

Yuming Gu

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EDUCATION

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

EXPERIENCE

TikTok Ltd <i>Research Intern</i>	San Jose, CA <i>May 2023 – Nov 2023</i>
<ul style="list-style-type: none">Working on Single Image portrait novel view synthesis supervised by Dr. Hongyi Xu and Dr. Linjie Luo	
USC Institute of Creative Technologies, Vision and Graphics Lab <i>Research Assistant</i>	Los Angeles, CA <i>July 2019 – Present</i>
<ul style="list-style-type: none">Worked on AI Driven face synthesis, Conversational AI project with Prof. Hao LiProcessed Lightstage data to 3D mesh with Unified TopologyReconstructed the back of a human head	

RESEARCH PUBLICATIONS & PREPRINTS

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 arXiv 2023	Paper Video
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.	

RESEARCH PROJECTS

Audio Driven Radian Field Demo Video
Mesh Guide Deformation Demo Video
Digital Hulk Conversational AI Project Demo Video
3D Clothes Dataset Demo Video
Reconstructed Head Back of Light Stage Data Demo Video
Gloves to translate sign language to speech Demo Video

Professional Reviewer Service

CVPR 2021,22,23,24, ICCV 2021,23, ECCV2022, 24. Total Reviews:20 Papers

TEACHING EXPERIENCE

Teaching Assistant, CSCI585: Database System	Fall 2022, 2023
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VOLUNTEER ACTIVITIES

The World Economic Forum Davos, Operation Team	2019
Asian ACM Programming Competition, Student Volunteer	2018
The World Economic Forum Davos, Excellent Student Volunteer	2017