TUN-YUAN CHANG (張惇媛)

Hsinchu, Taiwan

✉ tunyuan.nthu@gmail.com   in 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

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

PUBLICATIONS

Journal

[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 (PMC) [underreviewed]

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
Submitted to Proc. of ACM International Workshop on Large Vision–Language Model Learning and Applications (LAVA'25) [underreviewed]

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   Jun. 2024 - Aug. 2024
Summer Intern of Institute of Information Science   *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: July 16, 2025