

JIA LU

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EDUCATION

University of Science and Technology of China

Hefei, China

Master of Science in Astronomy; GPA: 3.08/4.30

Sept. 2016 - May 2021

Thesis: High-Redshift Type Ia Supernovae ($z=2.6$) on Cosmological Parameter Estimation and Model Selection

Supervisor: Prof. Lifan Wang

Core Disciplines: General Relativity and Cosmology, Astronomical Data Analysis, Stellar Structure and Evolution, Radiative Processes in Astrophysics, Galactic Astronomy, Observational Astronomy, Cosmology, Theoretical Mechanics, Electrodynamics, Quantum Mechanics, Thermodynamics and Statistical Physics

Chongqing University

Chongqing, China

Bachelor of Engineering in Environmental Science; GPA: 3.12/4.00

Sept. 2011 - June 2016

Thesis: Study of the Technology System of River Wetland Restoration – Huxi River Area as a Case Study

Advisor: Prof. Xingzhong Yuan

Core Disciplines: Physical Chemistry, Organic Chemistry, Analytic Chemistry, Foundation of Life Science, Descriptive Geometry, Principle of Electricity, Engineering Mechanics, Fluid Mechanics and Hydrodynamics, Environmental Geology Geography, Environmental Engineering CAD, Instrumental Analysis, Environmental Microbiology, Environmental Monitoring, Environmental System Analysis, Air Pollution Control Engineering, Water Pollution Control Engineering, Treatment and Disposal of Solid State Waste, Environmental Regulation and Law

RESEARCH EXPERIENCE

Constraints on Cosmological Parameters with a Sample of Type Ia Supernovae from JWST

Supervisor: Prof. Lifan Wang

Purple Mountain Observatory, Chinese Academy of Science

May 2018 - Dec. 2020

Course Project: The CMB Temperature Power Spectra with Varying Dark Energy Equation of State w

Advisor: Prof. Wenjuan Fang

University of Science and Technology of China

Feb. 2020 - July 2020

Journal Club Talk: The Standard Siren Measurement of the Hubble Constant

Advisor: Prof. Li Ji; Prof. Lifan Wang

Purple Mountain Observatory, Chinese Academy of Science

Jan. 12th, 2018

Journal Club Science News: A Brief Story of AlphaGo Zero

Advisor: Prof. Li Ji

Purple Mountain Observatory, Chinese Academy of Science

Oct. 19th, 2017

Professional Internship in Waste Treatment and Disposal Centers and Industries

Advisor: Prof. Peili Lu

Chongqing University, China

Jan. 4th - 15th, 2016

Term Paper: Environmental Impact Assessment in Electroplating Production Lines

Advisor: Prof. Li-ao Wang

Chongqing University, China

Sept. 2015 - Jan. 2016

Project: Diversity of Birds in the Universities of Chongqing College City

Advisor: Prof. Xingzhong Yuan

The Group Of Green Youth Volunteers, Chongqing University, China

May 2012 - Oct. 2012

- **Investigation:** Investigating, photographing and Recording the quantities and species of the birds
- **Final Report:** Reducing the data; Searching in library and on Internet; Identifying the species; Writing the final report; Presentation

Project: Guidebook for Appreciation of Plants in Huxi Campus of Chongqing University

Advisor: Prof. Xingzhong Yuan

The Group Of Green Youth Volunteers, Chongqing University, China

Nov. 2011 - July 2012

- **Investigation:** Investigating, photographing and recording the species and quantities of the plants
- **Guidebook:** Reducing the data; Searching in library and on Internet; Identifying the species; Writing the guidebook

COMPUTER SKILLS

- Systems: **Linux**, **Windows**
- Programming Languages: **Python**, **C**
- Softwares: **Mathematica**, **Vim**, **AutoCAD**

LANGUAGE SKILLS

- Chinese: **Native** (National PuTongHua ShuiPing CeShi **A- Level**)
- English: **Fluent** (IELTS **6.5**: Listening 6.0, Reading 7.5, Writing 6.0, Speaking 5.5)

SELECTED AWARDS

- 2017, "**Reciting Talent**" **Prize** in the "FLTRP Cup" English Classics Reciting Contest between **University Libraries Nationwide**
- 2016, **Second Prize Award** in the **USTC Final** of the 2016 "**FLTRP Cup**" **English Reading Contest**
- 2013, "**Qiushi**" **Scholarship** in Chongqing University
- 2012 - 2013, **Third Prize of Comprehensive scholarship for Outstanding Students** in **Chongqing University**
- 2012, "**Qiushi - Biru Liu**" **Scholarship** in Chongqing University

ADDITIONAL INFORMATION

- May 2019 - Present, **Volunteer Translator** at the **Global Translator Community** of Coursera: *Data-driven Astronomy*
- Nov. 11th, 2018, **Nanjing Marathon** 5 km Mini-Race (35 min 11 sec)
- Sept. 2018 - Jan. 2020, **Painter** at **Brushstroke Painting Club** of **Nanjing University**
- Sept. 2013 - July 2014, **Commissary in Charge of General Affairs** in the Class of Environmental Science at **Chongqing University**
- Hobbies: Drawing, Reading, Gardening, Running, Table Tennis