Xiaoqing GUO Curriculum Vitae

Xiaoqing GUO

Room G2325, AC1, City University of Hong Kong, Kowloon, Hong Kong.

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EDUCATION

City University of Hong Kong (CityU), Hong Kong

Sep. 2018 - Present

Ph.D. in Electrical Engineering (EE), GPA: 3.925/4

Supervisor: Prof. Yixuan Yuan

Beihang University (BUAA), Beijing, China

Sep. 2014 - Jun. 2018

B.E. in Biomedical Engineering (BME), GPA: 3.64/4

Supervisor: Prof. Yu Wang (Honor: Outstanding Undergraduate Thesis Award)

PREVIOUS WORK EXPERIENCE

Tsinghua University, Beijing, China

Sep. 2017 - Jul. 2018

Research Assistant in Department of Electrical Engineering (EE)

Supervisor: Prof. Yongfeng Huang

RESEARCH INTERESTS

Medical Image Analysis, Deep Learning.

My research interests include abnormality recognition and segmentation. Recently, I am dedicated to making adequate use of unannotated data, augmenting the limited training data and enabling robust training of deep neural network.

PUBLICATIONS (GOOGLE SCHOLAR)

Journal Papers

- 1. **Xiaoqing Guo**, Jie Liu, Yixuan Yuan. "Semantic-oriented Labeled-to-unlabeled Distribution Translation for Image Segmentation." *IEEE Transactions on Medical Imaging* (*TMI*). 2021. (Impact Factor: 10.048)
- Xiaoqing Guo, Chen Yang, Yixuan Yuan. "Dynamic-Weighting Hierarchical Segmentation Network for Medical Images." Medical Image Analysis (MedIA), p, 102196, 2021 (Impact Factor: 8.545)
- 3. Xiaoqing Guo, Chen Yang, Yajie Liu, Yixuan Yuan. "Learn to Threshold: ThresholdNet with Confidence-Guided Manifold Mixup for Polyp Segmentation." *IEEE Transactions on Medical Imaging (TMI)*, vol. 40, no. 4, pp. 1134-1146, 2021. (Impact Factor: 10.048)
- 4. **Xiaoqing Guo**, Yixuan Yuan. "Semi-supervised WCE Image Classification with Adaptive Aggregated Attention." *Medical Image Analysis* (*MedIA*), p, 101733, 2020. (**Impact Factor: 8.545**)
- 5. Chen Yang, Xiaoqing Guo, Meilu Zhu, Bulat Ibragimov, Yixuan Yuan. "Progressive Mutual-Prototype Alignment with Disentangled Reconstruction for Polyp Segmentation." *IEEE Journal of Biomedical and Health Informatics (JBHI)*. (Impact Factor: 5.772)

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 Xinyu Liu, Xiaoqing Guo, Yajie Liu, Yixuan Yuan. "Consolidated domain adaptive detection and localization framework for cross-device colonoscopic images." Medical Image Analysis (MedIA), p. 102052, 2021. (Impact Factor: 8.545)

- 7. Zhen Chen, **Xiaoqing Guo**, Peter Y. M. Woo, Yixuan Yuan. "Super-Resolution Enhanced Medical Image Diagnosis with Sample Affinity Interaction." *IEEE Transactions on Medical Imaging* (*TMI*), 2021. (**Impact Factor: 10.048**)
- 8. 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: 7.178)

Conference Papers

- 1. Xiaoqing Guo*, Chen Yang*, Baopu Li, Yixuan Yuan. MetaCorrection: Domain-aware Meta Loss Correction for Unsupervised Domain Adaptation in Semantic Segmentation. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2021)*.
- 2. **Xiaoqing Guo**, Zhen Chen, Yixuan Yuan. "Complementary Network with Adaptive Receptive Fields for Melanoma Segmentation." *The 17th IEEE International Symposium on Biomedical Imaging (ISBI 2020)*, Iowa City, Iowa, USA.
- 3. Xiaoqing Guo, Chen Yang, Pak Lun Lam, Peter Y.M. Woo, Yixuan Yuan. "Domain Knowledge Based Brain Tumor Segmentation and Overall Survival Prediction." *Brain Lesion (BrainLes) workshop of MICCAI 2019*, Shenzhen, China.
- 4. **Xiaoqing Guo**, Yixuan Yuan. "Triple ANet: Adaptive Abnormal-aware Attention Network for WCE Image Classfication." The 22nd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2019), Shenzhen, China. (Early Accept)
- 5. Jie Liu, Xiaoqing Guo, Baopu Li, Yixuan Yuan. "JDS: Joint Domain and Semantic Prediction for Domain Adaptation of Semantic Segmentation." *IEEE International Conference on Intelligent Robots and Systems (IROS 2021)*, Prague, Czech Republic.
- 6. Jie Liu, **Xiaoqing Guo**, Yixuan Yuan. "Prototypical Interaction Graph for Unsupervised Domain Adaptation in Surgical Instrument Segmentation." The 24nd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2021), Strasbourg, France.
- 7. Wuyang Li, Chen Yang, Jie Liu, Xinyu Liu, **Xiaoqing Guo**, Yixuan Yuan. "Comprehensive Polyp Detection and Segmentation with Heterogeneous Endoscopic Data." *The 3rd International Endoscopy Computer Vision Challenge and Workshop (EndoCV) of ISBI 2021, Nice, France.* (Ranked **1st** place in polyp detection)
- 8. Zhen Chen, **Xiaoqing Guo**, Chen Yang, Bulat Ibragimov, Yixuan Yuan. "Joint Spatial-Wavelet Dual-Stream Network for Super-Resolution." *The 23nd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2020)*, Lima, Peru.
- 9. 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.

SELECTED AWARDS

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Outstanding Academic Performance Award (OAPA), City University of Hong Kong 2020
Research Tuition Scholarship (RTS), City University of Hong Kong 2020 - 2021
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

PROFESSIONAL ACTIVITIES

Technical Reviewers

- MICCAI 2019, ISBI 2021, MICCAI 2021
- IEEE Transactions on Medical Imaging (TMI)
- Medical Physics

Conference Presentations

MICCAI 2019, Shenzhen, China
ISBI 2019, Venice, Italy
Apr. 2019

2015