

Lee Yi-Shan

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Education

National Tsing Hua University (NTHU)

Hsinchu, Taiwan

MS of Electrical Engineering

Sep 2021 - Jun 2023

- Overall GPA: 3.83/4.30
- Advised by Prof. Min Sun. (<https://aliensunmin.github.io/>)
- **Courses:** Computer Vision, Network Security, Advanced game Theory and its applications, Machine Learning, Pattern Recognition, Financial Technology, Numerical Optimization, Quantum Mechanics

National Yang Ming Chiao Tung University (NYCU)

Hsinchu, Taiwan

BS of Electrical and Computer Engineering

Sep 2017 - Jun 2021

- Overall GPA: 3.33/4.30
- Academic Achievement Award(Awarded to the top 5% students in the previous semester.): Mar 2018
- **Courses:** Object-oriented Programming, Data Structure, Discrete Mathematics, Deep Learning

Projects

Video and Music Matching via Cross-Modality Lifting

Hsinchu, Taiwan

National Tsing Hua University (NTHU)

Sep 2021 - Mar 2023

- Advisor: Prof. Min Sun
- Video and background music are matched by a content-based system that uses metric learning to find a shared embedding space.

An Interesting Fighting Game using Style-based Generative Adversarial Network and Real-time Human Pose Estimation

Hsinchu, Taiwan

National Tsing Hua University (NTHU)

Sep 2022 - Jan 2023

- computer vision course
- It's an interesting two-player fighting game that aims to present real-time human action detection using the front-facing camera. Besides, the players' faces gradually change to ugly faces during the game.
- <https://github.com/mandy1223ks/CV-Final-Project>

Pre-processing for AngLoc Indoor Location Fingerprinting using Wi-Fi CSI

Hsinchu, Taiwan

National Yang Ming Chiao Tung University (NYCU)

Feb 2021 - Jun 2021

- Advisor: Prof. Kai-Ten Feng
- Utilize the technique of noise removal and phase calibration to preprocess the Wi-Fi CSI to improve the performance of indoor localization.
- <https://github.com/mandy1223ks/Pre-processing-for-AngLoc-Indoor-Location-Fingerprinting-using-Wi-Fi-CSI>

Learning-Based Indoor Localization by Using Wi-Fi CSI

Hsinchu, Taiwan

National Yang Ming Chiao Tung University (NYCU)

Feb 2020 - Jan 2021

- Advisor: Prof. Kai-Ten Feng
- Utilize Wi-Fi CSI and machine learning to detect the presence of people in a room and determine their location.
- <https://github.com/mandy1223ks/Learning-Based-Indoor-Localization-by-Using-Wi-Fi-CSI>

A Game for Snake Touching Cube

Hsinchu, Taiwan

National Yang Ming Chiao Tung University (NYCU)

Feb 2019 - Jun 2019

- object-oriented programming course
- Players need to control the snake to move left and right. When it encounters a block, it will offset its own length. The number on the block will offset the length.
- <https://github.com/mandy1223ks/A-Game-for-Snake-Touching-Cube>

Skills

Programming Python (Pandas, PyTorch, NumPy etc.), C/C++, HTML/CSS, MYSQL.

Miscellaneous Linux, \LaTeX (Overleaf), Microsoft Office, Git.

Publications

Yi-Shan Lee, Wei-Cheng Tseng, Fu-En Wang, Min Sun

VMCL: Video and Music Matching via Cross-Modality Lifting (under submission)

<https://arxiv.org/abs/2303.12379>