

Yuming Gu

yuminggu@usc.edu | Personal Page | GitHub | Scholar

EDUCATION

University of Southern California	Los Angeles, CA
<i>Ph.D in Computer Science advised by Prof. Stefanos Nikolaidis and Prof. Hao Li</i>	Sep. 2021 – Now
University of Southern California	Los Angeles, CA
<i>M.S. in Computer Science advised by Prof. Hao Li</i>	Aug. 2019 – Dec 2021
University of California, Berkeley	Berkeley, CA
<i>Exchange Student</i>	July 2018- Aug. 2018
Dalian Maritime University	Dalian, China
<i>B.S. in Electrical Engineering</i>	Aug. 2015 – May 2019

HONORS & AWARDS

<i>GSG Professional Development Fund, University of Southern California.</i>	2024
<i>First Award Winner, Mathematical Contest in Modeling (MCM/ICM), COMAP.</i>	2019
<i>National Scholarship.</i>	2017, 2018

RESEARCH PUBLICATIONS & PREPRINTS

Page	
	ENVISION: Embodied Visual Planning via Goal-Imagery Video Diffusion
	Yuming Gu , Yizhi Wang, Yining Hong, Yipeng Gao, Jiang Hao, Angtian Wang, Bo Liu, Nathaniel S. Dennler, Zhengfei Kuang, Hao Li, Gordon Wetzstein, Chongyang Ma
	Under Review, 2026
	DiffPortrait360: Consistent Portrait Diffusion for 360 View Synthesis
	Yuming Gu , Phong Tran, Yujian Zheng, Hongyi Xu, Heyuan Li, Adilbek Karmanov, Hao Li
	IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025
	DiffPortrait3D: Controllable Diffusion for Zero-Shot Portrait View Synthesis
	Yuming Gu , Hongyi Xu, You Xie, Guoxian Song, Yichun Shi, Di Chang, Jing Yang, Linjie Luo
	IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Highlight Top 9.3% , 2024
	DisUnknown: Distilling Unknown Factors for Disentanglement Learning
	Sitao Xiang , Yuming Gu , Pengda Xiang, Menglei Chai, Hao Li, Yajie Zhao, Mingming He
	IEEE International Conference on Computer Vision (ICCV), 2021.
	One-Shot Identity-Preserving Portrait Reenactment
	Sitao Xiang , Yuming Gu , Pengda Xiang, Mingming He, Koki Nagano, Haiwei Chen, Hao Li
	arXiv 2020
	Protecting World Leaders Against Deep Fakes
	Shruti Agarwal, Hany Farid, Yuming Gu , Mingming He, Koki Nagano, Hao Li
	IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2019.

EXPERIENCE

TikTok Ltd	San Jose, CA
<i>Research Intern</i>	May 2025 – Current
• Working on a Research Project on Foundational Video Generation Model with Dr. Chongyang Ma	
MBZUAI	Abu Dhabi, UAE
<i>Visiting Student</i>	May 2024 – Aug 2024
• Research Project on Full Head Novel View Synthesis	
TikTok Ltd	San Jose, CA
<i>Research Intern</i>	May 2023 – Nov 2023
• Working on Single Image portrait novel view synthesis with Dr. Hongyi Xu and Dr. Linjie Luo	

University of Southern California

Research Assistant

- Worked on AI Driven face synthesis, Conversational AI project with **Prof. Hao Li**
- Diffusion Research with **Prof. Stefanos Nikolaidis**
- Processed Lightstage data to 3D mesh with Unified Topology

Los Angeles, CA

June 2019 – Present

Professional Reviewer Service

CVPR, ICCV, ECCV, Neurips, ACM MultiMedia, WACV, 3DV

TEACHING EXPERIENCE

Teaching Assistant, CSCI585: Database System

Fall 2022, 2023

Teaching Assistant, CSCI576: MultiMedia System

Fall 2025

VOLUNTEER ACTIVITES

The World Economic Forum Davos, 2017,2019. ACM Programming Contest 2019