

# XINGYI LI

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## EDUCATION

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**Huazhong University of Science and Technology (HUST)** 2021.09 - 2024.06

*M.Phil. in Artificial Intelligence*

GPA: 92.47/100.00

Advisor: Prof. Zhiguo Cao

**Huazhong University of Science and Technology (HUST)** 2017.09 - 2021.06

*B.Eng. in Automation*

GPA: 90.01/100.00

## EXPERIENCE

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**S-Lab for Advanced Intelligence, Nanyang Technological University** 2023.02 - 2024.02

- Research Assistant, supervised by Prof. Guosheng Lin
- Engaged in 3D AIGC research and participated in the SenseTime autonomous driving project

**Xi'an Reserach & Development Institute, Huawei** 2022.07 - 2022.09

- Research Intern, supervised by Dr. Weicai Zhong
- Developed image cropping algorithm for cropping video covers to maintain the aspect ratio required for short videos while preserving the main subject and subtitles

## PUBLICATIONS

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- [1] **S-DyRF: Reference-Based Stylized Radiance Fields for Dynamic Scenes**  
Xingyi Li, Zhiguo Cao, Yizheng Wu, Kewei Wang, Ke Xian, Zhe Wang, Guosheng Lin  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024* [CVPR 2024]
- [2] **DyBluRF: Dynamic Neural Radiance Fields from Blurry Monocular Video**  
Huiqiang Sun, Xingyi Li, Liao Shen, Xinyi Ye, Ke Xian, Zhiguo Cao  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024* [CVPR 2024]
- [3] **Self-Supervised Class-Agnostic Motion Prediction with Spatial and Temporal Consistency Regularizations**  
Kewei Wang, Yizheng Wu, Jun CEN, Zhiyu Pan, Xingyi Li, Zhe Wang, Zhiguo Cao, Guosheng Lin  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024* [CVPR 2024]
- [4] **Semi-Supervised Class-Agnostic Motion Prediction with Pseudo Label Regeneration and BEVMix**  
Kewei Wang, Yizheng Wu, Zhiyu Pan, Xingyi Li, Ke Xian, Zhe Wang, Zhiguo Cao  
*The 38th Annual AAAI Conference on Artificial Intelligence* [AAAI 2024]
- [5] **SAD: Segment Any RGBD**  
Jun CEN, Yizheng Wu, Kewei Wang, Xingyi Li, Jingkang Yang, Yixuan Pei, Lingdong Kong, Ziwei Liu, Qifeng Chen  
*NeurIPS Workshop on Robustness of Few-Shot and Zero-Shot Learning in Foundation Models, 2023*
- [6] **Make-It-4D: Synthesizing a Consistent Long-Term Dynamic Scene Video from a Single Image**  
Liao Shen, Xingyi Li, Huiqiang Sun, Juewen Peng, Ke Xian, Zhiguo Cao, Guosheng Lin  
*The 31st ACM International Conference on Multimedia* [ACM MM 2023]
- [7] **3D Cinemagraphy from a Single Image**  
Xingyi Li, Zhiguo Cao, Huiqiang Sun, Jianming Zhang, Ke Xian, Guosheng Lin  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023* [CVPR 2023]
- [8] **SymmNeRF: Learning to Explore Symmetry Prior for Single-View View Synthesis**  
Xingyi Li, Chaoyi Hong, Yiran Wang, Zhiguo Cao, Ke Xian, Guosheng Lin  
*The Asian Conference on Computer Vision 2022 (Oral)* [ACCV 2022 Oral]
- [9] **DoF-NeRF: Depth-of-Field Meets Neural Radiance Fields**  
Zijin Wu, Xingyi Li, Juewen Peng, Hao Lu, Zhiguo Cao, Weicai Zhong  
*The 30th ACM International Conference on Multimedia* [ACM MM 2022]
- [10] **Less is More: Consistent Video Depth Estimation with Masked Frames Modeling**  
Yiran Wang, Zhiyu Pan, Xingyi Li, Zhiguo Cao, Ke Xian, Jianming Zhang  
*The 30th ACM International Conference on Multimedia* [ACM MM 2022]

- [11] **Background-Aware Domain Adaptation for Plant Counting**  
Min Shi, Xing-Yi Li, Hao Lu, Zhi-Guo Cao  
*Frontiers in Plant Science, 2022*
- [12] **Knowledge Distillation for Fast and Accurate Monocular Depth Estimation on Mobile Devices**  
Yiran Wang, Xingyi Li, Min Shi, Ke Xian, Zhiguo Cao  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops 2021 [CVPRW 2021]*
- [13] **Fast and Accurate Single-Image Depth Estimation on Mobile Devices, Mobile AI 2021 Challenge: Report**  
Andrey Ignatov, Grigory Malivenko, David Plowman, Samarth Shukla, Radu Timofte, Ziyu Zhang, Yicheng Wang, Zilong Huang, Guozhong Luo, Gang Yu, Bin Fu, Yiran Wang, Xingyi Li, et al.  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops 2021 [CVPRW 2021]*
- [14] **Automatic multilabel electrocardiogram diagnosis of heart rhythm or conduction abnormalities with deep learning: a cohort study**  
Hongling Zhu, Cheng Cheng, Hang Yin, Xingyi Li, Ping Zuo, Jia Ding, Fan Lin, Jingyi Wang, Beitong Zhou, Yonge Li, Shouxing Hu, Yulong Xiong, Binran Wang, Guohua Wan, Xiaoyun Yang, Ye Yuan  
*The Lancet Digital Health, 2(7):e348-e357, 2020*

## PROJECTS

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**SAD: Segment Any RGBD** 2023.04 - 2023.05

- We have developed SAD, which utilizes SAM to segment the rendered depth map, thus providing cues with enhanced geometry information and mitigating the issue of over-segmentation
- Got more than 600 stars on GitHub, and more than 1k Likes and 140k Views on Twitter

**Multi-View 3D Surface Reconstruction** 2022.01 - 2022.06

- Given multi-view images as input, our objective is to develop an algorithm for reconstructing the surface geometry and appearance of the object
- Funded by the DigiX Joint Innovation Center of Huawei-HUST

**Neural Radiance Fields for Novel View Synthesis** 2020.12 - 2021.12

- Our objective is to develop an algorithm that can synthesize novel views of a scene from a set of posed images, without requiring a time-consuming optimization process for each new scene
- Funded by the DigiX Joint Innovation Center of Huawei-HUST

## PROFESSIONAL SERVICE

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- **Reviewer** for ECCV, CVPR, WACV, ACM MM
- **Reviewer** for IEEE Transactions on Circuits and Systems for Video Technology

## ACADEMIC ACTIVITY

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- **Presenter** for Pre-CVPR@NTU 2023

## AWARDS & SCHOLARSHIPS

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- National Scholarship, HUST 2023
- Huawei Excellent Postgraduate Scholarship 2023
- First-Class Scholarship for Postgraduates, HUST 2021 & 2022
- Merit Postgraduate, HUST 2021
- Outstanding Graduate, HUST 2021
- Runner-Up Award in the CVPR21 Mobile AI Single-Image Depth Estimation Challenge 2021
- National Encouragement Scholarship, HUST 2020
- Mathematical Contest In Modeling 2020 Meritorious Winner 2020
- China Star Optoelectronics Technology Co., Ltd Excellent Student Scholarship 2019
- Shenzhen Inovance Technology Co., Ltd Excellent Student Scholarship 2018
- Merit Undergraduate, HUST 2018
- Excellent Fresh Student Award, HUST 2017

## SKILLS

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- **Programming:** Python, C/C++, Matlab
- **Tools:** PyTorch, Linux, L<sup>A</sup>T<sub>E</sub>X
- **Languages:** Mandarin (native), Cantonese (proficient), English (fluent)