

Kaiyi Yang

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Education

UNIVERSITY OF PENNSYLVANIA | AUGUST 2022 -

- Master of Science in Education, Statistics, Measurement, Assessment, and Research Technology

UNIVERSITY OF CALIFORNIA, SANTA BARBARA (UCSB) | SEPTEMBER 2018 - MARCH 2022

- Bachelor of Science, Statistics and Data Science
- College of Letter and Science Dean's Honor

Fieldwork Experience

UNDERGRADUATE FELLOW | UCSB DATA SCIENCE INITIATIVE | OCTOBER - DECEMBER 2021

- Forecasted Short-term Future COVID-19 Cases Based on Historical Data from
- Applied Supportive Vector Machine and Decision Tree Regressor in predicting daily new cases of COVID-19 based on past one-week healthcare signals
- Collaborated with group members with different backgrounds and presented prediction results with data visualization

UNDERGRADUATE RESEARCHER | UCSB DEPARTMENT OF STATISTICS | MARCH - JUNE 2021

- Explored impacts of County-level Socioeconomic Features on COVID-19 Vaccination Hesitancy
- Collected data of vaccination rates and socioeconomic indicators of 763 counties in 10 states with most accumulative COVID-19 cases to visualize the linear relationships between vaccination rates and 8 socioeconomic features
- Discovered the counties with low poverty rates and high education levels showed high vaccination rates by conducting regression analysis and principal components analysis

SENTIMENTS ANALYSIS ON SINA WEIBO | DATA FOUNTAIN COMPETITION | FEBRURAY - MAY 2020

- Conducted text mining to analyze social media user posts on Sina Weibo
- Identified the changes in public mental health status during different stages of the pandemic

Leadership Experience

DATA EDITOR, PHOTO EDITOR | DAILY NEXUS | MAY 2020 - MARCH 2022

- Enhanced the authority of news reports with data visualizations
- Administered the photography team and organized the weekly photo prints

PRESIDENT, SOCIAL MEDIA CHAIR | UCSB KENDO CLUB | JUNE 2021 - MARCH 2022

- Promoted activities in Kendo practice and Asian culture on campus
- Coordinated with other officers in practice scheduling and equipment management

Technical Skills

PROGRAMMING

- Python, C++, Java, R, SQL, SAS, Excel

DATA SCIENCE

- Machine Learning, Reinforcement Learning, Time Series, Survival Analysis, Bayesian Statistics, Data Visualization