

XIN XIANG (CINDY)

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EDUCATION

University of Michigan - Ann Arbor
Ph.D. in Astronomy and Astrophysics

2024 - present
Supervised by Dr. Jon M. Miller

Research Interest: X-ray Spectroscopy, Tidal Disruption Events, Outflow winds from black hole accretion disks.

University of Michigan - Ann Arbor
M.S. in Astronomy and Astrophysics

2022 - 2024
Overall GPA: 3.9/4.0

Georgia Institute of Technology
B.S. in Physics - Astrophysics Concentration (with highest honor)
Minor in Computer Science - Intelligence

2019 - 2022
Overall GPA: 4.0/4.0

Undergraduate Thesis: “Including a Warm Corona in Active Galactic Nucleus Accretion Discs.” *Supervised by Dr. David Ballantyne*

PUBLICATIONS

10. Miller, J. M., **Xiang, X.**, et al. The 0.9 Ms XRISM/Resolve Spectrum of the Seyfert 1 Active Galactic Nucleus NGC 4151. *ApJL* 1003, L34 (2026)
9. **Xiang, X.** et al. Multi-layered Fast Wind observed in XMM-Newton snapshot of Seyfert 1 Markarian 877. *ApJ* 995, 184 (2025).
8. Miler, J. M., et al. incl. **Xiang, X.**, XRISM Spectroscopy of the Stellar-mass Black Hole GRS 1915+105. *ApJL* 995, L14 (2025)
7. Miler, J. M., **Xiang, X.**, et al. XRISM/Resolve Spectroscopy of the Central Engine in the Seyfert-1 AGN Mrk 279. *ApJL* 994, L10 (2025).
6. **Xiang, X.** et al. XRISM Spectroscopy of Accretion-driven Wind Feedback in NGC 4151. *ApJL* 988, L54 (2025).
5. XRISM Collaboration. et al. incl. **Xiang, X.** XRISM Spectroscopy of the Fe K α Emission Line in the Seyfert Active Galactic Nucleus NGC 4151 Reveals the Disk, Broad-line Region, and Torus. *ApJL* 973, L25 (2024).
4. **Xiang, X.** et al. Investigating the Mass of the Black Hole and Possible Wind Outflow of the Accretion Disk in the Tidal Disruption Event AT2021ehb. *ApJ* 972, 106 (2024).
3. Miller, J. M. et al. incl. **Xiang, X.** Evidence of a Massive Stellar Disruption in the X-Ray Spectrum of ASASSN-14li. *ApJL* 953, L23 (2023).
2. **Xiang, X.** et al. REXCOR: a model of the X-ray spectrum of active galactic nuclei that combines ionized reflection and a warm corona. *MNRAS* 515, 353–368 (2022).
1. Ballantyne, D. R. & **Xiang, X.** Sustaining a warm corona in active galactic nucleus accretion discs. *MNRAS* 496, 4255–4265 (2020).

TALKS

9. **248th Annual Meeting of the American Astronomical Society** Pasadena, CA, “XRISM Spectroscopy of Accretion-driven Wind Variability of NGC 4151: Evidence for state-dependent transient fast outflows”, Oral Presentation, June 16th, 2025.
8. **Press Conference of 248th Annual Meeting of the American Astronomical Society** Pasadena, CA, “XRISM Reveals Changing Accretion-Driven Winds in a Nearby Active Galaxy”, Oral Presentation, June 15th, 2025.
7. **22nd Meeting of the High Energy Astrophysics Division**, Hilton St. Louis at the Ballpark, St. Louis, Missouri, “XRISM spectroscopy of Accretion-driven Wind Feedback in NGC 4151”, Oral Presentation, Oct 14th, 2025.
6. **Compact Objects Meeting in Michigan and Ontario**, University of Michigan-Flint, “XRISM spectroscopy of Accretion-driven Wind Feedback in NGC 4151”, Oral Presentation, September 26th, 2025.
5. **XRISM 7th Science Meeting**, Arizona State University, Tempe, Arizona, “Five XRISM X-ray Spectroscopy of the Seyfert AGN NGC 4151: Resolving Variable Multi-layer Warm Absorbers and Fast Outflows”, Oral Presentation, February 24th, 2025.
4. **245th Annual Meeting of the American Astronomical Society** National Harbor, MD, “Five XRISM X-ray Spectra of the Seyfert AGN NGC 4151: Resolving Variable Multi-layer Warm Absorbers and Fast Outflows”, Oral Presentation, January 16, 2025.
3. **XRISM 6th Science Meeting**, Tokyo Metropolitan University, Tokyo, Japan, “NGC 4151 Winds: Warm Absorbers and Fast Outflows”, Oral Presentation, Sep 27, 2024
2. **Compact Objects Meeting in Michigan and Ontario**, Wayne State University, MI, “Chandra High-Resolution X-ray Spectroscopy of the Tidal Disruption Event: AT2021ehb”, Oral Presentation, May 12, 2023
1. **15th Annual Undergraduate Research Spring Symposium**, Georgia Institute of Technology, GA, “Including a Warm Corona in Active Galactic Nuclei accretion discs”, Oral Presentation, April 22, 2021.

APPROVED OBSERVING PROPOSALS

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| JWST Cycle 5 GO 11687 – 9.9 hours | PI |
| <i>EXHALE: Expelling the X-ray High-energy winds to InfrAred-traced gaLactic scale fEedback - Tracing multiphase outflows in Mrk 877</i> | |
| Magellen 2026A – Half night | PI |

MEDIA MENTIONS/PRESS RELEASE

2. “Revealing How and When a Black Hole’s Mighty Winds Can Squash Star Formation,” University of Michigan News, June 2026. <https://news.umich.edu/revealing-how-and-when-a-black-holes-mighty-winds-can-squash-star-formation/>
1. “Blown Away by the Winds of NGC 4151,” AAS Nova, August 2025. <https://aasnova.org/2025/08/04/blown-away-by-the-winds-of-ngc-4151/>

HONORS AND AWARDS

- Amelia Earhart Fellowship 2026** *June 2026*
Zonta International
- Rackham International Student Fellowship** *November 2024*
Rackham Graduate Program, University of Michigan
- The 2023 Astronomy Department DEI Champion Award** *June 2023*
Department of Astronomy, University of Michigan
- President's Undergraduate Research Travel Awards** *December 2022*
Undergraduate Research Opportunities Program, Georgia Institute of Technology
- Letson Summer Internship Awards** *April 2021*
The School of Physics, Georgia Institute of Technology
- President's Undergraduate Research Salary Awards** *April 2020*
Undergraduate Research Opportunities Program, Georgia Institute of Technology

TEACHING EXPERIENCE

- Graduate Student Instructor** *Jan 2023 - Dec 2023*
Department of Astronomy, University of Michigan
- Teaching Assistant and Labs Instructor for Astronomy 102 - Stars, Galaxies, and the Universe
- Undergraduate Teaching Assistant** *January 2022 - May 2022*
The School of Physics, Georgia Institute of Technology
- Mentor / Group Leader / 1-to-1 Tutor** *December 2020 - May 2021*
Tutoring and Academic Support, Office of Undergraduate Education, Georgia Institute of Technology
- Hold small group meetings and provide training for current 1-to-1 tutors
 - Conduct evaluations for tutors as general supervision of group members
 - Organize and conduct orientation at the beginning of the semester

VOLUNTEER/SERVICE/OUTREACH

- Graduate Student Summer Event Organizer** *May 2025 - August 2025*
Department of Astronomy, University of Michigan
- Organize summer cohort building events
- Equi-TEA Talk: A Discussion on Women in Astronomy** *March 29th 2025*
Department of Astronomy, University of Michigan
- Graduate Practice Preliminary Exam Coordinator** *August 2024 - May 2025*
Department of Astronomy, University of Michigan
- Support for the second-years with the prelim exam
- FEMMES coordinator/volunteer** *August 2022 - December 2024*
Department of Astronomy, University of Michigan
- Developing lesson plans and coordinating with FEMMES outreach events.
 - Aiming to inspire local women+ teenagers to pursue STEM careers.

SKILLS/INTERESTS

**Computer Languages
Software & Tools**

Python, C/C++, Java, Assembly, Fortran
Matplotlib, NumPy, SciPy, PyTorch, Scikit-learn
HEAsoft, Xspec, SPEX

Music

Music Sheet Transcript, Piano Performance
Piano level 10 certificate (Central Conservatory of Music)

Language

Chinese: Native, English: Proficient

Sports

Student Pilot (30 hours engine time), Rock climbing (5.12/v5)