

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

- 2016
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2020
(expected)
- Summer
2019
- 2016
- 2011
- **University of California, Berkeley**
PhD Candidate in Political Science 📍 Berkeley, California, USA
 - **Russell Sage Summer Institute in Computational Social Science**
Selected as one of 29 participants from a nationwide competition 📍 Princeton University, Princeton, USA
 - **University of California, Berkeley**
MA in Political Science 📍 Berkeley, California, USA
 - **Korea University**
BA in Political Science, Linguistics, and English 📍 Seoul, South Korea

PROFESSIONAL EXPERIENCE

- May
2019
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Present
- Spring
2020
- **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
 - **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 outstanding graduate student instructor award](#), which is 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

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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

● 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

★ **Fellowships:** Visiting Democracy Fellowship, Ash Center for Democratic Governance and Innovation, Kennedy School, Harvard University (2020 - 2021, declined), D-Lab Data Science Fellowship, UC Berkeley (2020), American Democracy Project Fellowship, UC Berkeley (2019), California Poverty and Socioeconomic Inequality Fellows Program, the Blum Initiative for Global and Regional Poverty Studies (2017), Berkeley Empirical Legal Studies Graduate Fellowship, Center for the Study of Law and Society, UC Berkeley (2017)

🏆 **Awards:** Don T. Nakanishi Award for Distinguished Scholarship in Asian Pacific American Politics, Western Political Science Association (2020), Outstanding Graduate Student Instructor Award, UC Berkeley (2016)