Yipeng Qin

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Research Interests	Deep Learning, Computer Graphics, Computer Vision, Geometry Processing

Employment

Lecturer (∼Assistant Professor) in Computer Science   2019.06 – now

School of Computer Science and Informatics
Cardiff University, Wales, United Kingdom

Post Doctoral Research Fellow   2017.11 – 2019.05

Visual Computing Center
King Abdullah University of Science and Technology, Saudi Arabia

Education

Ph.D. in Computer Science   2013.10 – 2017.07

National Centre for Computer Animation (NCCA)
Bournemouth University, United Kingdom

B.Eng.(Hons) in Electronic Engineering   2009.09 – 2013.06

School of Electronic Information and Electrical Engineering
Shanghai Jiao Tong University, P.R.China

Publications

Z. Yan, X. Yu, **Y. Qin**, Y. Wu, X. Han, S. Cui. "Pixel-level Intra-domain Adaptation for Semantic Segmentation." ACM International Conference on Multimedia (ACM MM), 2021. [**link**]

Z. Zhu, S. Guo, **Y. Qin**, X. Chen, R. Wu, Y. Shi, X. Liu, M. Liao. "Robust Elbow Angle Prediction with Aging Soft Sensors via Output-Level Domain Adaptation." *IEEE Sensors Journal*, 2021. [**link**]

Z. Chen, X. Chen, Y. Ma, S. Guo, **Y. Qin**, and M. Liao. "Human posture tracking with flexible sensors for motion recognition." *Computer Animation and Virtual Worlds*, 2021. [**link**]

Y. Qin, N. Mitra, P. Wonka. "How does Lipschitz Regularization Influence GAN Training?" European Conference on Computer Vision (**ECCV**), 2020. [**link**]

P. Zhu, R. Abdal, **Y. Qin**, P. Wonka. "SEAN: Image Synthesis with Semantic Region-Adaptive Normalization." Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020 (**oral**). [**link**]

R. Abdal, **Y. Qin**, P. Wonka. "Image2StyleGAN++: How to Edit the Embedded Images?" Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020. [**link**]

R. Abdal, **Y. Qin**, P. Wonka. "Image2StyleGAN: How to Embed Images Into the StyleGAN Latent Space?" International Conference on Computer Vision (**ICCV**), 2019 (**oral**). [link]

Y. Qin, H. Yu, J. Zhang. "Fast and Memory-Efficient Voronoi Diagram Construction on Triangle Meshes." *Computer Graphics Forum*, Vol 36, No 5, SGP 2017. [link]

Y. Qin*, X. Han*, H. Yu, Y. Yu, J. Zhang. "Fast and Exact Discrete Geodesic Computation Based on Triangle-Oriented Wavefront Propagation." *ACM Transactions on Graphics*, Vol 35, No 4, **SIGGRAPH** 2016. (* joint first authors) [link]

H. Yu, **Y. Qin**, J. Zhang. "Eigenspace-based surface completeness." *Journal of Electronic Imaging*, 24(2), 2015. [link]

PATENTS   T. Chen, Z. Zhu, X. Li, Z. Liu, Y. Qin, Y. Ye, J. Wu. Cards (Oracle Bone Character Learning). Patent Number: ZL 2020 3 0403735.5 . Filed July 21, 2020 and issued January 1, 2021. *Chinese Patent.* [link]

Y. Qin. Idle-Bandwidth Self-Adaption Method for Internet Video Streaming Media Transmission. Patent Number: ZL 2013 1 0108664.5 . Filed March 29, 2013 and issued April 27, 2016. *Chinese Patent.* [link]

FUNDING   Uncovering the "Instincts" of Deep Generative Models for Fair and Unbiased Visual Content Creation, Main Supervisor, EPSRC DTP.   2021.10 – 2025.03

PRESENTATIONS   **Invited Talk**, NCCA, Bournemouth University   2021.07
Invited Talk, IROHMS Human-Like AI Working Group (Cardiff Uni)   2021.04
Invited Talk, 4th Tsinghua-Cardiff workshop on Visual Computing   2019.09
Invited Talk, Prof. Shengyong Chen's group, Tianjin, P.R.China   2017.10
Oral Presentation, SGP 2017, London, United Kingdom   2017.07
Invited Talk, IEA/AIE 2017 workshop CAnimAI, Arras, France   2017.06
Oral Presentation, SIGGRAPH 2016, Anaheim, CA, U.S.   2016.06

ADVISING   **Ebtihal Alwadee**   2021.10 – now
Third supervisor, co-supervised with Dr. Frank Langbein and Dr. Xianfang Sun at School of Computer Science and Informatics, Cardiff University, UK.

Stephen Miles [part-time]   2021.07 – now
Main supervisor, co-supervised with Prof. Paul Rosin at School of Computer Science and Informatics, Cardiff University, UK.

Bhavesh Garg [Intern]   2021.05 – now
Second supervisor, co-supervised with Prof. Paul Rosin at School of Computer Science and Informatics, Cardiff University, UK.

Hateef Alshewaier   2021.04 – now
Second supervisor, co-supervised with Dr. Xianfang Sun at School of Computer Science and Informatics, Cardiff University, UK.

Thomas Alexander Poudevigne-Durance 2020.11 – now
Second supervisor, co-supervised with Prof. Owen Jones at School of Mathematics, Cardiff University, UK.

Xin Zhao 2020.03 – now
Second supervisor, co-supervised with Dr. Hantao Liu at School of Computer Science and Informatics, Cardiff University, UK.

Peihao Zhu 2019.09 – 2020.03
MS-PhD student of Prof. Peter Wonka at KAUST, Saudi Arabia.

Rameen Abdal 2018.09 – 2019.12
MS-PhD student of Prof. Peter Wonka at KAUST, Saudi Arabia.

TEACHING

CMT316 - Applications of Machine Learning: NLP/CV
Postgraduate level
Academic year: 2021/2022 - now
Cardiff University, UK

CMT307 - Applied Machine Learning
Postgraduate level
Academic year: 2021/2022 - now
Cardiff University, UK

CM1205 - Architecture and Operating Systems (Module Leader)
Undergraduate level (Year 1)
Academic year: 2019/2020 - now
Cardiff University, UK

ADMIN

PGT Programme Lead (MSc DSA & Data Gov) 2020.10 – now

PROFESSIONAL ACTIVITIES

Teaching Qualification Fellowship of HEA (FHEA)

Member ACM SIGGRAPH, Computer Vision Foundation (CVF), IROHMS Human-Like AI Working Group (Cardiff University)

Grant reviewer EPSRC

Journal reviewer ACM Transactions on Graphics (TOG), IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), IEEE Transactions on Visualization and Computer Graphics (TVCG), Computer Graphics Forum (CGF), Neurocomputing.

Conference reviewer SIGGRAPH, SIGGRAPH Asia, NeurIPS, ICLR, AAAI, Eurographics, BMVC, CVM, IJCNN.

REFERENCES **Yukun Lai**

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School of Computer Science and Informatics   E-mail: LaiY4@cardiff.ac.uk
Cardiff University

Peter Wonka

Professor, Associate Director
Visual Computing Center   E-mail: peter.wonka@kaust.edu.sa
King Abdullah University of Science and Technology

Jianjun Zhang

Professor, Director
National Centre for Computer Animation E-mail: jzhang@bournemouth.ac.uk
Bournemouth University