

# WEIXI FENG

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## BIO

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I am a final-year Ph.D. student in the Computer Science Department of the University of California, Santa Barbara. My research interests lie at the intersection of vision and language, with a focus on image/video generation, multimodal agents, and VLM benchmarks.

## EDUCATION

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**University of California, Santa Barbara** Sep. 2020 - Present  
Ph.D. in Computer Science at UCSB NLP Group  
Advisor: Prof. William Wang

**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

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**NVIDIA Research, *Research Scientist Intern*** Jun. - Sep. 2024  
*Mentors: Weili Nie, Arash Vahdat*  
Topic: BlobGEN-Vid, Controllable Video Generation.

**Adobe Research, *Research Scientist Intern*** Jun. - Sep. 2023  
*Mentor: Quan Tran*  
Topic: Compositional Text-to-Image Generation.

**Amazon Ads, *Data Scientist Intern*** Jun. 2021 - Sep. 2021  
*Mentor: Wei Tang, Marty Eitreich*  
Topic: Anomaly detection on time series data.

## PUBLICATION

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**BlobGEN-Vid: Compositional Text-to-Video Generation with Blob Video Representations**  
**Weixi Feng**, Chao Liu, Sifei Liu, William Yang Wang, Arash Vahdat, Weili Nie  
*ArXiv, Jan., 2025 / Project Page*

**TC-Bench: Benchmarking Temporal Compositionality in Text-to-Video and Image-to-Video Generation**  
**Weixi Feng**, Jiachen Li, Michael Saxon, Tsu-jui Fu, Wenhui Chen, William Yang Wang  
*ArXiv, 2024*

**T2V-Turbo: Breaking the Quality Bottleneck of Video Consistency Model with Mixed Reward Feedback**  
Jiachen Li, **Weixi Feng**, Tsu-Jui Fu, Xinyi Wang, Sugato Basu, Wenhui Chen, William Yang Wang  
*NeurIPS 2024*

**MMWorld: Towards Multi-discipline Multi-faceted World Model Evaluation in Videos**  
Xuehai He, **Weixi Feng**, Kaizhi Zheng, Yujie Lu, Wanrong Zhu, Jiachen Li, Yue Fan, Jianfeng Wang, Linjie Li, Zhengyuan Yang, Kevin Lin, William Yang Wang, Lijuan Wang, Xin Eric Wang  
*ArXiv, 2024*

**Reward Guided Latent Consistency Distillation**

Jiachen Li, **Weixi Feng**, Wenhui Chen, William Yang Wang  
*Transactions on Machine Learning Research (TMLR), 2024*

**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  
*AAAI 2024*

**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\***, Wenhui 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)*

**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  
*Transactions on Machine Learning Research (TMLR), 2024*

**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*

**SERVICE**

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Reviewer for NeurIPS 2023 (Top Reviewer)/2024, ICLR 2024/2025, ICML 2024, CVPR 2024, ECCV 2024, EG 2025, AAAI 2025, IJCAI 2024, COLM 2024, EACL 2023, ACL 2023, TCSVT.

PC member of SocialNLP 2022, TL4NLP@NeurIPS 2022.

**TEACHING**

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**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

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Travel Award, NeurIPS	2023
Robert Noyce Fellow, UC Santa Barbara	2022
Academic Excellence Fellowship, UC Santa Barbara	2020
HKSAR Government Scholarship, Hong Kong	2016-2018
IEEE(HK Section) Prize, PolyU	2016-17