

# Xiaojing Lin

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## PERSONAL INFORMATION

PhD student	Mobile: +86 188 116 97602
Department of Astronomy	Orcid: <a href="https://orcid.org/0000-0001-6052-4234">0000-0001-6052-4234</a>
Tsinghua University	Email: <a href="mailto:linxj21@mails.tsinghua.edu.cn">linxj21@mails.tsinghua.edu.cn</a>
	<a href="mailto:linxiaojing@pku.edu.cn">linxiaojing@pku.edu.cn</a>
Beijing, China	

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. Eiichi Egami	
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.**, Wang, F., et al. 2024, *A Spectroscopic survey of biased halos In the Reionization Era (ASPIRE): Broad-line AGN at  $z = 4 - 5$  revealed by JWST/NIRCam WFSS*, submitted to ApJ
2. **Lin, X.**, Cai, Z., Wu, Y., et al. 2024, *Quantifying the escape of Ly $\alpha$  at  $z \approx 5 - 6$ : a census of Ly $\alpha$  escape fraction with H $\alpha$  emitting galaxies spectroscopically confirmed by JWST and VLT/MUSE*, [ApJS, 272, 33](#)
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.**, Zheng, Z. & Cai, Z. 2022, *Probing the Diffuse Ly $\alpha$  Emission on Cosmological Scales: Ly $\alpha$  Emission Intensity Mapping Using the Complete SDSS-IV eBOSS*, [ApJS, 262, 38](#).
5. **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](#).

## CONFERENCE PRESENTATIONS & SEMINARS

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2021.05	Oral talk	23rd Guoshoujing Conference
2023.05	Poster	25rd Guoshoujing Conference
2024.04	Talk	Harvard ITC Luncheon Talk
2024.04	Talk	MIT Kavli Institute Monday Afternoon Talks
2024.05	Talk (online)	UCSC CGI (Cosmology/Galaxies/IGM) seminar
2024.05	Poster	First Stars VII in NYC

## OBSERVING EXPERIENCE

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