

CHENG-TSE LEE

Hsinchu, Taiwan

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EDUCATIONS

- National Tsing Hua University, Hsinchu, Taiwan** Sep. 2024 - Jun. 2026 (Expected)
MS in Information Systems and Applications
Advisor: Prof. Cheng-Hsin Hsu
- National Cheng Kung University, Tainan, Taiwan** Sep. 2019 – Jun. 2023
BS in Industrial and Information Management

RESEARCH INTERESTS

3D reconstruction, 3D Error Concealment, Drone's trajectory planning, Machine Learning, and related fields.

PUBLICATIONS

- [1] **TSLA: A DASH Streaming System for Dynamic Multi-Layer 3D Gaussian Splatting Scenes**
Yuan-Chun Sun, Yuang Shi, *Cheng-Tse Lee*, Mufeng Zhu, Wei Tsang Ooi, Yao Liu, Chun-Ying Huang, and Cheng-Hsin Hsu
Proc. of ACM SIGMM Conference on Multimedia Systems (MMSys'25)
Stellenbosch, South Africa, March 2025
- [2] **Optimally Planning Drone Trajectory to Capture a 3D Gaussian Splatting Object**
Cheng-Yuan Wu, Yuan-Chun Sun, *Cheng-Tse Lee*, and Cheng-Hsin Hsu
International Conference on Multimedia Modeling (MMM'25)
Nara, Japan, January 2025

EXPERIENCE

- Ambient Intelligence for Immersive Networked Systems Lab @ NTHU Jun. 2024 – Present
Research Assistant
Research Description:
Explored advanced techniques for motion prediction in point cloud systems, contributing to multiple projects:
- Learning Dynamic Point Cloud Frames with Motion Vectors While Retaining High-quality Rendered Views (Joint work with NUS, RU, and NYCU)
 - Researched on Error Concealment and Temporal Super-Resolution Using Motion Vectors in Point Cloud Streams (Joint work with NUS, RU, and NYCU)

Collaborated with Prof. Wei Tseng Ooi from the National University of Singapore, Prof. Yao Liu from Rutgers University, and Prof. Chun-Ying Huang from National Yang-Ming Chiao Tung University