

# CURRICULUM VITAE - ADAM MOSS

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## EDUCATION

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<b>University of Oklahoma</b> Norman, OK, USA	<i>August 2025</i>
<b>Ph.D.</b> Astrophysics	
Advisor: Mukremin Kilic	
<i>“The Origins and Impacts of Magnetic Fields in White Dwarfs”</i>	
<b>Embry-Riddle Aeronautical University</b> Daytona Beach, FL, USA	<i>May 2018</i>
<b>B.S.</b> Astronomy and Astrophysics	

## EMPLOYMENT

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Postdoctoral Associate	August 2025 - Present
Faculty Supervisor: Jamie Tayar	
University of Florida	
Dodge Family Fellow	August 2024 - August 2025
University of Oklahoma	
Research Assistant with Mukremin Kilic	August 2021 - July 2024
University of Oklahoma	
Teaching Assistant - Weekly Star Party Host	August 2023 - July 2024
University of Oklahoma	
Teaching Assistant - Astronomy: Exploring the Universe Discussion	August 2019 - July 2021
University of Oklahoma	
Research Assistant with Ted von Hippel	June 2018 - August 2018
Embry-Riddle Aeronautical University	

## OBSERVING EXPERIENCE

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Apache Point Observatory 3.5m <b>PI</b>	January 2023 - September 2024
PI on 6 successful proposals to remotely conduct spectroscopic observations with the KOSMOS instrument for each half-night - <b>33 half-nights</b>	
Gemini 8m <b>PI</b>	September 2019 - May 2025
PI on 7 successful Gemini proposals using the GMOS instrument for spectroscopy - <b>128.9 hours</b>	
Apache Point Observatory 3.5m <b>Co-I</b>	April 2020 - September 2024
Conducted spectroscopic and photometric observations with KOSMOS and ARCTIC/AGILE instruments for collaborators - <b>32 half-nights</b>	

SARA-KPNO, RM, and CT **Co-I**  
 Conducted in-person and remote  
 photometric observations - **60+ hours**

June 2015 - August 2018

## HONORS AND AWARDS

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Nielsen Prize	May 2025
Award given to a doctoral student who has clearly demonstrated the ability to carry out high-quality research and is deemed exceptional among those awarded with doctorates over the years.	
Dodge Family Fellowship	August 2024 - July 2025
Annual fellowship awarded for most outstanding full-time graduate student in the department.	
Avenir Foundation Fellowship	January 2023 - July 2023
Harwell Scholarship	August 2020
Diamond Eagle Scholarship	August 2014 - May 2018

## PRESENTATIONS

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“The Emerging Class of Double-Faced White Dwarfs” Dissertation talk, AAS Meeting, National Harbor, MD	January 2025
“Discovery of a Magnetic Double-Faced DBA White Dwarf” Contributed talk, EUROWD24 Meeting, Barcelona, Spain	July 2024
“Discovery of a Magnetic Double-Faced DBA White Dwarf” Contributed talk, AAS Meeting, New Orleans, LA	January 2024
“Spectroscopic Variability of Magnetic White Dwarfs” Contributed talk, AAS Meeting, Seattle, WA	January 2023
“Spectroscopic Variability of Magnetic White Dwarfs” Contributed talk, EUROWD22 Meeting, Tübingen, Germany	July 2022
“Analyzing white dwarf + main sequence binaries with Gaia trigonometric parallaxes” Poster, AAS Meeting, Seattle, WA	January 2019

## OUTREACH

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Lunar Sooners President President of OU’s astronomy outreach club. Organized events for telescope viewing and our mobile planetarium, contacted event hosts, ran meetings, restarted all club operations after long hiatus during Covid-19 pandemic.	May 2022 - July 2024
Total Solar Eclipse Viewing Organized the 2024 Total Eclipse viewing on OU campus for 3000+ attendees.	April 2024

Annular Solar Eclipse Viewing  
Organized the 2023 Annular Eclipse viewing on OU campus for  
~500 attendees.

October 2023

Lunar Sooners Vice President

August 2021 - April 2022

Star Parties (100+ hours)

2021 - 2025

Performed telescope viewing events for libraries, schools, etc.  
for communities throughout Oklahoma, with emphasis on  
underrepresented groups and areas. Often included a short talk  
on current events in astronomy.

Mobile Planetarium (100+ hours)

2021 - 2025

Gave presentations using our mobile planetarium to kids  
at schools and libraries, including the Oklahoma School  
for the Deaf. Focused on teaching the Solar System, Moon  
phases, and constellations.

## PUBLICATIONS

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First Author Papers:

15. **Moss, A.**, Kilic, M., Bergeron, P., Brown, W., Jewett, G., Camisassa, M., Burrow, A.; accepted in ApJ; “*Magnetic White Dwarfs in the SDSS 100 pc Sample: Further Evidence of Two Formation Channels*”
14. **Moss, A.**, Kilic, M., Bergeron, P., Jewett, G., Brown, W.; 2025, ApJ, 983, 14, “*The Emerging Class of Double-Faced White Dwarfs*”
13. **Moss, A.**, Bergeron, P., Kilic, M., Jewett, G., Brown, W., Kosakowski, A., Vincent, O.; 2024, MNRAS, 527, 4, “*Discovery of a magnetic double-faced DBA white dwarf*”
12. **Moss, A.**, Kilic, M., Bergeron, P., Fergard, M., Brown, W.; 2023, MNRAS, 523, 4, “*Signs of binary evolution in seven magnetic DA white dwarfs*”
11. **Moss, A.**, von Hippel, T., Robinson, E., El-Badry, K., Stenning, D., van Dyk, D., Fouesneau, M., Bailer-Jones, C., Jeffery, E., Sargent, J., Kloc, I., Moticska, N.; 2022, ApJ, 929, 26, “*Improving White Dwarfs as Chronometers with Gaia Parallaxes and Spectroscopic Metallicities*”

Co-Author Papers:

10. Kilic, M., Bergeron, P., Brown, W., Blouin, S., Jewett, G., **Moss, A.**, Dufour, P., Vincent, O.; accepted in ApJ; “*An All-sky Survey of White Dwarf Merger Remnants: Far-UV is the Key*”
9. Caliskan, O., ..., **Moss, A.**, ...; 2025, ApJ, 988, 32; “*Asteroseismology of WD J004917.14-252556.81, the Most Massive Pulsating White Dwarf*”
8. De Gerónimo, F., ..., **Moss, A.**; 2025, ApJL, 980, 9; “*Discovery of the Richest Pulsating Ultramassive White Dwarf*”
7. Kilic, M., Bergeron, P., Blouin, S., **Moss, A.**, Brown, W., Bédard, A., Jewett, G., Agüeros, M.; 2025, ApJ, 979, 157; “*The 100 pc White Dwarf Sample in the SDSS Footprint II. A New Look at the Spectral Evolution of White Dwarfs*”

6. Jewett, G., Kilic, M., Bergeron, P., **Moss, A.**, Blouin, S., Brown, W., Kosakowski, A., Toonen, S., Agüeros, M.; 2024, ApJ, 974, 12; “*Massive White Dwarfs in the 100 pc Sample: Magnetism, Rotation, Pulsations, and the Merger Fraction*”
5. Kilic, M., Bergeron, P., Blouin, S., Jewett, G., Brown, W., **Moss, A.**; 2024, ApJ, 965, 159; “*White Dwarf Merger Remnants: The DAQ Subclass*”
4. von Hippel, T., ..., **Moss, A.**, ...; 2024, ApJ, 963, 113; “*The Morphology of the Asteroidal Dust around White Dwarf Stars: Optical and Near-infrared Pulsations in G29-38*”
3. Kilic, M., Córscico, A., **Moss, A.**, Jewett, G., De Gerónimo, F., Althaus, L.; 2023, MNRAS, 522, 2, “*WD J004917.14-252556.81: the most massive pulsating white dwarf*”
2. Kilic, M., **Moss, A.**, Kosakowski, A., Bergeron, P., Conly, A., Brown, W., Toonen, S., Williams, K., Dufour, P.; 2023, MNRAS, 518, 2, “*The merger fraction of ultramassive white dwarfs*”
1. Otani, T., ..., **Moss, A.**; 2017, OAst, 26, 1, “*An additional pulsating mode (7.35 mHz) and pulsations timing variations of PG 1613+426*”