Ruiyang Zhao

Major: Biomedical Engineeering

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Date of Birth:	July. 1998	Junior student	

Education

Shenzhen Nanshan Experimental Kirin Primary School 09/2004-06/2010

Shenzhen Nanshan Experimental Qilin Middle School 09/2010-06/2013

Shenzhen Experimental High School 09/2013-06/2016

Shanghai Jiaotong University 09/2016-present
Major: Biomedical Engineering

Project and contest experience

A universal multifactorial visualized detection system 12/2016-11/2017

- International Genetically Engineered Machine Competition (IGEM): Gold medal
- Use a technology called "Star" to regulate the expression of E.coli
- Engineering bacteria can detect heavy metal ions in wate

Controllable synthesis of multicomponent nanocomposites with hierarchical architecture 10/2016-09/2017

- Participation in Research Program
- Preparation of nanostructured materials with different compositions using natural biomaterials(wings of butterfly) as matrix templates

Parameter Collection and Monitoring System of Animal Living Environment based on Internet of Things 09/2017-12/2018

- Undergraduate Training Programs for Innovation and Entrepreneurship
- Use Sensor Tag CC2650 to collect data
- Develop an App based on Android to show the data
- Use Cloud server

Construction of Object Detection System for Body Segments Based on Face Recognition 04/2018-present

- Participation in Research Program
- Use Full convolutional neural network U-net to detect organs in X-ray films
- Use Yolo v3(An algorithm for target detection) to detect human body segments

Skills

- Matlab
- Python(Tensorflow, Numpy, Pandas)
- C++

Interest

- Jogging
- Photography
- Volunteer work