

## Education

### **University of Edinburgh**

Sep 2015 - Jun 2019

Degree obtained: Physics MPhys (Hons), Second Class, Division 1.

Degree projects:

MPhys Project: Measuring Triple Product asymmetries in  $B_s \rightarrow \phi\phi$  decays.

- Experimental particle physics. Data Analysis with the CERN ROOT toolkit.

Senior Honours Project: How Bacteria form 3D Structures (Publication in preparation).

- Biological physics. Data analysis in Python.

### **Lund University** Erasmus exchange (Lund, Sweden)

Aug 2016 – Jun 2017

### **Shandong Agricultural University** (Shandong, China)

2011 – 2015

Bachelor of Agriculture. Major: Soil and Water Conservation and Desertification Control.  
Graduated as “Provincial Outstanding Graduate”, GPA ranked first.

Bachelor’s thesis: Effects of Salt Stress on Photosynthetic Characteristics of *Ulmus Pumila*.

Research Experience: Leader of the Student Research Training project: Afforestation in Coastal Saline-Alkali Area and its Influence on the Hydrological Characteristics and the Fractal Dimension of the Soil.

## Computational Skills

Familiar with Python, basic C++, Java, HTML, CSS and JavaScript. Basic MySQL.

Familiar with LINUX, Windows and Mac system.

Designing software: Photoshop, AutoCAD.

## Other Courses and Projects

### **Modelling and Visualisation in Physics**

- Coding in Python to simulate physics problems. Topics: Monte Carlo Method, modelling of disease spreading (SIRS model), game of life, using finite difference method to simulate physics phenomenon described by differential equations.

### **Data Acquisition and Handling**

- Controlling electronics built on breadboard with code written on Raspberry-Pi in Python; data analysis; project: Building a Synthesizer.

### **Atomic and molecular physics**

- Labs included: Zeeman effect, diode laser spectroscopy, two electron systems.

### **Group Project, Quantum mechanics**

**Practical Physics** - Conducting experiments, analogue and digital circuits

## Academic Community & Outreach

### **Physics Peer Mentoring Scheme**

Sep 2017 - Apr 2019

- Mentor. Obtained Edinburgh Award.
- Mentoring 1st/2nd year students, help them with their study and university life.

### **Sci-Fun event and “Mutants in our Gardens” event**

Jul 2018

- Assistant in these public engagement activities, duties include explaining the principles of science toys, interactive activities and help the general public (all ages) to play with them.

### **University of Edinburgh open day**

- Assistant. Duties: signposting, assisting interactive events, answering questions about the university.

### **University of Edinburgh welcome week**

Sep 2017

- Arrange and setup events, offer various types of help to new students.
- Leading tours (to tourist spots, local cafes, etc.).

### **Science Festival**

Mar 2016

- Assistant. Doing demonstrations in the kaleidoscope exhibition and Sci-Fun events.

## Languages

Chinese (Mandarin, native), English (Fluent), Swedish (Intermediate), German (Beginner)

## **Earlier Experiences**

### Awards

Second Grade Scholarship for Excellent Student	2014
First Grade Scholarship for Excellent Student	2013
Individual Award of Cultural and Sport Activities, Merit Student	
LiangYutang Scholarship, Ailin Scholarship	
Merit Student, Third Grade Scholarship for Excellent Student	2012

### Extracurricular Experiences

Started small business: selling groceries on a stall in campus.	2014
Vice minister of Photography Department in the College News Agency	2013-14
- Published an article on the University Newspaper.	
Coach of Modern Drama Troupe	2012-13
- Main actor in a drama performed at the Welcome Party for Freshmen	
Member of Sign Language Association	2012
Electronic organ player in band	2011-12
Singer at the Welcome Party for Freshmen, member of college choir	

### Extracurricular Interests

Piano, handicraft, making metal jewellerys, collecting stones, reading, swimming, hiking.