Di Chang

dichang@usc.edu | https://boese0601.github.io/ | Github:Boese0601

EDUCATION

University of Southern California — Los Angeles, California, USA
PhD in Computer Science   Advisor: Prof. Mohammad Soleymani — *Aug. 2022 – May. 2026(Anticipated)*

Technical University of Munich — Munich, Bavaria, Germany
Bachelor of Science in Informatics   Advisor: Prof. Matthias Nießner — *Sep. 2021 – Jul. 2022*

Dalian University of Technology — Dalian, Liaoning, China
Bachelor of Engineering in Electronic Information Engineering — *Sep.2018 – Jun. 2021*

RESEARCH AREA

Video Generation   Image Editing   Human Understanding   Virtual Human   3D Geometry

PREPRINTS

Learning-based Multi-View Stereo: A Survey — In Submission
Fangjihua Wang[†], Qingtian Zhu*, **Di Chang***, Quankai Gao, Junlin Han,* — *2024*
Tong Zhang, Richard Hartley, Marc Pollefeys
(* denotes equal contribution   [†] denotes project lead)

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)

PUBLICATIONS

DIM: Dyadic Interaction Modeling for Social Behavior Generation — **ECCV**
Di Chang, Minh Tran*, Maksim Siniukov, Mohammad Soleymani* — *2024*
(* denotes equal contribution)

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,* — *2024*
Xiao Yang, Mohammad Soleymani

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 Süsstrunk, 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 Süsstrunk and Dr. Tong Zhang
- Researching on 3D Vision, specifically Video Synthesis with Diffusion Models

Guided Research Mar. 2021 – Jun. 2022

3D AI Group, TUM *Mentor: Professor Angela Dai*
- Researched on 3D Vision, specifically Single-View Category-level NeRF

Guided Research Sep. 2021 – Mar. 2022

Visual Computing and 3D AI Group, TUM *Mentor: Professor Matthias Niessner and M.Sc Aljaž Božič*
- Researched on 3D Vision, specifically Unsupervised Multi-View Geometry

Undergraduate Research Intern Mar. 2021 – Sep. 2021

Multimedia Lab, The Hong Kong University of Science and Technology *Mentor: Professor Dan Xu*
- 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 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*

TEACHING

CSCI 535 Multimodal Probabilistic Learning of Human Communication USC

Teaching Assistant *2024 Spring*

CSCI 103L Introduction to Programming USC

Teaching Assistant *2022 Fall*