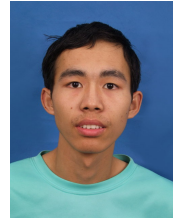


# 吕兵 Lyu Bing

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## Employment

2022 – ···· 📖 **Postdoc** The Kavli Institute for Astronomy and Astrophysics (KIAA) at Peking University.

## Education

2016-09 to 2022-06 📖 **Ph.D. student (Astrophysics)** Huazhong University of Science and Technology  
Thesis title: *Multi-wavelength variability and spectral evolution of changing-look active galactic nuclei.*

2012-09 to 2016-06 📖 **Undergraduate (Physics)** Huazhong University of Science and Technology

## Collaborators

Supervisors: Qingwen Wu (HUST)  
Wenfei Yu (SHAO)  
Xuebing Wu (PKU)

Co-authors: Zhen Yan (SHAO)  
Hao Liu (UTSC)

## Skills

Languages	Reading, writing and speaking competencies for English
Data reduction	UV/X-ray (Swift/XMM/Nustar/Chandra) Radio imaging (VLA, MWA)
Analysis	Spectral fitting (heasoft, BXA) Timing analysis (stingray, Javelin, pyccf, lomb-scargle ) Catalog cross-match (astroML)
Tools	Python, L <sup>A</sup> T <sub>E</sub> X, astropy, astroquery, pymongo, UltraNest

## Research Interests

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CLAGN	mechanism of optical and X-ray Changing-Look AGN link between XRB's state transition and CLAGN's evolution of accretion state
component of AGN	Study the size, structure, and evolution of the accretion disk, BLR and torus of AGNs over different luminosity using timing and spectral analysis
Search special	Search the restarted or dying AGNs using multi-waveband data Study variability of special AGNs or transients in low-frequency radio band using MWA and other wide field-of-view telescope

## Research Publications

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### Journal Articles

- 1** Liu, H., Wu, Q., & **Lyu, B.** (2022). Coevolution of Broad Emission Lines and X-Ray Spectrum in Changing-look AGNs. *ApJ*, 930(1), 46. [doi:10.3847/1538-4357/ac5fa5](https://doi.org/10.3847/1538-4357/ac5fa5). arXiv: 2206.02011 [astro-ph.HE]
- 2** **Lyu, B.**, Wu, Q., Yan, Z., Yu, W., & Liu, H. (2022). WISE View of Changing-look Active Galactic Nuclei: Evidence for a Transitional Stage of AGNs. *ApJ*, 927(2), 227. [doi:10.3847/1538-4357/ac5256](https://doi.org/10.3847/1538-4357/ac5256). arXiv: 2202.02718 [astro-ph.HE]
- 3** **Lyu, B.**, Yan, Z., Yu, W., & Wu, Q. (2021). Long-term and multiwavelength evolution of a changing-look AGN Mrk 1018. *MNRAS*, 506(3), 4188–4198. [doi:10.1093/mnras/stab1581](https://doi.org/10.1093/mnras/stab1581). arXiv: 2106.03059 [astro-ph.HE]