WEIXI FENG

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EDUCATION

University of California, Santa Barbara — Sep. 2020 - Present
Ph.D. in Computer Science

University of California, Los Angeles — Sep. 2018 - Mar. 2020
M.S. in Electrical and Computer Engineering

The Hong Kong Polytechnic University — Sep. 2014 - Jun. 2018
B.E.(Honors) in Electronic and Information Engineering

EXPERIENCE

Adobe Research, *Research Scientist Intern* — Jun. 2023 - Present
Mentor: Quan Tran

NLP Group, UCSB, *Graduate Research Assistant* — Sep. 2021 - present
Advisor: Prof. William Wang

Amazon Ads, *Data Scientist Intern* — Jun. 2021 - Sep. 2021
Mentor: Wei Tang, Marty Eitreim

PUBLICATION

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
Preprint, 2023

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)
Preprint, 2023

EDIS: Entity-Driven Image Search over Multimodal Web Content

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

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.
Program Committee member of 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