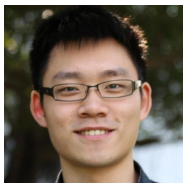

Liqian MA

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Summary

I am the algorithm head at ZMO.AI and lead the R&D team for AIGC. I obtained my PhD degree at VISICS group of KU Leuven supervised by Prof. Luc Van Gool. Before this, I obtained my Master's and Bachelor's degree from Peking University and South China University of Technology. My research goal is to develop a creative self-learning AI system. Currently, I am working on image/video understanding and synthesis.

Education

Doctor of Philosophy (Ph.D.)

Oct. 2016 - Oct. 2021

University of Leuven - KU Leuven

Supervisor: Prof. Luc Van Gool
Department of Electrical Engineering (ESAT) - PSI
Faculty of Engineering Science
Major in Electrical Engineering
Research Field: Image/video synthesis, self-supervised learning, and human/scene understanding.

Master of Science (M.S.)

Sep. 2013 - Jul. 2016

Peking University

Supervisor: Prof. Hong Liu
Open Lab on Human Robot Interaction (HRI Lab)
School of Electronics and Computer Engineering
Major: Computer Applied Technology
GPA: 3.88/4.0
Interests: Computer Vision, Machine Learning, Deep Learning and Data Mining.

Bachelor of Engineering (B.E.)

Sep. 2009 - Jul. 2013

South China University of Technology

Major: Electronic science and technology (microelectronics)
GPA: 3.81/4.0
Main courses: mathematics courses, basic computer science courses, communication courses and electronics courses, e.g., advanced mathematics, linear algebra, probability and statistics, signals and systems, communication theory, artificial circuit, digital circuit, and digital signal processing.

Work Experience

Technical Co-Founder

Jan. 2020 - Present

ZMO.AI

Leading the algorithm team for research and development. The developed algorithms have been integrated in our AIGC production, such as text2image generation and virtual try-on productions. Several achievement have been patented or published.

Research Assistant

Jun. 2019 - Sep. 2019

Adobe Research

Developing algorithms for human image synthesis with deep learning. The achievement has been published in ECCV 2020 "Unselfie: Translating Selfies to Neutral-pose Portraits in the Wild".

Selected Publications

1. Shenhan Qian, Jiale Xu, Ziwei Liu, ***Liqian Ma***, Shenghua Gao. "UNIF: United Neural Implicit Functions for Clothed Human Reconstruction and Animation". ECCV 2022.
2. ***Liqian Ma,*** Lingjie Liu, Christian Theobalt, and Luc Van Gool. "Direct Dense Pose Estimation". 3DV 2021.
3. Kaili Wang, ***Liqian Ma***, Jose Oramas, Luc Van Gool, and Tinne Tuytelaars. Unpaired Image Shape Translation Across Fashion Data. In International Conference on Image Processing (ICIP) 2020, (Award Finalists).
4. ***Liqian Ma***, Zhe Lin, Connelly Barnes, Alexei A Efros, Jingwan Lu. "Unselfie: Translating Selfies to Neutral-pose Portraits in the Wild". In European Conference on Computer Vision (ECCV) 2020.
5. ***Liqian Ma***, Xu Jia, Stamatios Georgoulis, Tinne Tuytelaars, and Luc Van Gool. "Exemplar Guided Unsupervised Image-to-Image Translation with Semantic Consistency". In International Conference on Learning Representations (ICLR) 2019.
6. ***Liqian Ma***, Qianru Sun, Stamatios Georgoulis, Luc Van Gool, Bernt Schiele, and Mario Fritz. "Disentangled Person Image Generation.". In IEEE International Conference on Computer Vision and Pattern Recognition (CVPR). 2018.
7. ***Liqian Ma***, Xu Jia*, Qianru Sun*, Bernt Schiele, Tinne Tuytelaars, and Luc Van Gool. "Pose Guided Person Image Generation." In Advances in neural information processing systems (NIPS), 2017. (* Equal Contributions)

Honors & Awards

- Nov. 2020 Adobe Research Gift
- Oct. 2015/2014 Pivot of Merit Student by PKU
- Oct. 2015 May Fourth Scholarship by PKU
- Oct. 2014 The 2nd China big data technology innovation contest by CCF, Third Prize
- Sep. 2014 National Scholarship by Ministry of Education & PKU
- Jun. 2013 "Challenge Cup" of Guangdong province undergraduate extracurricular academic science and technology works competition, Outstanding Winner
- Sep. 2012 Guangdong province undergraduate electronic design contest, Third Prize.
- Oct. 2012/2011/2010 Pivot of Merit Student by SCUT
- Oct. 2012/2011 School Second-class Scholarship by SCUT
- Oct. 2010 National Scholarship by Ministry of Education & SCUT

Patents

1. An intelligent LED lamp dimming method and system. National invention patent. Chinese Patent No: 201210562955.7.
2. An intelligent parking lot guidance method and system. National invention patent. Chinese Patent No: 201210356501.4.
3. A direct method for estimating a pose of a body in at least one image. European Patent No: EP21191319.9
4. Generating neutral-pose transformations of self-portrait images. US Patent No: 11,024,060 B1
5. System for image completion. US Patent No: US 2022/0092746 A1. Chinese Patent No: 202111109973.5