Xiaojuan Qi

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ACADEMIC QUALIFICATION

Ph.D. in Computer Science (August 2018), The Chinese University of Hong Kong
Thesis: Pixel-level Scene Understanding with Deep Learning
Advisor: Jiaya Jia
B.Eng. in Electronic Science (July 2014), Shanghai Jiao Tong University
Ranking: 1 out of 70
Advisor: Ya Zhang

EMPLOYMENT

February 2020 – Present, Assistant Professor, The University of Hong Kong
December 2018 – February 2020, Postdoctoral Researcher, The University of Oxford
May 2017 – November 2017, Research Intern at Intel Intelligent Systems Lab, USA
September 2016 – November 2016, Visiting Student at University of Toronto, Canada

PROFESSIONAL SERVICES

Area Chair for CVPR 2021.
Senior Program Committee Member for AAAI 2020.

Program Committees:
International Conference on Computer Vision and Pattern Recognition (CVPR) 2019, 2020.
International Conference on Computer Vision (ICCV) 2017, 2019.
International Joint Conference on Artificial Intelligence (IJCAI) 2019, 2020.
International Conference on Computer Vision and Pattern Recognition (CVPR) 2018.
European Conference on Computer Vision (ECCV) 2018, 2020.
Neural Information Systems Processing Conference (NIPS) 2018, 2020.

Journal Reviewer:
Natural Machine Intelligence.
International Journal on Computer Vision (IJCV).
IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI).
IEEE Transaction on Image Processing (TIP).
Pattern Recognition (PR).
Medical Image Analysis (MIA).
IEEE Transaction on Medical Imaging (TMI).

Selected AWARDS

Outstanding Reviewer Award at ICCV'19.
Hong Kong PhD Fellowship Award (HKPFS), 2014 - 2018.
Full Oral presentations (about $2\%-4\%$) at ECCV'18, CVPR'18, ICCV'17, CVPR'16, AAAI'16.
CVPR'18 Doctoral Consortium Travel Award.
Outstanding Reviewer Award at ICCV'17.
PSPNet won ImageNet Scene Parsing Challenge 2016.

Selected PUBLICATIONS in Recent Five Years

1. Global Texture Enhancement for Fake Face Detection in the Wild
   Zhengzhe Liu, **Xiaojuan Qi**, Philip H.S. Torr.
   IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.
2. Unifying Training and Inference for Panoptic Segmentation
   Qizhu Li, **Xiaojuan Qi**, Philip H.S. Torr.
   IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.
3. ManiGAN: Text-Guided Image Manipulation
   Bowen Li, **Xiaojuan Qi**, Thomas Lukasiewicz, Philip H.S. Torr.
   IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.
4. Controllable Text-to-Image Generation
   Bowen Li, **Xiaojuan Qi**, Thomas Lukasiewicz, Philip H.S. Torr.
   Conference on Neural Information Processing Systems (**NeurIPS**), 2019.
5. AGSS-VOS: Attention Guided Single-Shot Video Object Segmentation
   Huaijia Lin, **Xiaojuan Qi**, Jiaya Jia.
   IEEE International Conference on Computer Vision (**ICCV**), 2019.
6. 3D Motion Decomposition for RGBD Future Dynamic Scene Synthesis
   Xiaojuan Qi, Zhengzhe Liu, Qifeng Chen, Jiaya Jia.
   IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019.
7. Image Inpainting via Generative Multi-column Convolutional Neural Networks
   Yi Wang, Xin Tao, **Xiaojuan Qi**, Xiaoyong Shen, Jiaya Jia.
   Conference on Neural Information Processing Systems (**NIPS**), 2018.
8. ICNet for Real-time Semantic Segmentation on High-resolution Images
   Hengshuang Zhao, **Xiaojuan Qi**, Xiaoyong Shen, Jianping Shi, Jiaya Jia.
   European Conference on Computer Vision (**ECCV**), 2018.
9. GAL: Geometric Adversarial Loss for Single-View 3D-Object Reconstruction
   Li Jiang, Shaoshuai Shi, **Xiaojuan Qi**, Jiaya Jia.
   European Conference on Computer Vision (**ECCV**), 2018.
   (Oral Acceptance rate: 2.1%)
10. Self-Boosted Gesture Interactive System with ST-Net
    Zhengzhe Liu*, **Xiaojuan Qi***, Lei Pang.
    ACM Multimedia Conference (**MM**), 2018.
    (Full Research Paper, *indicates equal contribution)

11. GeoNet: Geometric Neural Network for Joint Depth and Surface Normal Estimation
    Xiaojuan Qi, Renjie Liao, Zhengzhe Liu, Raquel Urtasun, Jiaya Jia.
    IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018.

12. Semi-parametric Image Synthesis
    Xiaojuan Qi, Qifeng Chen, Jiaya Jia, Vladlen Koltun.
    IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018.
    (Oral Acceptance Rate: 2.1%)

13. 3D Graph Neural Networks for RGBD Semantic Segmentation
    Xiaojuan Qi, Renjie Liao, Jiaya Jia, Sanja Fidler, Raquel Urtasun.
    IEEE Conference on Computer Vision (**ICCV**), 2017.
    (Oral Acceptance Rate: 2.1%)

14. Pyramid Scene Parsing Network
    Hengshuang Zhao, Jianping Shi, **Xiaojuan Qi**, Xiaogang Wang, Jiaya Jia.
    IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2017.
    (First Place in ImageNet Scene Parsing Challenge)

15. Augmented Feedback in Semantic Segmentation under Image Level Supervision
    Xiaojuan Qi, Zhengzhe Liu, Jianping Shi, Hengshuang Zhao, Jiaya Jia.
    European Conference on Computer Vision (**ECCV**), 2016.

16. Multi-scale Patch Aggregation (MPA) for Simultaneous Detection and Segmentation
    Shu Liu, **Xiaojuan Qi**, Jianping Shi, Hong Zhang, Jiaya Jia.
    IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2016.
    (Oral Acceptance Rate: 3.9%)

17. Deep Contour-Aware Networks for Accurate Gland Segmentation.
    Hao Chen, **Xiaojuan Qi**, Lequan Yu, Pheng-Ann Heng.
    IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2016.

18. Deep Contextual Networks for Neuronal Structure Segmentation.
    Hao Chen*, **Xiaojuan Qi***, Jie-zhi Cheng, Pheng-Ann Heng.
    Association for the Advancement of Artificial Intelligence (**AAAI**), 2016.
    (Oral Presentation, *indicates equal contribution)

19. Semantic Segmentation with Object Clique Potential
    Xiaojuan Qi, Jianping Shi, Shu Liu, Renjie Liao, Jiaya Jia.
    International Conference on Computer Vision (**ICCV**), 2015.