

Curriculum Vitae

Zhi Wang

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EDUCATION

McCombs School of Business, University of Texas at Austin

TX, USA

- Ph.D. at Information, Risk, and Operations Management Department, CGPA 4.0/4.0
- Area of Specialization: Decision Science. Track: Data-driven Decision Making
- Expected date of graduation: May 2024

Aug 2019 to Present

Singapore University of Technology and Design (SUTD)

Singapore

- Bachelor of Engineering, Honours
- Major: Engineering Systems and Design. Focus track: Operations Research & Business Analytics
- GPA 4.86/5.0 (1/118), Summa Cum Laude

May 2016 to Aug 2019

Stanford University, Global Leadership Programme

CA, USA

- Summer Session IHP (International Honors Programme), GPA 4.112/4(.3)
- Silicon Valley Innovation Academy (SVIA), Enterprise Programme, Team Leader

Jun 2017 to Aug 2017

RESEARCH PROJECTS

Data-driven Decision-Making with Professor Rui Gao

Austin, USA

Develop new algorithms & frameworks to leverage big data in *robust optimization* and *online learning*. Projects including:

Oct 2019 to Present

- An Efficient UCB Algorithm for Contextual-Bandit-Based Learning with Continuous Actions - *working preprint and presented at INFORMS 2021*
- A Robust Framework for Joint Statistical Learning and Decision-Making
- Globally Optimal Learning for Mixed Logit Model
- Policy Gradient Method for Sequential Stochastic Programming

Undergraduate Research Opportunity Program (UROP)

Singapore

- Distributionally Robust Optimization on Newsvendor Problem with Professor Karthik Natarajan
- Natural Language Processing Research with Professor Wei Lu

Jan 2019 to May 2019

Nov 2017 to Apr 2018

TEACHING EXPERIENCE

McCombs School of Business

Austin, USA

Graduate Teaching Assistant

Aug 2019 to Present

- Statistics and Modeling, Business Analysis/Decision Modeling-TEMBA, Introduction to Decision Science (Honor)

Engineering Systems and Design Pillar

Singapore

Undergraduate Teaching Assistant

Sep 2017 to Apr 2019

- Advanced Math, Modelling the Systems World, Optimization.

WORKING EXPERIENCE

Expedia Group

Austin, USA

Machine Learning Scientist Intern

May 2022 to July 2022

- Research on the simulation of booking data in the vacation rental platform using GAN

Rakuten

Tokyo, Japan

Intern, Data Science Consulting Department

Dec 2018 to Jan 2019

- Aimed to convert the solution models into interpretable business models for clients' decision making in branding.
- Developed analytical methods to increase the interpretability by leveraging Rakuten's customer behavior data.

SAP Asia

Research Intern, Multilingual OCR

Singapore

May 2018 to Aug 2018

- Took initiative to identify the research problems and conduct independent research on adding the multilingual functionality.
- Replicated a C++ OCR project in python and created large-scale multilingual fully-labeled datasets for over 60 fonts.
- Constructed and modified the pipeline of the OCR engine and conducted error analysis on multiple end-to-end models.

INDUSTRY PROJECTS

SUTD & Grab (Capstone Project)

Singapore

FoodReg: A automated SEA Food Image Recognition and Recommendation System

Feb 2018 to Apr 2018

- Led a team of 5 to develop a DL-driven image recognition and recommendation application.
- Created a new, clean dataset with over 155k images and 300 food categories in the South East Asian area.
- Fully funded by Grab and presented to the company internally. Recognized as the top 2 projects in the cohort.

SUTD & Sichuan Wanguan Hydraulic Technology Co.Ltd

Singapore & China

Optimization of Machine Repairing Service

Feb 2018 to Apr 2018

- Led a team of 5 to conduct a case study to identify the service bottlenecks through statistics and simulation techniques.
- Proposed priority rules and methods of calculating priority factors for priority scheduling to ameliorate service delay.

SUTD & Teralytics

Singapore

URL Classification and User Demographics Extraction (Supervised by Prof Peter Jackson)

Sep 2017 to Dec 2017

- Proposed a research methodology to perform classification task and derive insights of the users from browsing records.
- Created features of the dataset for statistical learning models to categorize over 10K domains with 33% improvement.
- Implement Clustering Algorithm to find potential interest groups in the dataset to create user profile such as their ages and jobs.

ADWARDS & SCOLARSHIP

- Dean's Fellowship
- UT Austin Recruitment Fellowship with Provost Supplement, 2019-2022
- IES Gold Medal Award (for the top student in ESD), 2019
- Keppel Awards of Excellence (for top 2 student in the department), 2019
- SUTD Honours List, Sophomores and Juniors, 2017-2018
- SUTD Honours List Freshmore, 2016-2017
- SM2 Scholarship from Singapore Ministry of Education, 2015-2019

Skills

- Python (Pytorch, Numpy, Pandas), Matlab, Mosek, R, Java, SQL, Spark.
- Language: Chinese (Native), English (Professional), Japanese (Intermediate)