

WENKE REN

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EDUCATION	University of Science and Technology of China	Hefei, China
	<i>Ph.D. in Astronomy</i>	2019.09 - 2025.06
	<ul style="list-style-type: none">• Advisor: Prof. Junxian Wang• Research area: Quasar Variability	
	Kavli IPMU, The University of Tokyo	Kashiwa, Japan
	<i>Visiting Student</i>	2023.09 - 2025.05
WORK EXPERIENCE	<ul style="list-style-type: none">• Advisor: Prof. John D. Silverman• Research area: AGN & Host Galaxy Co-evolution	
	Shanghai Astronomical Observatory	Shanghai, China
	<i>Visiting Student</i>	2023.06 - 2023.08
	<ul style="list-style-type: none">• Advisor: Associate Research Prof. Hengxiao Guo• Research project: AGN & Host Galaxy Spectral Decomposition	
	University of Science and Technology of China	Hefei, China
RESEARCH INTERESTS	<i>B.S. in Astronomy, School of the Gifted Young (honor)</i>	2015.09 - 2019.06
	Shanghai Astronomical Observatory	Shanghai, China
	<i>Postdoctoral Researcher</i>	2025.07 - Present
	<ul style="list-style-type: none">• Advisor: Dr. Hengxiao Guo• Research project: Intermediate Mass Black Holes, Little Red Dots	
	<ul style="list-style-type: none">• AGN & Host Galaxy Co-evolution• Quasar Variability• Intermediate Mass Black Hole	
PROJECTS	Software for AGN UV/optical spectral fitting: PyQSOFit	
	<i>Maintainer</i>	2021 - present
	NICER TOO/DDT (PI)	
	<i>X-ray confirmation of an intermediate mass black hole candidate from DESI</i>	10ks, 2025
	Astronomy National Science Talent Training Base Project (PI)	
	<i>Research Funding for Undergraduate</i>	2018.11 - 2019.06
	CAS 2-Meter-Class Telescopes United Proposal (PI)	
	<i>Lijiang 2.4m Telescope at Lijiang, China</i>	3 nights, 2020
	GMRT Observing Proposal (Co-I)	
	<i>The excess of radio emission in extremely stable quasars</i>	6 hours, Cycle 47

AWARDS AND HONORS	• Poster Awards , CAS Guoshoujing Symposium on Galaxies and Cosmology	2025.06
	• China Scholarship Council Fellowship , China Scholarship Council	2023.09
	• Award of Second Prize , "Lun Dao" Academic Innovation Forum	2021.12
	• Outstanding Graduate Scholarship , USTC	2019.06
	• SCGY class of 1987 Scholarship , USTC	2019.01
	• Wang Shouguan Talent Program in Astronomy , USTC	2018.12
TALKS	• CAS Guoshoujing Symposium on Galaxies and Cosmolog (Poster) , Changsha, China	2025.06
	• AGN across the sky , Hokkaido, Japan	2024.08
	• Workshop on Galaxy and Black-hole evolution , Chiba, Japan	2024.06
	• The restless nature of AGN: 10 years later (Poster) , Napoli, Italy	2023.06
	• Xiamen AGN variability research seminar , Xiamen, China	2023.03
	• "Lun Dao" Academic Innovation Forum , Shanghai, China	2021.12
PUBLICATIONS	1. Ren, W. , Guo, H., Shen, Y., et al. 2024, ApJ, 974, 153, <i>Prior-informed Active Galactic Nucleus Host Spectral Decomposition Using PyQSOFit</i>	
	2. Ren, W. , Wang, J., Cai, Z., et al. 2024, ApJ, 963, 7, <i>Extreme Variability Quasars in Their Various States. II. Spectral Variation Revealed with Multiepoch Spectra</i>	
	3. Ren, W. , Wang, J., Cai, Z., et al. 2022, ApJ, 925, 50, <i>Extreme Variability Quasars in Their Various States. I. The Sample Selection and Composite SDSS Spectra</i>	
	4. Ren, W. , Silverman J D, Faisst A L, et al. submitted to MNRAS <i>The ALPINE-CRISTAL-JWST Survey: Revealing Less Massive AGN in High-Redshift Galaxies</i>	
	5. Hagen S, Done C, Silverman JD, et al. (including Ren, W.) 2024. MNRAS, 534, 2803, <i>Systematic collapse of the accretion disc across the supermassive black hole population</i>	
	6. Kang, W.-Y., Wang, J.-X., Cai, Z.-Y., et al. (including Ren, W.) 2024, ApJ, 971, 60, <i>A Surprising Excess of Radio Emission in Extremely Stable Quasars: A Unique Clue to Jet Launching?</i>	
	7. Wu, L., Wang, J., Ren, W. , et al. 2024, MNRAS, 533, 908, <i>Is quasar variability regulated by the close environment of accretion?</i>	
	8. Liao, M., Wang, J., Ren, W. , et al. 2024, MNRAS, 528, 3696, <i>Outflow-related radio emission in radio-quiet quasars</i>	
	9. Lei, L., Zu, L., Yuan, G.-W., et al. (including Ren, W.) 2024, Science China Physics, Mechanics & Astronomy, 67, 229811, <i>Black holes as the source of dark energy: A stringent test with high-redshift JWST AGNs</i>	
	10. Kang, W., Wang, J., Cai, Z., & Ren, W. 2021, ApJ, 911, 148, <i>More Variable Quasars Have Stronger Emission Lines</i>	
	11. Tanaka T S, Silverman J D, Shimasaku K, et al. (including Ren, W.) submitted to PASJ <i>Discovery of dual "little red dots" indicates excess clustering on kilo-parsec scales</i>	

TEACHING AND OUTREACH	Teaching Assistant	
	<i>PHYS1001A: Mechanics</i>	2020.09 - 2022.01
	Administering the Public Servers of Dept of Astronomy (USTC)	
		2019.06 - 2023.06
	Summer Camp of Department of Astronomy	
	<i>Volunteer</i>	2019.06
	Association of Scientific Expedition (USTC)	
	<i>President</i>	2018.05 - 2019.05
	Study on the Distribution of Marine Micro-plastics around Hainan Island (PI)	
	<i>Social Practice Project</i>	2018.08
	Research on the Age and Location Distribution of Ancient Trees in Southeast Tibet	
	<i>Social Practice Project</i>	2017.08