Yi **Lin**

Deep Learning · Medical Image Analysis · Computer Vision
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Education

Hong Kong University of Science and Technology _PhD_
Department of Computer Science and Engineering (CSE) _Since   Aug. 2021_

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

Huazhong University of Science and Technology _M.S._
School of Electronic Information and Communications (EIC), MC Lab _Aug. 2017 - Jun. 2020_

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

Huazhong University of Science and Technology _B.S._
School of Electronic Information and Communications (EIC) _Aug. 2012 - Jun. 2016_

Work Experience

Jarvis Lab, Tencent _Research Engineer_
Supervised 5 interns; Published 3 papers; Champion of CADA challenge; In charge of 4 Projects. _Jul. 2020 - Aug. 2021_

YouTu Lab, Tencent _Research Intern_
Champion of AASCE challenge. _May 2019 - Sep. 2019_

Laifeng Middle School Attached to CCNU _Physics Teacher_
Volunteer teaching at senior high school in the West _Jul. 2020 - Aug. 2021_

Publication

Conference

1   _Yi Lin_, Luyan Liu, Kai Ma, Yefeng Zheng, **Seg4Reg+: A Local and Global ConsistencyLearning between Spine Segmentation and CobbAngle 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**   *MedIA 2020*
    StitchLayer and Auxiliary Distance Maximization, Impact Factor: **8.880**

2   Xin Yang (Advisor), *Yi Lin#*, Zhiwei Wang, Kwang-Ting Tim Cheng, **Bi-modality Medical Image Synthesis**   *JBHI 2019*
    using Semi-supervised Sequential Generative Adversarial Networks, # Corresponding Author, Impact
    Factor: **4.217**

3   Xin Yang (Advisor), *Yi Lin*, Jianchao Su, Xiang Wang, Xiang Li, Jingen Lin, Kwang-Ting Cheng, **A**   *IEEE Access 2019*
    Two-Stage Convolutional Neural Network for Pulmonary Embolism Detection from CTPA Images,
    Impact Factor: **4.098**

SUBMITTED

1   *Yi Lin** , Yanfei Liu*, Jingguang Liu, Guocai Liu, Kai Ma, Yefeng Zheng, **LE-NAS: Learning-based**   *arXiv 2021*
    Ensemble with Neural Architecture Search for 3D Radiotherapy Dose Prediction, *equal contribution

2   Zhiwei Wang, Yunqiao Yang, *Yi Lin* , Jinxin Lv, Xin Lie, Xin Yang, **Accurate Scoliosis Vertebral Landmark**   *Fundamental*
    Localization on X-ray Images via Shape-constrained Multi-stage Cascaded CNNs   *Research*

Competition

1   **Automatic planning of radiotherapy dose distribution with Neural Architecture Search**   *Tencent 2021 AIMIS Challenge*
    Winner in dose prediction task.   *Aug. 2021 - Nov. 2021*

2   **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*

3   **Cerebral Aneurysm Detection and Segmentation.**   *MICCAI 2020 ADAM Challenge*
    Runner-up in detection task. **Runner-up** in segmentation task.   *Jul. 2020 - Sept. 2020*

4   **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