



Education

Hong Kong University of Science and Technology

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CSE)

PhD

Since Aug. 2021

- Advisor: **Tim CHENG Kwang-Ting**, Professor, HKUST
- Advisor: **Hao Chen**, Assistant Professor, HKUST

Huazhong University of Science and Technology

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

M.S.

Aug. 2017 - Jun. 2020

- Advisor: **Xin Yang**, Professor, HUST

Huazhong University of Science and Technology

SCHOOL OF ELECTRONIC INFORMATION AND COMMUNICATIONS (EIC)

B.S.

Aug. 2012 - Jun. 2016

Work Experience

Jarvis Lab, Tencent

Supervised 5 interns; Published 3 papers; Champion of CADA challenge; In charge of 4 Projects.

Research Engineer

Jul. 2020 - Aug. 2021

YouTu Lab, Tencent

Champion of AASCE challenge.

Research Intern

May 2019 - Sep. 2019

Laifeng Middle School Attached to CCNU

Volunteer teaching at senior high school in the West

Physics Teacher

Jul. 2020 - Aug. 2021

Publication

CONFERENCE

- 1 **Yi Lin**, Luyan Liu, Kai Ma, Yefeng Zheng, **Seg4Reg+: A Local and Global Consistency Learning between Spine Segmentation and Cobb Angle Regression** *MICCAI 2021*
- 2 Yuexiang Li, Yanping Wang, Guang Lin, **Yi Lin**, Dong Wei, Qirui Zhang, Kai Ma, Guangming Lu, Zhiqiang Zhang, Yefeng Zheng, **Triplet-Branch Network with Prior-Knowledge Embedding for Fatigue Fracture Grading** *MICCAI 2021*
- 3 Qingsong Yao, Zecheng He, **Yi Lin**, Kai Ma, Yefeng Zheng, S. Kevin Zhou, **A Hierarchical Feature Constraint to Camouflage Medical Adversarial Attacks** *MICCAI 2021*
- 4 **Yi Lin**, Jianchao Su, Xiang Wang, Xiang Li, Jingen Liu, Kwang-Ting Cheng, Xin Yang, **Automated Pulmonary Embolism Detection from CTPA Images using an End-to-End Convolutional Neural Network** *MICCAI 2019*
- 5 Zhiwei Wang, **Yi Lin**, Kwang-Ting Tim Cheng, Xin Yang, **StitchAD-GAN for Synthesizing Apparent Diffusion Coefficient Images of Clinically Significant Prostate Cancer** *BMVC 2018*
- 6 **Yi Lin**, Hong-Yu Zhou, Kai Ma, Xin Yang, Yefeng Zheng, **Seg4Reg Networks for Automated Spinal Curvature Estimation** *MICCAI 2019 workshop*
- 7 Yanfei Liu, Yunqiao Yang, **Yi Lin**, Yuexiang Li, Dong Wei, Kai Ma, Yefeng Zheng, **Cerebral Aneurysm Rupture Risk Estimation Using XGBoost and Fully Connected Neural Network** *CADA 2020*

JOURNAL

- 1 Zhiwei Wang, **Yi Lin**, Kwang-Ting Tim Cheng, Xin Yang, **Semi-supervised mp-MRI Data Synthesis with StitchLayer and Auxiliary Distance Maximization**, Impact Factor: **8.880** *MedIA 2020*
- 2 Xin Yang (Advisor), **Yi Lin***, Zhiwei Wang, Kwang-Ting Tim Cheng, **Bi-modality Medical Image Synthesis using Semi-supervised Sequential Generative Adversarial Networks**, * Corresponding Author, Impact Factor: **4.217** *JBHI 2019*
- 3 Xin Yang (Advisor), **Yi Lin**, Jianchao Su, Xiang Wang, Xiang Li, Jingen Lin, Kwang-Ting Cheng, **A Two-Stage Convolutional Neural Network for Pulmonary Embolism Detection from CTPA Images**, Impact Factor: **4.098** *IEEE Access 2019*

SUBMITTED

- 1 **Yi Lin***, Yanfei Liu*, Jingguang Liu, Guocai Liu, Kai Ma, Yefeng Zheng, **LE-NAS: Learning-based Ensemble with Neural Architecture Search for 3D Radiotherapy Dose Prediction**, *equal contribution *arXiv 2021*
- 2 Yunqiao Yang, **Yi Lin**, Zhiwei Wang, Kai Ma, Xin Yang, Yefeng Zheng, **Improving by an Order of Magnitude via Multi-stage Cascaded CNNs for Vertebral Landmark Localization** *BMVC 2021*

Competition

- 1 **Cerebral Aneurysm Detection, Segmentation and Rupture Risk Estimation** *MICCAI 2020 CADA Challenge*
Winner in detection task. **Winner** in segmentation task. **Winner** in rupture risk estimation task. *Jul. 2020 - Sept. 2020*
- 2 **Cerebral Aneurysm Detection and Segmentation.** *MICCAI 2020 ADAM Challenge*
Runner-up in detection task. **Runner-up** in segmentation task. *Jul. 2020 - Sept. 2020*
- 3 **Automated Spinal Curvature Estimation.** *MICCAI 2019 AASCE Challenge*
Winner in Cobb angle estimation task. *Jul. 2019 - Sept. 2019*

Reviewer

IEEE Trans. on Medical Imaging (TMI)

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)

International Conference on Computer Vision (ICCV)

International Joint Conference on Artificial Intelligence (IJCAI)

Medical Image Computing and Computer Assisted Interventions (MICCAI)

Technical Skills

Coding **Python, C, C++, C#, Pytorch, Tensorflow**

Others **TOEFL 85, CET6, LaTeX, Photoshop**

Activities & Awards

- 2020 **Outstanding Graduates**, Huazhong University of Science and Technology
- 2019 **Merit Student**, Huazhong University of Science and Technology
- 2019 **National Scholarship**, Huazhong University of Science and Technology
- 2019 **Student Travel Award**, MICCAI
- 2016 **Outstanding Graduates**, Huazhong University of Science and Technology