

# LOREN J. ROBINSON

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## EDUCATION

- 2023 – Present*     **University of Wisconsin-Madison**, Madison, WI.  
PhD in Astronomy, 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*. *ApJ*, **999** 25. [arXiv:2601.09810](https://arxiv.org/abs/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](https://arxiv.org/abs/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

- 2026*     Blair Savage Astronomy Travel Fund Recipient
- 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

- March 2026* Language AI in the Space Sciences (Baltimore, Maryland)  
*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**

May 6, 2026

Astronomy 1101 – From Planets to the Cosmos

Astronomy 1221 – Astronomy Data Analysis

## RELEVANT COURSEWORK

- Fall 2024*      **Data Science Programming II**
- Use basic machine learning techniques, including regression, classification, clustering, and decomposition.
- Fall 2023*      **Introduction to Artificial Intelligence**
- 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.
- Fall 2022*      **Big Data Analytics**
- Introduction to machine learning and advanced algorithms, with an emphasis on practical physics-based applications.

## SERVICE

### University Service

- 2025 – Present*      **Undergraduate Research Mentor**  
 Research mentor to an undergraduate student at UW-Madison.
- 2025 – Present*      **Graduate Student Peer Mentor**  
 Peer mentor to an incoming first-year graduate student in astronomy.

### Broader Service

- 2026*      **Code/Astro Teaching Assistant**  
 Teach fundamental software engineering skills and best practices for building sustainable open-source packages for astronomy applications.

### Public Engagement

- 2025 – Present*      **Universe in the Park – Presenter**  
 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.
- 2025 – Present*      **Washburn Observatory – Host**  
 Open and run the observatory for public observing nights.