Zeyuan Ding

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Introdution: Intellectually curious Master's student with 3+ years of academic experience in Algorithms and machine learning. Passionate about pursuing roles in Data Science or Machine Learning Engineering, with a focus on leveraging machine learning and causal inference to solve complex business challenges. In my free time, I enjoy playing table tennis.

Education

Data Science — ***Master of Science*** Sep 2024 - May 2026
New York University, Center for Data Science

Big Data	Mathematical Statistics	Data Programming
Causal Inference	Linear Algebra and Optimization	Probability and Statistics for Data Science

Computer Science — ***Bachelor of Advanced Computing (Honours)*** July 2020 - June 2024
University of Sydney, Faculty of Engineering GPA: 3.9/4.0

Artificial Intelligence (ML and DL)	Data Structures and Algorithms	Computational Geometry
Software Engineering	Linear Algebra	Probability and Statistics

Work Experience

Shanghai Qi Zhi Institute — ***Research Assistant*** Aug 2021 - March 2022
- Researched neural network (NN) compression and design space exploration for FPGA-based NN accelerators.
- Conducted simulation experiments, testing, and partial Chisel code implementation under Prof. Li Jiang at SJTU.

Shanghai Jiao Tong University (Remote) — ***Research Assistant*** Nov 2022 - Feb 2023
- Assisted in improving the robustness and efficiency of Spiking Neural Networks (SNN) with attacking algorithms in ML and DL.
- Worked under the guidance of Profs. Fangxin Liu and Li Jiang in the Advanced Computer Architecture Lab.

University of Sydney — ***Honours Research Student*** July 2023 - June 2023
- Developed a novel local routing algorithm for the θ_5-graph with bounded path length under Prof. André Van Renssen.
- Designed and implemented a verification platform in JavaScript for algorithm accuracy; achieved distinction for the thesis.

Technical Projects

Team Project — ***Bush Fire Risk Analysis*** Spring 2021 - Spring 2021
- Built a bushfire risk analysis system using PostgreSQL, PostGIS, and Python with data from Australian government sources.
- Developed custom risk scoring algorithms considering population density, land use, and demographics.
- Visualized risk distribution with choropleth maps for New South Wales.

Individual Project — ***3D File Conversion Engine*** Fall 2022 - Fall 2022
- Designed a high-performance 3D file conversion engine for the USYD TechLab, improving efficiency by 60%.
- Built the AWS-based platform using Docker, ImageJ, and Python multiprocessing.

Activities

— ***Academic Paper Co-Author*** 2023 - 2023
- Co-authored *"Classroom AR Integration"*, published in *Advances in Social Science and Culture*, Volume 5, No. 4.