

Di Chang

dichang@usc.edu | <https://boese0601.github.io/> | [Github:Boese0601](https://github.com/Boese0601)

EDUCATION

University of Southern California

PhD in Computer Science Advisor: Prof. Mohammad Soleymani

Los Angeles, California, USA

Aug. 2022 – May. 2026(Anticipated)

Technical University of Munich

Bachelor of Science in Informatics Advisor: Prof. Matthias Nießner

Munich, Bavaria, Germany

Sep. 2021 – Jul. 2022

Dalian University of Technology

Bachelor of Engineering in Electronic Information Engineering

Dalian, Liaoning, China

Sep.2018 – Jun. 2021

RESEARCH AREA

Video Generation Image Editing Human Understanding Virtual Human 3D Geometry

ARXIV PREPRINTS

MagicPose4D: Crafting Articulated Models with Appearance and Motion Control

ArXiv

*Di Chang**, Hao Zhang*, Fang Li, Mohammad Soleymani[†], Narendra Ahuja[†]

2024

(* denotes equal contribution † denotes equal advise)

DIM: Dyadic Interaction Modeling for Social Behavior Generation

ArXiv

*Di Chang**, Minh Tran*, Maksim Siniukov, Mohammad Soleymani

2024

(* denotes equal contribution)

PUBLICATIONS

MagicPose: Realistic Human Poses and Facial Expressions Retargeting with Identity-aware DiffusionICML

Di Chang, Yichun Shi, Quankai Gao, Jessica Fu, Hongyi Xu, Guoxian Song, Qing Yan, Yizhe Zhu, Xiao Yang, Mohammad Soleymani

2024

DiffPortrait3D: Controllable Diffusion for Zero-Shot Portrait View Synthesis

CVPR(Highlight)

Yuming Gu, Xie You, Hongyi Xu, Guoxian Song, Yichun Shi, *Di Chang*, Jing Yang, Linjie Luo

2024

LibreFace: An Open-Source Toolkit for Deep Facial Expression Analysis

WACV

Di Chang, Yufeng Yin, Zongjian Li, Minh Tran, Mohammad Soleymani

2024

FG-Net: Facial Action Unit Detection with Generalizable Pyramidal Features

WACV

Yufeng Yin, *Di Chang*, Guoxian Song, Shen Sang, Tiancheng Zhi, Jing Liu, Linjie Luo, Mohammad Soleymani

2024

RC-MVSNet: Unsupervised Multi-View Stereo with Neural Rendering

ECCV

Di Chang, Aljaž Božič, Tong Zhang, Qingsong Yan, Yingcong Chen, Sabine Süssstrunk, Matthias Nießner

2022

Generalized Binary Search Network for Highly-Efficient Multi-View Stereo

CVPR

Zhenxing Mi, *Di Chang*, Dan Xu

2022

EXPERIENCE

Research Scientist Intern

May. 2024 – Aug. 2024

Digital Human&Avatar, Intelligent Creation Lab, Tiktok

Mentor: Dr. Hongyi Xu, Dr. Linjie Luo

- Researching on Diffusion Models, Dynamic Video Generation

Research Scientist Intern (Part-Time)

Aug. 2023 – Nov. 2023

Image&Video Generation, Intelligent Creation Lab, Tiktok

Mentor: Dr. Yichun Shi, Dr. Xiao Yang

- Researching on Diffusion Models, Motion Transfer

Research Scientist Intern

May. 2023 – Aug. 2023

Image&Video Generation, Intelligent Creation Lab, Tiktok

Mentor: Dr. Yichun Shi, Dr. Xiao Yang

- Researching on Diffusion Models, Image editing

Summer@EPFL Program

Jun. 2022 – Aug. 2022

Funded by IVRL, École Polytechnique Fédérale de Lausanne Mentor: Professor Sabine Süssstrunk and Dr. Tong Zhang

- Researching on 3D Vision, specifically Video Synthesis with Diffusion Models

Guided Research <i>3D AI Group, TUM</i>	Mar. 2021 – Jun. 2022 <i>Mentor: Professor Angela Dai</i>
<ul style="list-style-type: none"> • Researched on 3D Vision, specifically Single-View Category-level NeRF 	
Guided Research <i>Visual Computing and 3D AI Group, TUM</i>	Sep. 2021 – Mar. 2022 <i>Mentor: Professor Matthias Niessner and M.Sc Aljaž Božič</i>
<ul style="list-style-type: none"> • Researched on 3D Vision, specifically Unsupervised Multi-View Geometry 	
Undergraduate Research Intern <i>Multimedia Lab, The Hong Kong University of Science and Technology</i>	Mar. 2021 – Sep. 2021 <i>Mentor: Professor Dan Xu</i>
<ul style="list-style-type: none"> • Researched on 3D Vision, specifically Multi-View Stereo 	

ACADEMIC SERVICE

USC Viterbi CURVE 2023 Fall	PhD Mentor
USC Viterbi CURVE 2024 Spring	PhD Mentor
FG 2024	Conference Reviewer
CVPR 2024	Conference Reviewer
ECCV 2024	Conference Reviewer
ACII 2024	Conference Reviewer
ECCV 2024	Conference Reviewer
NeurIPS 2024	Conference Reviewer

SUPERVISED STUDENTS

Hongkun Gong <i>Direct Research</i>	Undergraduate at USC <i>2024 Spring</i>
Jessica Fu <i>CURVE Fellowship</i>	Undergraduate at USC <i>2023 Fall, 2024 Spring</i>
Kevin Hopkins <i>Direct Research</i>	Master student at USC <i>2023 Fall, 2024 Spring</i>

TEACHING

CSCI 535 Multimodal Probabilistic Learning of Human Communication <i>Teaching Assistant</i>	USC <i>2024 Spring</i>
CSCI 103L Introduction to Programming <i>Teaching Assistant</i>	USC <i>2022 Fall</i>