Yiguo Qiao

Curriculum Vitae

Department of Computer Science, University of Bath
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Work Experience

2019–now **Research Associate**, *Department of Computer Science*, University of Bath, England.

Education

2011–2018 **Ph.D. at Xidian University**, *School of Artificial Intelligence*, Xi'an, China.
Doctor of Philosophy in Circuits and Systems
Dissertation: *Depth Super-resolution and Virtual View Synthesis in 3D Stereoscopic Vision*
Advisors: Prof. Licheng Jiao *(Fellow, IEEE)* and Prof. Jin Pan

2010–2011 **Master's degree at Xidian University**, *Key Laboratory of Intelligent Perception and Image Understanding of Ministry of Education*, Xi'an, China.
Master of Science in Pattern Recognition and Intelligent Systems
Advisors: Prof. Licheng Jiao *(Fellow, IEEE)* and Prof. Jin Pan

2006–2010 **Bachelor's degree at Xidian University**, *School of Electronic Engineering*, Xi'an, China.
Bachelor of Science in Automation
Dissertation: *Research and Development of Integrated System of ERP and MES*

Research Experience

2021-now *Research on Unsupervised Motion Retargetting in Motion Capture*, **Researcher**, University of Bath and Trinity College Dublin.

2019-2021 *Development of Rheumatoid Arthritis Flare Profiler*, **Researcher**, University of Bath, healthtech company Living With, and Royal United Hospitals Bath NHS Foundation Trust (RUH).

2013-2016 *Research on Elimination of Coding Effect and High Quality Binocular View Generation in 3DTV*, **Co-Investigator**, Xidian University.

2012-2013 *Technologies of Video Processing in 3DTV*, **Co-Investigator**, Xidian University and Huawei Technologies Co. Ltd.

Publications

Peer-reviewed publications

2021 George Fletcher, **Yiguo Qiao**, Rebecca Fribourg, Jake Deane, Rachel McDonnell and Darren Cosker, *Exploring the Perception of Quadruped Motion Retargeting*, ACM SIGGRAPH Conference on Motion, Interaction and Games (MIG), 2021, accepted.

Donal Egan, George Fletcher, **Yiguo Qiao**, Darren Cosker and Rachel McDonnell, *How to Train Your Dog: Neural Enhancement of Quadruped Animations*, ACM SIGGRAPH Conference on Motion, Interaction and Games (MIG), 2021, accepted.

Yiguo Qiao, Licheng Jiao, Wenbin Li, Christian Richardt and Darren Cosker, *Fast, High-quality Hierarchical Depth-map Super-resolution*, ACM International Conference on Multimedia (ACM MM), 2021, accepted. *(Full paper)*.

2020 **Yiguo Qiao**, Licheng Jiao, Xu Tang, Wenbin Li and Darren Cosker, *High-quality Depth Up-sampling via A Supervised Classification Guided MRF Model*, Pattern Recognition Letters.

2019 **Yiguo Qiao**, Licheng Jiao, Shuyuan Yang, Biao Hou and Jie Feng, *Color Correction and Depth-Based Hierarchical Hole Filling in Free Viewpoint Generation*, IEEE Transactions on Broadcasting.

2018 **Yiguo Qiao**, Licheng Jiao, Shuyuan Yang and Biao Hou, *A Novel Segmentation Based Depth Map Up-sampling*, IEEE Transactions on Multimedia.

Yiguo Qiao, Licheng Jiao and Biao Hou, *High-quality Depth Up-sampling Based on Multi-scale SLIC*, Electronics Letters.

2014 **Yiguo Qiao** and Cheolkon Jung, *Dictionary Based Hole Filling with Assistance of Depth*, Proc. IEEE Intl. Conf. on Multimedia and Expo (ICME), 2014. *(Full paper)*.

Papers in progress

1. Anonymous Author(s), *The relationship between grip strength and RAPID3 (Routine Assessment of Patient Index Data 3) in patients with rheumatoid arthritis and short-term prediction of disease condition using LSTM (Long Short Term Memory) network*.
2. Anonymous Author(s), *Joint segmentation on thermal image and relationship analysis between hand temperature and RAPID3 for follow-up of Rheumatoid Arthritis*.

Patents

1. L. Jiao, **Y. Qiao**, et al., *A Color Correction based Free Viewpoint Generation Method*, China, 201610334492.7[P], authorized in 2018-03-13.
2. C. Jung, L. Jiao, F. Xue, T. Sun, **Y. Qiao**, *A Parallax Minimal Perceptible Model based Stereo Video Coding Method*, China, 201410240167.5[P], authorized in 2018-05-22.
3. L. Jiao, **Y. Qiao**, et al., *A minimum joint distance based depth map up-sampling method*, China, 201610334077.1[P], authorized in 2019-04-23.

Technical Skills

Programming Python, MATLAB, HTML, css, C/C++

Others LaTeX, Lyx, TeXworks, SPSS, Blender, Unity, Docker, Microsoft Office Tools, Mendeley

Languages

Chinese (native), English (intermediate)

Leisure and Entertainment

Singing, Playing Ukulele and Piano, Photography, Traveling, etc.