

Tai-Ming Huang

Ph.D. Student in Computer Science | National Taiwan University

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Education

National Taiwan University Ph.D. in Computer Science Advisor: Prof. Wen-Huang Cheng Research: Deep learning, computer vision, security, deepfake detection, and MLLMs.	Sep 2024 - Present
National Taiwan University of Science and Technology M.S. in Computer Science Advisor: Prof. Kai-Lung Hua Research: Computer vision and deep learning.	Feb 2021 - Jul 2023
National Taiwan University of Science and Technology B.S. in Computer Science Advisor: Prof. Kai-Lung Hua	Sep 2017 - Jan 2021

Research and Internship Experience

Research Assistant Academia Sinica Research Center for Information Technology Innovation (CITI) Advisor: Jun-Cheng Chen - Research in computer vision, vision-language understanding, and deepfake forensics. - Generalizable detection of facial video forgeries and AI-generated images.	Nov 2023 - Present
Deep Learning Software Engineer Intern Intel Internet of Things Group (IoTG) Mentor: Chung-Yeh Wang - Published an Intel white paper on image processing with the OpenVINO 2022 pre- and post-processing APIs. - Presented "3D Human Reconstruction with OpenVINO" to the global OpenVINO team.	2021 - 2022

Selected Publications

Complete publication list: [Google Scholar](#). * Equal contribution.

[C8] A Two-Stage Agentic Framework for Explainable Deepfake Detection in the 2026 ACM Multimedia TRIDENT Image Track Tai-Ming Huang , Yu Zhu, Tzu-Heng Peng, Yan-Tsung Peng, Kai-Lung Hua, Wen-Huang Cheng, Junichi Yamagishi, Jun-Cheng Chen ACM International Conference on Multimedia (ACM MM)	2026
[C7] Adapt2Hide: Leveraging Off-the-shelf Autoencoder for Reversible Visual Processing Ernie Chu, I-Sheng Fang, Tai-Ming Huang , Pin-Yen Chiu, Vishal M. Patel, Jun-Cheng Chen IEEE International Conference on Image Processing (ICIP Oral)	2026
[C6] DE-Seg: A Dual-Teacher and Edge-Guided Framework for Semi-Supervised Medical Image Segmentation Wen-Shan Hsu*, Tai-Ming Huang *, Hui-Guan Yuan, Wen-Huang Cheng, Kai-Lung Hua IEEE International Conference on Multimedia and Expo (ICME)	2026
[C5] Dragonite: Single-Step Drag-based Image Editing with Geometric-Semantic Guidance Meng-Ting Zhong, Tai-Ming Huang , Shang-Fu Chen, Wen-Huang Cheng, Kai-Lung Hua IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	2026

[C4] ThinkFake: Unlocking Inherent Forensic Reasoning in MLLMs for AI-Generated Image Detection Tai-Ming Huang, Wei-Tung Lin, Kai-Lung Hua, Wen-Huang Cheng, Junichi Yamagishi, Jun-Cheng Chen Under review	2025
[C3] ExDF: Explainable Deepfake Detection with Vision-Language Model Shu-Tzu Lo*, Tai-Ming Huang*, Yue-Hua Han, Kai-Lung Hua, Jun-Cheng Chen IEEE International Conference on Image Processing (ICIP Spotlight)	2025
[C2] Towards More General Video-based Deepfake Detection through Facial Feature Guided Adaptation for Foundation Model Yue-Hua Han, Tai-Ming Huang, Kai-Lung Hua, Jun-Cheng Chen IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2025
[C1] Generalized Image-based Deepfake Detection through Foundation Model Adaptation Tai-Ming Huang, Yue-Hua Han, Ernie Chu, Shu-Tzu Lo, Kai-Lung Hua, Jun-Cheng Chen International Conference on Pattern Recognition (ICPR)	2024
[J2] Adjustable Model Compression using Multiple Genetic Algorithm Jose Jaena Mari Ople, Tai-Ming Huang, Ming-Chih Chiu, Yi-Ling Chen, Kai-Lung Hua IEEE Transactions on Multimedia (IEEE TMM)	2023
[J1] Unpaired Image-to-Image Translation using Negative Learning for Noisy Patches Yu-Hsiang Hung, Julianne Tan, Tai-Ming Huang, Shang-Che Hsu, Yi-Ling Chen, Kai-Lung Hua IEEE MultiMedia Magazine (IEEE MultiMedia)	2022

Awards

2026	ACM MM TRIDENT Grand Challenge	1st place
2026	Qualcomm x IEEE Low Power Computer Vision Challenge	5th place
2026	LINE Fresh Campus Competition 2025	1st of 228
2022	Intel DevCup	1st of 152
2021	TSMC x Microsoft Career Hack - Mixed Reality Group	2nd place

Skills

Programming: C/C++, C#, Python, JavaScript.

Machine learning: PyTorch, PyTorch Lightning.

Languages: Mandarin (native); English (limited working proficiency).