizing tradeoffs to help leadership decide on the best option.
- Cleaned incoming datasets and combined them into a single file ready for modeling.
- Worked with team members in weekly meetings to clarify data needs and confirm that insights matched project goals.

Education

M.A. Political Science, Emphasis: Research Methodology

Dec 2025

University of Southern Mississippi, 3.8 GPA

[Click for Masters Thesis](#)

Google Advanced Data Analytics Certificate

Apr 2025

[Click for Certificate Link](#)

B.S. Political Science, Magna Cum Laude

May 2024

University of Southern Mississippi, Honors College, 3.7 GPA

Honors Thesis: "Climate Change Policy Preferences and Senatorial Tweets"

Publications

- Kinne, B., Tellez, J., Stewart, A., Iliev, I., **Derr, B.**, Murthy, S., & Bernhard, P. (2025). Interstate Competition and Transnational Threats. (Under Review at *International Organization*)
- Stan, K., Hill, J., Bernstein, D., **Derr, B.**, et al. (2025). "Gone with the Wind?" Hardly: The Persistence of Climate Beliefs amid Extreme Events. (Submitted for Review)
- Iliev, I. & **Derr, B.** (2025). Terrorist Responses to Verbal Attacks: Strategic Logic Towards Whom? (Working Paper)