

Dahao Tang

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EDUCATION

David James Lab, Charles Perkins Centre, University of Sydney <i>Master of Philosophy, AI & Biology, co-supervised by Prof. David James and Prof. Jinman Kim</i>	Mar 2026 – Present
University of Sydney <i>Bachelor of Advanced Computing, Computer Science, First Class Honours</i>	Feb 2021 – Nov 2025
University of Sydney <i>Bachelor of Commerce, Finance</i>	Feb 2021 – Nov 2025

PUBLICATIONS

Optimal Look-back Horizon for Time Series Forecasting in Federated Learning Dahao Tang, Nan Yang, Yanli Li, Zhiyu Zhu, Zhibo Jin, Dong Yuan	AAAI 2026 Oral
Stability-Driven CNN Training with Lyapunov-Based Dynamic Learning Rate Dahao Tang, Nan Yang, Yongkun Deng, Yuning Zhang, Abubakar Sadiq Sani, Dong Yuan	ADC 2024
Adaptformer: An Adaptive Multimodal Deep Decomposition Approach for Power Consumption Forecasting Nan Yang, Yuning Zhang, Yunqi Wang, Dahao Tang, Yanli Li, Dong Yuan	ADMA 2024

WORK EXPERIENCE

University of Sydney <i>Research Assistant, School of Life and Environment Science</i> Lead developer for Tesseract (previously ProteHome) at the David James Lab; engineering tools to support biological data analysis.	Nov 2024 – Present
University of Sydney <i>Academic Tutor, School of Computer Science</i> ISYS2120: Data and Information Management (2024 S2, 2026 S2)	Aug 2024 – Present

PROJECTS EXPERIENCE

Tesseract <i>Co-founder, Research Assistant, Software Engineer</i> Producing a platform for storing and analysing multi-omics data. Empowering meta-analysis through AI and modern OLAP data pipeline.	July 2024 – Present
Cytomotif <i>Research Project</i> Develop a web tool for identifying motif patterns in the cytoplasmic sequences of SLC family members that traffic to the plasma membrane in response to insulin.	March 2026 – Present
ioulia.ai <i>Co-founder</i> Designed the technical roadmap and engineered the Minimum Viable Product (MVP) from scratch. Optimized product performance and LLM responses by implementing advanced prompt engineering techniques such as Chain-of-Thought (CoT).	Jan 2024 – July 2024
GigHero <i>Co-founder</i> Developed a two-sided online marketplace MVP for on-site services using React and Express.	Apr 2023 – Aug 2024
Searten <i>University Project, Project Manager, Full-stack Developer</i> Led a cross-functional team to develop a web-based platform MVP, overseeing the project lifecycle.	Aug 2023 – Nov 2023
File System Implementation with FUSE <i>University Project</i> Implemented a functional file system in C using the FUSE interface, engineered support for large file handling and hierarchical directory structures.	2022
OS Scheduler Implementation <i>University Project</i> Designed and implemented an operating system scheduler in C. Integrated Round Robin and Multi-Level Feedback Queue (MLFQ) algorithms to optimize process execution efficiency.	2022