LOREN J. ROBINSON

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EDUCATION

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

RESEARCH EXPERIENCE

2023 – Present	**Graduate Research Assistant** University of Wisconsin-Madison with Dr. Catherine Grier
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.

D. Farrah et al. *How accurately can obscured galaxy luminosities be measured using spectral energy distribution fitting of near- through far-infrared observations?* In: ApJ.

L. Robinson et al. *The SDSS-V Black Hole Mapper Reverberation Mapping Project: Investigating Coordinated Variability in BAL Quasars.* In Prep.

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

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

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

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

January 2026	SDSS-V Black Hole Mapper Meeting (Remote) – poster and invited talk
December 2025	Highly accreting supermassive black holes across all cosmic times: from the Local Universe to Cosmic Dawn (Remote) – poster
August 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
January 2023	241st American Astronomical Society Meeting (Seattle, Washington) – poster
November 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

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.

Outreach

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.

Washburn Observatory – Host

Open and run the observatory for public observing nights.

Mentorship

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