Yuxuan Pang

The Kavli Institute for Astronomy and Astrophysics, Peking University

No.5 Yiheyuan Road, Haidian District, Beijing 100871, P.R.China

Website: yuxuanpang.github.io | Email: pyx_s2@pku.edu.cn

Education

September 2019 − Present	Peking University, Beijing, China
	Ph.D. candidate, Department of Astronomy
	Advisor : Professor Xue-Bing Wu
September 2015 − June 2019	Beijing Institute of Technology, Beijing, China
	B.S., SchoolofPhysics

Research Interest

- Quasar surveys and selection, especially from the slitless spectroscopy
- Quasar photometry, spectroscopy and variability in optical to near-infrared
- Data mining, and machine learning

Publications

First Author

- **Pang, Yuxuan**; Wu, Xue-Bing; Fu, Yuming, et al. (2024), Quasar identifications from the slitless spectra: a test from 3D-HST. Submitted to ApJ
- **Pang, Yuxuan**; Wu, Xue-Bing; Zhu, Rui, et al. (2024), Pilot Study for the CSST Slitless Spectroscopic Quasar Survey. Submitted to ApJ

Collaborated Work

- Li, Sha-Sha; Feng, Hai-Cheng; Liu, H. T.; Bai, J. M.; Ji, Xiang; **Pang, Yu-Xuan**, et al. (2024), The Astrophysical Journal, 972, 105, Velocity-resolved Ionization Mapping of Broad Line Region. I. Insights into Diverse Geometry and Kinematics [ADS]
- A Feng, Hai-Cheng; Li, Sha-Sha; Bai, J. M.; Liu, H. T.; Lu, Kai-Xing; **Pang, Yu-Xuan**, et al. (2024), arXiv, Velocity-resolved Reverberation Mapping of Changing-look Active Galactic Nucleus NGC 4151 during Outburst Stage. II. Four Season Observation Results [ADS]
- Fu, Yuming; Wu, Xue-Bing; Li, Yifan; **Pang, Yuxuan**, et al. (2024), The Astrophysical Journal Supplement Series, 271, 54, CatNorth: An Improved Gaia DR3 Quasar Candidate Catalog with Pan-STARRS1 and CatWISE [ADS]
- Jin, Jun-Jie; Wu, Xue-Bing; Fu, Yuming; Yao, Su; Ai, Yan-Li; Feng,Xiao-Tong; He, Zi-Qi; Ma, Qin-Chun; **Pang, Yu-Xuan**, et al. (2023), The Astrophysical Journal Supplement Series, 265, 25, The Large Sky Area Multi-Object Fiber Spectroscopic Telescope (LAMOST) Quasar Survey: Quasar Properties from Data Releases 6 to 9 [ADS]
- Fu, Yuming; Wu, Xue-Bing; Jiang, Linhua; Zhang, Yanxia; Huo, Zhi-Ying; Ai, Y. L.; Yang, Qian; Ma, Qinchun; Feng, Xiaotong; Joshi, Ravi;Hon, Wei Jeat; Wolf, Christian; Li, Jiang-Tao; Jin, Jun-Jie; Yao, Su; **Pang, Yuxuan**, et al. (2022), The Astrophysical Journal Supplement Series, 261, 32, Finding Quasars behind the Galactic Plane. II. Spectroscopic Identifications of 204 Quasars at | b | <20° [ADS]

Research Skills

Proposals

- CTAP2025-A0028: Optical Identifications of the Slitless Spectroscopy Selected Quasar Candidates (PI)
- CTAP2024-A0073: A Quest for the Evolutionary Stage of FeLoBAL Quasars with Near-Infrared Spectroscopy (PI)
- Joint application for the 2-meter telescope of the Chinese Academy of Sciences in 2024: Optical Identifications of the Quasar Candidates from WISP survey (PI)
- Joint application for the 2-meter telescope of the Chinese Academy of Sciences in 2022: Quasar slitless spectra observation and reverberation mapping research (PI)

Observation Experience

- 3 nights remote observation in P200 telescope
- 8 nights observation in Xinglong 2.16-meter telescope
- 11 nights observation in Lijiang 2.4-meter telescope

Talks & Posters

- Nov. 2024 Selection of QSOs in Space Telescope Slitless Spectroscopy, Academic Seminar on Galaxy Evolution and Cosmology Research Using CSST, Suzhou, China (*Excellent Oral Presentation*)
- Oct. 2024 Selection of QSOs in Space Telescope Slitless Spectroscopy, CSST Scientific Data Systems Workshop, Yinchuan, China
- Nov. 2023 Quasar Search Based on Slitless Spectra of Space Telescopes, CSST Galaxy Evolution and Cosmology Topic Exchange Meeting, Suzhou, China
- Aug. 2023 Selection of QSOs in Space Telescope Slitless Spectroscopy (Poster), China Astronomical Science Annual Conference, Weihai, China
- Mar. 2023 Quasar survey requirements for CSST slitless spectroscopy, CSST Annual Scientific Meeting, Beijing, China
- CSST Galaxy & AGN Science Discussion:
  Series I: Quasar Selection Methods (Arp. 2021)
  Series II: The slitless spectroscopy science with other information (Jun. 2022)
  Series III: Revealing AGN torus through High-Spatial Resolution Observation (Jul. 2023)
  Series IV: QSO survey: Selection, photo-z & Ordinary Variability in LSST (Nov. 2023)

Service & Teaching

- Lecturer, Lesson: Decomposition of the one-dimensional spectra of quasars and galaxies, CSST Summer School on Galaxy Sciences, Peking University, Jul. 2024
- Teaching Assistant, CSST Summer School, Peking University, Jul. 2022
- Teaching Assistant, Basic Astronomy, Peking University, 2021-2022B
- Supervising Tao Ji, undergraduate at Peking University, 2021-2023
- Supervising Mingyu Wang, undergraduate at Peking University, 2021-2022

Honors & Awards

- Dedicated Scholarship for Outstanding PhD Students (top 10%), Peking University, 2021-2022
- Outstanding Graduates (top 3%), Beijing Institute of Technology, 2019
- Dedicated Scholarship for Outstanding Students (top 5%), Beijing Institute of Technology, 2017 & 2018
- Second prize of China Undergraduate Physics Tournament, 2016 & 2017