Pin-Yen Chiu

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Education

National Taiwan University (NTU) Sep. 2026 – Present
Master of Science in Communication Engineering *Taipei, Taiwan*

National Sun Yat-sen University (NSYSU) Aug. 2019 – Jun. 2023
Bachelor of Science in Computer Science and Engineering *Kaohsiung, Taiwan*

- GPA 3.86/4.3, Last 60 GPA 4/4.3

Experience

Research Assistant Jul. 2023 – Present
Research Center for Information Technology Innovation, Academia Sinica, Advisor: Jun-Cheng Chen *Taipei, Taiwan*

- Proposed an efficient, plug-and-play continuous concept control method enabling zero-shot adaptation across various diffusion models for both image and video synthesis while reducing training overhead.
- Designed a unified kinship face synthesis framework combining StyleGAN and diffusion models to enhance generation diversity while maintaining kinship consistency and facial attribute controllability.
- Developed a more comprehensive evaluation metric for assessing face editing performance in generative models, alleviating existing benchmarking limitations.

Selected Publications & Preprints

[1] **Pin-Yen Chiu**, I-Sheng Fang, Jun-Cheng Chen. **Text Slider: Efficient and Plug-and-Play Continuous Concept Control for Image/Video Synthesis via LoRA Adapters.**
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2026. [webpage] [paper]

[2] **Pin-Yen Chiu***, Dai-Jie Wu*, Chia-Hsuan Hsu, Po-Hsun Chu, Hsiang-Chen Chiu, Chih-Yu Wang, Jun-Cheng Chen. **StyleDiT: A Unified Framework for Diverse Child and Partner Faces Synthesis with Style Latent Diffusion Transformer.**
IEEE International Conference on Automatic Face and Gesture Recognition (FG), 2026. [paper]

[3] Ernie Chu*, I-Sheng Fang*, Tai-Ming Huang, **Pin-Yen Chiu**, Vishal Patel, Jun-Cheng Chen. **Adapt to Hide: Leveraging Off-the-shelf Autoencoder for Reversible Visual Processing.**
Under Reviewed.

[4] Yu-Feng Chen, Tzuhsuan Huang, **Pin-Yen Chiu**, Jun-Cheng Chen. **Invisible Backdoor Triggers in Image Editing Model via Deep Watermarking.**
IEEE International Conference on Advanced Visual and Signal-Based Systems (AVSS), 2025. [paper]

[5] Dai-Jie Wu*, **Pin-Yen Chiu***, Chih-Yu Wang, and Jun-Cheng Chen. **Towards Validating Face Editing Ability in Generative Models.** (* denotes equal contribution)
IEEE International Conference on Visual Communications and Image Processing (VCIP), 2024. [paper]

Projects

Wireless Network Attack Detector | *Python, Scikit-learn, HTML/CSS, Ajax, Flask, MongoDB* Nov. 2022

- Analyze the packet behaviors and detect various DoS attack via decision tree based ML models.
- Fill the security gaps during the transition period between different generations of Wi-Fi protocols.
- Visualize the attack behavior with a website for monitoring.
- Accepted in Journal of Information Science and Engineering, 2025. [paper] [poster]

Honors & Awards

3rd place, College of Engineering Joint Project Competition, NSYSU, 2022.

Academic Services

Reviewer, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)