

# JAE YEON KIM

## Overview

I study political learning, organizing, and mobilization among marginalized populations using big data and data science. I also build tools that make social science research more efficient and reproducible. I have extensive experience analyzing survey, experimental, administrative, and text data using statistical and machine learning methods



## EDUCATION

- 2016**  
|  
**2021**  
(expected)  
**University of California, Berkeley**  
PhD Candidate in Political Science - Concentrations: computational political science and political behavior (passed exam with distinction)  
📍 Berkeley, 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  
📍 Berkeley, California, USA
- 2012**  
**Korea University**  
BA in Political Science & English (study abroad: Hong Kong, Taiwan)  
📍 Seoul, South Korea



## PROFESSIONAL EXPERIENCE

- September 2020**  
|  
**Present**  
**Visiting Fellow**  
[P3 Lab, SNF Agora Institute](#) 📍 Johns Hopkins University  
  - Collaborated with Milan de Vries (former Director of Analytics at MoveOn.Org)
  - Parsed more than 3 million tax reports ([XML files stored in Amazon AWS](#)) filed by nonprofits in the United States and linked this data source with these organizations' websites and social media handles
  - Designed and built a data infrastructure that tracks civic organizations in the US and their relationships with food security, polarization, and the 2020 racial justice movement
- May 2019**  
|  
**Present**  
**Senior Data Science Fellow, Instructor, and Statistical Consultant**  
[Data-intensive Social Sciences Lab](#) 📍 UC Berkeley  
  - Created a Shiny dashboard for inspecting the labels of the training data of the [D-Lab's Online Hate Speech Index Project](#)
  - Consulted 70+ Berkeley faculty, students, and staff on applied statistics, machine learning, and database management
  - Developed and taught [7 original workshops](#) on machine learning, functional programming, package development, advanced data wrangling, and reproducible project management

Last updated on 2020-12-09.

## CONTACT INFO

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🌐 [github.com/jaeyk](https://github.com/jaeyk)

in [linkedin.com/jae-yeon-kim](https://linkedin.com/jae-yeon-kim)

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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

## SKILLS

📊 **Quantitative:** Statistical modeling (OLS, GLM, Multilevel Modeling), Causal inference (a.k.a. impact evaluations or A/B testing), Experimental and survey design and analysis, Measurement (constructing and testing measures)

💻 **Computational:** Natural language processing, Machine learning, R (tidyverse, tidymodels, statistical packages), Python (pandas, scikit-learn), Git, SQL (PostgreSQL), Linux Command Line

Fall 2019  
|  
Spring  
2020

### Project Manager

#### Data Science Discovery Program

📍 UC Berkeley

- Hired and managed four undergraduate RAs, set goals, plans, and deadlines, and helped these RAs' professional development
- Published [one paper](#) in *Proceedings of the Fourteenth International Conference on Web and Social Media (ICWSM)*, *Data Challenge Workshop* and [one preprint](#) under review at the *American Political Science Review*

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](#)
- Published a [blog post](#) on project management published in SAGE Ocean, an initiative from SAGE Publishing focusing on computational social science

Fall 2016  
|  
Present

### Graduate Student Instructor

#### Department of Political Science

📍 UC Berkeley

- Developed and taught an original graduate-level course on [computational tools for social science research](#) as an instructor and an undergraduate-level applied statistics as a teaching assistant
- Created an [open-access textbook](#) titled "Computational Thinking for Social Scientists"
- Received [the Outstanding Graduate Student Instructor Award](#), which is given to less than 10% of Berkeley TAs



## PEER-REVIEWED PUBLICATIONS

Kim J. (2020). [Integrating Human and Machine Coding to Measure Political Issues in Ethnic Newspaper Articles](#). *Journal of Computational Social Science*. Forthcoming. [[GitHub](#)]

• Winner of the **Don T. Nakanishi Award for Distinguished Scholarship and Service in Asian Pacific American Politics**, Western Political Science Association (2020)

Kim J, Carlos Ortiz, Sarah Nam, Sarah Santiago, and Vivek Datta. (2020). [Intersectional Bias in Hate Speech and Abusive Language Datasets](#). 2020. *Proceedings of the Fourteenth International Conference on Web and Social Media, Data Challenge Workshop* [[GitHub](#)]

Kim J. (2020). [How Other Minorities Gained Access: The War on Poverty and Asian American and Latino Community Organizing](#). *Political Research Quarterly*. Forthcoming. [[GitHub](#)]



## PREPRINTS

Chan N, Jae Yeon Kim, and Vivien Leung. (2020). [COVID-19 and Asian Americans: How Social Exclusion Shapes Asian American Partisanship](#). *SocArXiv*. [[GitHub](#)]

Kim J and Andrew Thompson. (2020). [How Threats Shape the Politics of Marginalized: Evidence from a Natural Experiment and Machine Learning](#). *SocArXiv*. [[GitHub](#)]

Kim J and Alan Yan. (2020). [The Two Faces of Linked Fate: How Survey Respondents Interpret Linked Fate Question](#). *SocArXiv*. [[GitHub](#)]



## SOFTWARE

**tidytweetjson**: R package for turning Tweet JSON files into a tidy dataframe. The package takes 12.34 seconds to wrangle 5,685 articles.

**tidyethnicsnews**: R package for turning search results from one of the largest databases on ethnic newspapers and magazines published in the U.S. into a tidy dataframe. The package takes 4 minutes to wrangle 2 million tweets.

**TidyChaseBankStatements**: R package for turning Chase bank Statements into a tidy dataframe.