

Jinyi Shangguan

Curriculum Vitae

Kavli Institute for Astronomy and Astrophysics
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Education

2012–present **PhD candidate, Astrophysics, Peking University, Beijing, China.**

Advisor: Luis C. Ho

2008–2012 **BS, Astrophysics, Peking University, Beijing, China.**

Honors

2016 Principal Scholarship

2014 – 2015 Graduate Specific Scholarship

2013 Outstanding Undergraduate's Instructor

2013 Ye Qisun Physics Scholarship

2009 – 2012 National Astronomical Observatory of China Scholarship

Skills

- Experienced in photometric data reduction (ultraviolet, optical, and near-infrared, including HST) with Python and IRAF/PyRAF
- Experienced in far-infrared data reduction with *Herschel Interactive Processing Environment*
- Experienced in C, Python programming (I develop an SED fitting code in Python: github.com/jyshangguan/Fitter)
- Familiar with Bayesian statistics and Markov Chain Monte Carlo method
- Familiar with galaxy 2-dimensional fitting using GALFIT
- Familiar with Bash commands and the maintenance of small computer cluster

Research & Interests

- Coevolution of galaxy and supermassive black hole
- Galaxy interstellar medium and star formation
- Physics of black hole accretion
- Statistical data analysis

Approved Proposal

2017 **ALMA Cycle-5 (2017.1.00297.S; Co-I.),** *An ALMA-ACA Survey of CO(2-1) in PG QSOs*, PI: Franz E. Bauer.

2017 **Gemini (GS-2017A-Q-43; Co-I.),** *Are Tidal Disruption Events Enhanced by Galaxy Mergers?*, PI: Minjin Kim.

Observing Experience

2017 **GMOS IFU observation, Gemini North, Mauna Kea, HI, USA.**

Teaching Experience

2013-2017 Undergraduate student tutor

Talks

Conferences

- 2017 **On the Gas Content and Efficiency of AGN Feedback in Low-redshift Quasars**, *Chinese Astronomical Society annual meeting*, Xinjiang, China.
- 2016 **Cold Dust Emission in Quasar Host Galaxies**, *East Asia AGN Workshop*, Seoul, Korea.
- 2015 **An HST imaging study of kpc-scale binary AGNs**, *Chinese Astronomical Society annual meeting*, Wuhan, China.

Seminars

- 2017 **Freddi Seminar**, *Institute for Astronomy, University of Hawai'i at Mānoa*, HI, USA.
- 2017 **Subaru Seminar**, *Subaru Observatory*, HI, USA.

Publications

First Authored Papers

- 2017 Shangguan, J., & Ho, L. C., "Testing the Evolutionary Link of Type 1 and Type 2 Quasars with Gas Measurements," 2017, submitted
- 2017 Shangguan, J., Ho, L. C., & Xie, Y., "On The Gas Content and Efficiency of AGN Feedback in Low-redshift Quasars," 2017, submitted
- 2016 Shangguan, J., Liu, X., Ho, L. C., et al., "Chandra X-Ray and Hubble Space Telescope Imaging of Optically Selected Kiloparsec-scale Binary Active Galactic Nuclei. II. Host Galaxy Morphology and AGN Activity," 2016, *Astrophys. Journ.*, 823, 50
- 2013 Shangguan, J., & Yan, H., "Study of interplanetary magnetic field with Ground State Alignment," 2013, *Astrophys. Space Sci.*, 343, 335

Additional Papers

- 2017 Xie, Y., Ho, L. C., Li, A., & Shangguan, J., "A New Technique in Measuring PAH Emissions in Mid-Infrared Spectra," 2017, submitted
- 2017 Yang, Q., Wu, X., Fan, X., et al., "A survey of changing-look AGNs: I. Discovery and variability in optical and mid-infrared," 2017, submitted
- 2017 Srinivasan, S., Kemper, F., Zhou, Y., et al., "The mineralogy of newly formed dust in active galactic nuclei," 2017, *Planet. Space Sci.*, Accepted