

Dahao Tang

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EDUCATION

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

PUBLICATIONS

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

WORK EXPERIENCE

University of Sydney <i>Research Assistant, School of Life and Environment Science</i> Lead developer for 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), guiding students through database concepts and SQL implementation.	Aug 2024 – Feb 2025

PROJECTS EXPERIENCE

ProteHome <i>Research Assistant, Web Development</i> Spearheaded website refactoring and architected the full-stack solution using Next.js, Django, and PostgreSQL. Implemented Tailwind CSS to modernize the UI and continuously contributed to feature development and optimization.	July 2024 – 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