

LOREN J. ROBINSON

Ph.D. Candidate
Department of Astronomy
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EDUCATION

- 2023 – Present* **University of Wisconsin-Madison**, Madison, WI.
PhD in Physics, expected in 2028.
MSc in Astronomy, conferred August 2025.
Advisor: Dr. Catherine Grier.
- 2019 – 2023* **The Ohio State University**, Columbus, OH.
Bachelor of Science in Physics, Astronomy, and Astrophysics, May 2023.

RESEARCH POSITIONS

- 2023 – Present* **University of Wisconsin-Madison**, Madison, WI.
Graduate research assistant studying broad absorption line variability and developing reverberation mapping lags for SDSS quasars in the sdss-rm field.
- 2022* **University of Hawai'i**, Honolulu, HI.
Research Experience for Undergraduates (REU) Summer Researcher in Extragalactic Astronomy.
- 2021-2022* **Ohio State University**, Columbus, OH.
Assisting the ATLAS group at Ohio State University with analysis of optical shifts during VCSEL (vertical-cavity surface-emitting laser) production.

PUBLICATIONS

- L. Robinson et al. *The Connection Between PAH and MIR Emission Features and Physical Processes in Ultra Luminous Infrared Galaxies*. In: ApJ. [arXiv:2601.09810](#) (2026).
- D. Farrah et al. *How accurately can obscured galaxy luminosities be measured using spectral energy distribution fitting of near- through far-infrared observations?* ApJ, **997** 150. [arXiv:2511.13849](#) (2026).
- L. Robinson et al. *The SDSS-V Black Hole Mapper Reverberation Mapping Project: Investigating Coordinated Variability in BAL Quasars*. In Prep.

AWARDS AND SCHOLARSHIPS

- 2025* Wisconsin Space Grant Consortium Graduate & Professional Research Fellowship
- 2023* L. Earl Slusher Scholarship
- 2023* Finalist in Seventh Annual American Statistical Association DataFest Competition
- 2021* Second-Year Transformational Experience Program Fellowship Recipient (OSU)
- 2020* Helen Cowan Book Award winner
- 2019 – 2023* 8x Ohio State University Dean's List
- 2019 – 2023* Provost Scholarship

2019 – 2023 Jillian Schrader-Towne Memorial Math Scholarship

RECENT CONFERENCES AND WORKSHOPS

Jan. 2026 SDSS-V Black Hole Mapper Meeting (Remote) – poster and invited talk
Dec. 2025 Highly accreting supermassive black holes across all cosmic times: from the Local Universe to Cosmic Dawn (Remote) – poster
Aug. 2025 Code/Astro Workshop (Evanston, Illinois)
June 2025 246th American Astronomical Society Meeting (Anchorage, Alaska) – talk given
June 2024 AAS Software Carpentry Workshop (Madison, Wisconsin)
June 2024 244th American Astronomical Society Meeting (Madison, Wisconsin) – poster
Jan. 2023 241st American Astronomical Society Meeting (Seattle, Washington) – poster
Nov. 2022 Ohio State Second-Year Transformational Experience Program Expo (Columbus, Ohio) – poster
July 2022 University of Hawaii Summer Undergraduate Research Experience Symposium (Honolulu, Hawai'i) – poster
July 2022 University of Hawaii Research Experience for Undergraduates Symposium (Honolulu, Hawai'i) – poster

TECHNICAL SKILLS

Programming

Data Analysis, Machine Learning, Python (Pandas, Numpy, Scipy, Scikit-learn & more), SQL, HTML, GitHub/git, Linux, Bash, LaTeX, C++, Mathematica

Languages

English (native speaker), American Sign Language (elementary proficiency)

Systems

The University of Utah Center for High Performance Computing (CHPC), Ohio Supercomputer Center (OSC), CERN's LXPLUS

TEACHING EXPERIENCE

2025 – Present **Teaching Assistant – University of Wisconsin-Madison**
 Astronomy 140 – Earth 2.0: Exoplanet Revolution
 Astronomy 103 – The Evolving Universe: Stars, Galaxies, & Cosmology
2024 – Present **Grader – University of Wisconsin-Madison**
 Astronomy 200 – The Physical Universe
 Astronomy 103 – The Evolving Universe: Stars, Galaxies, & Cosmology
2022 – 2023 **Instructional Assistant – The Ohio State University**
 Astronomy 1101 – From Planets to the Cosmos
 Astronomy 1221 – Astronomy Data Analysis

RELEVANT COURSEWORK

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| <i>Fall 2024</i> | Data Science Programming II <ul style="list-style-type: none">• Use basic machine learning techniques, including regression, classification, clustering, and decomposition. |
| <i>Fall 2023</i> | Introduction to Artificial Intelligence <ul style="list-style-type: none">• Applied the foundational tools in Machine Learning and Artificial Intelligence. Understand core techniques in Natural Language Processing.• Consider how Artificial Intelligence and Machine Learning problems are applied in Real - World settings and the Ethics of Artificial Intelligence. |
| <i>Fall 2022</i> | Big Data Analytics <ul style="list-style-type: none">• Introduction to machine learning and advanced algorithms, with an emphasis on practical physics-based applications. |

SERVICE

University Service

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| <i>2025 – Present</i> | Undergraduate Research Mentor <p>Research mentor to an undergraduate student at UW-Madison.</p> |
| <i>2025 – Present</i> | Graduate Student Peer Mentor <p>Peer mentor to an incoming first-year graduate student in astronomy.</p> |

Public Engagement

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| <i>2025 – Present</i> | Universe in the Park – Presenter <p>Travel to Wisconsin state parks to deliver presentations to the public. Set up a telescope and provide park visitors with the opportunity to view available astronomical objects.</p> |
| <i>2025 – Present</i> | Washburn Observatory – Host <p>Open and run the observatory for public observing nights.</p> |