

# Christopher Junk

Political Science PhD Candidate, Research Assistant

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Pursuing a new opportunity in data science to help businesses make data-informed decisions. Relocating to Denver, CO July 1st.

## Education

University of Iowa, PhD, Political Science

expected Dec 2019

University of Iowa, MA, Political Science

May 2019

- Major in econometrics and international relations.

St. Ambrose University, BA, International Studies and Spanish

May 2016

## Projects

*Dissertation: Political Prediction across Space and Time: Ensemble Machine Learning to Predict Terrorism and Protests*

- Build **ensemble machine learning** models to predict political events (terrorism and protests) as locally as possible and at the finest temporal aggregation possible.
- Clean, disaggregate, and combine many data types, e.g. geocoded event, climate, terrain, socio-economic, and historical data.

*White Extremist Web Scrape: Frequency, Sentiments, and Topics ([link to report](#))*

- Web scrape all comments (5,000+) from online extremist forum.
- Conduct **sentiment analysis**, activity monitoring, and **unsupervised machine learning** topic modeling.

*Democratic Repression: Responding in Kind? ([available on my GitHub](#))*

- Aggregate and clean events data, join with economic, regime type, historical, and other datasets for analysis.
- Model relationship between dissent and state repression using **multilevel logistic regression** for all democratic nation-states 1945-present.

*Terrorism and Spanish Elections: Does Terrorism Impact Support for the Central Government?*

- Collect and join Spanish public opinion data over time (1993-2010) with terrorism and economic data from Spain.
- Model relationship between terrorism and governmental support using **time series analysis (ADL and GECM models)**.
- Engage debate about using the ADL and GECM interchangeably, conclude that models are identical when interpreted correctly.

## Quantitative Experience

**Software Proficiency:** R, SQL, Python, Stata

Research Assistant - Dr. Elizabeth Menninga

Summer 2019

- Develop a method of simulating social networks conditional on the observed network via **bootstrapping** to quantify uncertainty of network statistics in R.

Research Assistant - Dr. Bryce Dietrich

Summer 2019

- Use millions of tweets to quantify 'otherization' of immigrants in the context of modern immigration events in R.

Managing Editor/Replication Analysts Foreign Policy Analysis

May 2018 - Present

- Manage originality reports and workflow of over 200+ manuscripts per year. Assist the editorial team in reviewing and publishing manuscripts. Replicate empirical work of all published manuscripts (20+ annually).

Research Assistant - Dr. William Reisinger, Dr. Marina Zaliznaya, Dr. Wenfang Tang

Spring 2019

- Model relationship between social context and participation in bribery using **regression (OLS and logistic)**.
- Create ego nets from embedded egonet survey vignettes.