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#### **Education**

School of Software & Microelectronics, Peking University

Beijing, China

Master Student in Computer Technology

09/2019 - present

- Research interests: image generation, semantic segmentation.

School of Power and Mechanical Engineering, Wuhan University

Wuhan, China

B.S. in Energy Chemical Engineering

09/2015 - 07/2019

- Ranking first for consecutive three years. Excellent graduate award.

School of Computer Science, Wuhan University

Wuhan, China

Second B.S. in Computer Science

02/2017 - 07/2019

- GPA 3.91/4.0, ranking top 5%. Research assistant.

# Research Experience

#### NIS&P Lab, Wuhan University

Wuhan, China

Research Assistant

10/2017 - 06/2019

- Worked on autonomous driving, semantic segmentation and co-saliency detection, supervised by Prof. Qin Zou.

### **Publications**

Qin Zou, Hanwen Jiang, Qiyu Dai, Yuanhao Yue, Long Chen, and Qian Wang. "Robust Lane Detection From Continuous Driving Scenes Using Deep Neural Networks." IEEE Transactions on Vehicular Technology, 2019.

# **Selected Projects**

#### **GAN-based Automatic Iris Image Generation**

**Peking University** 

Machine learning course project

05/2020 - 06/2020

- Focused on modeling iris image generation as supervised image-to-image translation, which introduced conditional constraints to perform attribute-controlled synthesis.
- Built an end-to-end system based on pix2pix to handle interactive synthesis and mass-synthesis of iris data.
- Proposed an efficient and fast semi-automatic method for pre-processing iris image data.
- As the team leader, responsible for technology choices, system design, code implementation, etc., and was awarded the Excellent AI Algorithm Team by Microsoft Research Asia & ByteDance Expert Committee.

#### Lane Detection for Continuous Driving Scenes

NIS&P Lab, Wuhan University

Research project

03/2018 - 11/2018

- Aimed at the problem that lane cannot be accurately detected in extremely-bad driving scenarios of shadow, road mask degradation and vehicle occlusion.
- Proposed to investigate lane detection by using multiple frames of a continuous driving scene, and proposed a new hybrid deep architecture for seamlessly integrating the DRNN with DCNN in a semantic-segmentation manner.
- Demonstrated that the proposed method outperforms the competing methods in lane detection, especially in handling challenging situations.

#### **FUTURE CAMP 2018**

TAL AI Lab

The talent training program

08/2018

- Be chosen for the program out of 2,500 applicants (Top 8%).
- Designed a CTPN-based approach for handwritten Chinese text detection, and a 3D-ResNets-based module for video motion analysis, and won the *Excellent Project Award*.
- Built a complete end-to-end system for handwritten Chinese text detection and recognition which converts handwritten Chinese text in images into editable messages, based on the project achievements above.

## **Skills**

- Languages: Mandarin Chinese (Native), English (CET-6)
- **Programing Languages:** Python, C/C++
- o Tools: PyTorch, TensorFlow2, OpenCV3, LaTeX

# **Awards and Honors**

- o Excellent Graduate, Wuhan University, 2019
- o The Beijing CM Scholarship, Wuhan University, 2018
- The Goaland Scholarship, Wuhan University, 2017
- o Merit Student Award, Wuhan University, 2017
- o The Cnhili Scholarship, Wuhan University, 2016
- o The Relations Instruments Scholarship, Wuhan University, 2016
- o Excellent Student Award, Wuhan University, 2016, 2018
- o Excellent Student Scholarship, Wuhan University 2016, 2017, 2018