Daniel Kent

Walnut Creek, CA

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EDUCATION

THE OHIO STATE UNIVERSITY

PH.D. IN POLITICAL SCIENCE (FOCUS ON COMPUTATIONAL SOCIAL SCIENCE) August 2020 | Columbus, OH M.A., POLITICAL SCIENCE May 2017 | Columbus, OH

UC DAVIS

B.A., INTERNATIONAL RELATIONS (HIGHEST HONORS) June 2013 | Davis, CA

SKILLS

PROGRAMMING

Python (numpy, pandas, scipy, matplotlib, seaborn, scikit-learn, statsmodels) • R (dplyr, tidyr, purrr, ggplot2, caret) • H2O • SQL (MySQL, SQLite) • Git • Unix

COMPUTATIONAL

Amazon Web Services • Cluster Computing • Shell Scripting

Apache Spark

RELEVANT COURSES

PROFESSIONAL

Data Science With Python

GRADUATE

Experimental & Survey Design Machine Learning Causal Inference Social Network Analysis Bayesian Statistics Time Series Analysis Generalized Linear Models Probability Theory Math for Political Scientists Game Theory Agent-Based Models

UNDERGRADUATE

Calculus I (Derivatives)
Calculus II (Integrals)
Calculus III (Multivariate)
Probability & Statistical Inference
Applied Regression

PROFESSIONAL EXPERIENCE

THE OHIO STATE UNIVERSITY | GRADUATE RESEARCH ASSOCIATE

August 2016 - August 2020 | Columbus, OH

- Secured over \$50,000 in external funding through the National Science Foundation for a nationwide survey experiment, Mershon Center for International Security, and Ohio State Decision Sciences Collaborative
- Data analyst for multiple collaborative quantitative research projects, resulting in 3 academic manuscripts and 10 conference presentations
- Wrote novel R package, **dynamr**, returning 20% increase in changepoint detection accuracy over alternative software
- Taught graduate-level mathematics course for 15 incoming Ph.D. students on calculus, linear algebra, probability, and R programming

JUNIOR FELLOW, PROGRAM IN STATISTICS AND METHODOLOGY August 2017 – July 2018 | Columbus, OH

- Provided statistics consulting for faculty and students, solving data, programming, and modeling problems in a faculty-awarded position
- Led and hosted 4 data science training workshops and visiting guest lectures throughout the academic year

UC DAVIS GLOBAL STUDY PROGRAM | PROGRAM REPRESENTATIVE June 2013 - August 2015 | Davis, CA

- Advised and served as primary point of contact for over 1,000 international students from 15+ countries and 4 continents studying abroad at UC Davis
- Billed and tracked over \$15,000,000 in tuition and insurance payments
- Coordinated student logistics and affairs across the university's tuition, health services, housing, and academic services departments

SELECTED PROJECTS

DISSERTATION | Essays on Machine Learning in International Politics and Social Networks

- Forecasted international conflicts with random forests and gradient boosting machines trained on 800,000+ observations.
- Developed a novel statistical feature with 15,925 estimates of every country's international standing from 1816-2012

PUTTING TERROR IN ITS PLACE: AN EXPERIMENT ON MITIGATING FEARS OF TERRORISM AMONG THE AMERICAN PUBLIC

With Daniel Silverman and Christopher Gelpi

- Designed, implemented, and analyzed a nationwide survey experiment measuring the causal effect of information about terrorism's risks
- 2,500 participants were surveyed on NORC's AmeriSpeak and Amazon's MTurk platforms, with a follow-up two weeks after treatment

A PERMUTATION-BASED CHANGEPOINT TECHNIQUE FOR MONITORING EFFECT Sizes

Forthcoming at Political Analysis | With James Wilson and Skyler Cranmer

- Developed a statistical procedure for detecting coefficient changepoints in regressions estimated using time series cross-sectional data
- Technique estimates time-invariant behavior through permutation inference and detects changes with statistical process monitoring