

Erik J. Wasleske, Ph.D.

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| CONTACT INFORMATION | Department of Astronomy University of Illinois 125 Astronomy Building 1002 W Green St Urbana, IL 61801 | wasleske@illinois.edu orcid.org/0000-0003-3986-9427 |
| RESEARCH INTERESTS | Active galactic nuclei, dwarf galaxies, galaxy evolution | |
| EDUCATION | PhD in Physics Department of Physics and Astronomy, Washington State University Thesis: <i>Construction and Analysis of an Active Dwarf Galaxies Database</i> Advisor: Vivienne Baldassare | April 2025 |
| | MS in Physics Department of Physics and Astronomy, Washington State University Advisor: Vivienne Baldassare | Dec. 2021 |
| | BS in Physics - Professional Studies School of Physics and Astronomy, University of Minnesota Minor in Mathematics | May 2019 |
| | BS in Astrophysics School of Physics and Astronomy, University of Minnesota Thesis: <i>Lensed Supernova Polarimetry</i> Advisor: Patrick Kelly | May 2019 |
| PROFESSIONAL EXPERIENCE | Department of Astronomy, University of Illinois Postdoctoral Research Associate Supervisor: Xin Liu | 2025–present |
| | Department of Physics and Astronomy, Washington State University Graduate Research Assistant Supervisor: Vivienne Baldassare | 2021–2025 |
| | Minnesota Institute for Astrophysics, University of Minnesota Undergraduate Teaching Assistant | 2018–2019 |
| AWARDS | NASA Space Grant Fellowship in Physics, Washington State University, \$2,500 | 2023 |
| | NASA Space Grant Fellowship in Physics, Washington State University, \$2,500 | 2022 |
| | Ralph F. Simmons, Jr. Graduate Fellowship in Physics, Washington State University, \$1,500 | 2020 |

FIRST-AUTHOR
PUBLICATIONS

Wasleske, Erik J., Baldassare, Vivienne F., Carroll, Christopher M. *submitted*, “Active Dwarf Galaxy Database II: Investigating the Connection between Host Galaxy Parameters and Black Hole Accretion Signatures”.

Wasleske, Erik J. and Baldassare, Vivienne F. 2024, ApJ, 971, 68. “Active Dwarf Galaxy Database I: Overlap between active galactic nuclei selected by different techniques”.

Wasleske, Erik J. and Baldassare, Vivienne F. 2023, AJ, 166, 64. “X-ray Emissions of Ultraviolet Variable Active Galactic Nucleus Candidates”.

Wasleske, Erik J., Baldassare, Vivienne F., Carroll, Christopher M. 2022, ApJ, 933, 37. “Variable Active Galactic Nuclei in the Galaxy Evolution Explorer Time Domain Survey”.

CO-AUTHOR
PUBLICATIONS

Danieli, Shany et al. *including Wasleske, Erik J.* 2024, arXiv:2410.01884. “Merian: A Wide-Field Imaging Survey of Dwarf Galaxies at $z \sim 0.06 - 0.1$ ”.

Luo, Yei, et al. *including Wasleske, Erik J.* 2024, MNRAS 530, 4. “The Merian Survey: Design, Construction, and Characterization of a Filter Set Optimized to Find Dwarf Galaxies and Measure their Dark Matter Halo Properties with Weak Lensing”.

Kehoe, Emily, Baldassare, Vivienne F., Geha, Marla, **Wasleske, Erik J.**, Reines, Amy E., Hainline, Kevin 2022, ApJ submitted. “Active galactic nuclei in two star-forming dwarf galaxies with persistent broad lines”.

PRESENTATIONS

Contributed Talks

The Formation and Early Evolution of Supermassive Black Holes
November 2024

Baltimore, MD, USA

“Investigating the Diverse Signatures of Active Dwarf Galaxies”

Northwest Section of the APS 24th Annual Meeting June 2024
Bothell, WA, USA

“Inspecting Selection Techniques of Active Dwarf Galaxies”

Massive Black Holes in the First Billion Years April 2024
Kinsale, Ireland

“Investigating Selection Techniques of Active Dwarf Galaxies”

Three Minute Thesis (3MT)[®] Competition March 2024
Pullman, WA, USA

“Hunting Tiny Monsters: Constructing a Database of Black Holes in Dwarf Galaxies”

Northwest Section of the APS 23th Annual Meeting October 2023
Nampa, ID, USA

“X-ray Emission of Variable Active Galaxy Candidates from the GALEX Time-Domain Survey”

Origin, Growth, and Feedback of Black Holes in Dwarf Galaxies
September 2022

San Sebastian, Spain

“Variable Low-Mass AGN in the GALEX Time-Domain Survey”

Intermediate-Mass Black Holes: April 2022
New Science from Stellar Evolution to Cosmology

San Juan, Puerto Rico

“Variable Low-Mass AGN in the GALEX Time-Domain Survey”

Posters

Graduate and Professional Student Association Academic Showcase
March 2024

Washington State University

“Constructing a Database of Dwarf Galaxies with Active Black Holes”

Graduate and Professional Student Association Research Exposition
March 2023

Washington State University

“X-ray Properties of Ultraviolet Variable Active Galaxies”

Graduate and Professional Student Association Academic Showcase
March 2022

Washington State University

“Variable Active Galaxies in the GALEX Time-Domain Survey”

TEACHING & MENTORING EXPERIENCE

Graduate Student Mentor

Research Experience for Undergraduates (REU) — Washington State
University

Summer 2021, Summer 2022

Served as the first contact point for advising the summer research
project of two students.

Teaching Assistant

AST 2001, Introduction to Astrophysics — University of Minnesota
2018–19

Tutoring and grading for undergraduate students.

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| OBSERVING EXPERIENCE | Observer Merian Survey - Cerro Tololo Inter-American Observatory, Blanco 4-m Telescope Part of a remote team collecting imaging data using custom medium band filters. | |
| SERVICE & OUTREACH | Reviewer - The Astrophysical Journal Session Chair - Astronomy I Northwest Section of the APS 24th Annual Meeting Member of Graduate Recruitment Committee Physics Astronomy Department Washington State University Treasurer Optica - Washington State University Student Chapter SPIE - Washington State University Student Chapter | 2025 - present June 2024 Fall 2023 - Fall 2024 Fall 2020 - Fall 2022 |
| PROFESSIONAL DEVELOPMENT | LINCC Frameworks Workshop and Hackathon LSST Discovery Alliance University of Arizona Summer School in Astroinformatics II Center for Astrostatistics Penn State University Summer School in Statistics for Astronomers XVII Center for Astrostatistics Penn State University Arecibo Observatory Single Dish Summer School Arecibo Observatory Arecibo, Puerto Rico | July 2025 June 2022 June 2022 May 2022 |
| PROFESSIONAL MEMBERSHIP | APS - American Physical Society LSST AGN Science Collaboration - Large Synoptic Survey Telescope | |
| REFERENCES | Vivienne Baldassare Assistant Professor Department of Physics and Astronomy Washington State University | vivienne.baldassare@wsu.edu +1 (509) 335-9179 |

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