

Yuming Gu

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EDUCATION

University of Southern California

Ph.D in Computer Science advised by Prof. Stefanos Nikolaidis

Los Angeles, CA

Sep. 2021 – Now

University of Southern California

M.S. in Computer Science advised by Prof. Hao Li

Los Angeles, CA

Aug. 2019 – Dec 2021

University of California, Berkeley

Exchange Student

Berkeley, CA

July 2018- Aug. 2018

Dalian Maritime University

B.S. in Electrical Engineering

Dalian, China

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 10%**), 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

Research Intern

San Jose, CA

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

Research Assistant

Los Angeles, CA

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 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