

Ruocheng Zhai

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Education

- 2024 - present Department of Astronomy & Astrophysics, Penn State, USA
 Ph.D. student
- 2020 - 2024 Department of Physics Tsinghua University, China
 B.S. Physics. Advisor: Shude Mao

Honors and Awards

- 2025 University Graduate Fellowship, Penn State
- 2024 Paul M. Doty Distinguished Graduate Fellowship, Penn State
- 2023 Visiting Undergraduate Research Program Fellowships, Caltech

Publication

- [1] **Zhai, R.**, Lee, M., Gan, T., et al. 2025, ApJ, [10.3847/1538-4357/adf557](https://doi.org/10.3847/1538-4357/adf557)
Dynamical Instability of Multiplanet Systems and Free-floating Planets
- [2] **Zhai, R.**, Rodriguez, A. C., Mao, S., et al. 2025, ApJ, [10.3847/1538-4357/ad94e7](https://doi.org/10.3847/1538-4357/ad94e7)
Microlensing Events in Five Years of Photometry from the Zwicky Transient Facility
- [3] Gui, Y., Zang, W., **Zhai, R.**, et al. 2024, AJ, [10.3847/1538-3881/ad4ce5](https://doi.org/10.3847/1538-3881/ad4ce5)
Systematic KMTNet Planetary Anomaly Search. XII. Complete Sample of 2017 Subprime Field Planets
- [4] **Zhai, R.**, Poleski, R., Zang, W., et al. 2024, AJ, [10.3847/1538-3881/ad284f](https://doi.org/10.3847/1538-3881/ad284f)
OGLE-2017-BLG-0448Lb: A Low Mass-Ratio Wide-Orbit Microlensing Planet?

Presentations and Talks

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

Skills

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