

JAE YEON KIM

Overview

- Behavioral Data Scientist studying how people think and behave using behavioral science, statistics and data science tools
- Research with sampling, survey design, survey experiments, natural experiments, factor analysis, cluster analysis, multivariate and hierarchical regression analysis, computational text analysis, machine learning
- Research areas: behavioral science, computational social science, experimental and survey methods, measurement, causal inference

EDUCATION

- Present • **University of California, Berkeley**
PhD Candidate in Political Science 📍 Berkeley, California, USA
- Summer 2019 • **Russell Sage Summer Institute in Computational Social Science**
Selected as one of 29 participants from a nationwide competition 📍 Princeton University, Princeton, USA
- 2016 • **University of California, Berkeley**
MA in Political Science 📍 Berkeley, California, USA
- 2011 • **Korea University**
BA in Political Science, Linguistics, and English 📍 Seoul, South Korea

PROFESSIONAL EXPERIENCE

- May 2019 | Present • **Data Science Fellow and Consultant**
Data-intensive Social Sciences Lab 📍 UC Berkeley
- Consulted on R, Python, statistical modeling, data wrangling and visualization, and computational text analysis
 - Founded the working group on the bias and fairness in machine learning
- Spring 2020 • **Data Science Education Program Fellow**
Data Science Education Program 📍 UC Berkeley
- Served as a research lead for the undergraduate students and project partners involved in 40+ data science discovery projects
 - Designed workshops on project management, computational reproducibility, and bias and fairness in machine learning

TEACHING EXPERIENCE

- Spring 2019 • **An Introduction to Computational Tools and Techniques for Social Science Research**
Lead Instructor 📍 UC Berkeley
- A graduate course on computational social science at UC Berkeley

CONTACT INFO

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For more information, please contact me via email.

COURSEWORK

Statistical and Causal Inference, Experimental Design, Survey Methods, Game Theory, Computational Social Science

Passed [Political Behavior](#) (social and cognitive psychology, survey and experimental design) field exam with distinction

SKILLS

Quantitative: Statistical and causal inference, Experimental and survey design

Computational: Computational text analysis, Machine learning, Web scraping, R (Advanced), Python (Intermediate), UNIX, Git, SQL (Familiar)

Qualitative: In-depth interviews, Archival research, Process tracing

Fall 2016

● Introduction to Empirical Analysis and Quantitative Methods

Teaching assistant

📍 UC Berkeley

An undergraduate course on statistical methods at UC Berkeley

Received [the best TA award](#) (given to less than 10% of Berkeley TAs)



RESEARCH EXPERIENCE

Fall 2019

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Present

● Causal Inference and Machine Learning [\[GitHub\]](#)

PhD Candidate

📍 UC Berkeley

- Demonstrated how machine learning can help create critical data for causal inference by combining text classification and interrupted time series design
- Presented at [the 2019 Data Science Showcase](#) at UC Berkeley

2018

|
Spring
2019

● Natural Language Processing and Machine Learning [\[GitHub\]](#)

PhD Candidate

📍 UC Berkeley

- Parsed unstructured historical newspaper articles (HTML files), turned them into a tidy dataset, and classified the text data using machine learning
- Selected to receive [the Best Paper Award in Asian Pacific American Politics](#) at the upcoming Western Political Science Association annual meeting

2016

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2018

● Statistical Modeling of Time Series Data [\[GitHub\]](#)

PhD Candidate

📍 UC Berkeley

- Identified causal effects of the reduced government support on community organizing by collecting [original organizational data](#) and modeling time-series data
- Ensured the reliability of findings by doing robustness checks and running sensitivity analysis

2016

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2017

● Experimental Research [\[GitHub\]](#)

Graduate Student

📍 UC Berkeley

- Designed list experiments on sensitive political attitudes and embedded them in a nation-wide mobile survey experiment
- Reduced sampling bias by matching the online panel data with a preexisting probability sample before carrying out the survey

Summer

2018

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Present

● Survey Research [\[GitHub\]](#)

Graduate Student Researcher

📍 UC Berkeley

- Cleaned and wrangled a large-scale panel survey data, conducted multivariate and hierarchical regression analyses, and visualized results
- Imputed missing responses using multiple imputations and validated key survey constructs using factor analysis