

# Di Chang

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## 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

## PREPRINTS

### MagicPose4D: Crafting Articulated Models with Appearance and Motion Control

*Di Chang\**, *Hao Zhang\**, *Fang Li*, *Mohammad Soleymani*<sup>†</sup>, *Narendra Ahuja*<sup>†</sup>  
(\* denotes equal contribution † denotes equal advise)

Arxiv

2024

### DIM: Dyadic Interaction Modeling for Social Behavior Generation

*Di Chang\**, *Minh Tran\**, *Maksim Siniukov*, *Mohammad Soleymani* (\* denotes equal contribution)

Arxiv

2024

## 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

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

CVPR(Highlight)

2024

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

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

WACV

2024

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

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

WACV

2024

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

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

ECCV

2022

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

*Zhenxing Mi*, *Di Chang*, *Dan Xu*

CVPR

2022

## EXPERIENCE

### Research Scientist Intern

*Intelligent Creation Lab, Tiktok*

Mentor:Dr. Hongyi Xu, Dr. You Xie, Dr. Linjie Luo, Dr. Guoxian Song

May. 2024 – Aug. 2024

- Researching on Diffusion Models, Dynamic Video Generation

### Research Scientist Intern (Part-Time)

*Intelligent Creation Lab, Tiktok*

Mentor: Dr. Yichun Shi, Dr. Xiao Yang, Dr. Hongyi Xu, Dr. Guoxian Song

Aug. 2023 – Nov. 2023

- Researching on Diffusion Models, Motion Transfer

### Research Scientist Intern

*Intelligent Creation Lab, Tiktok*

Mentor: Dr. Yichun Shi, Dr. Xiao Yang, Dr. Hongyi Xu, Dr. Guoxian Song

May. 2023 – Aug. 2023

- Researching on Diffusion Models, Image editing

### Summer@EPFL Program

*Funded by IVRL, École Polytechnique Fédérale de Lausanne*

Mentor: Professor Sabine Süsstrunk and Dr. Tong Zhang

Jun. 2022 – Aug. 2022

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

### Guided Research

*3D AI Group, TUM*

Mentor: Professor Angela Dai

Mar. 2021 – Jun. 2022

- Researched on 3D Vision, specifically Single-View Category-level NeRF

### Guided Research

*Visual Computing and 3D AI Group, TUM*

Mentor: Professor Matthias Niessner and M.Sc Aljaž Božič

Sep. 2021 – Mar. 2022

- Researched on 3D Vision, specifically Unsupervised Multi-View Geometry

## Undergraduate Research Intern

*Multimedia Lab, The Hong Kong University of Science and Technology*

- Researched on 3D Vision, specifically Multi-View Stereo

Mar. 2021 – Sep. 2021

*Mentor: Professor Dan Xu*

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## 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

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## SUPERVISED STUDENTS

**Hongkun Gong**

Undergraduate at USC

*Direct Research*

*2024 Spring*

**Jessica Fu**

Undergraduate at USC

*CURVE Fellowship*

*2023 Fall, 2024 Spring*

**Kevin Hopkins**

Master student at USC

*Direct Research*

*2023 Fall, 2024 Spring*

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## TEACHING

**CSCI 535 Multimodal Probabilistic Learning of Human Communication**

USC

*Teaching Assistant*

*2024 Spring*

**CSCI 103L Introduction to Programming**

USC

*Teaching Assistant*

*2022 Fall*

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## SELECTED COURSES

**3D Scanning and Spatial Learning(TUM)      Adcanved Computer Vision(USC)**

**Multimodal Probabilistic Learning of Human Communication(USC)**

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## SKILLS

**Programming Languages:** Python(Preferred and proficient), MATLAB,C,Html

**Frameworks:** PyTorch, Keras