

Yuchen Liu (刘语晨)

Department of Astronomy at School of Physics, Peking University
& Kavli Institute for Astronomy and Astrophysics, Peking University

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EDUCATION

Peking University, Beijing, China 09/2020-present

Department of Astronomy, School of Physics
& Kavli Institute for Astronomy and Astrophysics

Ph.D. student

Advisor: Linhua Jiang

Beijing Normal University, Beijing, China 09/2016-06/2020

Department of Astronomy

Bachelor of Science

RESEARCH EXPERIENCE

Istituto Nazionale di Astrofisica (INAF)-Osservatorio Astronomico di Roma, Monte Porzio Catone, Italy

Visiting Ph.D. student, Advisor: Laura Pentericci

Extragalactic Group 09/2023-09/2024

- Work on imaging and spectroscopic data analysis of JWST and HST
- Work on high-redshift galaxies research

Peking University, Beijing, China

Ph.D. student, Advisor: Linhua Jiang

Department of Astronomy & Kavli Institute for Astronomy and Astrophysics

09/2020-present

- Work on Lyman continuum galaxies at high redshifts
- Join in the collaboration EREBUS of JWST
- Work on JWST imaging and slitless spectral data reduction

Beijing Normal University, Beijing, China

Undergraduate student, Advisor: Jianning Fu

Department of Astronomy

11/2017-06/2020

- Work on the identification of eclipsing binaries
- The thesis of the bachelor's degree about eclipsing binaries

Royal Observatory of Belgium, Brussels, Belgium

Visiting student, Advisor: Peter de Cat

01/2019-02/2019

- Work on eclipsing binaries using PHOEBE

PUBLICATION

First Author

1. **Liu, Y.**, Jiang, L., Windhorst, R., Guo, Y. & Zheng, Z
Lyman Continuum Emissions from Spectroscopically Confirmed Lyman Alpha Emitters at $z \sim 3.1$, 2023, ApJ, 958, 22
2. **Liu, Y.**, Mascia, S., Pentericci, L., Watson, P., etc
Two Lyman Continuum Candidates in Abell 2744 cluster field, to be submitted to A&A.

Co-Author

1. Liu, N., Fu, J., ..., **Liu, Y.**, etc
Radial velocity measurements from LAMOST medium-resolution spectroscopic observations: a pointing towards the Kepler field, 2019, RAA, 19, 075

COLLABORATIONS

- JWST+ALMA ASPIRE collaboration: Member
- JWST EREBUS collaboration for galaxy evolution: Member
- China Space Station Telescope (CSST) PKU Science Center: Member
- Subaru PFS collaboration: Member

HONORS & AWARDS

- “Lingjun” Pilot Scholarship for graduates (20K RMB), Peking University, China 2023
- Merit Student, Peking University, China 2023
- Excellent Scientific Research Award, Peking University, China 2022
- Excellent Scientific Research Award, Peking University, China 2021
- The Second Prize Scholarship, Beijing Normal University, China 2019, 2018, 2017

CONFERENCES

- July 2024: **Two Lyman Continuum leakers in Abell2744 cluster field**, European Astronomical Society Annual Meeting, Poster (Padova, Italy)
- September 2023: **Lyman Continuum emission from Spectroscopically Confirmed Lyman Alpha emitters at $z \sim 3.1$** , Chinese Astronomical Society 2023 Annual Meeting, oral talk (Weihai, China)
- May 2023: **Lyman Continuum emission from Spectroscopically Confirmed Lyman Alpha emitters at $z \sim 3.1$** , "Guoshoujing" Academic Symposium and the Frontiers of Galaxy and Cosmology Symposium, oral talk & poster (Huangshan, China)
- March 2023: **Lyman Continuum galaxies at $z \sim 3$ and CSST prospects**, CSST seminar on key issues in galaxy research, oral talk (Anqing, China)

OUTREACHS

- September 2021-September 2022: Associate Director of the Congress of the Student Union of the School of Physics
- September 2021-January 2022: Teaching Assistant in the Fundamental Astronomy, Peking University
- October 2022-January 2023: Scientific proofreader of astronomy popular science books 《The Little Prince Loves Science series》 by Jieli Publishing House

SKILLS

Computer language: Competent user of Python; Knowledge of Matlab, Fortran

Software:

- Source Extractor
- Code Investigating GALaxy Emission (CIGALE)
- Bagpipes
- galfit
- JWST image reduction pipeline.