

# Ruocheng Zhai

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<https://ruochengzhai.github.io>

## Education

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2020 - present    **Tsinghua University**, Beijing, China  
                    **B. S. Physics** (Expected June 2024), GPA: [3.86/4.0]  
                    **Relevant Coursework:** Observational Astronomy, High Energy Astrophysics ...  
2017 - 2020      **Chongqing Nankai Secondary School**, Chongqing, China

## Honors and Awards

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2023    Visiting Undergraduate Research Program Fellowships, Caltech  
2022    Comprehensive Excellence Scholarship, Tsinghua University  
2022    Academic Excellence Scholarship, Tsinghua University  
2020    Freshman Scholarship, Tsinghua University

## Research Experience

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2023/07 - 2023/10    VURP Fellow, California Institute of Technology, CA, USA  
                            *Search for ZTF microlensing events*  
                            *Analyze JWST background field emission lines*  
                            Advisors: Shrinivas R. Kulkarni & Charles A. Beichman  
2022/01 - 2023/06    Undergraduate Researcher, Tsinghua University, Beijing, China  
                            *Analyzing KMTNet planetary microlensing events*  
                            Advisor: Shude Mao

## Presentations and Talks

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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 ZTF Microlensing Events*

## Skills

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- **Programming:** Python (Numpy, emcee, scipy, Jupyter Notebook), C++, Mathematica, Unix/Linux,  $\text{\LaTeX}$ .
- **Languages:** English (advanced), Chinese (native).