

Xiaoqing GUO

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EDUCATION

City University of Hong Kong (CityU), Hong Kong
Ph.D. in Electrical Engineering (EE), GPA: 3.925/4
Supervisor: Prof. Yixuan Yuan

Sep. 2018 - Present

Beihang University (BUAA), Beijing, China
B.E. in Biomedical Engineering (BME), GPA: 3.64/4
Supervisor: Prof. Yu Wang (**Honor: Outstanding Undergraduate Thesis Award**)

Sep. 2014 - Jun. 2018

PREVIOUS WORK EXPERIENCE

Tsinghua University, Beijing, China
Research Assistant in Department of Electrical Engineering (EE)
Supervisor: Prof. Yongfeng Huang

Sep. 2017 - Jul. 2018

RESEARCH INTERESTS

Medical Image Analysis, Deep Learning.

My research interests include abnormality recognition and segmentation, brain tumor diagnosis and survival prediction. Recently, I am dedicated to making adequate use of unannotated data.

PUBLICATIONS ([GOOGLE SCHOLAR](#))

1. **Xiaoqing Guo**, Yixuan Yuan. "Triple ANet: Adaptive Abnormal-aware Attention Network for WCE Image Classification." *The 22nd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2019)*, Shenzhen, China. (Early Accept)
2. Yixuan Yuan, Wenjian Qin, **Xiaoqing Guo**, Mark Buyyounouski, Steve Hancock, Bin Han, Lei Xing. "Prostate Segmentation with Encoder-Decoder Densely Connected Convolutional Network (ED-DenseNet)." *The 16th IEEE International Symposium on Biomedical Imaging (ISBI 2019)*, Venice, Italy
3. Zhongliang Yang, **Xiaoqing Guo**, Ziming Chen, Yongfeng Huang, Yujin Zhang. "RNN-stega: Linguistic steganography based on recurrent neural networks." *IEEE Transactions on Information Forensics and Security (TIFS)*, 14(5): 1280-1295, 2019. (**Impact Factor: 6.211**)
4. Siyuan Shan, Wen Yan, **Xiaoqing Guo**, Eric I Chang, Yubo Fan, Yan Xu. "Unsupervised End-to-end Learning for Deformable Medical Image Registration." *arXiv*, <https://arxiv.org/abs/1711.08608>

PUBLICATIONS UNDER REVIEW

1. **Xiaoqing Guo**, Yixuan Yuan. "Semi-supervised WCE Image Classification with Adaptive Aggregated Attention." *IEEE Transactions on Medical Imaging (TMI)*.

2. **Xiaoqing Guo**, Yixuan Yuan. “Anonymous” *The 17th IEEE International Symposium on Biomedical Imaging (ISBI 2020)*.

RESEARCH EXPERIENCES

- Automatic Diagnosis for Wireless Capsule Endoscopy Images** Sep. 2018 - Present
- Classification and localization for WCE images
 - Abnormality detection based on attention mechanism
 - Semi-supervised learning for WCE image analysis
- Diagnosis of Brain Tumor in MRI** Sep. 2018 - Present
- Automatic brain tumor segmentation
 - Survival and grading prediction with incorporating clinical information
- Melanoma Segmentation for Dermoscopy Images** Jan. 2019 - Present
- Semi-supervised learning for automatic melanoma segmentation
- Coverless Text Steganography** Nov. 2017 - Jul. 2018
- Coverless information hiding based on recurrent neural networks
 - Constructed a language model network to automatically generate a high-quality text according to a secret bit stream
- Medical Image Registration** Jan. 2017 - Jun. 2018
- 2D/3D (X-ray/CT) medical image registration using Convolutional Neural Network
 - 2D (CT or MRI) medical image registration with unsupervised learning strategy

SELECTED AWARDS

- **Outstanding Academic Performance Award (OAPA)**, City University of Hong Kong, 2019
- **Research Tuition Scholarship (RTS)**, City University of Hong Kong, 2019 - 2020
- **Honorable Mention**, Mathematical Contest in Modeling (MCM), 2016
- **Grand Prize**, the 25th “Feng Ru Cup” Competition of Innovation, BUAA, 2015

PROFESSIONAL ACTIVITIES

Technical Reviewers

- MICCAI 2019

Conference Presentations

- ISBI 2018, Venice, Italy Apr. 2019