

TUN-YUAN CHANG (張惇媛)

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EDUCATIONS

National Tsing Hua University, Hsinchu, Taiwan Sep. 2025 - Present
Ph.D. in Institute of Information Systems and Applications GPA: 4.25/4.30
Advisor: Prof. Cheng-Hsin Hsu

National Tsing Hua University, Hsinchu, Taiwan Sep. 2024 - Aug. 2025
M.S. in Institute of Information Systems and Applications
Transfer into the doctoral program with academic performance and research potential

National Tsing Hua University, Hsinchu, Taiwan Sep. 2020 - Jun. 2024
B.S. in Department of Computer Science GPA: 3.90/4.30
Minor in Department of Quantitative Finance

RESEARCH INTERESTS

Large Vision-Language Models, Machine Learning, Smart Cities, Digital Twins, and related fields.

PUBLICATIONS

Journal Articles

- [1] **Microservice Provisioning and Event-Driven Adaptation in Heterogeneous IoT Settings**
Yuqiao Li, Fangqi Liu, *Tun-Yuan Chang*, Cheng-Hsin Hsu, and Nalini Venkatasubramanian
Submitted to Elsevier Pervasive and Mobile Computing Journal (PMC)
Under Review

Conference and Workshop Papers

- [1] **Harvesting Temporal Correlation in Large Vision-Language Models: Using Pose Estimation as a Case Study**
Tun-Yuan Chang, Kenneth Chandra, and Cheng-Hsin Hsu
Proc. of ACM International Workshop on Large Vision-Language Model Learning and Applications (LAVA' 25)
Dublin, Ireland, October 2025

EXPERIENCE

Ambient Intelligence for Immersive Networked Systems Lab @ NTHU Mar. 2024 - Present
Research Assistant Advisor: Prof. Cheng-Hsin Hsu

Research Description: Large Vision-Language Models, Smart Cities, and Digital Twins

- NS-3 and MAVLink-Based Unmanned Aerial Vehicle (UAV) Simulation
- Context-Aware Edge-Cloud AI Assistants

EECS3020 Introduction to Computer Networks Course @ NTHU Sep. 2024 - Dec. 2024
Teaching Assistant

- Offering tutorials to support students in understanding fundamental concepts.
- Collaborating with course instructors in designing course materials, assignments, exams, and grading.

Network Research Lab @ Academic Sinica
Summer Intern of Institute of Information Science

Jun. 2024 - Aug. 2024
PI: Prof. Ling-Jyh Chen

Research Description: Internet-of-Things and Navigation Systems

- Developing a navigation system using the open-source project GraphHopper, supported by real-time data from IoT sensors.
- Creating an interactive map visualization with the open-source project Leaflet, featuring air quality data and route planning information.

Last update: August 11, 2025