

# Yerong Xu

Junior Postdoctoral Fellow  
Institute of Space Sciences - CSIC

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## EMPLOYMENT

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- **Institute of Space Sciences - CSIC, Barcelona, Spain** *2025.09-present*  
Junior Postdoctoral Fellowship
- **Saint Mary's University, Halifax, Canada** *2024.08-2025.08*  
Postdoctoral researcher, Host: Prof. Luigi Gallo

## EDUCATION

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- **Università degli Studi di Palermo & INAF-IASF Palermo, Palermo, Italy** *2020.11-2024.03*  
Ph.D. in Astrophysics, Supervisor: Prof. Giancarlo Cusumano & Dr. Ciro Pinto
- **University of Chicago, Chicago, U.S.** *2019.09-2020.06*  
M.Sc. in Physical Science Division, Supervisor: Prof. Vikram V. Dwarkadas
- **Fudan University, Shanghai, China** *2015.09-2019.06*  
B.Sc. in Physics (**Honor**), Supervisor: Prof. Cosimo Bambi

## RESEARCH INTERNSHIPS

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- **Massachusetts Institute of Technology, Cambridge, U.S.** *2023.01-2023.06*  
Erasmus+ visiting student, Host: Prof. Erin Kara
- **European Space Astronomy Centre, Madrid, Spain** *2022.09-2022.12*  
ESA archival research visitor, Host: Dr. Jacobo Ebrero
- **California Institute of Technology, Pasadena, U.S.** *2019.07-2019.08*  
Summer internship, Supervisor: Dr. Javier A. García & Prof. Fiona A. Harrison
- **University of Nottingham, Nottingham, U.K.** *2018.01-2018.06*  
Exchange student, Supervisor: Prof. Meghan Gray

## RESEARCH INTERESTS

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High-energy astrophysics ★ X-ray High-spectral-resolution spectroscopy ★ Active galactic nuclei (AGN) ★ AGN Feedback ★ AGN winds ★ Ultra-fast Outflows ★ Black holes ★ Spectral-timing analysis

## PUBLICATION SUMMARY ([NASA ADS](#))

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**First author on 8 refereed publications** (ApJ, MNRAS, A&A, PASJ) and co-author of 11 additional refereed publications with 1 Proceedings. **First author citations: 164, total citations: 350, h-index: 11**

## GRANTS AND AWARDS

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- ICE-CSIC Junior Postdoctoral Fellowship (€87k) *2025*
- JSPS Postdoctoral Fellowship (JPY 8.8M; Decline) *2025*
- INAF LG: BLOSSOM Project, PI: Pinto, co-I: **Xu** (€200k) *2023*
- PRIN MUR 2022: SEAWIND Project, PI: Pinto, co-I: **Xu** (€250k) *2023*
- Erasmus+ Extra EU study program (€11k) *2023*
- European Space Agency Archival Research Visitor program (€10k) *2022*
- Outstanding undergraduate of Shanghai *2019*
- Fudan Undergraduate Research Opportunities Program (\$800) *2019*
- China Scholarship Council Outstanding Undergraduate Exchange Program (£7k) *2018*
- Tung OACL scholarship (\$1.3k) *2016*

## OBSERVATIONS

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<b>XMM-Newton</b> (AO-25), co-I: Awarded <b>190 ks</b> (PI: Costantini)	2025
<b>XRISM AO</b> (Cycle-2), PI: Awarded <b>250 ks</b> ; co-I: Awarded <b>250 ks</b> (PI: Braitto)	2025
<b>NuSTAR GO</b> (Cycle-11), co-I: <b>325 ks</b> (PI: Walton), <b>150 ks+105 ks XMM</b> (PI: Reeves)	2025
<b>Swift ToO</b> , PI: Awarded <b>7 ks</b>	2025
<b>XMM-Newton LP</b> (AO-24), co-I: Awarded <b>886 ks</b> (PI: Pinto)	2024
<b>Swift GTO</b> (Cycle-21), PI: Awarded <b>91 ks</b>	2024
<b>XRISM AO</b> (Cycle-1), co-PI: Awarded <b>200 ks</b> (PI: Gallo)	2024
<b>Swift GTO</b> (Cycle-20), PI: Awarded <b>75 ks</b>	2023
<b>XMM-Newton GO</b> (AO-21), PI: Awarded <b>250 ks</b>	2021

## SCIENTIFIC PRESENTATIONS

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SEAWIND Community Meeting, Palermo, Italy, 2026	Invited Talk
ICE-CSIC Pizza Seminar, Barcelona, Spain, 2025	Invited Talk
Shanghai Astronomical Observatory (SHAO), Shanghai, China, 2025	Invited Talk
University of Science and Technology of China, Hefei, China, 2025	Invited Talk
Saint Mary's University Colloquium, Halifax, Canada, 2025	Invited Talk
ICA symposium, Halifax, Canada, 2025	Contributed Talk
COSPAR 2024, Busan, Korea, 2024	Two contributed Talks
Xiamen University, Xiamen, China, 2024	Invited Talk
Nanjing University, Nanjing, China, 2024	Invited Talk
Fudan University, Shanghai, China, 2024	Invited Talk
IRAP GAHEC group seminar, Toulouse, France, 2024	Invited Talk
Young Astronomers on Galactic Nuclei 2023, Palermo, Italy, 2023	Contributed Talk
Chandra High Resolution X-ray Spectroscopy workshop, Cambridge, U.S., 2023	Contributed Talk
X-ray Universe 2023, Athens, Greece, 2023	Contributed Talk
CfA High Energy Special Seminar, Cambridge, U.S., 2023	Invited talk
Chandra HETG group Seminar, Cambridge, U.S., 2023	Contributed talk
MIT Erin Kara group Seminar, Cambridge, U.S., 2023	Invited talk
Athena X-ray Observatory Conference, Barcelona, Spain, 2022	Poster
XMM-Newton Workshop, Madrid, Spain, 2022	Contributed Talk
1st Mondragone Frontiers of Astronomy Series, Roma, Italy, 2022	Contributed Talk
50 years Astronomical X-ray spectroscopy (NL), Leiden, Netherlands, 2022	Contributed talk
Fudan University, Shanghai, China, 2021	Invited talk
Disk Wind Conference, Durham, U.K., 2021	Contributed talk

## PROFESSIONAL SERVICE AND OUTREACH

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<b>Member</b> of the Science Working Group for the SQUDE observatory	2026-present
<b>LOC</b> of the NewAthena Rising conference	2026
<b>Leader</b> of the discussion panel on ejection and accretion in AGN at SEAWIND meeting	2026
<b>Reviewer</b> of Astronomy & Astrophysics	2026-present
<b>Reviewer</b> of Monthly Notices of the Royal Astronomical Society	2025-present
<b>Postdoctoral Member</b> of the XRISM team (Extragalactic compact group)	2024-present
<b>Member</b> of the Science Working Group (Galaxy Ecosystems) for the HUBS observatory	2024-present
<b>Member</b> of the Science Working Group 2.3 for the ATHENA observatory	2021-present
<b>Teaching Assistant</b> , <i>Astrophysics laboratory of thermal X-ray plasmas</i> , Università degli Studi di Palermo	2022
<b>Lecturer</b> of The Sky Seminar at Shanghai West Yan'an Junior Middle school	2024

**First Author Peer-Reviewed Publications**

- Xu, Y., Gallo, L. C., Hagino, K. et al. 2025, [PASJ](#), **77**, S223  
*Unraveling the structure of the stratified ultra-fast outflows in PDS 456 with XRISM*
- Xu, Y., Pinto, C., Kara, E. et al. 2024, [A&A](#), **A78**,11  
*Effects of ultra-fast outflows on X-ray time lags in AGN*
- Xu, Y., Pinto, C., Barret, D., et al. 2024, [A&A](#), **A179**, 23  
*A systematic study of the ultra-fast outflow responses to luminosity variations in active galactic nuclei*
- Xu, Y., Pinto, C., Rogantini, D., et al. 2023, [MNRAS](#), **523**, 2158  
*Constraints on the ultrafast outflows in the narrow-line Seyfert 1 galaxy Mrk 1044 from high-resolution time- and flux-resolved spectroscopy*
- Xu, Y., Pinto, C., Kara, E., et al. 2022, [MNRAS](#), **513**, 1910  
*Ejection–accretion connection in NLS1 AGN 1H 1934-063*
- Xu, Y., Pinto, C., Bianchi, S., et al. 2021, [MNRAS](#), **508**, 6049  
*Wind-luminosity evolution in NLS1 AGN 1H 0707-495*
- Xu, Y., García, J., Walton, D. J., et al. 2021, [ApJ](#), **913**, 13  
*The Nature of Soft Excess in ESO 362-G18 Revealed by XMM-Newton and NuSTAR Spectroscopy*
- Xu, Y., Nampalliwar, S., Abdikamalov, A. B., et al. 2018, [ApJ](#), **865**, 134  
*A study of the strong gravity region of the black hole in GS 1354-645*

**Co-Authored Peer-Reviewed Publications**

- Feng, H.C., Li, S.S., Sun, M.Y. et al. 2026, [ApJ](#), **997**, 326  
*Discovery of a Luminosity-dependent Continuum Lag in NGC 4151 from Photometric and Spectroscopic Continuum Reverberation Mapping*
- Pinto, C., Caserta, S., Barra, F. et al. 2026, [A&A](#), **705**, 95  
*XMM-Newton multi-year campaign on NGC 55 ULX-1: Resolving wind and its variability with RGS*
- Wang, Y.J., Wang, T., Mao, J., et al. 2026, [A&A](#), **705**, 95  
*Warm absorber outflows in radio-loud active galactic nucleus 3C 59*
- Gonzalez, A. G., Gallo, L.C., Ingram, A. et al. 2025, [ApJ](#), **994**, 151  
*Spectrotemporal Analysis of X-Ray Reverberation in the Seyfert 1.5 Galaxy 4U 1344–60*
- XRISM collaboration 2025, [Nature](#), **641**, 1132  
*Structured ionized winds shooting out from a quasar at relativistic speeds*
- Wang, Y.J., Wang, T., Xu, K., et al. 2024, [ApJ](#), **980**, 107  
*Minor-merger induced star formation rejuvenation in an elliptical radio-loud quasar host, 3C 59*
- Feng, H.C., Li, S.S., Bai, J.M., et al. 2024, [ApJ](#), **979**, 131  
*Reverberation Mapping of Two Variable Active Galactic Nuclei: Probing the Distinct Characteristics of the Inner and Outer Broad-line Regions*
- Thomas, B. P., Wheeler, J. C., Dwarkadas, V. V., et al. 2022, [ApJ](#), **930**, 57  
*Seven Years of SN 2014C: A Multiwavelength Synthesis of an Extraordinary Supernova*
- Parker, M. L., Alston, W. N., Härer, L., et al. 2021, [MNRAS](#), **508**, 1798  
*The nature of the extreme X-ray variability in the NLS1 1H 0707-495*
- Zhou, M., Abdikamalov, A. B., Ayzenberg, D., et al. 2019, [Europhysics Letters](#), **125**, 30002  
*Singularity-free black holes in conformal gravity: New observational constraints*
- Bambi, C., Abdikamalov, A. B., Ayzenberg, D., et al. 2018, [Universe](#), **4**, 79  
*relxill\_nk: A Relativistic Reflection Model for Testing Einstein’s Gravity*

**Non-Peer-Reviewed Publications**

- Abdikamalov, A. B., Ayzenberg, D., Bambi, C., et al. 2019, [MDPI Proceedings](#), **17**, 2  
*Testing general relativity with supermassive black holes using X-ray reflection spectroscopy*