Ruihong Qiu 邱瑞鸿

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🏠 *https://ruihongqiu.github.io*

Education

2019–2022 (expected)	**PhD student in Computer Science**, *The University of Queensland*.
2014–2018	**B.E. in Detection Guidance and Control Technology**, *Beihang University*.

Publications

Rethinking the Item Order in Session-based Recommendation with Graph Neural Networks, *CIKM 2019*, **Ruihong Qiu**, Jingjing Li, Zi Huang, Hongzhi Yin.

Experience

07/2017–06/2018   **Research Intern**, *Horizon Robotics Inc.*
- Working with the Reinforcement Learning team to do research on autonomous driving.

09/2016–05/2017   **Research Student**, *LEVIR (a remote sensing image processing group in Beihang University)*.
- During the first half of this period, I began to do research and focused on scene text detection.
- Came up with a method that uses FCN to classify the image pixel-wisely as the basic step of the pipeline in the algorithm.
- During the latter part, I worked on remote sensing image semantic segmentation.
- Made our own labeled data set and applied some popular algorithms on these data.

07–09/2016   **Algorithm Engineer Intern**, *Swie Inc.*
- My first internship and used the Deep Learning knowledge that I learned to solve a real vision problem.
- Developed a vision detection and classification system for scolds on a PCB. We got the image of the PCB shone by lights with three colors.
- Extract the location of the scolds by the Gerber file and crop the image of a single scold.
- Made our own labeled data set with more than 10k images and solved the imbalance data problem.
- With later effort, this algorithm has been used during the manufacture process.

Project

Developed a GUI image processing software.
- As I took the Digital Image Processing course in my junior year, I implemented those algorithms that I learned in the class with C++ .
- Used classic MFC for the GUI part. For the algorithms, I implemented all in two ways, with or without OpenCV.

Skills

Matlab, Python, C++ , Caffe, TensorFlow.

Honors

The Twenty-fifth Fengru Cup Science and Technology Competition, *First Prize*.
China Undergraduate Mathematical Contest in Modeling, *First Prize*.
Beihang University Excellent Students Scholarship, *Third Prize*.