

David Jiashu Wu

PERSONAL INFORMATION

Male | DoB: 13th Jun 1997 | Beijing Haidian
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EDUCATION BACKGROUND

The University of Melbourne 2019.02 – 2020.07

Master of Information Technology (with Distinction), weighted average **88.1 First Class Honours**, top 2%

Stream: **Artificial Intelligence**

Major curriculums: Distributed Systems, Database System, Machine Learning, Natural Language

Processing, Artificial Intelligence, Deep Learning, Information Retrieval, Recommender Systems etc.

The University of Sydney

2016.02 – 2018.12

Bachelor of Science, weighted average mark **86.5 High Distinction**

Top 2% in Faculty of Science, entered **Talented Student Program**

Major: **Computer Science**, weighted average **85 High Distinction**

Major curriculums: Operating Systems, Database, Algorithm and Complexity, Computer Network, Data Analytics, Machine Learning, Human-Computer Interaction, Website Design, Project Management etc.

Major: **Financial Mathematics and Statistics**, weighted average **88 High Distinction**

Major curriculums: Statistical Models, Data Analysis, Financial Mathematics, Computational Science, Statistical Tests, Stochastic Processes, Time Series Analysis, Optimisation, Statistical Learning etc.

Beijing Institute of Technology

2015.08 – 2016.01

Major in Software Engineering, transferred to the University of Sydney in 2016

SCHOLARSHIP

2019 **Dean's Honours List** School of Engineering, University of Melbourne

2018 **Dean's List of Excellence in Academic Performance** Faculty of Science, University of Sydney

2017 **Dean's List of Excellence in Academic Performance** Faculty of Science, University of Sydney

RESEARCH EXPERIENCE

2020 **Student Intern at Chinese Academy of Sciences** 2020.09 - Current

Centre for Cloud Computing, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

Supervisor: Professor Yang Wang, Centre for Cloud Computing, SIAT, Chinese Academy of Sciences

- Work on challenging cloud computing topics including dynamic resource allocation, resource partitioning, machine learning-based parallel file system performance optimisation, storage system performance evaluation etc.
- Conduct thorough researches, completed 4 papers and 8 patents.
- Participated in several Chinese national and provincial cloud computing projects.

2019 **Student Intern at Beijing Institute of Technology** 2019.11 – 2020.03

School of Computer Science and Technology, Beijing Institute of Technology

Project Title: Simultaneous Semantic Alignment Network for Heterogeneous Domain Adaptation

Supervisor: Associate Professor Shuang Li, School of Computer Science and Technology

- Tackle Heterogeneous Domain Adaptation (HDA) problem, where the source and the target domains have heterogeneous feature representations and may also come from diverse modalities.
- Utilise knowledge distillation to transfer the semantic knowledge between two domains. Together with explicit semantic alignment, it enhances the adaptability of the purposed model.

2021	A Theta-join Optimisation Algorithm based on Double Pre-filtering and United Partitioning Mechanism (China Patent Submitted)
2021	A Probabilistic Application Recommender System based on User Feature Clustering and User Behaviour Information (China Patent Submitted)

Jiashu Wu	Résumé	2021.01
2020	A Machine Learning-based Multi-scenario Dynamic Online Resource Allocation Algorithm (CN202011428352.9)	
2020	A Deadlock-free High Concurrency Dynamic Resource Partitioning Algorithm (CN202011384022.4)	
2020	A Publication Retrieval Model's Training Method, Mechanism, End Device and Storage Medium (CN202011403845.7)	
2020	A Knowledge Tree-based Publication Retrieval Algorithm, Mechanism and End Device (CN202011433146.7)	
2020	A Lock-free Distributed Deadlock Avoidance Algorithm, and its Related Mechanism, Computer Device and Readable Storage Medium (CN202011438337.2)	
2020	An Online Data Stream Theta-join Optimisation Algorithm, System, End Device and Storage Medium (CN202011435327.3)	

INTERNSHIP EXPERIENCE

2020	Software Engineer at Melbourne eResearch Group	2020.03 – 2020.06
	<ul style="list-style-type: none"> Develop a meeting speaker diarisation Android App. The app will then be used by the UniMelb Library for research purposes. The app utilises Material Design Components, as well as Google ML Speech API. Well-commented code and the documentation is publicly available. 	
2017	Mentor at School of Information Technology, University of Sydney	2017.03 – 2017.11
	<ul style="list-style-type: none"> Mentor for course INFO1003 Website Design, INFO1103 Java Programming and INFO1105 Data Structures. Help tutor to answer questions, share my experience with students, demonstrate an excellent communication skill and interpersonal skill. 	

PROJECT

Kaggle Twitter Author Attribution	2019.07 – 2019.09
<ul style="list-style-type: none"> Use Python to clean and process 300k Tweets, conduct feature engineering and feature selection. Utilise SMOTE algorithm to solve the sample imbalance problem. Experimenting using algorithms including SVM, RF, TextCNN, TextRNN and FastText. Successfully achieve 30% classification accuracy, and rank 20/200 on Kaggle. 	
BitBox Distributed File System	2019.03-2019.06
<ul style="list-style-type: none"> Use Java to implement a distributed file system, capable of synchronising file directories between peers in a decentralised network. Clients can securely communicate with BitBox peers, using public-private key cryptography. 	

TECHNICAL ABILITY

Programming – Mainly use Python (NumPy, NLTK, Matplotlib, Sklearn, PyTorch, Pandas etc.) and Java, SQL, R (hypothesis testing, statistical analysis, plotting, time series analysis etc.), able to use C, Haskell, and MATLAB.

Technical Skills – Database, Data Mining, Data Analysis, Statistics, Machine Learning, Deep Learning, Distributed Systems.

LANGUAGE ABILITY

Chinese	Native Speaker
English	IELTS Academic 7.0, with reading 8.0, listening 8.0, speaking 6.0 and writing 6.0; CET4 overall 665, achieved a full mark in reading; Lived and studied in Sydney Australia for three years and Melbourne Australia for two years.