QIAN YANG

CONTACT INFORMATION

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WORKING EXPERIENCE

Postdoctoral Research Associate

Department of Astronomy, University of Illinois at Urbana-Champaign 2018.09 - Present

Visiting Research Scholar

Steward Observatory, University of Arizona 2015.09 - 2016.09

EDUCATION

Ph.D, Astrophysics, Peking University

2012.09 - 2018.07

Bachelor Degree, Physics, Sichuan University

2008.09 - 2012.07

RESEARCH INTERESTS

• Physical processes in galactic nuclei

- AGN/quasar variability
- Dust reverberation mapping in distant quasars
- Extreme galactic nuclei transients, changing-look quasars, and tidal disruption events
- Searching for AGN in low-mass galaxies and intermediate-mass black holes
- Coevolution of black holes and galaxies
- High redshift quasars and reionization
- Quasar target selection and photometric redshift estimation

TECHNICAL EXPERIENCE

Programming IDL, Python, R

Software IRAF, SQL, LaTeX, TOPCAT

Astronomical Data reduction of optical/NIR spectroscopy

Imaging reduction and photometry

Photometric redshift estimation of quasars and galaxies

OBSERVING EXPERIENCE

Imaging

- Leading an ongoing observing program using DECam to monitor several LSST Deep Drill Fields to bridge the PanSTARRS/DES and LSST light curves (>40 nights)
- Large Binocular Telescope (LBT) 2*8.4m/LBC, LBT Observatory (0.5 nights)
- Mayall 4m/MOSAIC-3, National Optical Astronomy Observatory (17 nights)
- Bok 2.3m/90Prime, Steward Observatory (19 nights)

Spectroscopy

- Magellan Baade 6.5m/FIRE, Las Campanas Observatory (3 nights)
- MMT 6.5m/Red Channel, MMT Observatory (6 nights)
- P200 Hale 5m/Triplespec, Palomar Observatory 7 nights
- Lijiang 2.4m/YFOSC, Yunnan Astronomical Observatory (>20 nights)
- Xinglong 2.16m/BFOSC, NAOC Xinglong Observatory (>30 nights)

PRESS

'Echo Mapping' in Faraway Galaxies Could Measure Vast Cosmic Distances NASA Jet Propulsion Laboratory (JPL)

New Discoveries Double the Number of Changing-look AGNs

The Kavli Institute for Astronomy and Astrophysics at Peking University (KIAA-PKU)

HONORS AND AWARDS

- 2015-2016 China Scholarships Council Fellowship
- 2010-2011 The Third Prize Scholarship, Excellent Student, Sichuan University
- 2009-2010 The Third Prize Scholarship, Excellent Student, Sichuan University
- 2008-2009 The Second Prize Scholarship, Excellent Student, Sichuan University

TEACHING EXPERIENCE AND OUTREACH

Teaching Assistant in Fundamental Astronomy, Peking University Sidewalk astronomy (organizer), Sichuan University 2014.03 - 2014.07 2009 - 2010

CONFERENCES AND TALKS

- 21. Talk, *Using DES/LSST to Search for Extreme Variables*. Survey Science Meeting, NCSA, UIUC, USA, March 28, 2019
- Talk, Spectral Variability of a Sample of Extreme Variability Quasars and Implications for the MgII Broad-line Region. DES Collaboration Wide Review, (zoom) UIUC, USA, March 11, 2019
- 19. Poster, Discovery of 21 New Changing-look AGNs: Study on Evolution of AGNs and AGN Host Galaxies, the 231st AAS Meeting, Washington, DC, USA, January 2018
- 18. Sciences with LSST and CSST Forum, Beijing, China, November 2017
- 17. BHOLE project Group 4 Workshop, Beijing, China, July 2017
- 16. Rapid talk, *Photo-z and Candidate Selection of Quasars Based on Imaging Data*, DESI Collaboration meeting, Berkeley, USA, June 2017
- 15. Talk, Photometric Redshift of Quasars and Quasar Candidate Selection and Changing-look Quasars, BHOLE Group 3 Workshop, Beijing, China, May 2017
- 14. AGN RM Workshop, Lijiang, China, October 2016
- 13. DECaLS Workshop, Tucson, USA, August 2016
- 12. Participated in workshop organization, East-Asia AGN Workshop, Changchun, China, July 2015
- 11. BASS Survey workshop, Beijing, China, June 2015
- 10. Talk, Quasar Photometric Redshift Estimations and Check with SDSS Quasars, The 2015 KIAA-SHAO Bilateral Workshop, Beijing, China, May 2015
- 9. KIAA SAC Meeting, Beijing, China, March 2015

- 8. Mini-workshop on AGN Fueling and Star Formation, Lijiang, China, January 2015
- 7. LAMOST 973 Meeting, Beijing, China, December 2014
- 6. Meeting, From Dark Matter to Galaxies, Xi'an, China, May 2014
- 5. Chinese Astronomical Society Annual Meeting, Suzhou, China, October 2013
- 4. Molecular Astronomy Workshop, Weihai, China, August 2013
- 3. Talk, Quasar Photometric Redshift Estimations and Check with SDSS quasars, Zhang Heng Conference, Zhangjiajie, China, July 2013
- 2. Talk, Quasar Photometric Redshift Estimations and Check with SDSS Quasars, Jing-Guang-Xia Astrophysics Meeting, Shaoguan, China, June 2013
- 1. Volunteer, The 28th General Assembly of the International Astronomical Union (IAU), Beijing, China, August 2012

APPROVED TELESCOPE PROPOSALS

- XMM-Newton: Unusual Mid-Infrared Flared Objects: Turning-on Obscured AGNs? Principal Investigator, 206 ks, AO-18
- Xinglong Telescope (2.16m): Searching for Changing-look Quasars Co-I, BFOSC, 23 nights, 2018-2019
- Lijiang Telescope (2.4m): Searching for Changing-look Quasars: Turning-off Quasars Co-I, YFOSC, 8 nights, 2017-2018
- Xinglong Telescope (2.16m): Searching for Changing-look Quasars: Turning-on Quasars Co-I, BFOSC, 21 nights, 2017-2018
- Hale (5.1m): Complete the uniform z~5.5 quasar sample: spectroscopy in the northern galactic cap

Co-I, DBSP, 2 nights, 2017A

- Hale (5.1m): The first z~5.5 quasar survey based on PS1-ALLWISE colors: the southern galactic cap spectroscopy
 - Co-I, DBSP, 2 nights, 2016B
- Hale (5.1m): Study black hole masses of luminous z~5 quasars Co-I, Triplespec, 5 nights, 2016A
- Hale (5.1m): Study the black hole masses of luminous z~5 quasars Co-I, Triplespec, 4 nights, 2015B
- MMT (6.5m): Finding quasars in the post-reionization epoch *Co-I*, Red channel, 2 nights, 2015A

REFERENCES

• Prof. Yue Shen

Associate Professor; Email: shenyue@illinois.edu Department of Astronomy, University of Illinois at Urbana—Champaign

• Prof. Xue-Bing Wu

Associate Director, Professor; Email: wuxb@pku.edu.cn Kavli Institute for Astronomy and Astrophysics, Peking University

• Prof. Xiaohui Fan

Regents' Professor of Astronomy; Email: fan@as.arizona.edu Steward observatory, University of Arizona