



# Liqian MA

KU Leuven

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## Summary

I am a fourth-year Ph.D. student at [VISICS](#) group of KU Leuven starting from 2016 fall. I am supervised by [Prof. Luc Van Gool](#) and I also work closely with [Prof. Tinne Tuytelaars](#) and [Prof. Bernt Schiele](#). Prior to this, I obtained my Master's and Bachelor's degree from Peking University and South China University of Technology, respectively. Currently, I am working on image synthesis, self-supervised feature learning, and scene understanding. I have published articles in NIPS, CVPR, ICLR, ECCV and related conferences or journals.

## Education

### Doctor of Philosophy (Ph.D.)

Oct. 2016 - Present

[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 synthesis, self-supervised feature learning, and 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.

## Internship

### 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".

### Research Assistant

Oct. 2015 - Nov. 2015

[Tencent YouTu Lab](#)

Evaluating Person Re-identification (RE-ID) algorithms in indoor scenarios. Developing a tracking annotation tool for the data annotation team based on some tracking algorithms.

### Algorithm Engineer

Jul. 2015 - Sep. 2015

[Alibaba \(Ant Financial\)](#)

Developing algorithms for intelligent customer service with natural language processing and data analyzing technology. The goal is to analyze the business data and improve the algorithm performance for some specific business.

## Projects

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### Visually analyzing traffic agent for autonomous platform

Oct. 2016 - Present

Developing scene understanding algorithms such as view extrapolation, depth estimation, future prediction for the autonomous platform.

### Person Re-identification System In Surveillance Environment

Jun. 2014 - Jan. 2016

The system associates individual who appears in non-overlapping surveillance camera views based on the "Pedestrian Detection -- Person RE-ID -- Interactive Rerank" framework. My work includes the design and implementation of the algorithms for Person RE-ID and Interactive Rerank.

## Selected Publications

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1. **Liqian Ma**, Stamatios Georgoulis, Xu Jia, and Luc Van Gool. "FoV-Net: Field-of-View Extrapolation Using Self-Attention and Uncertainty". (Under review).
2. 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).
3. **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.
4. **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.
5. **Liqian Ma\***, Siyu Tang\*, Michael J. Black, and Luc Van Gool. "Customized Multi-Person Tracker". In Asian Conference on Computer Vision (**ACCV Oral**), 2018. (\* Equal Contributions).
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 Spotlight**). 2018.
7. Qianru Sun\*, **Liqian Ma\***, Seong Joon Oh, Luc Van Gool, Bernt Schiele, and Mario Fritz. "Natural and Effective Obfuscation by Head Inpainting". In IEEE International Conference on Computer Vision and Pattern Recognition (**CVPR**). 2018. (\* Equal Contributions).
8. **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

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- 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

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1. Bin Li, Shaohong Lin, **Liqian Ma**, Fengchao Yang, Youhuan Long. "An intelligent LED lamp dimming method and system". National invention patent (Authorized). Patent No: 201210562955.7.
2. **Liqian Ma**, Xiangming Xu, Fengchao Yang, Weiqiao Zhen. "An intelligent parking lot guidance method and system". National invention patent (Authorized). Patent No: 201210356501.4.