Kashiwa, Japan

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Lilan Yang

Curriculum Vitae

Research Interests

Galaxy Formation and Evolution

Strong Gravitational Lensing

Education

2011–2015 B.A. in Physics, Hunan Normal University

2015–2017 M.S. in Astrophysics, Beijing Normal University, Adivsor: Zong-hong Zhu

2017–2021 Ph.D. in Physics, Wuhan University, Adivsor: Zong-hong Zhu

Research Experience

2016 winter **University of Oklahoma, USA**, Investigation of variability of quasar Mrk 231 from Swift, **Adivsor:** Prof.Xinyu Dai

2016 summer INAF-Osservatorio Astrosico di Arcetri, Italy, Investigation of X-ray properties of brightest cluster galaxy (BCG), Adivsor: Dr. Paolo Tozzi

2017 summer Leiden University, NL, Unravelling the effect of the mass and the environment on the radio luminosity function, Adivsor:Prof.Huub Rottgering

2018-2020 University of California, Los Angeles, USA, Cluster-scale gravitational strong lensing, Adivsor: Prof.Tommaso Treu

2021-present Kavli IPMU, The University of Tokyo, Japan, High redshift galaxy & structural properties of galaxies at immediate redshift, Host researcher: Prof.John Silverman

Academic Activities (selected)

Referee – The Astrophysical Journal

Package – Developer of Lenstruction: A python package designed for cluster lensing source reconstruct QSOs, and duals.

- Contributor of Lenstronomy: A python package designed for cluster lensing source reconstruct QSOs, and duals.
- Contributor of Galight: A python package designed for cluster lensing source reconstruct QSOs, and duals.

Collaboration – COSMOS-webb: Decomposition for JWST imaged QSOs;

- GLASS: strong lensing time delay cosmography;
- Subaru HSC: developing tools for galaxy/QSO imaging analysis;

Presentations

2022 IPMU Colloquium (invited),

Kavli IPMU (remotely), Kashiwa, Japan

2022 COSMOS2022,

Institut d'Astrophysique de Paris, Paris, France

2021 SHAO Colloquium (invited),

Shanghai Astronomical Observatory, Shanghai, China

2021 USTC Colloquium (invited),

Department of Astronomy - School of Physical Sciences, Hefei, China

2021 IPMU lunch talk (invited),

Kavli IPMU (remotely), Kashiwa, Japan

2021 NAOC Colloquium,

National Astronomical Observatory of China, Beijing, China

2020 Annual Meeting of GLASS,

University of California, Los Angeles, Los Angeles, USA

2018 INAF lunch talk,

Arcetri Astrophysical Observatory, Florence, Italy

2017 LEAPS workshop,

The Leiden/ESA Astrophysics Program for Summer Students, Leiden, NL

Publications

- first author publications (8 in total)
- 2022 "Early results from GLASS-JWST. V: the first rest-frame optical size-luminosity relation of galaxies at z > 7", Yang Lilan; Morishita, T., Leethochawalit, N., et al. 2022, arXiv:2207.13101
- 2022 "The size-luminosity relation of lensed galaxies at z 6-9 in the Hubble Frontier Fields", Yang Lilan Leethochawalit, N., Treu, T., et al. 2022, MNRAS, 514, 1148
- 2022 "Event rate predictions of strongly lensed gravitational waves with detector networks and more realistic templates", **Yang Lilan**, Wu, S., Liao, K., et al. 2022, MNRAS, 509, 3772
- 2021 "The evolution of the size-mass relation at z=1-3 derived from the complete Hubble Frontier Fields data set", **Yang Lilan**, Roberts-Borsani, G., Treu, T., et al. 2021, MNRAS, 501, 1028

- 2020 "A versatile tool for cluster lensing source reconstruction I. Methodology and illustration on sources in the Hubble Frontier Field Cluster MACS J0717.5+3745", Yang Lilan, Birrer, S., Treu, T., 2020, MNRAS, 496, 2648
- 2019 "How Does the Earth's Rotation Affect Predictions of Gravitational Wave Strong Lensing Rates?", **Yang, Lilan**, Ding, X., Biesiada, M., 2019, ApJ, 874, 139
- 2018 "Swift monitoring observations of Mrk 231: detection of ultraviolet variability", **Yang,** Lilan, Dai, X., Lu, Y., 2018, MNRAS, 480, 5504
- 2018 "X-Ray Properties of AGN in Brightest Cluster Galaxies. I. A Systematic Study of the Chandra Archive in the 0.2 < z < 0.3 and 0.55 < z < 0.75 Redshift Range" **Yang, Lilan**, Tozzi, P., Yu, H., 2018, ApJ, 859, 65
 - co-author publications (9 in total)
- 2022 "RELICS: Small Lensed $z \ge 5.5$ Galaxies Selected as Potential Lyman Continuum Leakers" Chloe Neufeld, Victoria Strait, Maruša Bradač, et al. 2022, MNRAS, 516, 2162
- 2022 "Early results from GLASS-JWST XIV: A first morphological atlas of the 1< z &lt; 5 Universe in the rest-frame optical" Colin Jacobs, Karl Glazebrook, Antonello Calabrò, et al. 2022 [arXiv:2208.06516]
- 2022 "Early results from GLASS-JWST. IV: Spatially resolved metallicity in a low-mass $z\sim 3$ galaxy with NIRISS" Xin Wang, Tucker Jones, Benedetta Vulcani, et al. 2022 [arXiv:2207.13113]
- 2022 "Early results from GLASS-JWST VIII: An Extremely Magnified Blue Supergiant Star at Redshift 2.65 in the Abell 2744 Cluster Field" Wenlei Chen, Patrick L. Kelly, Tommaso Treu, et al. 2022 [arXiv:2207.11658]
- 2022 "Early results from GLASS-JWST. II: NIRCam extra-galactic imaging and photometric catalog" Emiliano Merlin, Andrea Bonchi, Diego Paris, et al. 2022 [arXiv:2207.11701]
- 2022 "Early results from GLASS-JWST. III: Galaxy candidates at z \sim 9-15" Marco Castellano, Adriano Fontana, Tommaso Treu, et al. 2022 [arXiv:2207.09436]
- 2022 "Impact of gravitational lensing on black hole mass function inference with third-generation gravitational wave detectors", Xianlong He, Kai Liao, Xuheng Ding, et al. 2022 [arXiv:2205.15515]
- 2021 "Improved time-delay lens modelling and H_0 inference with transient sources", Xuheng Ding, Kai Liao, Simon Birrer, et al. 2021, MNRAS, 504, 5621
- 2021 "lenstronomy II: A gravitational lensing software ecosystem", Simon Birrer, Anowar J. Shajib, Daniel Gilman, et al. 2021, JOSS, 6, 3283