

LOGAN FRIES PH.D.

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Research Interests

reverberation mapping, black hole spin, AGN coronal lines;
black hole-galaxy coevolution, active galaxies, galaxy mergers

Education

University of Connecticut

PH.D PHYSICS

- Advisor: Dr. Jonathan Trump
- Thesis: *Echo Mapping the Kinematic Environments of Supermassive Black Holes*

Storrs, CT

2019 - 2025

University of Missouri - Kansas City

B.Sc PHYSICS

- *cum laude*
- Minor in Mathematics
- Undergrad research advisor: Dr. Daniel McIntosh

Kansas City, MO

2015 - 2018

Professional Appointments

2025-2027 **Kavli Fellow**, Kavli Institute for Astronomy & Astrophysics, Peking University

2025-2027 **Boya Fellow**, Kavli Institute for Astronomy & Astrophysics, Peking University

Publication Record

5 primary author (first/second author) papers, [ADS Library](#).

12 total papers, 330 citations, h-index 7, [ADS Library](#).

PRIMARY AUTHOR PAPERS

5. **L.B. Fries**, K. Mantha et al., *Measuring the Physical Properties of Tidal Features out to $z \sim 0.8$ using DESI Photometry*, in preparation
4. **L.B. Fries**, J. Trump, et al., *The Sloan Digital Sky Survey Reverberation Mapping Project: Measuring the Evolution of Black Hole Spin Over Cosmic Time*, in preparation
3. T. Smith, **L.B. Fries**, et al., *The SDSS-V Black Hole Mapping Reverberation Mapping Project: Light Echoes of the Coronal Line Region in a Luminous Quasar*, submitted to *ApJ*
2. **L.B. Fries**, J. Trump, et al., *The SDSS-V Black Hole Mapper Reverberation Mapping Project: A Kinematically Variable Broad-line Region and Consequences for the Masses of Luminous Quasars*, [ApJ](#), **975**, 239, 2024
1. **L.B. Fries**, J. Trump, et al., *The SDSS-V Black Hole Mapper Reverberation Mapping Project: Unusual Broad-line Variability in a Luminous Quasar*, [ApJ](#), **948**, 5, 2023.

CONTRIBUTING AUTHOR PAPERS

7. Z. Stone et al., *The SDSS-V Black Hole Mapper Reverberation Mapping Project: Multi-Line Dynamical Modeling of a Highly Variable Active Galactic Nucleus with Decade-long Light Curves*, [arXiv](#), submitted to *ApJ*
6. R. Wheatley et al., *The SDSS-V Black Hole Mapper Reverberation Mapping Project: C IV Broad Absorption Line Acceleration in the Quasar SBS 1408+544*, [ApJ](#), **968**, 49, 2024
5. G. Zeltyn et al., *Exploring Changing-look Active Galactic Nuclei with the Sloan Digital Sky Survey V: First Year Results*, [ApJ](#), **966**, 85, 2024
4. H. Sharp et al., *The Sloan Digital Sky Survey Reverberation Mapping Project: Investigation of Continuum Lag Dependence on Broad-line Contamination and Quasar Properties*, [ApJ](#), **961**, 93, 2024

3. A. Almeida et al., *The Eighteenth Data Release of the Sloan Digital Sky Surveys: Targeting and First Spectra from SDSS-V*, *ApJS*, **267**, 44, 2023
2. G. Zeltyn et al., *A Transient "Changing-look" Active Galactic Nucleus Resolved on Month Timescales from First-year Sloan Digital Sky Survey V Data*, *ApJL*, **939**, 16, 2022.
1. K. Mantha et al., *Studying the physical properties of tidal features - I. Extracting morphological substructure in CANDELS observations and VELA simulations*, *MNRAS*, **486**, 2659, 2019.

Awards, Fellowships, & Grants

2025	Graduate Research Fellowship , NASA Space Grant Consortium	\$ 10,000
2020	Graduate Research Fellowship , NASA Space Grant Consortium	\$ 8,000

Invited Talks

* presenting author; † mentored undergraduate

*Black Hole Archaeology: Mapping the Growth History of Black Holes Across Cosmic Time. AAS245 Press Conference	2025
*Black Hole Archaeology: Mapping the Growth History of Black Holes Across Cosmic Time. NASA's Universe of Learning Program	2025

Conference Talks

* presenting author; † mentored undergraduate

*AAS 245 - National Harbor, <i>Black Hole Archaeology: Mapping the Growth History of Black Holes Across Cosmic Time</i>	2025
†Departmental Seminar - University of Connecticut, <i>Light Echoes of the Coronal Line Region</i>	2024
*MASCA - Université Côte d'Azur, <i>Mapping the Gas Kinematics Around Luminous Quasars with BHM-RM</i>	2023
*SDSS-V Collaboration Meeting - Simons Foundation, <i>Mapping the Gas Kinematics Around Luminous Quasars with BHM-RM</i>	2023
*New England Regional Quasar and AGN Meeting - URI, <i>The Dynamics of the Inner Environment of a Luminous Quasar</i>	2022
*BLAST II: Black Hole Across Space and Time - Yale University, <i>Unusual Variability in RM160</i>	2020

Teaching Experience

Spring 2025	PHYS 4070/6070 - Stars and Compact Objects , Guest Lecturer
Spring 2024	PHYS 1040 - Cosmic Origins of Life , Guest Lecturer

Mentoring

2024-2025	Teddy Smith , Undergraduate Researcher, University of Connecticut
2022-2023	David Menezes , Undergraduate Researcher, University of Connecticut

Outreach & Professional Development

SERVICE AND OUTREACH

2023- **Committee On Inclusiveness in SDSS-V (COINS)**, Member

PEER REVIEW

Monthly Notices of the Royal Astronomical Society (MNRAS)

The Astrophysical Journal (ApJ)

PROFESSIONAL MEMBERSHIPS

2023- **SDSS-V**, Member