

# Rebecca Kyer

✉ rkyer@msu.edu • in rebecca-kyer-620457153  
ID 0009-0006-2411-5162 • ORCID iD rkyer

## Education

<b>MICHIGAN STATE UNIVERSITY</b> Ph.D. Candidate, Astrophysics and Astronomy M.S., Astrophysics and Astronomy	<b>East Lansing, MI</b> <i>Aug 2022 – present</i> <i>Nov 2024</i>
<b>UNIVERSITY OF WASHINGTON</b> B.S., Physics and Astronomy <i>Astronomy Departmental Honors</i>	<b>Seattle, WA</b> <i>Jun 2021</i>

## Publications

### Refereed.....

4. "Multiwavelength Evidence for Two New Candidate Transitional Millisecond Pulsars in the Sub-luminous Disk State: 4FGL J0639.1–8009 and 4FGL J1824.2+1231." **Kyer, R.**, Roy, S., Strader, J., et al. 2025, ApJ, 983, 112
3. "A survey for radio emission from white dwarfs in the VLA Sky Survey." Pelisoli, I., Chomiuk, L., Strader, J., et al. (incl. **Kyer, R.**) 2024, MNRAS, 531, 1805
2. "Monitoring the X-ray variability of bright X-ray sources in M33." **Kyer, R.**, Albrecht, S., Williams, Benjamin F., et al. 2024, ApJ, 961, 168
1. "Revisiting the classics: on the evolutionary origin of the 'Fe II' and 'He/N' spectral classes of novae." Aydi, E., Chomiuk, L., Strader, J. et al. (incl. **Kyer, R.**) 2024, MNRAS, 527, 9303

### Non-refereed.....

Transient Name Server Classification Report No. 2024-2571, classification of SN 2024pxg as a SN II. Bostroem, K. A., **Kyer, R.**, Strader, J. et al. 2024  
Various classification reports in The Astronomer's Telegram (No. 16583, 16440, 16294)

## Telescope Time

XMM-Newton AO-24 proposal ID 096163, 57 ksec, Scientific PI	2025
Swift Target of Opportunity ID 21032, 8.5 ksec, PI	Aug 2024
Swift Target of Opportunity ID 20572, 3.8 ksec, PI	June 2024
130+ hours remote observing with the 4.1-m SOAR telescope (Chile)	2023–present

## Research Presentations

ESAC XMM-Newton Science Workshop Poster (Madrid, Spain)	June 2024
Compact Objects in Michigan and Ontario Talk (Dearborn, MI)	May 2024

## Research Advising Experience

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Subhroja Roy, MSU Bachelor's Senior Thesis

May 2024–May 2025

## Technical Skills

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Optical photometry and single slit spectroscopy acquisition, reduction and analysis; X-ray reduction and analysis; pulsar timing; certified Green Bank Telescope remote observer; synthesis of large multiwavelength archival and survey datasets.

**Software:** Python, IRAF, SAOImage DS9, CIAO, xspec, pimms

## Outreach Activities

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Letters to a Pre-Scientist Penpal

Oct 2024–present

Astronomy on Tap Speaker (Lansing, MI)

Nov 2023, Apr 2025

Campus Observatory Public Night Volunteer (East Lansing, MI)

Aug 2022–present

## Professional Service

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NASA AXIS CO/SNR Working Group Member

Dec 2024–present

Astronomy Seminar Host

Oct 2024

P-A Research Experiences for Drew Scholars Junior Director

Apr 2024–present

Faculty Search Committee Graduate Student Representative

Feb 2024

Stellar Mentorship Program Coordinator and Peer Mentor

Aug 2023–present

Astro Coffee Journal Club Organizer

Jun 2023–present

## Awards and Honors

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Honorable Mention, NSF Graduate Research Fellowship

Apr 2024

Graduate Teaching Assistant Award, MSU Department of Physics and Astronomy

Apr 2024,  
Apr 2023

Harlo Mervyn Mork Excellence in Teaching Award, MSU College of Natural Science

Nov  
2023

Baer Prize for Excellence in Research, Academics and Outreach, UW Department of Astronomy

May  
2021

## Teaching Experience

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Teaching Assistant AST 208: Planets and Telescopes (1 section; 30 students; MSU)

2024

Jan–May

Teaching Assistant ISP 205L: Visions of the Universe (6 sections; 400 students; MSU)

2022–Dec 2023

Aug

Instructor GEN ST 199: Astronomy First-year Interest Group (1 section; 30 students; UW)

Sep–Dec 2020