

KENNETH YANG

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OBJECTIVE

I am seeking **research internship opportunities** in **Computer Vision, 3D Vision, and Machine Learning**. With a strong research background in parameter-efficient fine-tuning (PEFT) and 3D vision, I have engaged in several innovative projects that underscore my ability to work independently and lead research initiatives.

EDUCATION

National Tsing Hua University

Bachelor of Computer Science | Last 60 GPA: 4.24/4.30

Hsinchu, Taiwan

2020 - 2024

- Recipient of Dean's List Award (Top 5%) for two times

RESEARCH EXPERIENCE

Vision & Learning Lab, National Taiwan University

Research Assistant with Prof. Yu-Chiang Frank Wang

Taipei, Taiwan

Sep. 2024 – Present

- Research Areas: 3D Vision, Generative Models

- Improving 3D reconstruction robustness by mitigating inductive biases via test-time optimization.
 - * Developing methods to make 3D models robust to low-quality generated videos or sparse-view inputs.
- Training-free 3D-consistent video generation from extremely wide-baseline view pairs.
 - * Designing a training-free mechanism that enables existing video generative models to produce 3D-consistent video interpolations between extremely wide-baseline view pairs.

Multimedia Technologies Lab, Academia Sinica IIS

Summer Research Intern / Research Assistant with Dr. Jen-Chun Lin

Taipei, Taiwan

Jul. 2023 – Dec. 2024

- Research Areas: PEFT (Parameter-Efficient Fine-Tuning), Multi-Modality Retrieval

- [ICASSP'24 Oral] *Music-To-Dance Poses: Learning to Retrieve Dance Poses from Music.*
 - Developed a pioneering music-to-dance pose retrieval system, predicting and matching 3D human poses and shapes from musical snippets.
 - Proposed the innovative EDSA-Adapter, a novel fine-tuning method that integrates self-attention mechanisms with encoder-decoder transformations, achieving significant advancements in cross-modal music-to-dance pose retrieval tasks and surpassing existing methods.
- [NeurIPS'25 COML Workshop] *FPS: Feed-Forward Based Parameter Selection for Efficient Fine-Tuning*
 - Designing FPS, a novel feed-forward based parameter selection framework that identifies and updates the most impactful parameters during fine-tuning, reducing computational cost without sacrificing model performance.
 - Achieves performance comparable to SOTA methods while using only **10% of the memory** and delivering **2× faster** parameter selection.

Vision Science Lab, National Tsing Hua University

Undergraduate Student with Prof. Min Sun

Hsinchu, Taiwan

Aug. 2023 – Jun. 2024

- Research Areas: Multi-View Layout Estimation

- Focused on integrating predictions from various perspectives to enhance the accuracy and reliability of indoor spatial layout estimation.
- Contributing to the preparation of the *First Multi-View Layout Estimation Challenge* at the *Omnidirectional Computer Vision (OmniCV) Workshop*, CVPR 2023, including dataset labeling and codebase implementation.

PUBLICATIONS

[1] **FPS: Feed-Forward Based Parameter Selection for Efficient Fine-Tuning.**

Conference on Neural Information Processing Systems (NeurIPS), 2025, COML Workshop poster.

Kenneth Yang, Wen-Li Wei, Jen-Chun Lin.

[2] **Music-To-Dance Poses: Learning to Retrieve Dance Poses from Music.**

*IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2024, **Oral Presentation***

Bo-Wei Tseng, **Kenneth Yang**, Yu-Hua Hu, Wen-Li Wei, Jen-Chun Lin.

HONORS

Dean's List Award * 2

2023, 2024

Guanyin Temple Outstanding Student Scholarship * 2

2023, 2024

MeiChu Hackathon Competition : 3rd Place in ASML group.

2022

- Developed a comprehensive photo processing system featuring image editing, background removal, and automatic detection and deletion of photos with blinking human faces.

NTHU Excellent General Education Work Award

2020

TECHNICAL SKILLS

Programming Languages

Python, C/C++, Verilog

Machine Learning Frameworks

PyTorch