# 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:

Nature 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**

- 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.
- 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.
- 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.
- 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.
- 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%)
- 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.
- 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%)
- 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.