**Josh Li**

Sydney, Australia • joshxpli@gmail.com • +61435048188 • Australian Citizen

## Education

**UNIVERSITY OF NEW SOUTH WALES**                                    Sydney, Australia

Bachelor of Science (Honors) Class 2A, Major in Applied Mathematics, GPA: 77/100          May 2021

Relevant Coursework: Mathematical Modeling, Data Mining, Optimization, Object Oriented Programming, Algorithms, Software Engineering Fundamentals, Statistical Inference, Oceans and Climate Dynamics.

**CLIMATE CHANGE RESEARCH CENTER**                                    Sydney, Australia

Honours Student Researcher                                    March 2020 – Present

*Recipient of Australian Research Council, Center of Excellence for Climate Extremes Honours Scholarship*

Project: Investigation into the Co-evolution of Moisture and Precipitation in Global Climate Models.

- Developed process oriented diagnostic tools for data from various global climate models.
- Utilized diagnostic tools to investigate an attractor behavior found in space of moisture-precipitation.

**GEORGIA INSTITUTE OF TECHNOLOGY**                                    Atlanta, Georgia

Study abroad coursework in Mathematics, GPA: 3.5/4.0                    August – December 2019

**WESLEY COLLEGE**                                    Perth, Australia

Top 1% of West Australian Class of 2016, School Mock Trials & Debate Team                    December 2016

## Professional Experience

**KALO INC.**                                    New York City, New York

Data Scientist Intern                                    January 2020 – February 2020

- Created text and image based machine learning models to categorize the fashion styles of all of clothes in Kalo's database (over 10,000 items) with an accuracy of over 70%.
- Utilized Python, Keras, sci-kit learn and pandas to analyze data and build machine learning models.

**GEORGIA INSTITUTE OF TECHNOLOGY – SCHOOL OF MATHEMATICS**          Atlanta, Georgia

Research Assistant                                    August 2019 – December 2019

- Adapted a new partial differential equation fitting algorithm IDENT, to be able to work on adaptive grid sizes rather than just on uniform grid sizes.
- Tested for stability, efficiency, and then identified strengths and weaknesses of the algorithm.
- Built with Matlab using numerical mathematical tools including Lasso and high resolution schemes.

**CHINESE ACADEMY OF SCIENCES – INSTITUTE OF AUTOMATION**                    Beijing, China

Data Scientist Intern                                    December 2017 – February 2018

- Collected key shareholder data of over 5000 public companies with automated scraping of news sites.
- Analyzed and visualized data in R to find similarities between various investment firms' portfolios.

## Public Service & Leadership Experience

**UNIVERSITY OF NEW SOUTH WALES PHILANTHROPY**                    Sydney, Australia

Fundraiser                                    February – December 2017

- Raised $50,000 for the Sydney Children's Hospital with a dedicated team during the academic year.
- Conceptualized and materialized community engaging events to attract donations.

## Skills & Interests

**Programming:** Python, MATLAB, Git, Linux, Windows.

**Language:** English (native), Mandarin (native speaking, intermediate writing), French (intermediate).

**Interests:** Green technology, entrepreneurship, history, guitar, traveled extensively in USA, Europe and Asia.