WEIXI FENG

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BIO

I am a fourth-year Ph.D. student in the Computer Science Department of the University of California, Santa Barbara. I am interested at the intersection of vision and language, especially compositional image generation and Large Language Models (LLM). Recently, I have been trying to build LLM-centered visual generation systems in multiple domains (images, videos, 3D).

EDUCATION

University of California, Santa Barbara Ph.D. in Computer Science, 3.92/4.0	Sep. 2020 - Present
University of California, Los Angeles M.S. in Electrical and Computer Engineering, 4.0/4.0	Sep. 2018 - Mar. 2020
The Hong Kong Polytechnic University B.E.(Honors) in Electronic and Information Engineering, 4.0/4.0	Sep. 2014 - Jun. 2018
EXPERIENCE	
Adobe Research, Research Scientist Intern Mentor: Quan Tran	Jun. 2023 - Sep. 2023
NLP Group, UCSB, Graduate Research Assistant	Sep. 2021 - present
Advisor: Prof. William Wang	

PUBLICATION

Conference papers

LayoutGPT: Compositional Visual Planning and Generation with Large Language Models

Weixi Feng*, Wanrong Zhu*, Tsu-jui Fu, Varun Jampani, Arjun Akula, Xuehai He, Sugato Basu, Xin Eric Wang, William Yang Wang (*equal contribution)

NeurIPS. 2023

EDIS: Entity-Driven Image Search over Multimodal Web Content

Siqi Liu*, **Weixi Feng***, Wenhu Chen, William Yang Wang (*equal contribution) *EMNLP*, 2023

Training-Free Structured Diffusion Guidance for Compositional Text-to-Image Synthesis

Weixi Feng, Xuehai He, Tsu-Jui Fu, Varun Jampani, Arjun Akula, Pradyumna Narayana, Sugato Basu, Xin Eric Wang, William Yang Wang *ICLR 2023*

Neuro-Symbolic Procedural Planning with Commonsense Prompting

Yujie Lu, **Weixi Feng**, Wanrong Zhu, Wenda Xu, Xin Eric Wang, Miguel Eckstein, William Yang Wang ICLR 2023 (Spotlight)

ULN: Towards Underspecified Vision and Language Navigation

Weixi Feng, Tsu-jui (Ray) Fu, Yujie Lu, William Yang Wang EMNLP 2022

CPL: Counterfactual Prompt Learning for Vision and Language Models

Xuehai He, Diji Yang, **Weixi Feng**, Tsu-Jui Fu, Arjun Akula, Varun Jampani, Pradyumna Narayana, Sugato Basu, William Yang Wang, Xin Eric Wang *EMNLP 2022*

Preprints

VELMA: Verbalization Embodiment of LLM Agents for Vision and Language Navigation in Street View

Raphael Schumann, Wanrong Zhu, **Weixi Feng**, Tsu-Jui Fu, Stefan Riezler, William Yang Wang ArXiv, 2023

Discriminative Diffusion Models as Few-shot Vision and Language Learners

Xuehai He, **Weixi Feng**, Tsu-Jui Fu, Varun Jampani, Arjun Akula, Pradyumna Narayana, Sugato Basu, William Yang Wang, Xin Eric Wang *ArXiv*, 2023

Anticipating the Unseen Discrepancy for Vision and Language Navigation

Yujie Lu, Huiliang Zhang, Ping Nie, **Weixi Feng**, Wenda Xu, Xin Eric Wang, William Yang Wang ArXiv, 2022

SERVICE

Reviewer for EACL 2023, ACL 2023, NeurIPS 2023, ICLR 2024, SocalNLP 2022, TL4NLP@NeurIPS 2022.

TEACHING

Guest Lecture, CS281B Advanced Topics in Computer Vision, UCSB	Winter 2023
TA, CS165B Introduction to Machine Learning, UCSB	Spring 2022, 2020 - 2021
TA, ECE 247 Neural Network and Deep Learning, UCLA	Winter 2020
TA, ECE 102 System and Signals, UCLA	Fall 2019

AWARDS & ACTIVITIES

Robert Noyce Fellow, UC Santa Barbara	2022
Academic Excellence Fellowship, UC Santa Barbara	2020
Departmental Outstanding Student, PolyU	2018
HKSAR Government Scholarship, Hong Kong	2016-2018
IEEE(HK Section) Prize, PolyU	2016/17
Wong Tit-Shing Scholarship, PolyU	2016
CMA & Donors Scholarship, PolyU	2016
Hitachi (Hong Kong) Ltd. Scholarship, PolyU	2016
Hong Kong & Kowloon EAMA Scholarship, PolyU	2016
Dean's List	2014-2018