

# Shenghao Li

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## Personal Profile

A PhD candidate in Control Science and Engineering from Shanghai Jiao Tong University. My current research interests include 3D vision, local feature learning, scene representation and understanding.

## Education

### Shanghai Jiao Tong University

PhD in Control Science and Technology

- Estimated graduation date: 12, 2023

Shanghai, China

Sept 2020 - Current

### East China University of Science and Technology

Master in Mechanical Engineering

- Graduated with Distinction

Shanghai, China

Sept 2017 - June 2020

### East China University of Science and Technology

Bachelor in Mechanical Design, Manufacturing, and Automation & English

- Graduated with Distinction

Shanghai, China

Sept 2013 - June 2017

## Publications

### JOURNAL ARTICLES

Representing Unbounded Scene Online with Scale-encoded Cascaded Grid Distillation and Radiance Field Deblurring (Under Review)

Shenghao Li, Zeyang Xia, Qunfei Zhao

IEEE Transactions on Circuits and Systems for Video Technology 1.1 (2023) pp. 1–13. IEEE, 2023

Sparse-to-Local-Dense Matching for Geometry-Guided Correspondence Estimation (Under Review)

Shenghao Li, Qunfei Zhao, Zeyang Xia

IEEE Transactions on Image Processing 1.1 (2023) pp. 1–16. IEEE, 2023

Quantized self-supervised local feature for real-time robot indirect VSLAM

Shenghao Li, Shuang Liu, Qunfei Zhao, Qiaoyang Xia

IEEE/ASME Transactions on Mechatronics 27.3 (2021) pp. 1414–1424. IEEE, 2021

Autonomous exploration and map construction of a mobile robot based on the TGHM algorithm

Shuang Liu, Shenghao Li, Luchao Pang, Jiahao Hu, Haoyao Chen, Xiancheng Zhang

Sensors 20.2 (2020) p. 490. MDPI, 2020

### CONFERENCE PROCEEDINGS

Self-supervised Feature Detection and Binary Description in Hamming Space for Mobile Platforms

Shenghao Li, Guibao Zhang, Qunfei Zhao

2021 IEEE International Conference on Real-time Computing and Robotics (RCAR), 2021

Automatic Drug Box Recognition Based on Depth Camera

Changzheng Zhang, Qiaoyang Xia, Shenghao Li, Simeng Zhong, Shuang Liu

2021 IEEE 11th Annual International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (CYBER), 2021

Automatic container code localization and recognition via an efficient code detector and sequence recognition

Shenghao Li, Shuang Liu, Qiaoyang Xia, Hui Wang, Haoyao Chen

2019 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), 2019

## Internship

### MiniMax

Computer Vision Engineer

- AIGC with large vision-language models; 3D animatable avatars and 2D generative characters.

Shanghai, China

Sept 2021 - Current

### QualComm

AI Engineer

- Deep Learning Network Quantization with Tensorflow/Pytorch, SNPE Algorithm Optimization, Data Free Quantization Implementation, and state-of-art paper reading.

Shanghai, China

July 2019 - July 2020

- VSLAM, object tracking, object detection and navigation algorithms for a ROS based artificial intelligence omnidirectional mobile platform.
- Nvidia Jetson platform development, Cuda and Opencv Programming.

## Skills

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**Programming** Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), C/C++.

**Miscellaneous** Linux, Shell (Bash/Zsh),  $\text{\LaTeX}$ (Overleaf/R Markdown), Microsoft Office, Git.

**Language** English (Professional Proficiency); Chinese (Native Proficiency)