Di Chang

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Education

University of Southern California — Los Angeles, California, USA
Doctor of Philosophy in Computer Science — *Aug. 2022 – May. 2027(Anticipated)*

Technical University of Munich — Munich, Bavaria, Germany
Bachelor of Science in Informatics — *Sep. 2021 – Jul. 2022*

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

Preprints

MagicDance: Realistic Human Dance Video Generation with Motions & Facial Expressions — Arxiv *2024*
Di Chang, *Yichun Shi, Quankai Gao, Jessica Fu, Hongyi Xu, Guoxian Song, Qing Yan, Xiao Yang, Mohammad Soleymani*

DiffPortrait3D: Controllable Diffusion for Zero-Shot Portrait View Synthesis — Arxiv *2024*
Yuming Gu, Xie You, Hongyi Xu, Guoxian Song, Yichun Shi, ***Di Chang****, Jing Yang, Linjie Luo*

Publications

LibreFace: An Open-Source Toolkit for Deep Facial Expression Analysis — WACV(Application Track) *2024*
Di Chang, *Yufeng Yin, Zongjian Li, Minh Tran, Mohammad Soleymani*

FG-Net: Facial Action Unit Detection with Generalizable Pyramidal Features — WACV *2024*
Yufeng Yin, ***Di Chang****, Guoxian Song, Shen Sang, Tiancheng Zhi, Jing Liu, Linjie Luo, Mohammad Soleymani*

RC-MVSNet: Unsupervised Multi-View Stereo with Neural Rendering — ECCV *2022*
Di Chang, *Aljaž Božič, Tong Zhang, Qingsong Yan, Yingcong Chen, Sabine Süsstrunk, Matthias Nießner*

Generalized Binary Search Network for Highly-Efficient Multi-View Stereo — CVPR *2022*
Zhenxing Mi, ***Di Chang****, Dan Xu*

Experience

Research Scientist Intern (Part-Time) — Aug. 2023 – Nov. 2023
Intelligent Creation Team, Tiktok — *Mentor: Dr. Yichun Shi, Dr. Xiao Yang, Dr. Hongyi Xu, Dr. Guoxian Song*
- Researching on Diffusion Models, Motion Transfer

Research Scientist Intern — May. 2023 – Aug. 2023
Intelligent Creation Team, Tiktok — *Mentor: Dr. Yichun Shi, Dr. Xiao Yang, Dr. Hongyi Xu, Dr. Guoxian Song*
- 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

ECCV 2022 — Conference Reviewer
NeurIPS 2022 — Conference Reviewer
FG 2024 — Conference Reviewer
CVPR 2024 — Conference Reviewer

Supervised Students

Hongkun Gong — Undergraduate at USC
Direct Research — *2024 Spring*

Ellie Xing — Undergraduate at USC
CURVE Fellowship — *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*

Selected Courses

3D Scanning and Spatial Learning(TUM) **Adcanved Computer Vision(USC)**
Multimodal Probabilistic Learning of Human Communication(USC)
Advanced Analysis of Algorithms(USC)

Skills

Programming Languages: Python(Preferred and proficient), MATLAB,C,Html
Frameworks: PyTorch, Keras