

Benjamin Campbell

Location: Columbus, Ohio

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Data Scientist finishing Ph.D. in Quantitative Methodology with five years of experience in agile development environments, quantitative research, advanced analytics, machine learning innovation, and statistical software development.

EDUCATION

THE OHIO STATE UNIVERSITY

PHD, POLITICAL SCIENCE

Aug. 2019 | Columbus, OH

MASTERS, POLITICAL SCIENCE

Dec 2015 | Columbus, OH

S. ILLINOIS UNIVERSITY

BACHELORS, POLITICAL SCIENCE

May 2014 | Carbondale, IL

Summa Cum Laude

Honors Degree

SKILLS

SOFTWARE

R • Python • Stan • PostgreSQL

Gephi • JAGS • \LaTeX • yEd

HARD

Research Design

Unsupervised Clustering

Machine Learning

Algorithm Development

Network Analysis

Time Series Analysis

Forecasting and Predictive Modeling

Survival Analysis

Experiment Design

Bayesian Estimation

Maximum Likelihood Estimation

Probability Theory

SOFT

Resourceful

National Champion Communicator

Oral and Written Communication

Collaborative

Project Management

Creativity

Critical Thinking

Emotional Intelligence

EXPERIENCE

THE OHIO STATE UNIVERSITY | SENIOR FELLOW, PRISM

July 2018 – Present | Columbus, OH

- Statistical and computational consultant helping applied researchers tackle data, computational, and modeling problems.
- Conducted and organized training workshops and speaker series on a variety of data science topics.
- Continued prior research projects while completing dissertation research related to supervised and unsupervised machine learning.

THE OHIO STATE UNIVERSITY | GRADUATE RESEARCH ASSOCIATE

May 2015 – July 2018 | Columbus, OH

- Collaborated on multiple projects using diverse modeling approaches, computational methods, and advanced data analytics.
- Supervised team of graduate and undergraduate researchers.
- Produced seven peer-reviewed publications appearing in top journals.
- Presented results at over a dozen technical and non-technical conferences.
- Received National Institutes of Health (NIH) research grant (\$689,370.74).

SOUTHERN ILLINOIS UNIVERSITY | UNDERGRADUATE RESEARCH ASSISTANT

August 2012 – May 2014 | Carbondale, IL

- Prepared network dataset of state supreme court citations.
- Assisted in data cleaning for network analysis.
- Data entry and cleaning produced experience using spreadsheet software.

SELECTED DATA SCIENCE PROJECTS

LEARNING IN NETWORK DATA

- Analysts assume a single generating process for a network, neglecting variation in actors' behavior and motives for forming relationships.
- Developed artificial intelligence model to capture variation.
- Deliverables include three peer-reviewed publications, the **egoTERGM** R package, the **fergm** R package, and a working paper.

NETWORK TREATMENTS IN COUNSELING

- Little is known about how to design a patient's social network to promote therapeutic recovery.
- Developed social interventions to improve patient outcomes.
- Deliverables include two peer-reviewed publications, two working papers, and a ~\$689,370.74 NIH grant.

EVENT DEPENDENCE IN THE DEATH PENALTY

- The Constitution reserves the death penalty for the most heinous cases.
- Project finds executions are capricious, characterized by a rich-get-richer effect.
- Deliverables include a US Supreme Court Citation, peer-reviewed publication, national news attention, and a submitted article.