TREY WOOD, PH.D.

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🏠 Lexington, KY 40502

EDUCATION		
	Ph.D. Political Science, University of Kentucky	May 2023

- Fields: International Relations and Political Methodology
- Dissertation: *The UN-Intended Effects of Risky Mandates on United Nations Peacekeeping*
  - Conducted analysis of 1.5 million observations to assess United Nations policy effects

M.A. Political Science, University of Kentucky — May 2022

- Fields: International Relations and Quantitative Political Methodology

B.A. International Studies, Covenant College — May 2019

- Dean's List Fall 2015 - Spring 2019 and Graduated Magna Cum Laude

PROGRAMMING LANGUAGES & SOFTWARE

Advanced: Python, R, STATA, SQL (Postgre)
Intermediate: Git/GitHub, Power BI, SAS, Tableau
Beginner: Docker, Geographic Information Systems (GIS)

WORK EXPERIENCE

Science Applications International Corp (SAIC) - Reston, VA (Remote) — October 2023 - Present
Data Scientist

- Led evaluations of facial recognition algorithms, ensuring government standard compliance
- Pioneered research on bias in biometric systems, promoting fairness in facial recognition
- Delivered reports translating AI application outcomes into actionable recommendations
- Leveraged cloud computing and statistical analysis to optimize data processing and analysis

University of Kentucky - Lexington, KY — August 2019 - May 2023
Graduate Researcher

- Developed more than fifteen innovative quantitative research projects in rigorous coursework
- Constructed and analyzed datasets using diverse modeling techniques in STATA and R

University of Kentucky - Lexington, KY — August 2019 - May 2023
Primary Instructor

- Condensed intricate political theories into succinct lessons for classes of 50-60 undergraduates
- Taught graduate statistics to 10 students, covering advanced methods and statistical software

United Way of Greater Chattanooga - Chattanooga, TN — January - May 2018
Data Hub Intern

- Generated GIS maps for Chattanooga neighborhood and crime data for community advocacy
- Offered housing trend insights to Hamilton County officials through impactful GIS visualizations

SELECTED PROJECTS

Predicting Bourbon Availability with ML [GitHub] Forecast Buffalo Trace bourbon stock
Local Peacekeeper Deployments [GitHub] Geo-spatial estimation of local troop movements
United Nations Policy Consequences [GitHub] Assessment of mission mandate conditional effects

SKILLS

Causal Inference, Data Visualization, Data Wrangling, Experimentation, Keras, LaTeX, Machine Learning, Matplotlib, Numpy, Pandas, PySpark, Quantitative Analysis, Regression Analysis, Seaborn, Spanish, Scikit-Learn, Tensorflow, XGBoost