

# Shao Qi

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## Education

### Zhejiang University

Optical Science and Engineering

• Rank **2 / 145** with GPA **91.20 / 100**

• Expect Graduation Date **July 20th, 2020**

Hangzhou, China

Sep. 2016 - Present

### The Chinese University of Hong Kong

Summer internship for Elite Students

• Research internship at CUHK, advised by Prof. Shih-Chi CHEN

Hong Kong, China

Jul. 2019 - Sep. 2020

## Honors & Awards

2019 **National Scholarship** (Top 0.2% across China)

Beijing, China

2018 **National Scholarship** (Top 0.2% across China)

Beijing, China

2019 **Tang Lixin Scholarship** (Top 31 of all 6,000 undergraduates)

The Shinesun - Technology Group

2018 **Zhejiang Provincial Government Scholarship** (Top 0.1% across Zhejiang Province)

Zhejiang, China

2019 **First-class Outstanding Student Scholarship** (Top 3% across major undergraduate students)

Hangzhou, China

2019 **First-class Academic Scholarship** (Top 3% across major undergraduate students)

Hangzhou, China

2019 **First prize in National University Student Science Contest on Energy Saving** (The captain of a team of eight)

Beijing, China

2019 **Silver medal in International Exhibition of Inventions of Geneva** (The captain of a team of eight)

Geneva, Switzerland

## Research Experience

### The Traffic Sign Recognition Realized on The Mechanical Car Based on Neural Network

Zhejiang University

Mar. 2018 - Apr. 2019

INSTITUTE OF INTELLIGENT SYSTEMS AND CONTROL ADVISOR: PROF. DONGQIN FENG

- Realized the neural network of traffic sign recognition on the TensorFlow platform with python.
- Through the training, the network reached close to 95% accuracy on the test set, and achieved 96% on the validation set.
- Imported the trained architecture into the Raspberry Pi to drive the car, so that the car completed the traffic sign.

### An Intelligent Expert of Energy Prognosis for Heating Ventilation Air-Condition System (HVAC)

Zhejiang University

Sep. 2018 - Aug. 2019

CHEMICAL MACHINERY RESEARCH INSTITUTE ADVISOR: Lec. NING CHU

- Completed the preparation of infrared sensor software with MFC.
- Realized the infrared image receiving and display, high temperature alarm, high temperature curve dynamic display, ect.
- The whole system got the Silver medal in International Exhibition of Inventions of Geneva and
- The system also got the first prize in National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction.

### Wide-Spectrum Beam Shaping in DMD

Chinese University of Hong Kong

Jul. 2019 - Sep. 2019

DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING ADVISOR: PROF. Shih-chi CHEN

- Achieved the wide-spectrum dispersion compensation for 750nm to 1050nm femtosecond laser light in DMD.
- Quantitatively calculated the diffraction loss of the blazed grating, providing a important and helpful reference for constrution of the dispersion compensation optical path in two-photo etching machine.

## Skills & Hobbies

**Programming Language** C/C++, Matlab, Python

**Development skills** Embedded System, Zemax, SolidWorks, Multisim, Altium Designer, OpenCV, Tensorflow

**Hobbies** Table tennis, Travelling, Running, Mountaineering

## Extracurricular Activity

### Volunteer Experience

Oct. 2017 **Volunteer of West Lake**, Offered advice and help to tourists

Hangzhou

Jan. 2017 - Oct. 2016 **Volunteer of Hangzhou Museum**, Offered advice and help to tourists

Hangzhou

### Student Social Work

Sep. 2016 - Jun. 2018 **Vice minister of Arts Development Center, ZJU**, organized school sports meeting, New Year party and concert

Hangzhou

Oct. 2016 - Jun. 2018 **Vice President of the classical music club, ZJU**, organized courses about classical music appreciation

Hangzhou

### Social Practice

Oct. 2017 - Jun. 2018 **Changchun Institute of Optics and Physics, Chinese Academy of Sciences**, Visited, attended lectures

Changchun