# Dahao Tang

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Google Scholar: https://scholar.google.com/citations?user=DPLu-fgAAAAJ

## EDUCATION

**David James Lab, Charles Perkins Centre, University of Sydney** Mar 2026 – Present
*Master of Philosophy*, AI & Biology, supervised by Prof. David James and Prof. Jinman Kim

**University of Sydney** Feb 2021 – Nov 2025
*Bachelor of Advanced Computing*, Majored in Computer Science, Honours Class I, supervised by A/Prof. Tongliang Liu

**University of Sydney** Feb 2021 – Nov 2025
*Bachelor of Commerce*, Majored in Finance

## PUBLICATIONS

**Optimal Look-back Horizon for Time Series Forecasting in Federated Learning** AAAI 2026 (Oral)
Dahao Tang, Nan Yang, Yanli Li, Zhiyu Zhu, Zhibo Jin, Dong Yuan

**Stability-Driven CNN Training with Lyapunov-Based Dynamic Learning Rate** ADC 2024
Dahao Tang, Nan Yang, Yongkun Deng, Yuning Zhang, Abubakar Sadiq Sani, Dong Yuan

**Adaptformer: An Adaptive Multimodal Deep Decomposition Approach for Power Consumption Forecasting** ADMA 2024
Nan Yang, Yuning Zhang, Yunqi Wang, Dahao Tang, Yanli Li, Dong Yuan

## INVITED TALKS

**Tesserome: An AI-Ready Omics Data Platform for Biological Discovery** Nov 2026
Invited by Prof. Hesham El Gamal, Dean of Engineering and Vice-Provost (AI Implementation), to deliver the final extended-format presentation in the AI Showcase on Tesserome, an AI-powered platform for multi-omics data storage and meta-analysis, at the University of Sydney Faculty of Engineering's inaugural faculty-wide staff retreat.

## WORK EXPERIENCE

**University of Sydney** | *Research Assistant, School of Life and Environment Science* Jul 2024 – Present
Co-founder and lead developer of Tesserome (previously ProteHome) at the David James Lab

**University of Sydney** | *Academic Tutor, School of Computer Science* Aug 2024 – Present
ISYS2120: Data and Information Management (2024 S2, 2026 S2)

## PROFESSIONAL EXPERIENCE

**Tesserome** | *David James Lab Project; Co-founder* Jul 2024 – Present
Creating a platform for storing and analysing multi-omics data. Empowering meta-analysis across a large volume of datasets

**ioulia.ai** | *Startup; Co-founder* Jan 2024 – Jul 2024
AI Tarot Master. Designed the technical roadmap and engineered the MVP from scratch

**GigHero** | *Startup; Co-founder* Apr 2023 – Aug 2024
Two-sided online marketplace MVP for on-site services. Developed the web platform using React and Express

**Searten** | *University-Industry Collaboration Project; Project Manager, Full-stack Developer* Aug 2023 – Nov 2023
Led a cross-functional team to develop the web MVP for a local startup Searten, overseeing the project lifecycle

## PROJECTS

**Echo Annotator** | *Research Tool* Nov 2026
Developed a web-based ultrasound image annotation tool for local files, currently focused on mouse PLAX B-mode images

**Cytomotif** | *Research Project* Mar 2026 – May 2026
Developed 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

**LaTeX Templates** | *Personal Project* Dec 2025
LaTeX templates for slides, posters, business cards, and a classic CV

**Émeline** | *Personal Project* Dec 2024 – Feb 2025
Agent with smart memory. Demo link: https://vimeo.com/1073007297/8ba13cb601

**Next.js Authentication Template** | *Personal Project* Jan 2024
Next.js authentication template using server actions