

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 Under Review: NeurIPS

*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

Under Review: ECCV

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

2024

(* denotes equal contribution)

PUBLICATIONS

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

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

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| 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

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|--------------------------------------|---------------------|
| 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

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| 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

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|---|---------------------------|
| 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> |