

TUN-YUAN CHANG (張惇媛)

Hsinchu, Taiwan

✉ tunyuan.nthu@gmail.com  [tunyuanchang](#)
 <https://tunyuanchang.github.io/>  [tunyuanchang](#)

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.

AWARDS

- **Travel Grant** (ACM MM'25), ACM SIGMM 2025

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 Mar. 2024 - Present
(AIINS), National Tsing Hua University
Research Assistant *PI: 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**
Building a testbed for UAV communication in fluctuating network conditions and complex environments.

- **Context-Aware Edge-Cloud AI Assistants**

Proposing unified architectures within a multimodal model framework to support various downstream tasks.

Introduction to Computer Networks Course, National Tsing Hua University

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, Institute of Information Science, Academic Sinica

Jun. 2024 - Aug. 2024

Summer Intern

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 sensor readings from IoT devices.
- Creating an interactive map visualization with the open-source project Leaflet, featuring air quality readings and route planning assistance.

Last update: September 1, 2025