

Zijian Zhang

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EDUCATION

- **PhD student in Astronomy, Peking University, Beijing, China** Sept 2023 - Present
Advisor: Linhua Jiang
- **BS in Astronomy, Nanjing University, Jiangsu, China** Sept 2019 - June 2023
Thesis Title: Multi-object spectroscopic survey of AGNs in the XMM-LSS field
Advisor: Bin Luo, Linhua Jiang

RESEARCH INTERESTS

Multi-wavelength characteristics of AGNs and their host galaxies, the evolution of high-redshift AGNs, machine-learning/data-driven astrophysical research

PUBLICATIONS

All papers on [ADS Link](#); 7 first-author and 10 contributing-author papers

First Author

1. **Zhang, Z.**, Li, M., Oguri, M., et al. 2025, *Little red dot variability over a century reveals black hole envelope via a giant Einstein cross*, submitted
2. Fu, S.^{*}, **Zhang, Z.**^{*}, Jiang, D., et al. 2025, *Discovery of two little red dots transitioning into quasars*, submitted
^{*} These authors contributed equally.
3. **Zhang, Z.**, Jiang, L., Liu, W., et al. 2025, *JWST Insights into Narrow-line Little Red Dots*, submitted
4. **Zhang, Z.**, Jiang, L., Liu, W., et al. 2025, *Analysis of Multi-epoch JWST Images of ~ 300 Little Red Dots: Tentative Detection of Variability in a Minority of Sources*, *ApJ*, 985, 119
5. **Zhang, Z.**, Luo, B., Jiang, L., et al. 2025, *On the Extremely X-Ray Variable Active Galactic Nuclei in the XMM-LSS Field*, *ApJ*, 983, 36
6. **Zhang, Z.**, Yin, Y., Wang, C., et al. 2023, *GRB 220408B: A Three-episode Burst from a Precessing Jet*, *RAA*, 23, 11
7. **Zhang, Z.**, Luo, B., Brandt, W. N., et al. 2023, *XMM-Newton Observations of Two Archival X-Ray Weak Type 1 Quasars: Obscuration Induced X-Ray Weakness and Variability*, *ApJ*, 954, 159

OBSERVATION & DATA REDUCTION EXPERIENCE

- ~ 8 nights 4 m Nicholas U. Mayall Telescope, DESI (remote observation)
- **JWST DATA Reduction:** NIRCIm Imaging and WFSS, NIRISS imaging, grism and NIRSpec MOS
 - **X-ray DATA Reduction:** Chandra (based on ciao), XMM-Newton (based on SAS), XSPEC analysis

SCIENTIFIC PRESENTATIONS

1. **Talk**, EREBUS & COSMOS-3D collaboration meeting, Bologna 06/2025
2. **Talk, Poster — Outstanding Poster Award**, Guoshoujing Symposium, Changsha 05/2025
3. **Talk — Outstanding Oral Presentation Award**, Symposium on Galaxy Evolution and Cosmology with CSST, Suzhou 11/2024
4. **Talk**, AGN Feedback Symposium, Shanghai 10/2024
5. **Talk**, EREBUS collaboration meeting, Hilo 09/2024

HONORS AND AWARDS

- **Presidential Scholarship**, Peking University, 1/100 2025
- **Liqibin Scholarship**, Peking University 2024
- **Lin-bridge Prize for Excellent Undergraduate Research (First Prize)**, Peking University 2023
- **Outstanding Graduate** of Nanjing University 2023
- **First Prize** of Jiangsu Province Outstanding Undergraduate Thesis, 1/300 2023
- **Top Award** of the Dongliang Scholarship, Nanjing University, 1/1000 2022
- **Provincial Merit Student**, Jiangsu Province, 1/100 2022
- **National Scholarship**, Ministry of Education, 1/50 2021

MENTORSHIP

- **Yihe Wang & Chenxi Bao**, Peking University, Undergraduate, 2025-present

SERVICES

- **Referee**, *ApJL*, 2025-present
- **Organizer**, lunch discussion in KIAA, 2025-present
- **Undergraduate Class Advisor for the 2024 Honors Class**, School of Physics, Peking University, 2024-present