

# YUEXIANG LI

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## RESEARCH INTEREST

Computer Vision, Medical Image Analysis, Computer-aided Diagnosis, Self-supervised Learning, and Foundation Model

## EDUCATION

<b>PhD in Electronic Engineering</b> University of Nottingham, Nottingham, United Kingdom Ranked the 130 of Worldwide University Rankings 2023   Times Higher Education Supervisors: John Crowe & Siu-Yeung Cho & Tommy W.S. Chow, <i>IEEE Fellow</i> (External)	Oct. 2012 - Jul. 2016
<b>Master in Electronic Engineering</b> Hong Kong University of Science and Technology, Hong Kong	Sep. 2011 - Jun. 2012
<b>Bachelor in Telecommunication Engineering</b> Beijing University of Posts and Telecommunications, Beijing, China	Sep. 2007 - Jul. 2011

## EXPERIENCE

<b>Full Professor   Guangxi Medical University Life Sciences Institute</b> <ul style="list-style-type: none"><li>Academic leader of the discipline of artificial intelligence.</li><li>Leads the Medical AI ReSearch (MARS) group.</li><li>Focused on the application of AI for clinical scenarios.</li></ul>	Nanning, China <i>Jul. 2023 - Present</i>
<b>Senior Researcher   Tencent Tencent Jarvis Research Center</b> <ul style="list-style-type: none"><li>Directed by Yefeng Zheng, <i>IEEE Fellow</i>.</li><li>Responsible for the development of computer aided diagnosis system for COVID-19.</li><li>Obtained the NMPA licence for COVID-19 AI diagnosis system.</li><li>Rich experiences on the collaboration with physicians.</li></ul>	Shenzhen, China <i>Dec. 2019 - Jul. 2023</i>
<b>Senior Researcher   Tencent YouTu Lab</b> <ul style="list-style-type: none"><li>Directed by Jiaya Jia, <i>IEEE Fellow</i>.</li><li>Responsible for the development of computer aided diagnosis system for cervical cancer.</li><li>The developed AI achieved a comparable diagnosis accuracy to experienced physicians.</li></ul>	Shenzhen, China <i>May 2018 - Dec. 2019</i>
<b>Postdoctoral Fellowship   Shenzhen University Computer Vision Institute</b> <ul style="list-style-type: none"><li>Mainly worked on developing automatic processing algorithms for microscopic images.</li></ul>	Shenzhen, China <i>Jul. 2016 - May 2018</i>

## CONCURRENT POST

<b>Visiting Professor   Guangdong Provincial People's Hospital MEDIA Lab</b> <ul style="list-style-type: none"><li>Directed by Zaiyi Liu, NSFC Distinguished Young Scholar</li><li>Collaboration on developing the AI system for prostate cancer diagnosis.</li></ul>	Guangzhou, China <i>Aug. 2024 - Present</i>
<b>Principal Scientist   Guangxi Institute of Precision Medicine Artificial Intelligence (AI) Research Center</b> <ul style="list-style-type: none"><li>Leads a R&amp;D group for medical AI development.</li><li>Conducts researches and industrial technologies on medical foundation models.</li><li>Aimed to develop a general AI system performing the robust grading for diverse diseases.</li></ul>	Nanning, China <i>Apr. 2024 - Present</i>

## PROJECT

### Medical Multimodal Foundation Model

Guangxi Institute of Precision Medicine

#### Principal Researcher

Jan. 2024 - Present

- Integrate multimodal information such as medical images (MRI, CT, *etc.*), patient test results, and admission reports to develop a large medical multimodal model.
- The developed model is planned to achieve stable and accurate lesion classification for a variety of diseases in clinical scenarios, so as to achieve the purpose of accurate grading diagnosis and treatment.
- On the basis of lesion grading tasks, the function of the model is further expanded to achieve a variety of clinical tasks including multi-disease lesion segmentation.

### Intelligent Early Warning System for Critical Care Wards

The First Affiliated Hospital of GXMU

#### Principal Researcher

Oct. 2023 - Present

- Cooperated with Mindray Medical Company (Shenzhen) to develop a severe warning system.
- The developed system is based on multi-modal large model technology.
- The system has been tested in the First Affiliated Hospital of Guangxi Medical University (GXMU).

### The National Open Innovation Platform for Medical Imaging

Tencent

#### Principal Researcher

Nov. 2020 - Mar. 2023

- Build a medical imaging research platform, empower hospitals and scientific research institutes, and help medical artificial intelligence industry-university-research innovation cooperation and achievement transformation.
- Cutting-edge medical imaging AI algorithm development and deployment to the cloud.
- Development of a hands-on course on artificial intelligence medical imaging.

### Fatigue Fracture Grading System

Tencent

#### Principal Researcher

Oct. 2020 - Oct. 2021

- Developed an automated grading system for fatigue fracture.
- Collaborated with Jinling Hospital, Medical School of Nanjing University and published several academic papers.

### Computer-aided COVID-19 Diagnosis System

Tencent

#### Principal Researcher

Feb. 2020 - Aug. 2021

- Developed three core modules for COVID-19 automated diagnosis system, including COVID-19 identification, lesion segmentation and lung segmentation.
- Obtained the NMPA licence for COVID-19 AI diagnosis system.

### Automated Screening System for Cervical Cancer

Tencent

#### Principal Researcher

Sep. 2018 - Jul. 2023

- Implemented seven core modules, including image quality assessment, cervical cancer identification and biopsy localization.
- Collaborated with Shenzhen Maternity & Child Healthcare Hospital and published several academic papers on clinical medicine.

## FUNDING

### Scientific and Technical Innovation 2030—"New Generation Artificial Intelligence" Project

China

#### Principal Participant

Nov. 2020 - Oct. 2024

- Comprehensive analysis of cross modal medical imaging for multidisciplinary assisted diagnosis and treatment of tumors, No. 2020AAA0104100, 5,620,000, In Progress.

### Natural Science Foundation of China

China

#### Principal Investigator

Jan. 2018 - Dec. 2020

- A research on 3D cell image segmentation technology based on deep learning, No. 61702337, 250,000, Finished.

### Postdoctoral Science Foundation of China

China

#### Principal Investigator

Dec. 2017 - Jul. 2018

- A research on artificial intelligence segmentation algorithm for 3D microscopic images, No. 2017M622779, 50,000, Finished.

### Nanning City Science and Technology Bureau

China

#### Principal Investigator

Jan. 2017 - Dec. 2018

- Research and application of SmartCity intelligent lighting cloud platform, No. 20171121-2, 200,000, Finished.

Published **70+** academic papers; Total impact factor reached **150+**.

### Conference Paper

*Only listing the publications as First Author<sup>#</sup> / Corresponding Author<sup>\*</sup>*

#### • CCF-A

- 1 Haozhe Liu<sup>#</sup>, Wentian Zhang<sup>#</sup>, Bing Li<sup>\*</sup>, Haoqian Wu, Nanjun He, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, Bernard Ghanem, and Yefeng Zheng: AdaptiveMix: Improving GAN training via feature space shrinkage, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
- 2 Jinheng Xie<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Yawen Huang, Haozhe Liu, Wentian Zhang, Yefeng Zheng, and Mike Zheng Shou<sup>\*</sup>: BoxDiff: Text-to-image synthesis with training-free box-constrained Diffusion, *International Conference on Computer Vision (ICCV)*, 2023.
- 3 Wentian Zhang<sup>#</sup>, Haozhe Liu<sup>#</sup>, Bing Li<sup>\*</sup>, Jinheng Xie, Yawen Huang, **Yuexiang Li<sup>\*</sup>** et al.: Dynamically masked discriminator for generative adversarial networks, *Neural Information Processing Systems (NeurIPS)*, 2023.
- 4 Qi Bi<sup>#</sup>, Jingjun Yi<sup>#</sup>, Hao Zheng<sup>\*</sup>, Wei Ji, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, and Yefeng Zheng: Learning generalized medical image segmentation from decoupled feature queries, *AAAI Conference on Artificial Intelligence (AAAI)*, 2024.
- 5 Haozhe Liu<sup>#</sup>, Bing Li<sup>\*</sup>, Haoqian Wu, Hanbang Liang, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, Bernard Ghanem, and Yefeng Zheng: Combating mode collapse in GANs via manifold entropy estimation, *AAAI Conference on Artificial Intelligence (AAAI) (Oral)*, 2023.
- 6 Jiawei Chen<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Kai Ma, and Yefeng Zheng: Generative adversarial networks for video-to-video domain adaptation, *AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- 7 Hong Wang<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Deyu Meng<sup>\*</sup>, and Yefeng Zheng: Adaptive convolutional dictionary network for CT metal artifact reduction, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2022.
- 8 Jingjun Yi<sup>#</sup>, Qi Bi, Hao Zheng<sup>\*</sup>, Haolan Zhan, Wei Ji, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, and Yefeng Zheng: Learning spectral-decomposed tokens for domain generalized semantic segmentation, *ACM International Conference on Multimedia (MM)*, 2024.

#### • CCF-B

- 9 Xinpeng Xie<sup>#</sup>, Jiawei Chen<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Linlin Shen, Kai Ma, and Yefeng Zheng: Self-supervised CycleGAN for object-preserving image-to-image domain adaptation, *European Conference on Computer Vision (ECCV)*, 2020.
- 10 Shuo Wang<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Kai Ma, Ruhui Ma<sup>\*</sup>, Haibing Guan, and Yefeng Zheng: Dual adversarial network for deep active learning, *European Conference on Computer Vision (ECCV)*, 2020.
- 11 Hong Wang<sup>#</sup>, Qi Xie<sup>\*</sup>, **Yuexiang Li<sup>\*</sup>**, Yawen Huang, Deyu Meng, and Yefeng Zheng: Orientation-shared convolution representation for CT metal artifact learning, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2022.
- 12 Wentian Zhang<sup>#</sup>, Xu Sun<sup>#</sup>, **Yuexiang Li<sup>#</sup>**, Haozhe Liu, Nanjun He, Feng Liu<sup>\*</sup> et al.: A multi-task network with weight decay skip connection training for anomaly detection in retinal fundus images, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2022.
- 13 Haoqin Ji<sup>#</sup>, Haozhe Li<sup>#</sup>, **Yuexiang Li<sup>#</sup>**, Jinheng Xie, Nanjun He<sup>\*</sup>, Yawen Huang et al.: Point beyond class: A benchmark for weakly semi-supervised abnormality localization in chest X-rays, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2022.
- 14 **Yuexiang Li<sup>#</sup>**, Yanping Wang<sup>#</sup>, Guang Lin, Yi Lin, Dong Wei, Qirui Zhang et al.: Triplet-branch network with prior-knowledge embedding for fatigue fracture grading, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2021.
- 15 **Yuexiang Li<sup>#</sup>**, Nanjun He, Sixiang Peng, Kai Ma, and Yefeng Zheng: Deep reinforcement exemplar learning for annotation refinement, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2021.
- 16 **Yuexiang Li<sup>#</sup>**, Jiawei Chen, Xinpeng Xie, Kai Ma, and Yefeng Zheng: Self-Loop uncertainty: A novel pseudo-label for semi-supervised medical image segmentation, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2020.
- 17 Xing Tao<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Wenhui Zhou, Kai Ma, and Yefeng Zheng: Revisiting Rubik's cube: Self-supervised learning with volume-wise transformation for 3D medical image segmentation, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2020.
- 18 Xinpeng Xie<sup>#</sup>, Jiawei Chen<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Linlin Shen, Kai Ma, and Yefeng Zheng: Instance-aware self-supervised learning for nuclei segmentation, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2020.

- 19 Xinrui Zhuang<sup>#</sup>, **Yuexiang Li\***, Yifan Hu, Kai Ma, Yujiu Yang\*, and Yefeng Zheng: Self-supervised feature learning for 3D medical images by playing a Rubik's cube, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2019.
- Others
- 20 Ziqi Zhang<sup>#</sup>, **Yuexiang Li\***, Hongxin Wei, Kai Ma, Tao Xu, and Yefeng Zheng: Alleviating noisy-label effects in image classification via probability transition matrix, *British Machine Vision Conference (BMVC)*, 2021.
- 21 **Yuexiang Li\***, Xinpeng Xie<sup>#</sup>, Shaoxiong Liu, Xuechen Li, and Linlin Shen\*: GT-Net: A deep learning network for gastric tumor diagnosis, *International Conference on Tools with Artificial Intelligence (ICTAI)*, 2018.
- 22 **Yuexiang Li\***, Linlin Shen\*, Xiande Zhou, and Sinqi Yu: HEp-2 specimen classification with fully convolutional network, *International Conference on Pattern Recognition (ICPR)*, 2016.
- 23 **Yuexiang Li\***, Jiawei Chen, Kai Ma, and Yefeng Zheng\*: Feature library: A benchmark for cervical lesion segmentation, *International Conference on Information Processing in Medical Imaging (IPMI)*, 2021.
- 24 Xing Tao<sup>#</sup>, Chenglang Yuan, Cheng Bian\*, **Yuexiang Li\***, Kai Ma, Dong Ni, and Yefeng Zheng: The winner of AGE challenge: Going one step further from keypoint detection to scleral spur localization, *International Symposium on Biomedical Imaging (ISBI)*, 2021.
- 25 **Yuexiang Li\***, Jiawei Chen, and Yefeng Zheng: A multi-task self-supervised learning framework for scopy images, *International Symposium on Biomedical Imaging (ISBI)*, 2020.
- 26 **Yuexiang Li\***, Xuechen Li, Xinpeng Xie, and Linlin Shen\*: Deep learning based gastric cancer identification, *International Symposium on Biomedical Imaging (ISBI)*, 2018.
- 27 Yu Chen<sup>#</sup>, Jiawei Chen, Dong Wei, **Yuexiang Li\***, and Yefeng Zheng: OctopusNet: A deep learning segmentation network for multi-modal medical images, *International Workshop on Multiscale Multimodal Medical Imaging (MMMI)*, 2019. (*Best paper*)

#### Journal Paper

Only listing the publications as First Author<sup>#</sup> / Corresponding Author\* (IF: Impact Factor)

- JCR Q1
- 1 Yawen Huang<sup>#</sup>, Hao Zheng, **Yuexiang Li\***, Feng Zheng, Xiantong Zhen, GuoJun Qi, Ling Shao, and Yefeng Zheng\*: Multi-constraint transferable generative adversarial networks for cross-modal brain image synthesis, *International Journal of Computer Vision (IJCV)*, 2024. (IF = 19.500)
- 2 **Yuexiang Li\***, Zhi-Hua Liu<sup>#</sup>, Peng Xue, Jiawei Chen, Kai Ma, Tianyi Qian et al.: GRAND: A large-scale dataset and benchmark for cervical intraepithelial neoplasia grading with fine-grained lesion description, *Medical Image Analysis (MIA)*, 2021. (IF = 10.900)
- 3 Jiuwen Zhu<sup>#</sup>, **Yuexiang Li\***, Yifan Hu, S. Kevin Zhou, Kai Ma, and Yefeng Zheng: Rubik's cube+: A self-supervised feature learning framework for 3D medical image analysis, *Medical Image Analysis (MIA)*, 2020. (IF = 10.900)
- 4 Qingsong Xie<sup>#</sup>, **Yuexiang Li\***, Nanjun He\*, Munan Ning, Kai Ma, Guoxing Wang et al.: Unsupervised domain adaptation for medical image segmentation by disentanglement learning and self-training, *IEEE Transactions on Medical Imaging (TMI)*, 2024. (IF = 10.600)
- 5 Jiawei Chen<sup>#</sup>, Ziqi Zhang<sup>#</sup>, Xinpeng Xie<sup>#</sup>, **Yuexiang Li\***, Tao Xu, Kai Ma, and Yefeng Zheng: Beyond mutual information: Generative adversarial network for domain adaptation using information bottleneck constraint, *IEEE Transactions on Medical Imaging (TMI)*, 2021. (IF = 10.600)
- 6 Hong Wang<sup>#</sup>, **Yuexiang Li\***, Nanjun He, Kai Ma, Deyu Meng\*, and Yefeng Zheng: DICDNet: Deep interpretable convolutional dictionary network for metal artifact reduction in CT images, *IEEE Transactions on Medical Imaging (TMI)*, 2021. (IF = 10.600)
- 7 He Zhao<sup>#</sup>, **Yuexiang Li\***, Nanjun He, Kai Ma, Leyuan Fang, Huiqi Li\* et al.: Anomaly detection for medical images using self-supervised and translation-consistent features, *IEEE Transactions on Medical Imaging (TMI)*, 2021. (IF = 10.600)
- 8 **Yuexiang Li\***, Jiawei Chen<sup>#</sup>, Peng Xue, Chao Tang, Jia Chang, Chunyan Chu et al.: Computer-aided cervical cancer diagnosis using time-lapsed colposcopic images, *IEEE Transactions on Medical Imaging (TMI)*, 2020. (IF = 10.600)
- 9 **Yuexiang Li\***, Linlin Shen\*, and Shiqi Yu: HEp-2 specimen image segmentation and classification using very deep fully convolutional network, *IEEE Transactions on Medical Imaging (TMI)*, 2017. (IF = 10.600)
- 10 Yunlu Yan<sup>#</sup>, Hong Wang<sup>#</sup>, Yawen Huang, Nanjun He, Lei Zhu\*, Yong Xu, **Yuexiang Li\***, and Yefeng Zheng: Cross-modal vertical federated learning for MRI reconstruction, *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2024. (IF = 7.700)
- 11 **Yuexiang Li\***, Jiawei Chen<sup>#</sup>, Dong Wei<sup>#</sup>, Yanchun Zhu, Jianrong Wu, Junfeng Xiong et al.: Mix-and-Interpolate: A training strategy to deal with source-biased medical data, *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2021. (IF = 7.700)

- 12 **Yuexiang Li<sup>#</sup>**, Dong Wei<sup>#</sup>, Jiawei Chen<sup>#</sup>, Shilei Cao, Hongyu Zhou, Yanchun Zhu et al.: Efficient and effective training of COVID-19 classification networks with self-supervised dual-track learning to rank, *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2020. (IF = 7.700)
  - 13 Wentian Zhang<sup>#</sup>, Haozhe Liu<sup>#</sup>, Jinheng Xie, Yawen Huang, Yu Zhang, **Yuexiang Li<sup>\*</sup>**, Raghavendra Ramachandra, and Yefeng Zheng: Anomaly detection via gating highway connection for retinal fundus images, *Pattern Recognition*, 2023. (IF = 8.000)
  - 14 **Yuexiang Li<sup>#\*</sup>**, Yanping Wang, Guang Lin, Yawen Huang, Jingxin Liu, Yi Lin, Dong Wei, Qirui Zhang, Kai Ma et al.: Triplet-branch network with contrastive prior-knowledge embedding for disease grading, *Artificial Intelligence In Medicine*, 2024. (IF = 7.500)
- **Others**
  - 15 Yanping Wang<sup>#</sup>, **Yuexiang Li<sup>#</sup>**, Guang Lin, Qirui Zhang, Jing Zhong, Yan Zhang et al.: Lower-extremity fatigue fracture detection and grading based on deep learning models of radiographs, *European Radiology*, 2022. (IF = 5.900)
  - 16 **Yuexiang Li<sup>#</sup>**, Xinpeng Xie, Linlin Shen<sup>\*</sup>, and Shaoxiong Liu: Reverse active learning based atrous DenseNet for pathological image classification, *BMC Bioinformatics*, 2019. (IF = 3.000)
  - 17 **Yuexiang Li<sup>#</sup>**, and Linlin Shen<sup>\*</sup>: HEP-Net: A smaller and better deep-learning network for HEP-2 cell classification, *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, 2018. (IF = 1.600)

## AWARD

<b>Cerebral Aneurysm Detection Challenge</b> MICCAI	Virtual 2020
• First Prize in Rupture Risk Estimation.	
<b>Angle Closure Glaucoma Evaluation Challenge</b> MICCAI	Shenzhen, China 2019
• First Prize in Angle Closure Classification & Scleral Spur Localization.	
<b>HEP-2 Indirect Immuno-Fluorescence Contest</b> ICPR	Cancun, Mexico 2016
• First Prize in HEP-2 Specimen Classification & Segmentation.	

## INTERN

<b>PhD Students</b>
• <b>Jinheng Xie</b> (Dec. 2021 - Jul. 2023) PhD student in National University of Singapore
• <b>Wentian Zhang</b> (Sep. 2021 - Jul. 2023) PhD student in University of Chinese Academy of Sciences, co-supervised with Prof. Ling Shao
• <b>Haozhe Liu</b> (Aug. 2021 - Jul. 2023) PhD student in King Abdullah University of Science and Technology, co-supervised with Prof. Jürgen Schmidhuber
• <b>Yunlu Yan</b> (Aug. 2021 - Oct. 2022) PhD student in Hong Kong University of Science and Technology (Guangzhou)
• <b>He Zhao</b> (Mar. 2021 - Jul. 2021) PhD student in Beijing Institute of Technology
• <b>Quanzhang Wang</b> (Feb. 2021 - Nov. 2021) PhD student in Xi'an Jiaotong University, co-supervised with Prof. Deyu Meng
• <b>Ziqi Zhang</b> (Dec. 2020 - Apr. 2022) PhD student in Tsinghua University (Shenzhen)
• <b>Hong Wang</b> (Nov. 2020 - Feb. 2022) PhD student in Xi'an Jiaotong University, co-supervised with Prof. Deyu Meng
• <b>Xing Tao</b> (May 2019 - Sep. 2019) PhD student in Shenzhen University
<b>Master Students</b>
• <b>Haoqin Ji</b> (Jul. 2021 - Jul. 2022) Master student in Shenzhen University
• <b>Heqin Zhu</b> (Jun. 2021 - Nov. 2021) Master student in University of Science and Technology of China, co-supervised with Prof. Kevin S. Zhou, <i>IEEE Fellow</i>
• <b>Shuo Wang</b> (Oct. 2019 - Mar. 2020) Master student in Shanghai Jiao Tong University
• <b>Xinpeng Xie</b> (Aug. 2019 - Jul. 2020) Master student in Shenzhen University
• <b>Jiuwen Zhu</b> (Jun. 2019 - Sep. 2019) Master student in University of Science and Technology of China, co-supervised with Prof. Kevin S. Zhou, <i>IEEE Fellow</i>
• <b>Xinrui Zhuang</b> (Dec. 2018 - Mar. 2019) Master student in Tsinghua University (Shenzhen)
• <b>Yu Chen</b> (Jun. 2018 - Sep. 2018) Master student in Nanjing University

## PROFESSIONAL SERVICE

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### Leading Organizer

- Cross-Scanner Adenocarcinoma Segmentation (COSAS 2024) Challenge @ MICCAI 2024

### Area Chair

- The 27th International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2024)
- The 26th International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2023)

### Senior Program Committee

- The 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024)
- The 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023)

### Program Committee

- The 39th AAAI Conference on Artificial Intelligence (AAAI 2025)
- The 38th AAAI Conference on Artificial Intelligence (AAAI 2024)
- The 37th AAAI Conference on Artificial Intelligence (AAAI 2023)
- The 36th AAAI Conference on Artificial Intelligence (AAAI 2022)
- The 35th AAAI Conference on Artificial Intelligence (AAAI 2021)

### Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Neural Networks and Learning System
- IEEE Transactions on Medical Imaging
- IEEE Journal of Biomedical and Health Informatics
- Medical Image Analysis

### Conference Reviewer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- International Conference on Machine Learning (ICML)
- Annual Conference on Neural Information Processing Systems (NeurIPS)
- AAAI Conference on Artificial Intelligence (AAAI)
- International Joint Conference on Artificial Intelligence (IJCAI)
- British Machine Vision Conference (BMVC)
- International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)
- International Symposium on Biomedical Imaging (ISBI)

# 李悦翔

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## 研究方向

计算机视觉, 医学图像分析, 计算机辅助诊断, 自然语言/视觉大模型, 自监督

## 教育背景

电子工程博士 英国诺丁汉大学 (University of Nottingham, Nottingham) 世界排名第 130 位   Times Higher Education 导师: John Crowe & Siu-Yeung Cho & Tommy W.S. Chow, <i>IEEE Fellow</i> (External)	十月 2012 - 七月 2016
电子工程硕士 香港科技大学 (Hong Kong University of Science and Technology)	九月 2011 - 六月 2012
电信工程学士 北京邮电大学 (Beijing University of Posts and Telecommunications)	九月 2007 - 七月 2011

## 工作经历

教授   广西医科大学 生命科学研究院 ● 智能医学学科带头人 ● 组建 Medical AI ReSearch (MARS) 课题组 ● 专注临床场景下的医学人工智能研究 ● 实现包括大语言模型、智能诊断在内的多个人工智能研究成果转化	南宁 七月 2023 - 今
高级研究员   腾讯 腾讯天衍研究中心 ● 实验室负责人: 郑冶枫, <i>IEEE Fellow</i> ● 负责新冠肺炎 AI 辅助诊断系统的开发与落地 ● 引擎已部署到武汉、广州多家医院, 新冠肺炎敏感度超越医生平均水平	深圳 十二月 2019 - 七月 2023
高级研究员   腾讯 优图实验室 ● 实验室负责人: 贾佳亚, <i>IEEE Fellow</i> ● 负责用于宫颈癌筛查的 AI 电子阴道镜的开发与落地 ● 国内首款智能阴道镜 ● 产品部署到多家医院, 实现盈利	深圳 五月 2018 - 十二月 2019
博士后   深圳大学 计算机视觉研究所 ● 负责显微图像自动处理算法的开发与研究	深圳 七月 2016 - 五月 2018

## 行业兼职

客座教授   广东省人民医院 广东省医学影像智能分析与应用重点实验室 ● 实验室负责人: 刘再毅, 国家杰青 ● 开展多模态前列腺癌智能诊断相关研究	广州 八月 2024 - 今
首席科学家   广西精准医学产业技术研究院 人工智能中心 ● 管理医学人工智能技术研发团队 ● 从事多模态医疗大模型方向研究与成果转化 ● 旨在研发对多种疾病保持鲁棒性能的病变分级人工智能算法	南宁 四月 2024 - 今

项目经历

<b>医学多模态基础模型</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>整合医学图像（MRI、CT 等）、患者检验结果及入院主述等多模态信息，开发医学多模态基础模型</li><li>所开发模型计划在临床场景下对多种疾病实现稳定精确的病变分级，达到准确分级诊疗的目的</li><li>在病变分级任务的基础上进一步拓展模型功能，实现包括多疾病病灶分割等多种临床任务</li></ul>	广西精准医学产业技术研究院 一月 2024 - 今
<b>危重病房智能预警系统</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>与深圳迈瑞医疗公司合作开发重症预警系统</li><li>所开发系统基于多模态大模型技术，通过接入迈瑞危重监测仪器，实现智能监控患者病情与及时预警等功能</li><li>该系统已在广西医科大学第一附属医院进行灰度测试</li></ul>	广西医科大学第一附属医院 十月 2023 - 今
<b>医疗影像国家新一代人工智能开放创新平台</b> <b>项目骨干</b> <ul style="list-style-type: none"><li>打造医学影像科研平台，赋能医院、科研院所，助力医学人工智能产学研创新合作与成果转化</li><li>前沿的医疗影像 AI 算法开发，部署上云</li><li>开发人工智能医疗影像实践课程</li></ul>	腾讯 十一月 2020 - 三月 2023
<b>疲劳骨折分级系统</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>与东部战区总医院合作开发 AI 辅助疲劳骨折分级系统，用于降低运队员和军人罹患疲劳骨折的风险</li><li>项目依托国家级重大专项，目前已成功验收并落地东部战区总医院</li><li>与医生合作发表多篇临床医学学术论文</li></ul>	腾讯 十月 2020 - 十月 2021
<b>新冠肺炎 AI 辅辅助诊断系统</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>负责新冠肺炎辅助诊断系统开发的全部流程（包括 AI 引擎开发、工程化及 NMPA 三类证申请）</li><li>引擎开发初期，带领团队快速迭代引擎并成功通过移动 CT 车的方式落地部署到武汉、广州多家医院</li><li>2021 年八月获得 BAT 中首张 NMPA 三类证</li></ul>	腾讯 二月 2020 - 八月 2021
<b>基于阴道镜的 AI 辅辅助宫颈癌筛查系统</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>带领团队开发包括阴道镜图像质量检测、初步拟诊、病灶分割及活检点预测等 7 个功能模块</li><li>所开发的 AI 引擎通过科研合作的方式实现赢利，目前已进入 NMPA 三类证申请流程</li><li>与医生合作产出多篇期刊、会议学术论文</li></ul>	腾讯 九月 2018 - 七月 2023

科研经费

<b>中华人民共和国科学技术部，科技创新 2030-“新一代人工智能”重大项目</b> <b>项目骨干</b> <ul style="list-style-type: none"><li>肿瘤多学科辅助诊疗的跨模态医学影像综合分析，基金号 2020AAA0109501，562 万元，在研</li></ul>	中国 十一月 2020 - 十月 2024
<b>国家自然科学基金青年基金</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>基于深度学习的三维细胞图像分割技术的研究，基金号 61702337，25 万元，已结题</li></ul>	中国 一月 2018 - 十二月 2020
<b>中国博士后基金</b> <b>项目负责人</b> <ul style="list-style-type: none"><li>三维细胞图像智能分割算法的研究，基金号 2017M622779，5 万元，已结题</li></ul>	中国 十二月 2017 - 七月 2018

发表论文

共发表 70+ 学术论文; 累计影响因子达 150+.	
<b>会议论文</b> 此处只列举作为 <b>第一作者</b> # / <b>通讯作者</b> * 的论文	
• CCF-A	



- 1 Haozhe Liu<sup>#</sup>, Wentian Zhang<sup>#</sup>, Bing Li<sup>\*</sup>, Haoqian Wu, Nanjun He, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, Bernard Ghanem, and Yefeng Zheng: AdaptiveMix: Improving GAN training via feature space shrinkage, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
- 2 Jinheng Xie<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Yawen Huang, Haozhe Liu, Wentian Zhang, Yefeng Zheng, and Mike Zheng Shou<sup>\*</sup>: BoxDiff: Text-to-image synthesis with training-free box-constrained Diffusion, *International Conference on Computer Vision (ICCV)*, 2023.
- 3 Wentian Zhang<sup>#</sup>, Haozhe Liu<sup>#</sup>, Bing Li<sup>\*</sup>, Jinheng Xie, Yawen Huang, **Yuexiang Li<sup>\*</sup>** et al.: Dynamically masked discriminator for generative adversarial networks, *Neural Information Processing Systems (NeurIPS)*, 2023.
- 4 Qi Bi<sup>#</sup>, Jingjun Yi<sup>#</sup>, Hao Zheng<sup>\*</sup>, Wei Ji, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, and Yefeng Zheng: Learning generalized medical image segmentation from decoupled feature queries, *AAAI Conference on Artificial Intelligence (AAAI)*, 2024.
- 5 Haozhe Liu<sup>#</sup>, Bing Li<sup>\*</sup>, Haoqian Wu, Hanbang Liang, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, Bernard Ghanem, and Yefeng Zheng: Combating mode collapse in GANs via manifold entropy estimation, *AAAI Conference on Artificial Intelligence (AAAI) (Oral)*, 2023.
- 6 Jiawei Chen<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Kai Ma, and Yefeng Zheng: Generative adversarial networks for video-to-video domain adaptation, *AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- 7 Hong Wang<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Deyu Meng<sup>\*</sup>, and Yefeng Zheng: Adaptive convolutional dictionary network for CT metal artifact reduction, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2022.
- 8 Jingjun Yi<sup>#</sup>, Qi Bi, Hao Zheng<sup>\*</sup>, Haolan Zhan, Wei Ji, Yawen Huang, **Yuexiang Li<sup>\*</sup>**, and Yefeng Zheng: Learning spectral-decomposed tokens for domain generalized semantic segmentation, *ACM International Conference on Multimedia (MM)*, 2024.
- CCF-B
- 9 Xinpeng Xie<sup>#</sup>, Jiawei Chen<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Linlin Shen, Kai Ma, and Yefeng Zheng: Self-supervised CycleGAN for object-preserving image-to-image domain adaptation, *European Conference on Computer Vision (ECCV)*, 2020.
- 10 Shuo Wang<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Kai Ma, Ruhui Ma<sup>\*</sup>, Haibing Guan, and Yefeng Zheng: Dual adversarial network for deep active learning, *European Conference on Computer Vision (ECCV)*, 2020.
- 11 Hong Wang<sup>#</sup>, Qi Xie<sup>\*</sup>, **Yuexiang Li<sup>\*</sup>**, Yawen Huang, Deyu Meng, and Yefeng Zheng: Orientation-shared convolution representation for CT metal artifact learning, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2022.
- 12 Wentian Zhang<sup>#</sup>, Xu Sun<sup>#\*</sup>, **Yuexiang Li<sup>#</sup>**, Haozhe Liu, Nanjun He, Feng Liu<sup>\*</sup> et al.: A multi-task network with weight decay skip connection training for anomaly detection in retinal fundus images, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2022.
- 13 Haoqin Ji<sup>#</sup>, Haozhe Li<sup>#</sup>, **Yuexiang Li<sup>#</sup>**, Jinheng Xie, Nanjun He<sup>\*</sup>, Yawen Huang et al.: Point beyond class: A benchmark for weakly semi-supervised abnormality localization in chest X-rays, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2022.
- 14 **Yuexiang Li<sup>#\*</sup>**, Yanping Wang<sup>#</sup>, Guang Lin, Yi Lin, Dong Wei, Qirui Zhang et al.: Triplet-branch network with prior-knowledge embedding for fatigue fracture grading, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2021.
- 15 **Yuexiang Li<sup>#\*</sup>**, Nanjun He, Sixiang Peng, Kai Ma, and Yefeng Zheng: Deep reinforcement exemplar learning for annotation refinement, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2021.
- 16 **Yuexiang Li<sup>#\*</sup>**, Jiawei Chen, Xinpeng Xie, Kai Ma, and Yefeng Zheng: Self-Loop uncertainty: A novel pseudo-label for semi-supervised medical image segmentation, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2020.
- 17 Xing Tao<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Wenhui Zhou, Kai Ma, and Yefeng Zheng: Revisiting Rubik’s cube: Self-supervised learning with volume-wise transformation for 3D medical image segmentation, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2020.
- 18 Xinpeng Xie<sup>#</sup>, Jiawei Chen<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Linlin Shen, Kai Ma, and Yefeng Zheng: Instance-aware self-supervised learning for nuclei segmentation, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2020.
- 19 Xinrui Zhuang<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Yifan Hu, Kai Ma, Yujiu Yang<sup>\*</sup>, and Yefeng Zheng: Self-supervised feature learning for 3D medical images by playing a Rubik’s cube, *International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)*, 2019.
- 其他
- 20 Ziqi Zhang<sup>#</sup>, **Yuexiang Li<sup>\*</sup>**, Hongxin Wei, Kai Ma, Tao Xu, and Yefeng Zheng: Alleviating noisy-label effects in image classification via probability transition matrix, *British Machine Vision Conference (BMVC)*, 2021.

- 21 **Yuexiang Li<sup>#</sup>**, Xinpeng Xie<sup>#</sup>, Shaoxiong Liu, Xuechen Li, and Linlin Shen\*: GT-Net: A deep learning network for gastric tumor diagnosis, *International Conference on Tools with Artificial Intelligence (ICTAI)*, 2018.
- 22 **Yuexiang Li<sup>#</sup>**, Linlin Shen\*, Xiande Zhou, and Sinqi Yu: HEp-2 specimen classification with fully convolutional network, *International Conference on Pattern Recognition (ICPR)*, 2016.
- 23 **Yuexiang Li<sup>#</sup>**, Jiawei Chen, Kai Ma, and Yefeng Zheng\*: Feature library: A benchmark for cervical lesion segmentation, *International Conference on Information Processing in Medical Imaging (IPMI)*, 2021.
- 24 Xing Tao<sup>#</sup>, Chenglang Yuan, Cheng Bian\*, **Yuexiang Li\***, Kai Ma, Dong Ni, and Yefeng Zheng: The winner of AGE challenge: Going one step further from keypoint detection to scleral spur localization, *International Symposium on Biomedical Imaging (ISBI)*, 2021.
- 25 **Yuexiang Li<sup>#\*</sup>**, Jiawei Chen, and Yefeng Zheng: A multi-task self-supervised learning framework for scopy images, *International Symposium on Biomedical Imaging (ISBI)*, 2020.
- 26 **Yuexiang Li<sup>#</sup>**, Xuechen Li, Xinpeng Xie, and Linlin Shen\*: Deep learning based gastric cancer identification, *International Symposium on Biomedical Imaging (ISBI)*, 2018.
- 27 Yu Chen<sup>#</sup>, Jiawei Chen, Dong Wei, **Yuexiang Li\***, and Yefeng Zheng: OctopusNet: A deep learning segmentation network for multi-modal medical images, *International Workshop on Multiscale Multimodal Medical Imaging (MMMI)*, 2019. (*Best paper*)

## 期刊论文

此处只列举作为第一作者 <sup>#</sup> / 通讯作者 \* 的论文

### • JCR Q1

- 1 Yawen Huang<sup>#</sup>, Hao Zheng, **Yuexiang Li\***, Feng Zheng, Xiantong Zhen, GuoJun Qi, Ling Shao, and Yefeng Zheng\*: Multi-constraint transferable generative adversarial networks for cross-modal brain image synthesis, *International Journal of Computer Vision (IJCV)*, 2024. (IF = 19.500)
- 2 **Yuexiang Li<sup>#</sup>**, Zhi-Hua Liu<sup>#</sup>, Peng Xue, Jiawei Chen, Kai Ma, Tianyi Qian et al.: GRAND: A large-scale dataset and benchmark for cervical intraepithelial neoplasia grading with fine-grained lesion description, *Medical Image Analysis (MIA)*, 2021. (IF = 10.900)
- 3 Jiuwen Zhu<sup>#</sup>, **Yuexiang Li\***, Yifan Hu, S. Kevin Zhou, Kai Ma, and Yefeng Zheng: Rubik' s cube+: A self-supervised feature learning framework for 3D medical image analysis, *Medical Image Analysis (MIA)*, 2020. (IF = 10.900)
- 4 Qingsong Xie<sup>#</sup>, **Yuexiang Li<sup>#</sup>**, Nanjun He\*, Munan Ning, Kai Ma, Guoxing Wang et al.: Unsupervised domain adaptation for medical image segmentation by disentanglement learning and self-training, *IEEE Transactions on Medical Imaging (TMI)*, 2024. (IF = 10.600)
- 5 Jiawei Chen<sup>#</sup>, Ziqi Zhang<sup>#</sup>, Xinpeng Xie<sup>#</sup>, **Yuexiang Li\***, Tao Xu, Kai Ma, and Yefeng Zheng: Beyond mutual information: Generative adversarial network for domain adaptation using information bottleneck constraint, *IEEE Transactions on Medical Imaging (TMI)*, 2021. (IF = 10.600)
- 6 Hong Wang<sup>#</sup>, **Yuexiang Li\***, Nanjun He, Kai Ma, Deyu Meng\*, and Yefeng Zheng: DICDNet: Deep interpretable convolutional dictionary network for metal artifact reduction in CT images, *IEEE Transactions on Medical Imaging (TMI)*, 2021. (IF = 10.600)
- 7 He Zhao<sup>#</sup>, **Yuexiang Li\***, Nanjun He, Kai Ma, Leyuan Fang, Huiqi Li\* et al.: Anomaly detection for medical images using self-supervised and translation-consistent features, *IEEE Transactions on Medical Imaging (TMI)*, 2021. (IF = 10.600)
- 8 **Yuexiang Li<sup>#</sup>**, Jiawei Chen<sup>#</sup>, Peng Xue, Chao Tang, Jia Chang, Chunyan Chu et al.: Computer-aided cervical cancer diagnosis using time-lapsed colposcopic images, *IEEE Transactions on Medical Imaging (TMI)*, 2020. (IF = 10.600)
- 9 **Yuexiang Li<sup>#</sup>**, Linlin Shen\*, and Shiqi Yu: HEp-2 specimen image segmentation and classification using very deep fully convolutional network, *IEEE Transactions on Medical Imaging (TMI)*, 2017. (IF = 10.600)
- 10 Yunlu Yan<sup>#</sup>, Hong Wang<sup>#</sup>, Yawen Huang, Nanjun He, Lei Zhu\*, Yong Xu, **Yuexiang Li\***, and Yefeng Zheng: Cross-modal vertical federated learning for MRI reconstruction, *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2024. (IF = 7.700)
- 11 **Yuexiang Li<sup>#</sup>**, Jiawei Chen<sup>#</sup>, Dong Wei<sup>#</sup>, Yanchun Zhu, Jianrong Wu, Junfeng Xiong et al.: Mix-and-Interpolate: A training strategy to deal with source-biased medical data, *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2021. (IF = 7.700)
- 12 **Yuexiang Li<sup>#</sup>**, Dong Wei<sup>#</sup>, Jiawei Chen<sup>#</sup>, Shilei Cao, Hongyu Zhou, Yanchun Zhu et al.: Efficient and effective training of COVID-19 classification networks with self-supervised dual-track learning to rank, *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2020. (IF = 7.700)
- 13 Wentian Zhang<sup>#</sup>, Haozhe Liu<sup>#</sup>, Jinheng Xie, Yawen Huang, Yu Zhang, **Yuexiang Li\***, Raghavendra Ramachandra, and Yefeng Zheng: Anomaly detection via gating highway connection for retinal fundus images, *Pattern Recognition*, 2023. (IF = 8.000)

14 **Yuexiang Li<sup>#\*</sup>**, Yanping Wang, Guang Lin, Yawen Huang, Jingxin Liu, Yi Lin, Dong Wei, Qirui Zhang, Kai Ma et al.: Triplet-branch network with contrastive prior-knowledge embedding for disease grading, *Artificial Intelligence In Medicine*, 2024. (IF = 7.500)

- 其他

15 Yanping Wang<sup>#</sup>, **Yuexiang Li<sup>#</sup>**, Guang Lin, Qirui Zhang, Jing Zhong, Yan Zhang et al.: Lower-extremity fatigue fracture detection and grading based on deep learning models of radiographs, *European Radiology*, 2022. (IF = 5.900)

16 **Yuexiang Li<sup>#</sup>**, Xinpeng Xie, Linlin Shen<sup>\*</sup>, and Shaoxiong Liu: Reverse active learning based atrous DenseNet for pathological image classification, *BMC Bioinformatics*, 2019. (IF = 3.000)

17 **Yuexiang Li<sup>#</sup>**, and Linlin Shen<sup>\*</sup>: HEp-Net: A smaller and better deep-learning network for HEp-2 cell classification, *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, 2018. (IF = 1.600)

获奖情况

Cerebral Aneurysm Detection Challenge MICCAI	线上 2020
• 动脉瘤破裂风险预测冠军	
Angle Closure Glaucoma Evaluation Challenge MICCAI	深圳 2019
• 开闭角青光眼分类及房角检测冠军	
HEp-2 Indirect Immuno-Fluorescence Contest ICPR	墨西哥 2016
• HEp-2 细胞样本分类与分割冠军	

实习生培养

博士生 (PhD Students)
• <b>Jinheng Xie</b> (Dec. 2021 - Jul. 2023) PhD student in National University of Singapore
• <b>Wentian Zhang</b> (Sep. 2021 - Jul. 2023) PhD student in University of Chinese Academy of Sciences, co-supervised with Prof. Ling Shao
• <b>Haozhe Liu</b> (Aug. 2021 - Jul. 2023) PhD student in King Abdullah University of Science and Technology, co-supervised with Prof. Jürgen Schmidhuber
• <b>Yunlu Yan</b> (Aug. 2021 - Oct. 2022) PhD student in Hong Kong University of Science and Technology (Guangzhou)
• <b>He Zhao</b> (Mar. 2021 - Jul. 2021) PhD student in Beijing Institute of Technology
• <b>Quanzhang Wang</b> (Feb. 2021 - Nov. 2021) PhD student in Xi'an Jiaotong University, co-supervised with Prof. Deyu Meng
• <b>Ziqi Zhang</b> (Dec. 2020 - Apr. 2022) PhD student in Tsinghua University (Shenzhen)
• <b>Hong Wang</b> (Nov. 2020 - Feb. 2022) PhD student in Xi'an Jiaotong University, co-supervised with Prof. Deyu Meng
• <b>Xing Tao</b> (May 2019 - Sep. 2019) PhD student in Shenzhen University
硕士生 (Master Students)
• <b>Haoqin Ji</b> (Jul. 2021 - Jul. 2022) Master student in Shenzhen University
• <b>Heqin Zhu</b> (Jun. 2021 - Nov. 2021) Master student in University of Science and Technology of China, co-supervised with Prof. Kevin S. Zhou, <i>IEEE Fellow</i>
• <b>Shuo Wang</b> (Oct. 2019 - Mar. 2020) Master student in Shanghai Jiao Tong University
• <b>Xinpeng Xie</b> (Aug. 2019 - Jul. 2020) Master student in Shenzhen University
• <b>Jiuwen Zhu</b> (Jun. 2019 - Sep. 2019) Master student in University of Science and Technology of China, co-supervised with Prof. Kevin S. Zhou, <i>IEEE Fellow</i>
• <b>Xinrui Zhuang</b> (Dec. 2018 - Mar. 2019) Master student in Tsinghua University (Shenzhen)
• <b>Yu Chen</b> (Jun. 2018 - Sep. 2018) Master student in Nanjing University

专业服务

赛事主席 (Leading Organizer)
• Cross-Scanner Adenocarcinoma Segmentation (COSAS 2024) Challenge @ MICCAI 2024
领域主席 (Area Chair)

- The 27th International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2024)
- The 26th International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2023)

#### **高级委员 (Senior Program Committee)**

- The 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024)
- The 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023)

#### **程序委员 (Program Committee)**

- The 38th AAAI Conference on Artificial Intelligence (AAAI 2024)
- The 37th AAAI Conference on Artificial Intelligence (AAAI 2023)
- The 36th AAAI Conference on Artificial Intelligence (AAAI 2022)
- The 35th AAAI Conference on Artificial Intelligence (AAAI 2021)

#### **期刊审稿人**

- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Neural Networks and Learning System
- IEEE Transactions on Medical Imaging
- IEEE Journal of Biomedical and Health Informatics
- Medical Image Analysis

#### **会议审稿人**

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- International Conference on Machine Learning (ICML)
- Annual Conference on Neural Information Processing Systems (NeurIPS)
- AAAI Conference on Artificial Intelligence (AAAI)
- International Joint Conference on Artificial Intelligence (IJCAI)
- British Machine Vision Conference (BMVC)
- International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI)
- International Symposium on Biomedical Imaging (ISBI)