

Wei-Tung Lin

"Embrace Challenges, Cultivate Enthusiasm, Master New Technologies."

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Education

National Taiwan University of Science and Technology (NTUST)	Taipei, Taiwan
M.S., Computer Science. GPA 4.13 / 4.3. Under the supervision of Prof. Kai-Lung Hua.	Feb. 2023 - Present
National Taiwan University of Science and Technology (NTUST)	Taipei, Taiwan
B.S., Computer Science. GPA 3.75 / 4.3.	Sep. 2018 - Jan. 2023

Publication

Wei-Tung Lin, Yong-Xiang Lin, Jyun-Wei Chen, Kai-Lung Hua. PixMamba: Leveraging State Space Models in a Dual-Level Architecture for Underwater Image Enhancement. Asian Conference on Computer Vision (ACCV), 2024.

Experience

Visual AI Group, KAIST	Korea
Visiting Researcher	Sep. 2024 – Present

- Developing novel algorithms for 3D shape generation using deep learning techniques.
- Contributing to publications and presenting findings at research seminars

Prof. Kai-Lung Hua Lab, NTUST	Taiwan
Research Assistant	Sep. 2021 – Present

- Collaboratively designed and enhanced the Multi-modal Perception Module for Autonomous Vehicles, contributing to several NSTC projects with a focus on the successful integration of radar and camera.
- Advanced the field of dynamic perception by developing models for Event Cameras and Motion Vector Sensors, significantly improving real-time object detection capabilities.
- Played a pivotal role in the development of Advanced Driver Assistance Systems (ADAS) at MICROMAX, including hands-on integration of multi-sensor data and the creation of Level 2 ADAS features like Adaptive Cruise Control (ACC), Autonomous Emergency Braking (AEB), and lane centering, culminating in the successful deployment in real-world road scenarios.

Heroic Faith	Taiwan
Software Engineer Intern	Jul. 2021 – Feb. 2022

- Engineered an end-to-end ETL (Extract, Transform, Load) pipeline utilizing Apache Airflow to automate the data labeling process, enhancing the efficiency of model training and reducing manual error. This streamlined pipeline significantly improved the data preparation phase, ensuring high-quality inputs for machine learning models.
- Implemented GitLab CI/CD for seamless automation of build and test workflows, enhancing team productivity and code quality.

Leadership & Awards

Student Association of CS department	NTUST
Vice President	Sep 2019 - Jun. 2020

- Led and organized events and activities for over 100 students.

Academic Excellence Award	Feb. 2020 - Jun. 2020
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- Awarded to the top 5% students in the semester.

Skills & Interests

Technical: PyTorch, Docker, Linux, Transformers, State-space Models, CNNs, Latex

Language: Chinese (Native), English (Fluent, IELTS 6.5)

Academic: Linear Algebra (A+), Discrete Math (A+), Data Structure (A+), Algorithm (A+), Computer Architecture (A+), Operating System (A+)

Interests: Deep Learning, Computer Vision, Badminton