# **Curriculum Vitae/Resume**

Ruocheng Zhai Astronomy

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## **Education**

2020 - present **Tsinghua University**, Beijing, China

**B. S. Physics** (Expected June 2024)

**GPA**: [3.86/4.0]

**Relevent Coursework**: Observational Astronomy, High Energy Astrophysics

2017 - 2020 **Chongqing Nankai Secondary School**, Chongqing, China

### **Honors and Awards**

2023 Visiting Undergraduate Research Program Fellowships, Caltech

2022 Comprehensive Excellence Scholarship, Tsinghua University

2022 Academic Excellence Scholarship, Tsinghua University

2020 Freshman Scholarship, Tsinghua University

### **Publication**

- [1] **Zhai, R.**, Poleski, R., Zang, W., et al. 2023, submitted to AJ, <u>arXiv:2312.08635</u> *OGLE-2017-BLG-0448Lb: A Low Mass-Ratio Wide-Orbit Microlensing Planet?*
- [2] **Zhai, R.**, Rodriguez, A. C., Lam, C. Y., et al. 2023, submitted to ApJ, arXiv:2311.18627

Microlensing Events in Five Years of Photometry from the Zwicky Transient Facility

## **Research Experience**

2023/07 - 2023/10 VURP Fellow, California Institute of Technology, CA, USA

Search for ZTF microlensing events in DR17

Analyze JWST background field emission lines

Advisors: Shrinivas R. Kulkarni & Charles A. Beichman

2022/01 - 2023/06 Undergraduate Researcher, Tsinghua University, Beijing, China

Analyze KMTNet planetary microlensing events

Advisor: Shude Mao

# **Presentations and Talks**

2023/10 ZTF II 5th Science Meeting, Pasadena, CA
 A Systematic Search for Microlensing Events in ZTF DR17

 2023/08 Caltech SURF Final Presentation, Pasadena, CA
 Progress in Searching for ZTF Microlensing Events

# **Service**

2021/06 - 2022/07	Enrollment volunteer of Tsinghua University at Chongqing
	Help high school students learn majors and departments of Tsinghu
2021/03 - 2021/07	Outfield Work at Vaccination Spots, Tsinghua University
	Provide outfield services for students at vaccination spots
2020/11 - 2020/12	Group Review, Tsinghua University
	Give lectures to fellow students to help review knowledge for final ex
2020/10 - 2022/04	Campus Services, Tsinghua University
	Clean the campus lawn and activity rooms
2020/09 - 2021/06	Profound Bond with Alma Mater, Tsinghua University
	Make posters, write articles, and give speeches to solve concerns of

# Skills

- **Programming**: Python (Numpy, emcee, scipy, Jupyter Notebook), C++, Mathematica, Unix/Linux, LATEX.
- Languages: English (advanced), Chinese (native).