

LIANGJING SHAO (邵良靖)

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🎓 EDUCATION

The Chinese University of Hong Kong, Hong Kong SAR, China 2025.8 – Now

Department of Electronic Engineering

PhD Student in Electronic Engineering

Research Interests: 3D Vision, Surgical Perception, Surgical Robot

Supervisor: Prof. REN Hongliang

Fudan University, Shanghai, China 2022.9 – 2025.6

College of Biomedical Engineering, Shanghai Key Laboratory of MICCAI

M.Eng. in Biomedical Engineering (**Recommended Admission without Entrance Examination**)

Research Interests: 3D Reconstruction, Depth Estimation, Surgical Navigation

GPA: 3.58/4.00

Tongji University, Shanghai, China 2018.9 – 2022.6

College of Mechanical Engineering

B.Eng. in Mechanical Engineering

Major Courses: Robotics(A), Mechatronics Technology(A), Design of Mechanics(A), Electrotechnology(A)

GPA: 4.63/5.00 (91.27/100)

📄 SELECTED PUBLICATIONS

†: Equal Contribution, #: Corresponding Author

Journals

- J1. Jinyang Wu[†], Lai Jiang[†], **Liangjing Shao**[†], Wensheng Wang, Xiaofeng Xu, Yifan Zhou, Xing Wang, Junnan Wang, Jinlong Wu, Xinrong Chen[#], Shilei Zhang[#]. A Mandibular Defect Dataset for Autonomous Reconstruction Planning in Oral and Maxillofacial Surgery. *Scientific Data* (**IF=6.9, JCR Q1, in Revision**).
- J2. **Liangjing Shao**, Benshuang Chen, Shuting Zhao, Fuming Yang, Xinrong Chen[#]. EndoLoc: Relative Pose Regression Framework with Transformation and Correlation Features for In-vivo Visual Localization of Endoscope. *IEEE Transactions on Circuits and Systems for Video Technology* (**IF=11.1, JCR Q1, in Major Revision**).
- J3. **Liangjing Shao**, Benshuang Chen, Yawen Liu, Xinrong Chen[#]. NEPose: A Novel Benchmark Dataset with An Improved Framework for Vision-based Nasal Endoscope Pose Estimation. *Pattern Recognition* (**IF=7.6, JCR Q1, in Major Revision**).
- J4. **Liangjing Shao**, Benshuang Chen, Shuting Zhao, Xinrong Chen[#]. EndoMODE: A Multi-modal Visual Feature-based Ego-motion Estimation Framework for Monocular Odometry and Depth Estimation in Various Endoscopic Scenes. *IEEE Transactions on Industrial Informatics*, vol. 21, no. 8, pp. 5911-5921(2025). (**IF=9.9, JCR Q1**)
- J5. **Liangjing Shao**, Benshuang Chen, Ziqun Zhang, Xinrong Chen[#]. 3-D Clothed Human Model Reconstruction Based on Single-View In-the-Wild Image Data. *IEEE Sensors Journal*, vol. 24, no. 15, pp. 24178-24188 (2024). (**IF=4.5, JCR Q1**)

Conferences

- C1. **Liangjing Shao**, Linxin Bai, Chenkang Du, Xinrong Chen[#]. EndoMUST: Monocular Depth Estimation for Robotic Endoscopy via End-to-end Multi-step Self-supervised Training. **Accepted** by 2025 *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2025, Oral)*.
- C2. Shuting Zhao, Linxin Bai, **Liangjing Shao**, Ye Zhang[#], Xinrong Chen[#]. SSD-Poser: Avatar Pose Estimation with State Space Duality from Sparse Observations. 2025 *International Conference on Multimedia Retrieval. (ICMR 2025)* pp. 1849-1857.
- C3. **Liangjing Shao**, Benshuang Chen, Xinrong Chen[#]. REMOTE: Real-time Ego-motion Tracking for Various Endoscopes via Multimodal Visual Feature Learning. *IEEE International Conference on Robotics & Automation (ICRA 2025)*. pp. 4056-4062.

HONORS AND AWARDS

Outstanding Graduate of Shanghai , by Shanghai Municipal Education Commission (TOP 5%, ×2)	2022, 2025
The 2nd Prize , Chinese College Students Mathematical Contest (non-math majors)	2020

ACADEMIC SERVICES

As a **Reviewer**

- *ACM Conference on Multimedia (ACM MM)* 2023 & 2024
- *IEEE Transactions on Instrumentation and Measurement (TIM)*
- *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)* 2025

★ SKILLS AND CERTIFICATES

- **English Reading and Writing Skills: IELTS-7.0** (2024.11.22)
- **Computer Science: Software Designer (Certificate of Intermediate Engineer)**