

CHUN-HSIAO (DANIEL) YEH

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RESEARCH INTERESTS

- ◆ **VLM Reasoning / Post-Training:** Enhancing the fundamental perception of Vision-Language Models (VLMs) by embedding spatial reasoning and geometric awareness, and improving physical-world grounding through targeted post-training techniques.
- ◆ **Controlled Generation:** Designing generative pipelines capable of decomposing and executing complex, instruction-based image editing and synthesis tasks with high controllability.
- ◆ **Multimodal Integration:** Aligning the gap between deep visual understanding and generative execution to build cohesive, adaptable, and user-directed AI systems.

EDUCATION

University of California, Berkeley Aug. 2021 - Present
Ph.D. in Vision Science (Computational Vision Track) *Berkeley, CA*
Advisors: Yi Ma (EECS), Meng C. Lin (VS)

National Taiwan University Sept. 2015 - Mar. 2019
M.S. in Engineering Science, Division of Computer Science *Taipei, Taiwan*

RESEARCH EXPERIENCES

Meta FAIR May 2025 - Nov. 2025
Research Scientist Intern *Menlo Park, CA*
Mentors: Fanyi Xiao, Shengyi Qian, Manchen Wang, Joseph Tighe
Project: VLM with 3D Geometric Priors for Spatial Reasoning (accepted to CVPR 2026) [C7]

Adobe Research May 2024 - Mar. 2025
Research Scientist Intern *San Jose, CA*
Mentors: Krishna Singh, Yilin Wang, Nanxuan Zhao, Yuheng Li, Richard Zhang
Project: VLM Planner on Complex Instruction-Based Image Editing (accepted to AAAI 2026) [C6]

Adobe Research May 2022 - Aug. 2022
Research Scientist Intern *San Francisco, CA*
Mentors: Simon Jenni, Fabian Caba, Bryan Russell, Josef Sivic
Project: Personalized VLMs for Video Retrieval (accepted to CVPR 2023) [C2]

Meta FAIR & NYU Sep. 2020 - Aug. 2021
Research Internship *Remote*
Collaborators: Yubei Chen, Yann LeCun
Project: Decoupled Contrastive Representation Learning (accepted to ECCV 2022) [C1]

SELECTED PUBLICATIONS

(C: Conference, *: Equal Contribution)

[C7] **Beyond 3D VQAs: Injecting 3D Spatial Priors into Vision-Language Models for Enhanced Geometric Reasoning**
Chun-Hsiao Yeh, Shengyi Qian, Manchen Wang, Yi Ma, Joseph Tighe, Fanyi Xiao
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026

[C6] **Beyond Simple Edits: X-Planner for Complex Instruction-Based Image Editing**
Chun-Hsiao Yeh, Yilin Wang, Nanxuan Zhao, Richard Zhang, Yuheng Li, Yi Ma, Krishna Kumar Singh

Association for the Advancement of Artificial Intelligence (AAAI), 2026

[C5] **Seeing from Another Perspective: Evaluating Multi-View Understanding in MLLMs**
Chun-Hsiao Yeh*, Chenyu Wang*, Shengbang Tong, Ta-Ying Cheng, Ruoyu Wang, Tianzhe Chu, Yuexiang Zhai, Yubei Chen, Shenghua Gao, Yi Ma

Association for the Advancement of Artificial Intelligence (AAAI), 2026

[C4] **Gen4Gen: Generative Data Pipeline for Generative Multi-Concept Composition**
Chun-Hsiao Yeh*, Ta-Ying Cheng*, He-Yen Hsieh*, David Chuan-En Lin, Yi Ma, Andrew Markham, Niki Trigoni, H.T. Kung, Yubei Chen

British Machine Vision Conference (BMVC), 2025

[C3] **Insight: A Multi-Modal Diagnostic Pipeline using LLMs for Ocular Surface Disease Diagnosis**

Chun-Hsiao Yeh, Jiayun Wang, Andrew D. Graham, Andrea J. Liu, Bo Tan, Yubei Chen, Yi Ma, Meng C. Lin

Medical Image Computing and Computer Assisted Intervention (MICCAI), 2024

[C2] **Meta-Personalizing Vision-Language Models to Find Named Instances in Video**

Chun-Hsiao Yeh, Byran Russell, Josef Sivic, Fabian David Caba Heilbron, Simon Jenni

Conference on Computer Vision and Pattern Recognition (CVPR), 2023

[C1] **Decoupled Contrastive Learning**

Chun-Hsiao Yeh, Cheng-Yao Hong, Yen-Chi Hsu, Tyng-Luh Liu, Yubei Chen, Yann LeCun

European Conference on Computer Vision (ECCV), 2022

PROFESSIONAL ACTIVITIES

Conference Reviewer

ICLR '25-'26, NeurIPS '25, CVPR '23-'26, ECCV '22, '24, ICCV '23, '25, AAAI '26, SIGGRAPH '25, MICCAI '24-'26, CPAL '24-'25