

Cheng-Fu Yang

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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 Topic: Constituting Policies for Language Agents Amazon; Mentor: <i>Weitong Ruan</i>	Jul. 2024 – Sep. 2024
Research Intern Topic: Diffusion Policies for Embodied Agents Amazon; Mentor: <i>Feng Gao</i>	Jul. 2023 – Sep. 2023
Research Intern Topic: Representation Learning for Instruction Following Agents 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

PUBLICATIONS

Cheng-Fu Yang , Haoyang Xu, Te-Lin Wu, Xiaofeng Gao, Kai-Wei Chang, and Feng Gao. “Planning as Inpainting: A Generative Framework for Realistic Embodied Path Planning”	NeurIPS OWA Workshop, 2024
Silin Meng, Yiwei Wang, Cheng-Fu Yang , Nanyun Peng and Kai-Wei Chang. “LLM-A*: Large Language Model Enhanced Incremental Heuristic Search on Path Planning”	EMNLP, 2024
Zi-Yi Dou, Cheng-Fu Yang , Xueqing Wu, Kai-Wei Chang and Nanyun Peng. “Reflection-Reinforced Self-Training for Language Agents”	EMNLP, 2024
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
Wan-Cyuan Fan, Cheng-Fu Yang , Chiao-An Yang and Yu-Chiang Frank Wang. “Target-free Text-guided Image Manipulation”	AAAI 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
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 inpainting”	CVPR 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

MANUSCRIPT

Cheng-Fu Yang , Da Yin and Kai-Wei Chang. “VL Akinator: Constructing Interpretable Decision Trees for Few-shot Fine-grained Classification”	In Progress
Cheng-Fu Yang , Christos Christodoulopoulos, Thanh Tran, Weitong Ruan and Kai-Wei Chang. “Constituting Precedents for Few-shot Text-to-Image RAI Evaluation”	In Progress

RESEARCH INTEREST

Representation Learning for agent planning and interaction.

Vision and Language representation learning for generation and reasoning.

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 2024

Advanced Natural Language Processing; Instructor: Violet Peng

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, ACL, EMNLP