YOUZHI LUO

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EDUCATION

Ph.D.   September 2019 - Present

Texas A&M University

- Enrolled in department of computer science & engineering

B.E.   September 2015 - August 2019

University of Science and Technology of China

- Enrolled in department of automation, school of information science and technology
- GPA: 3.9/4.3, 91.22/100
- Ranking in Department: 3/111

EXPERIENCE

Research Internship   February 2019 - May 2019

Leibniz University Hannover   *Advisor: Prof. Dr.-Ing. Jorn Ostermann*

· **Project Objective: Develop a gene sequence compression system**

- Designed a novel gene sequence compression algorithm with deep recurrent neural network.
- Developed the system with Python and Keras package.
- Significantly improve the algorithm's compression efficiency with attention mechanism.

Research Internship   July 2018 - August 2018

University of Sydney   *Advisor: Prof. Dacheng Tao*

· **Project Objective: Develop a garbage detection system for robot**

· **Phase1 Prepare and algorithm design**

- Quickly acquired basic knowledge about deep learning by taking online course.
- Learned basic programming technology about deep learning API Pytorch.
- Read papers to learn about latest object detection algorithm and chose YOLO v3 algorithm as implementation algorithm for the research task.

· **Phase2 Programming and experiments**

- Wrote code to implement YOLO v3 algorithm and got pre-trained model by training on PASCAL VOC data set.

- Built garbage data set from collected garbage images and fine-tuned the pre-trained model using garbage data set.

- Developed and integrated garbage detection program in robot system.

- Tested the detection program in the laboratory.

Robot Contest   August 2017 - September 2017

University of Science and Technology of China

· **Project Objective: make a robot that can complete the task of carrying boxes**

- Undertook all software design and development work during the whole project.

- Designed control algorithm for the robot to enable it to move to a right position and lift or drop boxes smoothly.

- Wrote code in C language to implement designed control algorithm in Arduino environment.

- Tested the robot and modified design and codes to make the robot work well.

- Won third prize via close cooperation with team members.

Exchange Study in USA   June 2017 - August 2017

University of Washington   *Electrical Engineer International Intensive Program*

- Took three courses and finished all coursework smoothly.

- Visited some famous companies in Seattle, including Microsoft, T-mobile and Fluke.

- Successfully finished first overseas study life and made excellent academic performance.

TECHNICAL SKILLS

Programming	C, C++, Java, Python, MATLAB
Database	MySQL
Software	Vim, LaTex