

Ruikai Cui

Curriculum Vitae



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EDUCATION

- 2019 – NOW **BEng in Advanced Computing**
GPA: 84.3/100 or 7.0/7.0
The Australian National University
- 2017 – 2019 **BEng in Computer Science and Technology**
GPA: 90.2/100
Shandong University

EXPERIENCE

Future Cup Supernova Search Challenge MAR 2019 – APR 2019 *Team Leader*

Responsibilities include:

- Cooperate with team members
- Do literature review about Supernova Recognition
- Process a dataset with over 15,000 images and implement a CNN model to find potential supernova

Shandong University DEC 2018 – MAR 2019 *Research Assistant*

Responsibilities include:

- Work with the team and provide IT support
- Develop a no-reference image quality evaluation module using OpenCV in C++
- Automate a Laser-Induced Breakdown Spectroscopy (LIBS) System

PROJECTS

LIBS Autofocus System

An autofocus system for Laser-Induced Breakdown Spectroscopy (LIBS), which implemented using techniques include a no-reference image quality evaluation algorithm and the Least-Square Regression method. [Link](#)

De-Centralized Vehicle Movement Control System

An assignment of COMP2310, implemented in Ada. A robust method for coordinating vehicles in 3D space is proposed in this project. [Link](#)

Bidirectional Residual Declarative Network

A reliable framework for robust facial expression recognition. The basic architecture for the framework is ResNet-18, in combination with a declarative L_p sphere/ball projection layer and a bidirectional fully connected (FC) layer. [Link](#)

ACCOMPLISHMENTS

- JAN 2020 **Deep Learning Specialization**
Coursera
- MAR 2019 **Province-Level Second Prize**
LanQiao Programming Competition
- SEPT 2018 **First Scholarship of University**
Shandong University

SKILLS

- FAMILIAR Java, R, Git, \LaTeX
- PROFICIENT C++, Python, HTML, Ada, Matlab
Linux, Bash
- LANGUAGES English, Mandarin

COURSES

- Computer Vision
- Introduction to Machine Learning
- Algorithm
- Systems, Networks and Concurrency
- Neural Networks, Deep Learning and Bio-inspired Computing
- Database System
- Principle of Computer Organization