Jeremy Springman, PhD

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Applied researcher working to design, implement, and evaluate data-driven solutions to complex problems:

- 6 years experience recruiting and managing interdisciplinary team of 12 data science researchers
- 10 years experience with causal inference and machine learning research design and execution
- Passionate about communicating research for non-technical audiences to inform decision-making

Work Experience

University of Pennsylvania, PDRI-DevLab

Research Assistant Professor Senior Research Associate & Director of Research July 2024 – Present July 2022 – June 2024

- Awarded \$3.5 million in federal and private research grants as a principal investigator
- Deployed public-facing **R Shiny** data dashboards and early warning system to inform crisis response and policy planning (150 hours of monthly usage; 800 policymakers signed-up for newsletter)
- Designed and analyzed complex randomized experiments to measure success of client projects
- Developed course and mentored students on causal inference + research tools (R, Quarto, GitHub)

Duke University, DevLab@Duke

Senior Research Associate

Post-Doctoral Research Associate

July 2021 – June 2022

January 2019 - June 2021

- Led **Python** and **R** development of large-scale webscraping and highly-multilingual ML text classification pipeline to continuously monitor and forecast political instability in 63 countries
- Managed 3-arm trial with matched quadruplet randomization from design through evaluation
- Programmed multi-lingual online survey experiments in Qualtrics (Javascript, HTML)
- Published 3 empirical research articles in peer-reviewed academic journals

Recent Invited Public Speaking

- U.S. Department of State (Washington, D.C.): Presented results from commissioned trial applying original data and time-series forecasting to guide budget and operations planning
- U.S. Army (Fort Liberty); Leibniz Center for Informatics (Germany); UN Data Strategy Community (remote); Vienna University of Economics and Business (Austria): Introduced public-facing data products to track political events and forecast instability in emerging markets
- Perry World House (Philadelphia): Discussed research to inform decision-makers' understanding of Russia's foreign influence operations in developing countries

Selected Academic Manuscripts Under Review (contact for full list)

- Synthetic control analysis estimating effect of legal changes on dyadic aid flows (revise & resubmit)
- RCT to expand youth social networks and civic engagement in Ethiopia + estimate network spillovers
- Conjoint survey experiment + bayesian regularization on organization decision-making in autocracies
- Original high-frequency data and evidence on strategic logic of Russia's foreign influence operations
- Spatial difference-in-differences with ML weighting on geotagged aid projects and election outcomes

Selected Policy Reports in 2024 (contact for full list)

High Frequency Tracking of Civic Space Utilizing Domestic News Scraping and LLM Classification Forecasting High-Level Travel Advisories with Machine Learning for Peace Data

- Prepared for Swift Expertise and Grounded Analytics Task Order by USAID DRG Bureau Charting a Course for Applied Research in Peacebuilding
- Published by United States Institute of Peace