JAE YEON KIM

Overview

- Computational social scientist using data science to advance social science research on diversity and inclusion.
- Extensive experience working with survey, experimental, administrative, and text data using statistical and machine learning methods.

Last updated on 2020-09-01.

EDUCATION

2016 | Present University of California, Berkeley

PhD Candidate in Political Science

Parkeley, California, USA

Summer 2019

Summer Institute in Computational Social Science

Participant (10% acceptance rate)

Princeton University, Princeton, USA

2014 | 2016 University of California, Berkeley

MA in Political Science

Parkeley, California, USA

2012 • Korea University

BA in Political Science, Linguistics, and English

Seoul, South Korea

PROFESSIONAL EXPERIENCE

May 2019 | Present Data Science Fellow, Consultant, and Instructor

Data-intensive Social Sciences Lab

Q UC Berkeley

- Consulted 50+ Berkeley faculty, students, and staff on applied statistics, machine learning, data wrangling, visualization, and database management
- Developed five original data science workshops (SQL for R Users, R package development, Advanced Data Wrangling in R, and Efficient and Reproducible Project Management in R)
- Taught programming fundamentals, data wrangling, machine learning, and project management
- Organized and streamlined consulting and workshop production
- · Founded the working group on the bias in machine learning

Spring 2020 Data Science Education Program Fellow

Data Science Education Program

UC Berkeley

- Served as research lead for the undergraduate students and project partners involved in 40+ data science discovery projects
- Taught original workshops on project management, computational reproducibility, bias in machine learning, and data visualization
- Published an article on project management in SAGE Ocean, an initiative from SAGE Publishing focusing on computational social science

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: Natural language processing, Machine learning, R (tidyr, dplyr, ggplot2, statistical packages), Python (pandas, scikit-learn), Git, SQL (PostgreSQL), NoSQL (MongoDB), Linux Command Line

TEACHING EXPERIENCE

Spring 2019

An Introduction to Computational Tools and Techniques for Social Science Research (graduate; original course) [GitHub]

Lead Instructor

Q UC Berkeley

Fall 2016

Introduction to Empirical Analysis and Quantitative Methods (undergraduate)

Teaching Assistant

Q UC Berkeley

• Received the outstanding graduate student instructor award, which is given to less than 10% of Berkeley TAs



tidytweetjson: R package for turning Tweet JSON files into a cleaned and wrangled dataset. The package takes 4.76 hours to turn 5 million tweets into a dataframe.

tidyethnicnews: R package for turning search results from one of the largest databases on ethnic newspapers and magazines published in the United States into a cleaned and wrangled dataset. The package takes 28 seconds to turn 5,685 articles into a dataframe.

makereproducible: R package for making a project computationally reproducible before sharing it

RESEARCH EXPERIENCE

Summer 2020 Present

Large-scale Twitter Analysis on COVID-19 and Anti-Asian Climate [GitHub]

PhD Candidate

Q UC Berkelev

- Developed an R package that automates parsing a large Tweet |SON file (>5GB) into a cleaned and wrangled dataset
- · Applied dynamic topic modeling to 1.4 million tweets and traced the rise of anti-Asian sentiment in the post-pandemic US
- Scheduled to present at the 2020 American Political Science Association annual meeting

Spring 2020 Present

Intersectional Bias in Hate Speech and Abusive Language Detection Datasets [GitHub] [Preprint] [Slides]

PhD Candidate

OUC Berkelev

- · Classified gender, racial, and party identities of the 100k tweets
- Demonstrated African American tweets were up to 3.7 times more likely to be labeled as abusive, and African American male tweets were up to 77% more likely to be labeled as hateful compared to the others
- Published the paper version in *Proceedings of the Fourteenth* International Conference on Web and Social Media (ICWSM), Data Challenge Workshop

Fall 2019 Present

Causal Inference and Machine Learning [GitHub] [Slides]

PhD Candidate

Q UC Berkeley

- Demonstrated how machine learning assists causal inference by combining text classification and interrupted time series design
- Presented at the joint Political Computational Social Science and Political Network 2020 Conference

Fellowships: Democracy Visiting Fellowship, Ash Center for Democratic Governance and Innovation, Kennedy School, Harvard University (2020 - 2021, declined), D-Lab Data Science Fellowship, UC Berkeley (2020), Data Science Education Program 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)

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

2018 Spring 2019

Natural Language Processing and Machine Learning [GitHub] [Preprint] [Slides]

PhD Candidate

Q UC Berkeley

- Developed an R package that automates parsing unstructured HTML files into a cleaned and wrangled dataset
- Demonstrated unreliable training data generates weak predictions and extreme interpretations using 80k+ historical newspaper articles
- Received the Best Paper Award in Asian Pacific American Politics from the Western Political Science Association (2020)
- · Authored a preprint, which was conditionally accepted at the *Journal of* Computational Social Science

2016 2018

Statistical Modeling of Time Series Data [GitHub] [Preprint]

PhD Candidate

Q UC Berkeley

- · Examined how social policy influenced community organizing among Asian Americans and Latinx by creating an original organizational dataset and modeling time-series data
- · Authored a preprint, which was invited to Revise and Resubmit at Political Research Quarterly

2019

Survey and Experimental Research [GitHub]

PhD Candidate

♀ UC Berkeley

Present

• Designed a within-subject experiment and embedded it in a Californiawide survey to investigate how different racial groups interpret questions on racial solidarity differently

Summer 2018

Survey Research [GitHub]

Graduate Student Researcher

Q UC Berkeley

· Cleaned and wrangled the largest panel survey data on Asian Americans and conducted factor and regression analysis

ORGANIZING EXPERIENCE

Summer Institute in Computational Social Science in the San Francisco Bay Area

Co-organizer

• August 2019 - July 2020

- Raised 50k+, reviewed 100+ applicants and selected 20 participants
- · Developed close partnerships with nonprofits (e.g., Code for America, DonorsChoose, HopeLab)
- Designed the curriculum, guided the project development and developed the evaluation criteria