

# CURRICULUM VITAE: Weihao Li

2020

Student of Bachelor of Commerce (Honours) in Econometrics

Department of Econometrics and Business Statistics, **Monash University**

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## PROFILE

- Passionate Honours student with a creative mind and solid research skills.
- Rich experience in data processing and modelling, using R and Python. Additional experience in neural network design using Tensorflow and Keras.
- Computer skills: HTML, LaTeX; Pascal; SQL; Git

## EDUCATION

**Monash University, Melbourne, Australia**

Bcom. (Hons) Econometrics, Dec 2020 (expected)

Bcom. Business Analytics, Dec 2019 (GPA: 3.5/4.0)

**Guangdong University of Finance, Guangzhou, P.R. China**

B.Fin. Finance, Jun 2020 (GPA: 3.4/4.0)

## RESEARCH INTEREST

- Applications of machine learning in business, economic and environment
- Computer vision and Natural Language Processing
- Data visualization
- Reinforcement learning
- Bayesian machine learning

## RESEARCH EXPERIENCE

**Monash University**, Melbourne, Australia

**Honours student**, 2020-present

- Analyse 2019-2020 Australian bushfires using remote sensing data

Honours degree research project, supervised by Prof Di Cook and Emily Dodwell. Performed exploratory data analysis on historical bushfires and 2019-2020 bushfires with the weather, vegetation and anthropogenic factors. Developed a clustering algorithm to track bushfires from satellite hotspots data remotely. Proposed models predicting the cause of bushfire ignition during 2019-2020 Australian bushfire season. Conducted comparison of prediction between statistical models and computational models. Established a dynamic model predicting fire risk in the neighbourhood using satellite hotspots data. Integrated research outcome into an interactive web application for the purpose of general use.

## **PUBLICATIONS**

- Li, W., Dodwell, E., Cook, D.. A clustering algorithm to organize satellite hotspots data for the purpose of tracking bushfires remotely (in preparation)

## **GRANTS**

Econometrics Honours Memorial Scholarship, Monash University, (2020) \$15,000