

Xiaoqing Lin

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PERSONAL INFORMATION

PhD student
Department of Astronomy
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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	

PUBLICATION LIST

All papers on [ADS Link](#)

First Author

1. **Lin, X.**, Wang, F., Fan, X., 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*, [ApJS](#), **914**, 147
2. **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*, [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 α Emission on Cosmological Scales: Ly α 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

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

2024.10	Talk	EREBUS collaboration meeting, Hilo
2024.10	Talk	The First Gigayear(s), Hilo

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
Magellen/FIRE	3 nights

AWARDS

National Scholarship, Tsinghua University	2024.11
First Prize in Comprehensive scholarship, Tsinghua University	2022.10
Weiming Scholarship for undergraduate students, Peking Univerisity	2021.06