Daiqian Ma

RESEARCH ENGINEER · PONY.AI

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Education

Peking University   *Sep. 2016 - Jul. 2019*

M.S. IN COMPUTER APPLIED TECHNOLOGY

- Advised by Prof. Lingyu Duan and Prof. Boxin Shi
- Research on computation art and photography

Xidian University   *Sep. 2012 - Jul. 2016*

B.S. IN COMMUNICATION ENGINEERING

- Excellent Class (acceptance rate: 1%)

Experience

Pony.ai   *Aug. 2019 - now*

RESEARCH ENGINEER

- Worked on perception algorithms in vehicles.

Texas Instruments   *Oct. 2015 - May. 2016*

INTERN

- Researched on algorithms (camera calibration, moving object detection and panoramic stitching) to improve the driving experience.
- Developed vision algorithms on vehicle chips like TDA2.x chip.

Publication

Learning to Jointly Generate and Separate Reflections. (ICCV2019)

Daiqian Ma, Renjie Wan, Boxin Shi, Alex Kot, Ling-Yu Duan

See Through the Windshield from Surveillance Camera Images. (ACM MM2019)

Daiqian Ma, Yan Bai, Renjie Wan, Ce Wang, Boxin Shi, Ling-Yu Duan

ChipGAN: A Generative Adversarial Network for Chinese Ink Wash Painting Style Transfer . (ACM MM2018)

Bin He, Feng Gao, Daiqian Ma, Boxin Shi, Ling-Yu Duan

From Part to Whole: Who is Behind the Painging? (ACM MM2017)

Daiqian Ma, Feng Gao, Yan Bai, Yihang Lou, Shiqi Wang, Tiejun Huang, Ling-Yu Duan

Honors & Awards

2019	**Excellent Graduate**, PKU	
2018	**Excellent Individual**, National Engineering Laboratory For Video Technology	
2017	**National Scholarship**, PKU	
2016	**Huawei Scholarship**, XDU	
2016	**Top 0.36%** , China Computer Federation Software Certification	
2015	**Finalist, top 0.28%** , The Mathematical Contest In Modeling	
2014	**Silver Medal**, ACM-ICPC Asia Regional Contest,	

Skills

Programming	Python, C/C++, Matlab, LaTeX
Framework	Tensorflow, Pytorch, Caffe, OpenCV

Projects

Daozi AI Painting System   *Nov. 2017 - Feb. 2019*

- Co-developed this AI painting system with deep learning and GAN-based technology. It might be the best Chinese ink wash style painting system in the world and it has been wildly reported by China CCTV1(**Link**), Singapore TV and so on.

Singadore Landmark Retrieval *Dev. 2017 - May. 2018*

- This project was from Singapore government, aims to search the famous Singapore landmarks with mobile app. I was responsible for the feature fusion part (CDVS feature and deep feature).