

# MEGAN CHRISTINA DAVIS, PhD

Physics Department  
University of Connecticut  
Storrs, CT 06269

E-mail: [megan.c.davis@uconn.edu](mailto:megan.c.davis@uconn.edu)  
Webpage: [megcdavis.github.io](https://megcdavis.github.io)  
ORCID iD: [0000-0001-9776-9227](https://orcid.org/0000-0001-9776-9227)

## 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 (UURAF) for presenting a poster on undergraduate thesis work

<i>2019</i>	Outstanding Teaching Assistant Award (MSU)
<i>2015 – 2019</i>	The John F. and Edith L. Wilsterman Scholarship
<i>2015 – 2019</i>	Flint Kiwanis Educational Foundation Scholarship

## INVITED TALKS AND PANELS

<i>November 2024</i>	Northwestern/CIERA Observational Group Meeting - talk
<i>October 2024</i>	Harvard ITC Luncheon - talk
<i>March 2024</i>	Kansas University Astronomy Seminar - talk
<i>November 2023</i>	Yale Gravitational Wave Symposium - talk and panelist

## SELECTED CONFERENCES AND WORKSHOPS

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

## TEACHING AND OUTREACH EXPERIENCE

<i>2022 – Present</i>	<b>Co-Organizer of Astronomy on Tap- Storrs, CT</b>
<i>2017 – Present</i>	<b>Academic and Research Mentor of Undergraduate Students</b>
<i>2020 – Present</i>	<i>Research Mentor:</i> Micah Banschick (UConn BSc '26), Matthew Tiongko (UConn BSc '26), Abena Adzenyah (UConn BEng '25), Kaylee Grace (UDel PhD '28, UConn BSc '22, Thesis Mentor)
<i>2017 – 2020</i>	<i>Academic Mentor:</i> Caleb Rispler (MSU MD '26, MSU BSc '22), Trevor Fush (Princeton PhD '28, MSU BSc '22), Elizabeth Kowalczyk (UMD PhD '28, MSU BSc '22), Jessie Miller (Caltech PhD '27, MSU BSc '21)
<i>2019 – 2020</i>	<b>Outreach Coordinator at the MSU Campus Observatory</b>
<i>2017 – 2019</i>	<b>Undergraduate Teaching Assistant (MSU) for AST 207, 208</b>