

# Yuming Gu

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## EDUCATION

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

## EXPERIENCE

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<b>ByteDance Ltd</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>Working on Single Image portrait novel view synthesis supervised by <b>Dr. Hongyi Xu</b> and <b>Dr. Linjie Luo</b></li></ul>	San Jose, CA <i>May 2023 – Nov 2023</i>
<b>University of Southern California</b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>Worked on AI Driven face synthesis, Conversational AI project with <b>Prof. Hao Li</b></li><li>Diffusion Research with <b>Prof. Stefanos Nikolaidis</b></li><li>Processed Lightstage data to 3D mesh with Unified Topology</li></ul>	Los Angeles, CA <i>June 2019 – Present</i>

## RESEARCH PUBLICATIONS & PREPRINTS

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<b>DiffPortrait3D: Controllable Diffusion for Zero-Shot Portrait View Synthesis</b> 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 <b>Highlight Top 10%</b> ), 2024	<b>Paper Video</b>
<b>DisUnknown: Distilling Unknown Factors for Disentanglement Learning</b> Sitao Xiang, Yuming Gu, Pengda Xiang, Menglei Chai, Hao Li, Yajie Zhao, Mingming He IEEE International Conference on Computer Vision (ICCV), 2021.	
<b>One-Shot Identity-Preserving Portrait Reenactment</b> Sitao Xiang, Yuming Gu, Pengda Xiang, Mingming He, Koki Nagano, Haiwei Chen, Hao Li arXiv 2020	
<b>Protecting World Leaders Against Deep Fakes</b> 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

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Audio Driven Radian Field   <a href="#">Demo Video</a>
Mesh Guide Deformation   <a href="#">Demo Video</a>
Digital Hulk Conversational AI Project   <a href="#">Demo Video</a>
3D Clothes Dataset   <a href="#">Demo Video</a>
Reconstructed Head Back of Light Stage Data   <a href="#">Demo Video</a>
Gloves to translate sign language to speech   <a href="#">Demo Video</a>

## Professional Reviewer Service

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

## TEACHING EXPERIENCE

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

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