

Cheng-Fu Yang

cfyang@cs.ucla.edu | [Google Scholar](#) | [Home Page](#)

EDUCATION & EXPERIENCE

University of California, Los Angeles Ph.D. in Computer Science; Advisor: <i>Kai-Wei Chang</i>	Sep. 2022 – Present
National Taiwan University B.S. in Electrical Engineering	Sep. 2016 – Jun. 2020
Research Intern Amazon; Mentor: <i>Feng Gao</i>	Jul. 2023 – Sep. 2023
Research Intern Microsoft Research; Mentor: <i>Yen-Chun Chen</i>	Apr. 2022 – Jun. 2023
Research Assistant National Taiwan University; Advisor: <i>Yu-Chiang Frank Wang</i>	Sep. 2020 – Jun. 2022
Collaborative Research Project Participant Carnegie Mellon University; Mentor: <i>Yao-Hung Hubert Tsai</i> ; Advisor: <i>Ruslan Salakhutdinov, Louis-Philippe Morency</i>	Dec. 2020 – Sep. 2021

RESEARCH INTEREST

Representation Learning for Embodied planning and interaction.
Vision and Language representation learning for generation and reasoning.

PUBLICATIONS

- Cheng-Fu Yang**, Haoyang Xu, Te-Lin Wu, Xiaofeng Gao, Kai-Wei Chang, and Feng Gao. “Planning as In-Painting: A Diffusion-Based Embodied Task Planning Framework for Environments under Uncertainty”, *Arxiv Preprint 2023*.
- Cheng-Fu Yang**, Yen-Chun Chen, Jianwei Yang, Xiyang Dai, Lu Yuan, Yu-Chiang Frank Wang, and Kai-Wei Chang. “LACMA: Language-Aligning Contrastive Learning with Meta-Actions for Embodied Instruction Following”, *EMNLP 2023*.
- Cheng-Fu Yang**, Yao-Hung Hubert Tsai, Wan-Cyuan Fan, Ruslan Salakhutdinov, Louis-Philippe Morency, and Yu-Chiang Frank Wang. “Paraphrasing is all you need for novel object captioning”, *NeurIPS 2022*.
- Cheng-Fu Yang**, Wan-Cyuan Fan, Fu-En Yang, and Yu-Chiang Frank Wang. “Layouttransformer: Scene layout generation with conceptual and spatial diversity”, *CVPR 2021*.
- Wan-Cyuan Fan, **Cheng-Fu Yang**, Chiao-An Yang and Yu-Chiang Frank Wang. “Target-free Text-guided Image Manipulation”, *AAAI 2023*.
- Chih-Chun Yang, **Cheng-Fu Yang**, Wan-Cyuan Fan, and Yu-Chiang Frank Wang. “Cross-Modal Mutual Learning for Audio-Visual Speech Recognition and Manipulation”, *AAAI 2022*.
- Chiao-An Yang, Cheng-Yo Tan, Wan-Cyuan Fan, **Cheng-Fu Yang**, Meng-Lin Wu, and Yu-Chiang Frank Wang. “Scene graph expansion for semantics-guided image outpainting”, *CVPR 2022*.

AWARDS AND HONORS

First Prize, Institute for Information Industry Enterprise Award at Meichu Hackathon	Sep. 2019
Dean’s List, National Taiwan University	Sep. 2019
Dean’s List, National Taiwan University	Jan. 2017

TEACHING EXPERIENCES & PROFESSION SERVICES

Teaching Assistant, UCLA

Fall 2023

Introduction to Computer Science; Instructor: David Smallberg

Teaching Assistant, National Taiwan University

Fall 2021

Deep Learning for Computer Vision; Instructor: Yu-Chiang Frank Wang

Teaching Assistant, National Taiwan University

Fall 2019 & Spring 2020

Machine Learning; Instructor: Hung-Yi Lee

Conference Reviewer

CVPR, ECCV, ICCV, NeurIPS