

Zihao Wu

Education	Harvard University Ph.D. Candidate. Advisor: Daniel J. Eisenstein	Cambridge, MA 2023 – Expected 2028
	Peking University B.S. in Astronomy	Beijing, CN 2019 – 2023
Research Interests	1. Galaxy Formation and Evolution in the Early Universe 2. Galaxy Clustering and Dark Matter Halos 3. Supermassive and Intermediate-Mass Black Holes	
Honor	Outstanding Graduate, Beijing City & Peking University	Dec 2022
	First prize, Lin-bridge Scholarship for Astronomy Research	Sep 2022
	First prize, Xingcheng Academic Forum in Physics, Peking University	May 2022
	First prize, Mathematics Competition for College Students, Beijing	Dec 2020
	Excellent Undergraduate Research, Peking University	May 2023
Observatory Allocations	JWST NIRSpec Multi-Object Spectroscopy	71.7 hours (PID 8018; Co-I)
	JWST MIRI Low Resolution Spectroscopy	62.8 hours (PID 8544; Co-I)
	JWST NIRCam Wide Field Slitless Spectroscopy	12.2 hours (PID 7336; Co-I)
Talks & Posters	JADES Collaboration Meeting, Boston	Jun 2025
	<i>Talk: Weak Metal Emission Lines of JADES-GS-z14-1 from Extremely Deep JWST MIRI, NIR-Cam, NIRSpec Observations.</i>	
	First Galaxies, Oxford	Apr 2025
	<i>Flash talk: Stellar Continuum and Nebular Emission of JADES-GS-z14-1 from JWST MIRI/F770W Observations.</i>	
	JADES Collaboration Meeting, Santa Cruz	Jan 2025
	<i>Talk: Stellar Continuum and Nebular Emission from JADES-GS-z14-1.</i>	
	<i>Talk: Wisp Subtraction in JWST NIRCam with the Non-negative Matrix Factorization Algorithm.</i>	
	JADES Collaboration Meeting, Copenhagen	Jun 2024
	<i>Talk: MIRI Flux of JADES-GS-z14-0 From Individual Exposures Fitting</i>	
	PKU-KIAA Seminar, Peking University	Jul 2024
Professional Service	<i>Talk: Constraining the Abundance of Intermediate-mass Black Holes from Quasar Microlensing.</i>	
	Yellow Mountain Guoshoujing Annual Conference	May 2023
	<i>Talk: The Elusive Population of Disk Galaxies with Double Radio Lobes</i>	
	East Asia AGN Workshop	Oct 2021
	<i>Poster: AGN Identification from Galaxy 2D Light Profile Decomposition</i>	
Community Service	Member, The JWST Advanced Deep Extragalactic Survey (JADES)	2023 – present
	Organizer, Harvard Astronomy Student-Faculty Forum	2024 – present
	Student representative on Harvard Griffin GSAS Student Council	2024 – present
	Student representative on Harvard Astronomy Student Faculty Council	2024 – 2025
	Academic chair, Student Council of School of Physics, Peking University	2020 – 2021
Community Service	Volunteer in Cambridge Explore the Universe	2024
	Students tutor in advanced physics courses	2022
	Bicycle mechanic and cyclist in a 900 km 20-day long-distance team cycling	2020

Selected Press Coverage	<i>CfA Press Release</i> (2024) “CfA Astronomers Help Find Most Distant Galaxy Using James Webb Space Telescope”
	<i>Sky & Telescope Magazine</i> (2023) “Unearthing Galactic Gems”
Publication	Zihao Wu , Daniel J. Eisenstein, Benjamin D. Johnson, Peter Jakobsen, <i>et al.</i> “JADES-GS-z14-1: A Compact, Faint Galaxy at $z \approx 14$ with Weak Metal Lines from Extremely Deep JWST MIRI, NIRCам, and NIRSspec Observations” arXiv e-prints, arXiv:2507.22858 (2025)
	Zihao Wu , Luis C. Ho “Detecting Intermediate-mass Black Holes Using Quasar Microlensing” <i>The Astrophysical Journal</i> , 985, 2 (2025)
	Zihao Wu , Luis C. Ho, Ming-Yang Zhuang “An Elusive Population of Massive Disk Galaxies Hosting Double-lobed Radio-loud AGNs” <i>The Astrophysical Journal</i> 941, 95 (2022)
	P. Rinaldi, G. Rieke, Z. Wu , <i>et al.</i> “Deciphering the Nature of Virgil: An Obscured AGN Lurking Within an Apparently Normal Lyman- Emitter During Cosmic Reionization” arXiv e-prints, arXiv:2504.01852 (2025)
	J. Helton, G. Rieke, S. Alberts, Z. Wu , D. Eisenstein, <i>et al.</i> “JWST/MIRI photometric detection at $7.7 \mu\text{m}$ of the stellar continuum and nebular emission in a galaxy at $z > 14$ ” Nature Astronomy, 1-12 (2024)
	P. Rinaldi, P. Prez-Gonzalez, G. Rieke, J. Lyu, F. D’Eugenio, Z. Wu , <i>et al.</i> “Deciphering the Nature of Virgil: An Obscured AGN Lurking Within an Apparently Normal Lyman- Emitter During Cosmic Reionization” arXiv e-prints, arXiv:2504.01852 (2025)
	J. Witstok <i>et al.</i> (including Z. Wu) “On the origins of oxygen: ALMA and JWST characterize the multi-phase, metal-enriched, star-bursting medium within a ‘normal’ $z > 11$ galaxy” arXiv e-prints, arXiv:2507.22888 (2025)