

Xiaojing Lin

(last updated 2023.02.16)

PERSONAL INFORMATION

PhD student
Department of Astronomy
Tsinghua University
Beijing, China

Mobile: +86 188 116 97602
Orcid: [0000-0001-6052-4234](https://orcid.org/0000-0001-6052-4234)
Email: linxj21@mails.tsinghua.edu.cn
linxiaojing@pku.edu.cn

Research Interests: Galaxy ecosystem, Circumgalactic medium, Intergalactic medium, Reionization, Stellar population, Active galactic nucleus, Black hole

EDUCATION

Visiting student in Steward Observatory, Tucson, Arizona 2023.10 – Present
Advisor: Prof. Xiaohui Fan & Dr. Feige Wang

PhD student in Astronomy, Tsinghua University, Beijing, China 2021.09 – Present
Advisor: Prof. Zheng Cai

BS in Astronomy, Peking University, Beijing, China 2017.09 – 2021.06
Thesis Title: Probing Diffuse Lyman Alpha Emission on Cosmological Scales
Advisor: Prof. Zheng Cai & Zheng Zheng

AWARDS

First Prize in Comprehensive scholarship, Tsinghua University 2022.10
Weiming Scholarship for undergraduate students, Peking University 2021.06

PUBLICATION LIST

All papers on [ADS Link](#)

First Author

1. **Lin, X.**, Cai, Z., Li, Y., et al. 2020, *Constraining the Halo Mass of Damped Lyman alpha Absorption Systems (DLAs) at $z = 2-3.5$ Using the Quasar-CMB Lensing Cross-correlation*, *ApJ*, **905**, 176.
2. **Lin, X.**, Zheng, Z. & Cai, Z. 2022, *Probing the Diffuse Ly α Emission on Cosmological Scales: Ly α Emission Intensity Mapping Using the Complete SDSS-IV eBOSS*, *ApJS*, **262**, 38.
3. **Lin, X.**, Cai, Z., Zou, S., et al. 2023, *Metal-Enriched Neutral Gas Reservoir around a Strongly-lensed, Low-mass Galaxy at $z=4$ Identified by JWST/NIRISS and VLT/MUSE*, *ApJL*, **944**, 59
4. **Lin, X.**, Cai, Z., Wu, Y., et al. 2024, *Quantifying the escape of Ly α at $z \approx 5 - 6$: a census of Ly α escape fraction with H α emitting galaxies spectroscopically confirmed by JWST and VLT/MUSE*, [arXiv:2401.09532](https://arxiv.org/abs/2401.09532) (submitted to ApJS)

CONFERENCE PRESENTATIONS & SEMINARS

Oral talk 23rd Guoshoujing Conference, 2021.05
Poster 25rd Guoshoujing Conference, 2023.05

OBSERVING EXPERIENCE

Merian Survey: 4-m Blanco telescope and DECam	> 5 nights
Magellen/IMACS imaging	3 nights
Magellen/IMACS multi-slit spectroscopy + MagE	1 night