QI JIA (JERRY) SUN

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EDUCATION

University of California, Berkeley   *September 2020- June 2024*
Bachelor of Arts – Computer Science and Environmental Science
Relevant Coursework: CS 61A, CS 61B: Data Structures, Math 54: Lin Alg & Diff Eq
Simon Fraser University (Dual-enroll)   *September 2018 - April 2020*
Relevant Coursework: Math 251: Calculus III, Math 252: Vector Calculus

WORK EXPERIENCE

SFU Discourse Processing Lab   June 2018-Present
Research Assistant

- Collaborated with Prof. Maite Taboada and Dr. Fatemeh Asr on a fake news classification project
- Made contribution in data annotation and collection and was cited in this paper.
- Developed a machine learning classifier to determine the validity of news based on linguistic features
- Published at https://arxiv.org/abs/1910.02223

Intelligence Project - Dr. Calder Walton   April 2020 - September 2020
Research Assistant

- Collaborated in a team of five with Dr. Calder Walton in Harvard Kennedy School
- Used Google Cloud Vision API to run optical character recognition on 1.2 million word text.
- Collaborated with a team to clean 1.2 million words of OCR output from M.I.5 Chief diaries
- In the process of performing a social network analysis on the project

PROJECTS

Breaking the Spring Barrier: Forecasting El Nino with an Improved ENSO Index

- Machine learning regression model to predict the magnitude and existence of El Nino
- Based on various oceanic and atmospheric features
- Identified the existence and magnitdue of El Nino 12 months in advance with a 68% accuracy
- Top 30 Team Canada IISEF projects

ACADEMIC ACHIEVEMENTS

International Geography Olympiad 2019 Participant

- 1 of 4 students representing Team Canada in the iGeo in Hong Kong
- Won sustainable cities poster competition exemplifying Toronto as a sustainable city.

Intel International Science and Engineering Fair

- Team Canada Top 30, 2019 Fake News Detection
- Team Canada Top 30, 2020 El Nino Forecasting

PROGRAMMING LANGUAGES AND SOFTWARE

Java, Python, HTML, CSS, JavaScript, MATLAB, R, C++, C, Scheme, SQL LaTeX