

## EDUCATION

### University of Science and Technology of China

Bachelor's degree in Astronomy/Astrophysics  
 School of Physical Sciences

Wang Shouguan Talent Program in Astronomy  
 August 2017 - July 2021

## RESEARCH EXPERIENCE

*Radiative turbulent mixing layers with weak cooling at high Mach numbers*  
 (expected to be submitted to MNRAS by Jan 15 2022)

**California Institute of Technology** (online)

Summer 2020 - current

Mentored by

**Suoqing Ji** suoqing@caltech.edu

**Philip F. Hopkins** phopkins@caltech.edu

*Hydrodynamic simulations of turbulent mixing layers of galactic winds* (Bachelor's Thesis)

**University of Science and Technology of China**

Winter 2020 - Spring 2021

Mentored by

**Suoqing Ji** suoqing@caltech.edu

**Xu Kong** xkong@ustc.edu.cn

*Numerical simulations for estimating the number density of direct-collapse seed black holes (exploration of methods)*

**Yunnan Observatories, Chinese Academy of Sciences**

Summer 2019

Mentored by

**Xiaobo Dong** xbdong@ynao.ac.cn

## COURSEWORK & GRADES

Major GPA: **3.93/4.3** (100-Point: **90.65/100**, from the courses listed below.)

Overall GPA: 3.74/4.3 (100-Point: 88.38/100)

Course Title	Score	Course Title	Score
The Theory of General Relativity	98	Galactic Astronomy	90
Introduction to Astromechanics and Astrometry	95	Thermodynamics and Statistical Physics	100
Optics	94	Observational Astronomy	92
Thermal Physics	91	Theoretical Mechanics A	88
Introduction to Astronomy	95	Electrodynamics	93
Atomic Physics	92	Space and Time	90
Observational Astrophysics	85	Introduction to Astrophysics	86
Quantum Mechanics B	82	Foundation of Stellar Physics	85
Astro- Software and Programming Tech	92	Mechanics	86

## VISITS

**Shanghai Astronomical Observatory, Chinese Academy of Sciences**

Jan. 2020

**Five-hundred-meter Aperture Spherical Telescope (FAST)**

July 2019

## AWARDS & HONORS

NAOC Scholarship (National Astronomical Observatories, Chinese Academy of Sciences) 2020  
 National Encouragement Scholarship 2020  
 Outstanding Student Scholarship (Grade 3) 2019  
 Zhang Zongzhi Sci-Tech Scholarship 2018

## SKILLS

Programming languages	<i>C</i> , <i>Python</i> (Numpy, Scipy, Matplotlib, yt), <i>Fortran</i>
Codes for numerical simulations	<i>FLASH</i> , <i>GADGET</i> , <i>RAMSES</i>
Document preparation	<i>Markdown</i> , <i>L<sup>A</sup>T<sub>E</sub>X</i> , <i>HTML</i>
Technical computing	<i>Mathematica</i>
Image tools	<i>ds9</i>
Graphing utilities	<i>Origin</i> , <i>Gnuplot</i> , <i>IDL</i>
Graphical system design	<i>Labview</i>
Other softwares	<i>AutoCAD</i> , <i>ZEMAX</i> , <i>Gaussian</i>