Yuming Gu

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

EDUCATION

University of Southern California   Los Angeles, CA
Ph.D in Computer Science advised by **Prof. Stefanos Nikolaidis**   *Sep. 2021 –Now*

University of Southern California   Los Angeles, CA
M.S. in Computer Science advised by **Prof. Hao Li**   *Aug. 2019 – Dec 2021*

University of California, Berkeley   Berkeley, CA
Exchange Student   *July 2018- Aug. 2018*

Dalian Maritime University   Dalian, China
B.S. in Electrical Engineering   *Aug. 2015 – May 2019*

RESEARCH PUBLICATIONS & PREPRINTS

DiffPortrait3D: Controllable Diffusion for Zero-Shot Portrait View Synthesis   **Paper Video**
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.

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*

EXPERIENCE

ByteDance Ltd   San Jose, CA
Research Intern   *May 2023 – Nov 2023*
- Working on Single Image portrait novel view synthesis supervised by **Dr.Hongyi Xu** and **Dr. Linjie Luo**

University of Southern California   Los Angeles, CA
Research Assistant   *June 2019 – Present*
- 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

Professional Reviewer Service

CVPR 2021,22,23,24, ICCV 2021,23, ECCV2022, 24

TEACHING EXPERIENCE

Teaching Assistant, CSCI585: Database System   Fall 2022, 2023

VOLUNTEER ACTIVITES

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