# Rui Yin

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## Education

**The University of Hong Kong** Sept 2022 – Jan 2023

- Master in Science, Computer Science
- Withdrawn

**Sun Yat-sen University** Sept 2018 – June 2022

- Bachelor of Engineering, Software Engineering
- GPA: 3.6/4.0

## Interests

Computer Vision, Machine Learning, 3D Vision, Deep Model Compression

## Publications

**SRPose: Two-view Relative Pose Estimation With Sparse Keypoints**

**Rui Yin**, Yulun Zhang, Zherong Pan, Jianjun Zhu, Cheng Wang, Biao Jia
*ECCV*, 2024
project page

**Identifying Spatial Domain by Adapting Transcriptomics With Histology Through Contrastive Learning**

Yuansong Zeng*, **Rui Yin***, Mai Luo, Jianing Chen, Zixiang Pan, Yutong Lu, Weijing Yu, Yuedong Yang
*Briefings in Bioinformatics*, 2023

**Spatial Transcriptomics Prediction From Histology Jointly Through Transformer and Graph Neural Networks**

Yuansong Zeng, Zhuoyi Wei, Weijiang Yu, **Rui Yin**, Yuchen Yuan, Bingling Li, Zhonghui Tang, Yutong Lu, Yuedong Yang
*Briefings in Bioinformatics*, 2022

## Experience

**Hanglok-Tech** Shenzhen, China
Research Assistant | Advisor: Biao Jia Aug 2023 – Present

Relative Camera Pose Estimation

- *SRPose*: Two-view relative pose estimation with sparse keypoints

Model Quantization

- Proposing a new binarization function for model compression in depth estimation tasks (paper coming).

**Laboratory of Data Discovery for Health, The University of Hong Kong** Hong Kong SAR
Research Assistant Oct 2022 – Jan 2023

**AI4science Lab, Sun Yat-sen University** Guangzhou, China
Research Intern | Advisor: Yuedong Yang Apr 2020 – Sept 2022

- *Identifying* spatial domain by adapting transcriptomics with histology through contrastive learning
- *Spatial* transcriptomics prediction from histology jointly through transformer and graph neural networks

## Additional Experience

**NUS SOC 2021 Summer Workshop, National University of Singapore** Singapore
Advisor: Tan Zi Qing May 2021 - Aug 2021

**National Training Program of Innovation and Entrepreneurship** Guanzhou, China
Advisor: Yuedong Yang Apr 2020 - Nov 2020