

CHUN-HSIAO (DANIEL) YEH

daniel_yeh@berkeley.edu, danielchyeh.github.io, (+1) 510-910-0254

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 (GASP, X-Planner).
- ◆ **Controlled Generation:** Designing generative pipelines capable of executing complex, instruction-based image editing and synthesis tasks with high controllability (X-Planner, Gen4Gen).
- ◆ **Multimodal Integration:** Aligning the gap between deep visual understanding and user-instruction to design adaptive agent frameworks (MD-Pipe, Meta-Pers).

INDUSTRY EXPERIENCE

Meta	Jun. 2026 - Present
Research Scientist	Menlo Park, CA

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 AAI 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]

EDUCATION

University of California, Berkeley	Aug. 2021 - May 2026
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

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–'26, CVPR '23–'26, ECCV '22, '24, '26, ICCV '23, '25, AAAI '26, SIGGRAPH '25, MICCAI '24–'26, CPAL '24–'25