

Timothy A. Model

Quantitative Researcher

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Curriculum Vitae

March 2021

Experience

Quantitative Researcher

October 2020 – Present

Fors Marsh Group, Arlington, VA

- Leveraging quantitative policy analysis and data visualizations to evaluate marketing campaigns
- Informing research products for government clients through statistical consultation
- Ensuring product accuracy by implementing statistical quality control protocols
- Developing quantitative datasets and data pipelines to streamline processing and analysis

Chief Data Scientist & Principal Investigator

May 2020 – Present

CoronaNet Research Project

- Informing research and grant application development
- Directing 30 international data scientists and engineers in data pipeline automation, development, and maintenance
- Implementing quality control protocols, validation tools, and performance metrics using Qualtrics, Shiny, and R
- Doubled speed of complex R data processing pipeline
- Generating data visualizations for public engagement
- Acting as point of contact for data operations among external and internal stakeholders

Havighurst Fellow

August 2019 – May 2020

Miami University, Oxford, OH

- Led 3 research projects on protest, corruption, and survey design that produced public-facing and conference papers
- Produced and analyzed longitudinal, textual, network, and biographical datasets with up to 1 million observations
- Designed and implemented an international survey instrument
- Managed \$700,000 worth of grant applications to study political responses to COVID-19 pandemic
- Presented research at 2 international conferences and 3 invited talks
- Taught 4 courses on research methods, political economy of development, and political corruption
- Served as an external peer reviewer for Freedom House's Russia report

Doctoral Researcher & Associate Instructor

August 2013 – July 2019

Department of Political Science, Indiana University, Bloomington, IN

- Supervised 3 research teams in collecting, analyzing, and visualizing survey, focus group, and observational data
- Completed 6 research projects on election fraud, corruption and anti-corruption strategies, and protest participation
- Collaborated on international and multidisciplinary teams to implement 2 international surveys and focus groups
- Developed 7 cross-national datasets containing up to 1 million observations
- Presented quantitative research at 9 international and multidisciplinary conferences
- Earned \$50,000 in grants to support independent research
- Trained students in 9 courses on research methods, political corruption, Russian politics, and political theory

Relevant Skills

- Programming Languages & Programs: R, Stata, Python, JAGS, LaTeX, R Markdown, AWS, SQL, Github
- Data Visualization: ggplot2, Plotly, Shiny, Tableau
- Methods: GLM, Survey Analysis, Causal Inference, Hierarchical Modeling, Time Series Analysis, Geospatial Analysis, Network Analysis, Text as Data, Bayesian Approaches, Cluster Analysis, Data Reduction Techniques
- Languages: English (native), Russian (advanced), Spanish (beginner)

Certifications

- OUSD P&R Human Research
- Identifying and Safeguarding Personally Identifiable Information (PII)

Education

Ph.D., Political Science, Indiana University.

2019

B.A., Diplomacy/Global Politics & Russian, East European, and Eurasian Studies, Miami University.

2012