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 | 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 | 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 | 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