

ZEKUN LI

✉ zekun_li1@brown.edu 🌐 <https://kunkun0w0.github.io>

EDUCATION

Brown University

Ph.D. Student, Computer Science

Supervisor: Prof. Srinath Sridhar

Research Area: Human Behavior Modeling, Vision Content Customization

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 Undergraduate Thesis Awards

Chengdu, Sichuan, China

September 2019 - July 2023

PUBLICATION

LLaMo: Scaling Pretrained Language Models for Unified Motion Understanding and Generation with Continuous Autoregressive Tokens

[Under Review](#)

Zekun Li, Sizhe An, Chengcheng Tang, chuan guo, Ivan Shugurov, Linguang Zhang, Amy Zhao, Srinath Sridhar, Lingling Tao, Abhay Mittal

TL;DR: propose a generic framework to extend pretrained LLMs for human motion generation and understanding, while preserving the original text-only performance via a modality-specific Mixture-of-Transformers (MoT).

EgoReAct: Egocentric Video-Driven 3D Human Reaction Generation

[Under Review](#)

Libo Zhang, Zekun Li, Tianyu Li, Zeyu Cao, Rui Xu, Xiao-Xiao Long, Wenjia Wang, Jingbo Wang, Yuan Liu, Wenping Wang, Daquan Zhou, Taku Komura, Zhiyang Dou

TL;DR: propose a real-time ego-perception driven human reaction generation model and a motion dataset with spatial aligned ego-video.

PackUV: Packed Gaussian UV Maps for 4D Volumetric Video

[Under Review](#)

Aashish Rai, Angela Xing, Anushka agarwal, Xiaoyan Cong, Zekun Li, Tao Lu, Aayush Prakash, Srinath Sridhar

TL;DR: propose a new volumetric video representation and the largest multi-view 4D dataset.

GenHSI: Controllable Generation of Human-Scene Interaction Videos

[Accepted by IEEE/CVF Winter Conference on Applications of Computer Vision \(WACV\) 2026](#)

Zekun Li, Rui Zhou, Rahul Sajjani, Xiaoyan Cong, Daniel Ritchie, Srinath Sridhar

TL;DR: propose chain-of-frame prompting for VDM to generate plausible HSI videos without training.

Surf-D: Generating High-Quality Surfaces of Arbitrary Topologies Using Diffusion Models

[Accepted by European Conference on Computer Vision \(ECCV\) 2024](#)

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.

MANUS: Markerless Grasp Capture using Articulated 3D Gaussians

[Accepted by IEEE / CVF Computer Vision and Pattern Recognition Conference \(CVPR\) 2024](#)

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 the benchmark.

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.

EXPERIENCE

Meta Reality Lab

Research Intern

May 2025 - August 2025

Supervisor: Abhay Mittal

◇ Project: Unified Human Motion Language Model with Continuous-Token Autoregressive

- Proposed an unified motion-language large model trained from LLM while preserving the language performance.
- Adopting continuous token autoregressive to achieve high-fidelity motion generation with real-time streaming.

Honda Research Institute

Research Intern

June 2024 - August 2024

Supervisor: Enna Sachdeva

◇ Project: Uncertainty-aware Human-Object Interaction Tracking from Monocular Video

- Proposed an autoregressive tracking method for the poses of the human and object with uncertainty.
- Leveraging the visibility and physics constraints for post-sampling to eliminate the accumulated error in human-object interaction tracking.

AI Lab, Tencent

Research Intern

October 2022 - June 2023

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

Research Assistant

September 2020 - September 2022

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: Contributed Human Pose Estimation project to PaddleVideo (a video toolkit). [\[repo\]](#)

- Responsible for *2s-AGCN* ([CVPR'19](#)) 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%

PROFESSIONAL SERVICE

Conference Reviewer: CVPR 2024, SIGGRAPH 2024, ECCV2024, AAAI2025, ICLR2025

Google explore CSR: Ph.D. mentor 2024

SKILLS

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