

ZEKUN LI

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EDUCATION

Brown University

Ph.D. Student, Computer Science

Supervisor: Prof. Srinath Sridhar

Research Area: Character Animation, Human-Object Interaction

Providence, RI, USA

August 2023 - June 2028 (expected)

University of Electronic Science and Technology of China

Bachelor of Engineering with honor, Computer Science and Technology

GPA: 3.78/4.0

UESTC Outstanding Thesis Awards

Chengdu, Sichuan, China

September 2019 - July 2023

PUBLICATION

Learning Anchor Transformations for 3D Garment Animation

Accepted by [IEEE / CVF Computer Vision and Pattern Recognition Conference \(CVPR\) 2023](#)

Fang Zhao, [Zekun Li](#), Shaoli Huang, Junwu Weng, Tianfei Zhou, Guosen Xie, Jue Wang, Ying Shan

TL;DR: design adaptive anchors to predict 3D garment animation from a body motion sequence.

Eliminating Gradient Conflict in Reference-based Line-Art Colorization

Accepted by [European Conference on Computer Vision \(ECCV\) 2022](#)

[Zekun Li](#), Zhengyang Geng, Zhao Kang, Wenyu Chen, and Yibo Yang

TL;DR: design a novel BP scheme to solve the gradient issue in Attention.

Surf-D: High-Quality Surface Generation for Arbitrary Topologies using Diffusion Models

[CVPR2024 Under Review](#)

Zhengming Yu, Zhiyang Dou, Xiaoxiao Long, Cheng Lin, [Zekun Li](#), Yuan Liu, Norman Müller, Taku Komura, Marc Habermann, Christian Theobalt, Xin Li, Wenping Wang

TL;DR: design a novel UDF-based latent diffusion model for shape generation.

ARG-MAGS: Articulated 3D Gaussians for Markerless Grasp Capture

[CVPR2024 Under Review](#)

Chandradeep Pokhariya, Ishaan Nikhil Shah, Angela Xing, [Zekun Li](#), Kefan Chen, Avinash Sharma, Srinath Sridhar.

TL;DR: provide a new multi-view grasping dataset with contact annotation and articulated Gaussian hand model for benchmark.

EXPERIENCE

AI Lab, Tencent

October 2022 - June 2023

Research Intern

Supervisor: Prof. Fang Zhao

◇ Project: Learning-based Garment Animation [\[repo\]](#)

- Reproduced *VirtualBones* ([SIGGRAPH'22](#)) and *TailorNet* ([CVPR'20](#)) on virtual try-on dataset.
- Proposed an anchor-based deformation model to predict 3D garment animation from a body motion sequence, which achieves the state-of-the-art performance, especially for loose-fitting garments.

Cognitive Computing and Intelligent Decision Lab, UESTC

September 2020 - September 2022

Research Assistant

Supervisor: Prof. Zhao Kang

◇ Project: Reference-based line-art colorization [\[repo\]](#)

- Proposed a novel gradient backpropagating scheme for dot-product Attention to solve gradient conflicts.

- Attained significant improvements in Fréchet Inception Distance (FID, up to 27.21%) and structural similarity index measure (SSIM, up to 25.67%) on several benchmarks.

PaddlePaddle Open Source Community, Baidu

Contributor of PaddleVideo

April 2022 - June 2022

- ◇ Group Project: Reproduced *2s-AGCN* (CVPR'19) for PaddleVideo (a video toolkit). [\[repo\]](#)
 - Responsible for model implementation and merging the project into PaddleVideo's.
 - Won the third prize (¥10,000) in *6th Paddle Reproduction Competition*.

SELECTED AWARDS

UESTC Outstanding Undergraduate Thesis	Top1%
UESTC Honor Undergraduate Student in Research	Top1%

SKILLS

Python; Pytorch; C/C++; Blender; L^AT_EX