Zhenyang Li (李镇洋)

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💬 WeChat: lagrangeli　in linkedin.com/in/镇洋-李-875a69181
🖥 https://lagrangeli.github.io/
📁 Research Interests: 3D/4D Scenes & Objects Reconstruction / Generation,
with the applications in VR/AR/MR

EDUCATION

The University of Hong Kong
AI & VR/AR/MR, Doctor Department of Electrical and Electronic Engineering　　Sep 2023 - Now
Tsinghua University　　2020.09 - 2023.06
Master, Engineering of Big Data, Computer Vision, GPA:3.79/4.0, Ranking:6/44
Nanjing University of Science and Technology　　2016.09 - 2020.06
Bachelor, Electronic Information Engineering (Communication), GPA:3.66/4.0

Publication

PatternGSL: A Structured Specification Language for Template-Free and Simulation-Ready 3D Garments　　2025.10 - 2026.01
Under review
Zhenyang Li*, Lutao Jiang*, Yizhou Zhao, Weikai Chen, Ying-Cong Chen, Xin Wang, Yifan Peng

E2Pano: Learning Event-to-Panorama Image Reconstruction　　2025.08 - 2025.11
Under review
Zhenyang Li*, Zongqi He*, Xiaoyang Bai, Shijie Lin, Yifan Peng

Structure-grounded Training Strategies Aid Generalization in Stereo Matching　　2025.04 - 2026.08
3DV 2026
Liangxun Ou, Yuhui Liu, **Zhenyang Li**, Xiaoyang Bai, Yifan Peng

EventTracer: Fast Path Tracing-based Event Stream Rendering　　2025.03 - 2025.05
Under review
Zhenyang Li*, Xiaoyang Bai*, Jinfan Lu, Pengfei Shen, Yifan Peng

ORBIT: Overlapping Region-Based Image Feature Matching Technique　　2025.04
Under review
Qi Luo*, **Zhenyang Li***, Linsong Xue, Haojie Wu, Yifan Peng, Kai Zhang

Toward Material-Agnostic System Identification from Videos　　2025.03
ICCV 2025
Yizhou Zhao, Haoyu Chen, Chunjiang Liu, **Zhenyang Li**, Charles Herrmann, Junhwa Hur, Yinxiao Li, Ming-Hsuan Yang, Bhiksha Raj, Min Xu

Enhanced Velocity Field Modeling for Gaussian Video Reconstruction　　2025.02
ISMAR 2025
Zhenyang Li*, Xiaoyang Bai*, Tongchen Zhang, Weiwei Xu, Yifan Peng

Learning Fast Real-world Dynamics with Event-RGB Fused Gaussians　　2025.02
CVMJ
Xiaoyang Bai*, **Zhenyang Li***, Weiwei Xu, Edmund Y. Lam, Yifan Peng

3D-HoloNet: Fast, unfiltered, 3D hologram generation with camera-calibrated network learning　　2024.12
Optics Letters
Wenbin Zhou, Feifan Qu, Xiangyu Meng, **Zhenyang Li**, Yifan Peng

CryoSAM: Training-free CryoET Tomogram Segmentation with Foundation Models　　2024.03
MICCAI 2024
Yizhou Zhao, Hengwei Bian, Michael Mu, Mostofa R. Uddin, **Zhenyang Li**, Xiang Li, Tianyang Wang, Min Xu.

Point Resampling and Ray Transformation Aid to Editable NeRF Models　　2023.08 - 2023.11
Arxiv
Zhenyang Li*, Zilong Chen*, Feifan Qu, Mingqing Wang, Yizhou Zhao, Kai Zhang, Yifan Peng.

Alignment-guided Temporal Attention for Video Action Recognition　　2022.05
NeurIPS 2022
Yizhou Zhao*, **Zhenyang Li***, Xun Guo, Yan Lu

Breaking Filter Bubble: A Reinforcement Learning Framework of Controllable Recommender System　　2022.08 - 2022.10

WWW 2023
Zhenyang Li*, Yancheng Dong*, Chen gao, Yizhou Zhao, Dong Li, Jianye Hao, Kai Zhang, Yong Li, Zhi Wang
Adaptive Range guided Multi-view Depth Estimation with Normal Ranking Loss   2022.02
ACCV 2022
 1. Yikang Ding*, **Zhenyang Li***, Dihe Huang, Zhiheng Li, Kai Zhang, Wensen Feng
Enhancing Multi-view Stereo with Contrastive Matching and Weighted Focal Loss   2022.06
ICIP 2022
Yikang Ding*, **Zhenyang Li***, Dihe Huang*, Zhiheng Li, Kai Zhang
Unsupervised Anomaly Detection with Aggregated VQVAE   2022.06
ICIP 2023
Mingqing Wang, Jiawei Li, **Zhenyang Li**, Chengxiao Luo, Bin Chen, Shu-Tao Xia, Zhi Wang
A method of maximizing safe rate power allocation for wireless networks based on direction modulation   2019.04
Authorized invention patent   CN110635832A
Zhenyang Li, Yumeng Zhang, Jiayu Li, Feng Shu, Haochen Li, Tianyun Wang, Yu Wang, Yuefeng Huang, Linqing Gui, Yuwen Qian

PROFESSIONAL EXPERIENCE

Megvii Research, Research Intern	2022.06 - 2023.03
Microsoft Research of Asia (MSRA), Media Computing Group (MC), Research Intern	2021.11 - 2022.05
Huawei CMTI, Research Intern	2021.03 - 2021.08

Honors & Awards

Neural Implicit Representation-track at the 2023 Greater Bay Area (Huangpu) International Algorithm Competition (Champion)	Dec 2023
The high-energy particle collision classification challenge' on Beindata (7/256)	Apr 2020
American College Student Mathematical Modeling Contest H (Second Prize)	Mar 2019
TE Connectivity Scholarship (1/600)	Dec 2017
Beijing SMC Education Foundation Outstanding Scholarship Special Award (1/600)	Nov 2017
National mathematics competition for college students (Second prize)	Nov 2017