

Han YANG

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RESEARCH INTERESTS

Micromanipulation, 3D Visual Perception, 3D Reconstruction, IVF

EDUCATION

- **The Chinese University of Hong Kong, Shenzhen** Sep 2023 - present
Ph.D. in Computer and Information Engineering
◦ Supervisor: Prof. Zhuoran Zhang & Prof. Jiangfan Yu
Shenzhen, China
- **Hong Kong Baptist University** Sep 2019 - May 2023
B.S. in Computer Science
◦ Supervisor: Prof. Hui Zhang
◦ Study in Beijing Normal-Hong Kong Baptist University (BNBU)
Hong Kong, China

SELECTED PUBLICATIONS

1. **Weakly-Supervised Depth Completion during Robotic Micromanipulation from a Monocular Microscopic Image**
Han Yang, Yufei Jin, Guanqiao Shan, Yibin Wang, Yongbin Zheng, Jiangfan Yu, Yu Sun, Zhouan Zhang
IEEE International Conference on Robotics and Automation (ICRA), **Oral Presentation**, 2024
2. **Depth Estimation for Motile Cell under Monocular Microscopy Based on Fine-grained Classification**
Han Yang, Yufei Jin, Xinrui Wang, Zhouan Zhang
IEEE International Conference on Micro/Nano Sensors for AI, Healthcare and Robotics (IEEE-NSSENS), **Best Paper Award**, 2024
3. **WTBNeRF: Wind Turbine Blade 3D Reconstruction by Neural Radiance Fields**
Han Yang, Linchuan Tang, Hui Ma, Rongfeng Deng, Hui Zhang
International conference on the Efficiency and Performance Engineering Network (TEPEN), **Oral Presentation**, 2022
4. **HQNet: An Efficient Convolutional Neural Network for Cervical Cancer Classification**
Han Yang, Teoh Teik Toe
IEEE International Conference on Biomedical Imaging, Signal Processing (ICBSP), **Oral Presentation**, 2022

ACADEMIC RESEARCH EXPERIENCES

- **Dalian University of Technology** [🌐] Jan 2025 - present
Research Assistant
◦ Supervisor: Prof. Zhuoran Zhang [Prof. Yu Sun's Group]
◦ Institution of Robotics and Intelligent System
◦ Micromanipulation System Design, 3D Visual Perception, IVF
Dalian, China
- **The Chinese University of Hong Kong, Shenzhen** [🌐] Sep 2023 - present
Ph.D. Student & Research Assistant
◦ Supervisor: Prof. Zhuoran Zhang & Prof. Jiangfan Yu
◦ Micromanipulation System Design, 3D Visual Perception, IVF
Shenzhen, China
- **Nanyang Technological University** [🌐] July 2022 - Sep 2022
Research Assistant
◦ Supervisor: Dr. Teoh Teik Toe
◦ Medical Image Processing
Remote
- **Beijing Normal-Hong Kong Baptist University (BNBU)** [🌐] Sep 2021 - May 2023
Research Assistant
◦ Supervisor: Prof. Hui Zhang
◦ Key Laboratory for Artificial Intelligence and Multi-Modal Data Processing of Department of Education of Guangdong Province
◦ 3D Reconstruction, Camera Calibration, Medical Image Processing
Zhuhai, China

INDUSTRY EXPERIENCES

- **FunPlus Inc.** [🌐] Jun 2021 - Sep 2021
Python Intern
◦ Python Data Analysis, Cloud Database
Beijing, China

ACADEMIC SERVICES

- **Peer Review:** T-ASE, RA-L
- **Teaching Assistant:** Calculus I, Calculus II, Introduction to Computer Science: Programming Methodology
- **Membership:** IEEE, IEEE Robotics and Automation Society