

Zihao Wu

Education	Harvard University	Cambridge, MA
	Ph.D. Student. Advisor: Daniel J. Eisenstein	2023 – Expected 2028
	Harvard University	Cambridge, MA
	M.A., Astrophysics	2023 – 2025
	Peking University	Beijing, CN
	B.S. in Astronomy with Honor	2019 – 2023
Honor	Outstanding Graduate, Beijing City & Peking University	Dec 2022
	First prize, Challenge Cup of Scientific Research, Peking University	May 2023
	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
	Excellent Student Leader, Peking University	Oct 2021
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 NIRCам Wide Field Slitless Spectroscopy	12.2 hours (PID 7336; Co-I)
Professional Service	Member, The JWST Advanced Deep Extragalactic Survey (JADES)	2023 – present
	Student representative on Harvard Astronomy Student Faculty Council	2024 – present
	Student representative on Harvard Griffin GSAS Student Council	2024 – present
	Organizer, Harvard Astronomy Student-Faculty Forum	2024 – present
	Academic chair, Student Government of School of Physics, Peking University	2020 – 2021
Talks & Posters	JADES Collaboration Meeting, Madrid & Boston	Jun 2025
	<i>Talk: Weak Metal Emission Lines of JADES-GS-z14-1 from Extremely Deep JWST MIRI, NIR-Cam, NISpec 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 NIRCам 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 with ForcePho Sampled Models</i>	
	PKU-KIAA Seminar, Peking University	Jul 2024
	<i>Talk: Constraining the Abundance of Intermediate-mass Black Holes from Quasar Microlensing.</i>	
	CSST First Annual Science Conference	Mar 2023
	<i>Plenary talk (the only student): The Elusive Population of Massive Disk Galaxies with Double Radio Lobes</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: Active Galactic Nuclei Identification from Galaxy 2D Light Profile Decomposition</i>	

Community Service	Initiated a seminar for astrophysics frontier discussion	2021 – present
	Volunteer in Cambridge Explore the Universe	2024
	Students tutor in advanced physics courses	2021 – 2022
	Student leader in the Xinan-Lianda Physics Undergrad Camp	2022
	Cyclist and bicycle mechanic 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 characterise the multi-phase, metal-enriched, star-bursting medium within a ‘normal’ $z > 11$ galaxy”	
	arXiv e-prints, arXiv:2507.22888 (2025)	