

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 Inc.	Jun. 2026 - Present
Research Scientist	<i>Menlo Park, CA</i>

RESEARCH EXPERIENCES

Meta FAIR	May 2025 - Nov. 2025
Research Scientist Intern	<i>Menlo Park, CA</i>

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	<i>San Jose, CA</i>

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	<i>San Francisco, CA</i>

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	<i>Remote</i>

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)	<i>Berkeley, CA</i>

Advisors: Yi Ma (EECS), Meng C. Lin (VS)

National Taiwan University	Sept. 2015 - Mar. 2019
M.S. in Engineering Science, Division of Computer Science	<i>Taipei, Taiwan</i>

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-'27, NeurIPS '25-'26, CVPR '23-'26, ECCV '22, '24, '26, ICCV '23, '25, AAAI '26-'27, SIGGRAPH '25, 3DV '27, MICCAI '24-'26, CPAL '24-'25