KEJIE LI

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EDUCATION

Doctor of Philosophy

University of Adelaide, Australia

• My PhD topic is object oriented Simultaneous Localization and Mapping (SLAM) with deep learning. The proposed object SLAM incorporates deep learning to reconstruct the environment at the object level so that the SLAM system can not only densely reconstruct the geometry structure of its surrounding like traditional dense SLAM does, but also parse the environment semantically, so that it can understand the environment like our human beings.

Bahelor of Advanced Computing (Honours)

the Australian National University, Australia

- · First Class Honours
- Thesis: Improved CNN Regression Model for Depth Estimation from a Single Image
- · Award: International University Partnership Award, 2014

Bahelor of Computer Science

Shandong University, China

- · Avg Grade 91
- · 2 times First Class National Scholarship, 2012-2014

WORK EXPERIENCE

Research Intern Facebook Reality Lab Publication to be disclosed

Teaching Assistant

University of Adelaide

Tutoring for Foundation of Copmuter Science (FCS). I was responsible for teaching Object Oriented Programming and demonstrating programming in small groups.

Teaching Assistant

the Austrlian National University

Tutoring for COMP6730: Programming for Scientists, a python programming course for students from various disciplines.

Software Developer

the Austrlian National University

In this project, I worked under Dr. David Heslop. We have developed a standalone Bayesian Principal Component Analysis tool in Matlab for geologists to estimate the direction of line to a sequence of demagnetisation data for an individual specimen.

September 2019 - February 2020

February 2019 - July 2019

February 2017 - Present

July 2014 - July 2016

September 2012 - July 2014

July 2016 - Octobor 2016

January 2016 - March 2016

Research Assistant

the Austrlian National University and Data61

I was supervised by Dr. Norman Warthmann and Dr. Christfried Webers in this project. We tried to design a new data structure to store DNA sequence more efficiently where we applied unsupervised learning framework such as autoencoder to help biologists analyzing the information of DNA.

PUBLICATION

- Kejie Li, Ravi Garg, Ming Cai, Ian Reid, "Optimizable Object Reconstruction from a Single View", BMVC 2019 (oral)
- Mehdi Hosseinzadeh, **Kejie Li**, Yasir Latif, Ian Reid, "Real-time Monocular Object-model Aware Sparse SLAM", ICRA 2019
- Kejie Li, Trung Pham, Huangying Zhan, Ian Reid, "Efficient Dense Point Cloud Object Reconstruction using Deformation Vector Fields", ECCV 2018
- Huangying Zhan, Ravi Garg, Chamara Saroj Weerasekera, **Kejie Li**, Harsh Agarwal, Ian Reid, "Unsupervised Learning of Monocular Depth Estimation and Visual Odometry with Deep Feature Reconstruction", CVPR 2018

REFERENCES

Prof. Ian Reid

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Prof. Stephen Gould

the Australian National University Email - stephen.gould@anu.edu.au Phone +61 2 6125 8642