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 2020-07-14.

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 Berkeley faculty, students, and staff on applied statistics, machine learning, data wrangling, and visualization
- · Founded the working group on the bias in machine learning
- $\boldsymbol{\cdot}$ Developed SQL for R Users and Advanced Data Wrangling Techniques in R workshops

Spring 2020 Data Science Education Program Fellow

Data Science Education Program

Q UC Berkeley

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

♣☐ TEACHING EXPERIENCE

Spring 2019

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

Lead Instructor

♀UC Berkeley

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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), Linux Command Line

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 Berkeley

- Developed an R package that automates parsing a large Tweet JSON 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

♀ UC Berkeley

- 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

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)

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), 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)

Awards: 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)

Causal Inference and Machine Learning [GitHub] Fall 2019 PhD Candidate Present • Demonstrated how machine learning assists causal inference by combining text classification and interrupted time series design • Presented at the 2019 Data Science Showcase at UC Berkeley Statistical Modeling of Time Series Data [GitHub] 2016 [Preprint] 2018 PhD Candidate • 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 Survey and Experimental Research [GitHub] 2019 Graduate Student 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 Survey Research [GitHub] Summer 2018 Graduate Student Researcher

PROFESSIONAL SERVICE

Reviewer: Journal of Open Source Software

model outputs

ORGANIZING EXPERIENCE

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

· Cleaned and wrangled the largest panel survey data on Asian Americans, conducted factor and regression analyses, and visualized

Co-organizer

• August 2019 - July 2020

Q UC Berkeley

Q UC Berkeley

Q UC Berkeley

Q UC Berkeley

- 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