

# Dahao Tang

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## EDUCATION

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

## PUBLICATIONS

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

## WORK EXPERIENCE

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<b>University of Sydney</b>   <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
<b>University of Sydney</b>   <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

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<b>Cytomotif</b>   <i>Research Project</i> Develop the web tool for recognising motif patterns in cytoplasmic amino acid sequences of proteins of the SLC gene family.	March 2026 – Present
<b>ProteHome</b>   <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
<b>ioulia.ai</b>   <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
<b>GigHero</b>   <i>Co-founder</i> Developed a two-sided online marketplace MVP for on-site services using React and Express.	Apr 2023 – Aug 2024
<b>Searten</b>   <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
<b>File System Implementation with FUSE</b>   <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
<b>OS Scheduler Implementation</b>   <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