

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: Outflow winds from black hole accretion disks, AGN outflow and feedback, Tidal Disruption Events, Supermassive Black holes, Accretion Disk.

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)

2019 - 2022

Overall GPA: 4.0/4.0

Minor in Computer Science - Intelligence

Undergraduate Thesis: "Including a Warm Corona in Active Galactic Nucleus Accretion Discs."

Supervised by Dr. David Ballantyne

PUBLICATIONS

ORCID: 0000-0002-7129-4654 | [ADS Library](#) | [Google Scholar](#)

*5 first author publications, 9 co-author publications, 4 ATels
h-index: 6; total citations: 167 (Google Scholar, August 2026)*

Refereed Publications

14. **Xiang, X.** et al. XRISM Spectroscopy of Variable Accretion-driven Disk Winds in NGC 4151: When, Where, and How Fast Outflows are Launched. *ApJ* ccepted (2026) [arXiv](#).
13. Ketchum, S., et al. incl. **Xiang, X.** X-ray Flaring and Variability in NGC 1275, the Heart of the Perseus Cluster. *ApJ* accpeted (2026). [arXiv](#)
12. Mehdipour, M., et al. incl. **Xiang, X.** Dissecting the Nuclear Structure of NGC 5548 with XRISM. I. Physical Properties of the Highly Ionized Outflows. *ApJ* accepted (2026) [arXiv](#).
11. Miller, J. M., Zoghbi, A., **Xiang, X.**, et al. Reverberation in the Narrow Fe K α Line in the Seyfert Galaxy NGC 4151 with XRISM. *ApJL* 1005, L48 (2026).
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. Miller, J. M., et al. incl. **Xiang, X.**, XRISM Spectroscopy of the Stellar-mass Black Hole GRS 1915+105. *ApJL* 995, L14 (2025).
7. Miller, 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 \(2020\)](#).

Astronomer's Telegrams

4. Hu, T. S., Ketchum, S., Tananko, V., Byun, D., **Xiang, X.**, & Miller, J. M. Swift Observations of SN 2025coe, a Potential Ca-rich SN Ib. The Astronomer's Telegram, [17138, 1 \(2025\)](#).
3. Tananko, V., Ketchum, S. B., Hu, T. S., Byun, D., **Xiang, X.**, & Miller, J. M. Swift Observations of Mrk 1310. The Astronomer's Telegram, [16932, 1 \(2024\)](#).
2. Ketchum, S. G., Hu, T. S., Tananko, V., Byun, D., **Xiang, X.**, & Miller, J. M. Recent Swift Observations of SS Cyg. The Astronomer's Telegram, [16933, 1 \(2024\)](#).
1. Miller, J. M., Draghis, P. A., Brumback, M. C., Bogensberger, D., Reynolds, M., et al. incl. **Xiang, X.** Probable Dust Scattering Rings from Flaring in the Black Hole GRS 1915+105. The Astronomer's Telegram, [15976, 1 \(2023\)](#).

TALKS

Invited Talks

KIPAC Tea Talk, Stanford University, Stanford, CA.	October 2, 2026
Astronomy Lunch Talk, Penn State, University Park, PA.	September 6, 2026
Astronomy Tea Talk, Caltech, Pasadena, CA.	June 22, 2026

Contributed Talks and Presentations

248th AAS meeting Pasadena, CA, "XRISM Spectroscopy of Accretion-driven Wind Variability of NGC 4151: Evidence for state-dependent transient fast outflows ", Oral Presentation, June 16, 2026.

Press Conference of the 248th AAS Meeting, Pasadena, CA, "XRISM Reveals Changing Accretion-Driven Winds in a Nearby Active Galaxy", Oral Presentation, June 15, 2026.

22nd HEAD meeting, Hilton St. Louis at the Ballpark, St. Louis, Missouri, "XRISM spectroscopy of Accretion-driven Wind Feedback in NGC 4151", Oral Presentation, Oct 14th, 2025.

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.

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.

245th AAS Meeting, 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.

XRISM 6th Science Meeting, Tokyo Metropolitan University, Tokyo, Japan, "NGC 4151 Winds: Warm Absorbers and Fast Outflows", Oral Presentation, Sep 27, 2024

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

APPROVED OBSERVING PROPOSALS

JWST Cycle 5 GO 11687 – 9.9 hr – \$128k	PI
EXHALE: Expelling the X-ray High-energy Winds to Infrared-traced Galactic-scale Feedback – Tracing Multiphase Outflows in Mrk 877	
Magellan 2026A – Half night	PI
XRISM Cycle 2, GRS 1915+105, 150 ks	Co-I
XRISM Cycle 1, NGC 4151, 360 ks	Co-I
XRISM Cycle 1, Mrk 279, 150 ks	Co-I
XRISM Cycle 1, GRS 1915+105, 39 ks	Co-I

MEDIA MENTIONS/PRESS RELEASE

[“Revealing How and When a Black Hole’s Mighty Winds Can Squash Star Formation,”](#)
University of Michigan News, June 2026.

[“Blown Away by the Winds of NGC 4151,”](#)
AAS Nova, August 2025.

HONORS AND AWARDS

Amelia Earhart Fellowship 2026 – \$10k <i>Zonta International</i>	<i>June 2026</i>
Rackham International Student Fellowship – \$14.6k <i>Rackham Graduate Program, University of Michigan</i>	<i>November 2024</i>
The 2023 Astronomy Department DEI Champion Award <i>Department of Astronomy, University of Michigan</i>	<i>June 2023</i>
President’s Undergraduate Research Travel Awards – \$1k <i>Undergraduate Research Opportunities Program, Georgia Institute of Technology</i>	<i>December 2022</i>
Letson Summer Internship Awards – \$5.4k <i>The School of Physics, Georgia Institute of Technology</i>	<i>April 2021</i>
President’s Undergraduate Research Salary Awards– \$2k <i>Undergraduate Research Opportunities Program, Georgia Institute of Technology</i>	<i>April 2020</i>

TEACHING EXPERIENCE

Graduate Student Instructor <i>Department of Astronomy, University of Michigan</i>	<i>Jan 2023 - Dec 2023</i>
Undergraduate Teaching Assistant <i>The School of Physics, Georgia Institute of Technology</i>	<i>January 2022 - May 2022</i>
Mentor / Group Leader / 1-to-1 Tutor <i>Tutoring and Academic Support, Office of Undergraduate Education, Georgia Institute of Technology</i>	<i>December 2020 - May 2021</i>

VOLUNTEER/SERVICE/OUTREACH

Graduate Student Summer Event Organizer
Department of Astronomy, University of Michigan

May 2025 - August 2025

Equi-TEA Talk: A Discussion on Women in Astronomy
Department of Astronomy, University of Michigan

March 29th 2025

Graduate Practice Preliminary Exam Coordinator
Department of Astronomy, University of Michigan

August 2024 - May 2025

FEMMES Coordinator/Volunteer
Department of Astronomy, University of Michigan

August 2022 - December 2024

Mid-Autumn Festival Talk: Chang'e Flying to the Moon
Detroit Observatory, University of Michigan

Sep 2023, Sep 2024

SKILLS/INTERESTS

**Computer Languages
Software & Tools**

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

**Language
Music**

Chinese: Native, English: Fluent
Music Sheet Transcription, Piano Performance
Piano level 10 certificate (Central Conservatory of Music)

Sports

Student Pilot, Rock climbing