



DEEP LEARNING · MEDICAL IMAGE ANALYSIS · COMPUTER VISION

Clear Water Bay, Kowloon, Hong Kong, P.R. China

□ (+86) 133-4999-7177 & (+852) 6509-5604 | Syi.lin@connect.ust.hk | # ianyilin.github.io/ | google scholar

## **Education**

Hong Kong University of Science and Technology

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CSE), SMART LAB

• Advisor: Hao Chen, Assistant Professor, HKUST

Advisor: Tim CHENG Kwang-Ting, Professor, HKUST

**Huazhong University of Science and Technology** 

SCHOOL OF ELECTRONIC INFORMATION AND COMMUNICATIONS (EIC), MC LAB

· Advisor: Xin Yang, Professor, HUST

**Huazhong University of Science and Technology** 

SCHOOL OF ELECTRONIC INFORMATION AND COMMUNICATIONS (EIC)

• Major classes: Data Structure, Signal and Linear System, Computer Networks and Applications, etc.

MS

PhD

Since Aug. 2021

Aug. 2017 - Jun. 2020

Aug. 2012 - Jun. 2016

B.S

Work Experience \_\_\_\_\_

**Tencent -** *Jarvis Lab*Supervised 5 interns; Published 3 papers; Winner of one competition; Managed 4 projects

**Laifeng Middle School Attached to CCNU** 

**Team-leader** of Volunteer in HUST; **Physics Teacher** for two classes.

**SmartMore** - AI-Seg. Group

**Research Intern**; Submitted one paper and one patent.

Tencent - YouTu Lab

Research Intern; Winner of MICCAI 2019 AASCE Challenge.

Research Engineer

Jul. 2020 - Jul. 2021

Volunteer Teacher

Jul. 2016 - Aug. 2017

Internship Mar. 2022 - Oct. 2022

MUI. 2022 - OCI. 2022

Internship

May 2019 - Sep. 2019

# **Competition**

Automatic planning of radiotherapy dose distribution with Neural Architecture Search Winner in dose prediction task. Award: 50k CNY.

2 Cerebral Aneurysm Detection, Segmentation and Rupture Risk Estimation

Winner in detection task. Winner in segmentation task. Winner in rupture risk estimation task.

3 Cerebral Aneurysm Detection and Segmentation.

**Runner-up** in detection task. **Runner-up** in segmentation task.

4 College Studnets' Internet+ Innovation and Entrepreneurship Competition Gold Award for "AI System Covid-19 Analysis".

Automated Spinal Curvature Estimation.

Winner in Cobb angle estimation task.

Tencent 2021 AIMIS Challenge

Aug. 2021 - Nov. 2021

MICCAI 2020 CADA Challenge

Jul. 2020 - Sept. 2020

MICCAI 2020 ADAM Challenge

Jul. 2020 - Sept. 2020

 $6^{th}$  "Internet+" Competition

Jul. 2020 - Sept. 2020

MICCAI 2019 AASCE Challenge

Jul. 2019 - Sept. 2019

## Reviewer\_

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ECCV2022, CVPR 2022, ISBI 2022, CVPR 2021, ICCV 2021, IJCAI 2021, MICCAI 2021

IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

**IEEE Transactions on Medical Imaging (TMI)** 

Frontiers in Cardiovascular Medicine

Multimedia Systems, Medical Physics, IET Image Processing, etc.

DECEMBER 14, 2022 YI LIN · RESUME

**Activities & Awards** Outstanding Graduates, Huazhong University of Science and Technology 2020 Merit Student, Huazhong University of Science and Technology 2019 2019 National Scholarship, Huazhong University of Science and Technology Student Travel Award, MICCAI 2019 2016 Outstanding Volunteer, The Communist Youth League of China Outstanding Graduates, Huazhong University of Science and Technology 2016 Publication (Selected) CONFERENCE

1	InsMix: Towards Realistic Generative Data Augmentation for Nuclei Instance Segmentation Yi Lin, Zeyu Wang, Kwang-Ting Cheng, Hao Chen	MICCAI 2022
2	Seg4Reg+: A Local and Global ConsistencyLearning between Spine Segmentation and CobbAngle	MICCAI 2021
	Regression, <i>Yi Lin</i> , Luyan Liu, Kai Ma, Yefeng Zheng	
3	<b>Triplet-Branch Network with Prior-Knowledge Embedding for Fatigue Fracture Grading</b> Yuexiang Li, Yanping Wang, Guang Lin, <i>Yi Lin</i> ,, Yefeng Zheng	MICCAI 2021
4	A Hierarchical Feature Constraint to Camouflage Medical Adversarial Attacks Qingsong Yao, Zecheng He, <i>Yi Lin</i> , Kai Ma, Yefeng Zheng, S. Kevin Zhou	MICCAI 2021
5	Automated Pulmonary Embolism Detection from CTPA Images using an End-to-End Convolutional	MICCAI 2019
	Neural Network, Yi Lin, Jianchao Su, Xiang Wang, Xiang Li, Jingen Liu, Kwang-Ting Cheng, Xin Yang	
6	StitchAD-GAN for Synthesizing Apparent Diffusion Coefficient Images of Clinically Significant Prostate	BMVC 2018
	Cancer, Zhiwei Wang, Yi Lin, Kwang-Ting Cheng, Xin Yang	
7	Seg4Reg Networks for Automated Spinal Curvature Estimation  Yi Lin, Hong-Yu Zhou, Kai Ma, Xin Yang, Yefeng Zheng	MICCAI 2019 workshop
8	Cerebral Aneurysm Rupture Risk Estimation Using XGBoost and Fully Connected Neural Network,	CADA 2020
	Yanfei Liu, Yunqiao Yang, <i>Yi Lin</i> , Yuexiang Li, Dong Wei, Kai Ma, Yefeng Zheng	

### **JOURNAL**

1	Deep Learning for Computational Cytology: A Survey Hao Jiang, Yanning Zhou, <i>Yi Lin</i> , Ronald CK CHAN, Jiang Liu, Hao Chen. *IF: 13.828	MedIA 2022
2	A deep learning approach to predict conductive hearing loss in otitis media with effusion using	JAMA Oto H. & N. S.
	otoscopic images, Junbo Zeng*, Weibiao Kang*, Suijun Chen*, <i>Yi Lin</i> *,, Yuexin Cai. *IF: 8.961	2022
3	Semi-supervised mp-MRI Data Synthesis with StitchLayer and Auxiliary Distance Maximization Zhiwei Wang, <i>Yi Lin</i> , Kwang-Ting Tim Cheng, Xin Yang. *IF: 8.880	MedIA 2020
4	Bi-modality Medical Image Synthesis using Semi-supervised Sequential Generative Adversarial	JBHI 2019
	<b>Networks</b> , Xin Yang (Advisor), <i>Yi Lin#</i> ,, Kwang-Ting Cheng. *IF: 4.217, # Corresponding Author	
5	A Two-Stage Convolutional Neural Network for Pulmonary Embolism Detection from CTPA Images Xin Yang (Advisor), <i>Yi Lin</i> , Jianchao Su, Xiang Wang, Xiang Li, Jingen Lin, Kwang-Ting Cheng. *IF: 4.098	IEEE Access 2019
6	Accurate Scoliosis Vertebral Landmark Localization on X-ray Images via Shape-constrained Multi-stage	Fundamental
	Cascaded CNNs, Zhiwei Wang, Yunqiao Yang, Yi Lin, Jinxin Lv, Xin Lie, Xin Yang	Research 2022

14--414 2022

### SUB

BMITTED			
1	<b>Deep Learning for Medical Image Segmentation: Tricks, Challenges and Future Directions</b> Dong Zhang, <i>Yi Lin</i> , Hao Chen, Zhuotao Tian, Xin Yang, Jinhui Tang, Kwang Ting Cheng	TPAMI	
2	LE-NAS: Learning-based Ensemble with Neural Architecture Search for 3D Radiotherapy Dose	Trans. on Cyber.	
	<b>Prediction</b> , <i>Yi Lin</i> , Yanfei Liu, Hao Chen,, Kwang-Ting Cheng		
3	<b>Label Propagation for Annotation-Efficient Nuclei Segmentation from Pathology Images Yi Lin</b> , Zhiyong Qu, Hao Chen, Zhongke Gao, Yuexiang Li, Lili Xia, Kai Ma, Yefeng Zheng, Kwang-Ting Cheng	MedIA	
4	TBN-CROWN: Triplet-Branch Network with Contrastive Prior-Knowledge Embedding for Disease	TMI	
	<b>Grading</b> , Yuexiang Li, Yanping Wang, Guang Lin, <i>Yi Lin</i> ,, Yefeng Zheng		
5	Adaptive Fusion of Deep Learning with Statistical Shape Model for Robust Patella Segmentation from	Arti. Intel. In Med	

CT Images, Jiachen Zhao, Tianshu Jiang, Yi Lin, Justin Chan, Ping-Keung Chan, Chunyi Wen, Hao Chen

Yı Lin · Resume **DECEMBER 14, 2022**