

# PANG-CHI LO

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## EDUCATION

### Carnegie Mellon University

Master of Science in Computer Vision

- GPA: 4.28/4.33
- Relevant Coursework: Introduction to Robot Learning, Learning for 3D Vision, Robot Localization and Mapping

Pittsburgh, PA

Expected December 2026

### National Taiwan University

Bachelor of Science in Computer Science and Information Engineering

- GPA: 4.02/4.30

Taipei, Taiwan

January 2025

## WORK EXPERIENCE

### Genenet Technology Ltd.

Data Engineer Intern

- Contributed to building a platform for genetic circuits with genetic sequence analytical tools for lab researchers.
- Implemented three different computer vision algorithms, including boundary detection and segmentation models for measuring cardiac organoid beating rate from lab videos and reached over 70% accuracy.

Stevenage, UK

July 2024 - November 2024

## RESEARCH EXPERIENCE

### Mobile Robotics Lab, ETH Zurich

ETH Robotics Student Fellowship advised by Prof. Stefan Leutenegger

- Probed Real2Sim2Real robot learning from human demonstrations with model-based reinforcement learning frameworks.

Zurich, Switzerland

July 2026 - August 2026

### Katef Group, Carnegie Mellon University

Master Research advised by Prof. Katerina Fragkiadaki

- Collaborated on the development of a Real-to-Sim benchmarking environment for generalist robotic policy evaluation.

Pittsburgh, PA

October 2025 - Current

### Embodied Artificial Intelligence Lab, National Taiwan University

Undergraduate Research advised by Prof. Tsung-Wei Ke

- Researched 4D scene reconstruction challenges and proposed a novel model unifying 3D reconstruction and dynamic scene understanding via integrating 3D RoPE and Chamfer loss on flow supervision, achieving over 40% improvement in flow estimation.

Taipei, Taiwan

September 2024 - September 2025

### Communication and Multimedia Lab, National Taiwan University

Undergraduate Research advised by Prof. Winston H. Hsu and Prof. Yi-Ting Chen

- Explored error detection for few-shot imitation learning and cooperated in developing a cross-domain benchmark and proposing a pattern extractor that surpassed strong baselines by an 5% performance shift across 21 scenarios.
- Investigated reward generation for reinforcement learning in long-horizon robotic manipulation tasks from action-free videos with language instructions and achieved a 43% improvement in success rates.

Taipei, Taiwan

September 2022 - January 2025

## PUBLICATIONS

[1] Yash Jangir, Yidi Zhang\*, **Pang-Chi Lo\***, Kashu Yamazaki\*, Chenyu Zhang\*, Kuan-Hsun Tu, Tsung-Wei Ke, Lei Ke, Yonatan Bisk, Katerina Fragkiadaki, "RobotArena  $\infty$ : Scalable Robot Benchmarking via Real-to-Sim Translation," *ICLR* 2026

[2] **Pang-Chi Lo\***, Jhao-Syun Lai\*, Tsung-Wei Ke, "SM4RT: Cascaded Feed-forward Model for 4D Reconstruction," *BMVC* 2026

[3] Kuo-Han Hung\*, **Pang-Chi Lo\***, Jia-Fong Yeh\*, Han-Yuan Hsu, Yi-Ting Chen, Winston H. Hsu, "VICtoR: Learning Hierarchical Vision-Instruction Correlation Rewards for Long-horizon Manipulation," *ICLR* 2025

[4] Jia-Fong Yeh, Kuo-Han Hung\*, **Pang-Chi Lo\***, Chi-Ming Chung, Tsung-Han Wu, Hung-Ting Su, Yi-Ting Chen, Winston H. Hsu, "AED: Adaptable Error Detection for Few-shot Imitation Policy," *NeurIPS* 2024

## SELECTED COURSE PROJECTS

### Adversarial Attacks on Language and Vision Model-Powered Robots

Security and Privacy in Machine Learning at National Taiwan University

- Investigated vulnerability of vision-language model(VLM)-powered robots under targeted multimodal adversarial attacks across malicious prompts, perturbed goal images, and perturbed demonstration videos.
- Achieved a 40% targeted attack success rate shift with projected gradient descent on image perturbation.

Taipei, Taiwan

Spring 2024

## SKILLS

**Languages:** Native - Mandarin and Taiwanese, Proficient - English, Conversational - German

**Programming:** Advanced - Python, C/C++, and JavaScript **Machine Learning Toolkits:** PyTorch, Numpy, Scikit-learn

**Cloud & DevOps:** Docker, AWS, GCP, Nginx **Backend Development:** Node.js, Express, Flask, FastAPI, REST API

**Frontend Development:** React, HTML5, CSS **Databases & Data Management:** SQL, MongoDB