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EDUCATION

- 2020 – 2025* **University of Connecticut (UConn)**, Storrs, CT.
PhD in Physics, conferred in 2025. MSc in Physics, conferred in 2022.
Thesis: Timing is Everything: Single and Binary Quasars in Massive Time-Domain Surveys
Advisor: Dr. Jonathan Trump
- 2015 – 2019* **Michigan State University (MSU)**, East Lansing, MI.
Bachelors of Science in Astrophysics with a minor in Computational Mathematics, Science, and Engineering.
Thesis: Modeling the Radial Migration of Stars and Gas in the Milky Way
Advisors: Dr. Brian O’Shea (MSU/JINA-CEE) and Dr. Benoit Côté (MSU/Konkoly Observatory)

RESEARCH POSITIONS

- 2025 – Present* Research Scientist (UConn)
- 2025 – Present* Post-Doctoral Research Scholar at the Institute of Astrophysics, Foundation for Research and Technology – Hellas (IA-FORTH; Greece)
- Feb – Oct 2025* Machine Learning Engineer (Pantheon Data)
- 2020 – May 2025* **NSF Graduate Research Fellow (UConn)**
Isaac S. and Lois W. Blonder Graduate Research Fellow (UConn)
- 2019 – 2020* Post-Baccalaureate Researcher in X-ray Binary Variability Studies (MSU)
- 2017 – 2020* Expert Observer at the MSU Observatory
- 2018 – 2019* Undergraduate Research Assistant in Computational Galactic Chemical Evolution (MSU)
- 2018* NASA (JPL) Summer Intern in Direct Exoplanet Detection with Roman
- 2017* International Research Experience for Students (IRES) Summer Researcher in Nuclear Astrophysics (UWRF/VUBrussels)
- 2016* Research Experience for Undergraduates (REU) Summer Researcher in Nuclear Astrophysics and Optics (UWRF)

AWARDS AND SCHOLARSHIPS

- 2024* UConn Doctoral Dissertation Fellowship
- 2024, 2023* UConn National Fellowships Incentive Program Award
- 2020 – 2021* The Isaac S. and Lois W. Blonder Graduate Research Fellowship (UConn)
- 2020 – 2025* NSF Graduate Research Fellowship
- 2019* 1st Prize in the University Undergraduate Research and Arts Forum (UU-RAF) for presenting a poster on undergraduate thesis work
- 2019* Outstanding Teaching Assistant Award (MSU)

- 2015 – 2019* The John F. and Edith L. Wilsterman Scholarship
2015 – 2019 Flint Kiwanis Educational Foundation Scholarship

INVITED TALKS AND PANELS

- January 2025* SDSS-V Black Hole Mapper Meeting - talk
November 2024 Northwestern/CIERA Observational Group Meeting - talk
October 2024 Harvard ITC Luncheon - talk
March 2024 Kansas University Astronomy Seminar - talk
November 2023 Yale Gravitational Wave Symposium - talk and panelist

RECENT CONFERENCES AND WORKSHOPS

- January 2026* SDSS-V Black Hole Mapper Meeting - poster and invited talk
January 2025 245th meeting of the American Astronomical Society (AAS) in National Harbor, MD - dissertation talk and splinter session talks given
July 2024 Catching supermassive black holes with Rubin-LSST: Towards novel insights and discoveries into AGN science, Turin, Italy - talk given
May 2024 Astrocodex Hack Day Conference, Yale
April 2024 Time-Domain Needles in Rubin's Haystacks Hack Workshop, Harvard CfA - hack lead
July 2023 Establishing Multi-messenger astronomy Inclusive Training (EMIT) Summer School, Vanderbilt
November 2022 SDSS Science Festival, Toronto, ON, Canada - talk given
October 2022 Astro Hack Week, Heidelberg, Germany
October 2022 SDSS Software Coding Week, Apache Point Observatory, Sunspot, New Mexico
May 2022 New England Regional Quasar and AGN Meeting (NERQUAM), UConn - talk given

TEACHING AND OUTREACH EXPERIENCE

- 2017 – Present* Academic (5) and Research Mentor (4) of Undergraduate Students
2022 – 2025 Satellite Co-Founder and Co-Organizer of Astronomy on Tap- Storrs, CT
2019 – 2020 Outreach Coordinator at the MSU Campus Observatory
2017 – 2019 Undergraduate Teaching Assistant (MSU) for AST 207, 208, ISP 205 (x2)

COMMITTEES

- 2025 – Present* Committee On INclusiveness in the SDSS (COINS) Member
2023 – 2024 UConn Physics Space (office assignment and room allocation) Committee
May 2022 Co-Lead of the Local Organizing Committee for NERQUAM 2022
2019 – 2020 MSU Astronomy Department Reporting Task Force

2019 – 2020 Co-Lead of the Stellar Mentorship Program at MSU

PUBLICATION LIST

This information can also be found on my [Google Scholar](#) page.

- [1] **Megan C Davis** et al. “The Consequences of Rubin Observatory Time-Domain Survey Design and Host-Galaxy Contamination on the Identification of Binary Supermassive Black Holes”. In: *arXiv preprint arXiv:2508.05742* (2025).
- [2] Adamane Pallathadka et al. “The Nineteenth Data Release of the Sloan Digital Sky Survey”. In: *arXiv preprint arXiv:2507.07093* (2025).
- [3] Logan B Smithand Fries et al. “The SDSS-V Black Hole Mapper Reverberation Mapping Project: Light Echoes of the Coronal Line Region in a Luminous Quasar”. In: *arXiv preprint arXiv:2510.16099* (2025).
- [4] Blanton et al. “robostrategy: Field and Target Assignment Optimization in the Sloan Digital Sky Survey V”. In: *arXiv preprint arXiv:2505.21328* (2025).
- [5] Kollmeier et al. “Sloan Digital Sky Survey-V: Pioneering Panoptic Spectroscopy”. In: *arXiv preprint arXiv:2507.06989* (2025).
- [6] **Megan C Davis** et al. “Reliable Identification of Binary Supermassive Black Holes from Rubin Observatory Time-domain Monitoring”. In: *The Astrophysical Journal* 965.1 (2024), p. 34.
- [7] Fries et al. “The SDSS-V black hole mapper reverberation mapping project: unusual broad-line variability in a luminous quasar”. In: *The Astrophysical Journal* 948.1 (2023), p. 5.
- [8] Shen et al. “The Sloan Digital Sky Survey Reverberation Mapping Project: Key Results”. In: *The Astrophysical Journal Supplement Series* 272.2 (May 2024), p. 26.
- [9] Sharp et al. “The Sloan Digital Sky Survey Reverberation Mapping Project: investigation of continuum lag dependence on broad-line contamination and quasar properties”. In: *The Astrophysical Journal* 961.1 (2024), p. 93.
- [10] Fries et al. “The SDSS-V Black Hole Mapper Reverberation Mapping Project: A Kinematically Variable Broad-Line Region and Consequences for Masses of Luminous Quasars”. In: *arXiv preprint arXiv:2409.12229* (2024).
- [11] Zeltyn et al. “Exploring Changing-look Active Galactic Nuclei with the Sloan Digital Sky Survey V: First Year Results”. In: *The Astrophysical Journal* 966.1 (2024), p. 85.
- [12] 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”. In: *arXiv e-prints arXiv:2408.04789* (2024).
- [13] Almeida et al. “The eighteenth data release of the Sloan Digital Sky Surveys: targeting and first spectra from SDSS-V”. In: *The Astrophysical Journal Supplement Series* 267.2 (2023), p. 44.
- [15] Zeltyn et al. “A Transient “Changing-look” Active Galactic Nucleus Resolved on Month Timescales from First-year Sloan Digital Sky Survey V Data”. In: *The Astrophysical Journal Letters* 939.1 (2022), p. L16.

- [16] **Megan C Davis** and AL Stevens. “Spectral Variability of a Soft-intermediate State QPO from MAXI J1820+ 070”. In: *Research Notes of the AAS* 4.6 (2020), p. 95.
- [17] Bottom et al. “Starshade formation flying I: optical sensing”. In: *Journal of Astronomical Telescopes, Instruments, and Systems* 6.1 (2020), pp. 015003–015003.
- [18] Bachetti et al. “StingraySoftware/stingray: Version 1.0”. In: *Zenodo* (2020).
- [19] Flinois et al. “S5: Starshade technology to TRL5 Milestone 4 Final Report: Lateral formation sensing and control”. In: *Jet Propulsion Laboratory Publications* (2018).

Software

- [20] Bachetti et al. “StingraySoftware/stingray: v1. 1”. In: *Zenodo* (2022).