

# LAURA D. VEGA

## CURRICULUM VITAE

### Heising-Simons Future Faculty Launch Program Postdoctoral Fellowship

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### Summary

Astrophysicist with a PhD specializing in multiwavelength astronomy, currently focused on M-dwarf stellar flares (postdoctoral work), with prior multiwavelength research in late-stage stellar evolution (dissertation). Experienced in leading and contributing to scientific publications, demonstrating adaptability in research focus. Skilled in data analysis, public speaking, and outreach. Passionate about sharing knowledge and collaborating on diverse research projects to advance our understanding of stellar physics.

### Employment & Education

<b>Heising-Simons Post-doctoral Fellow</b>	May 2021 – Jul. 2025
The University of Maryland, College Park & NASA Goddard Space Flight Center	
<b>NASA Harriett G. Jenkins Pre-doctoral Fellow</b>	Aug. 2015 – Apr. 2020
Fisk University & Vanderbilt University	
<b>Fisk-Vanderbilt Masters-to-PhD Bridge Program Fellow</b>	Aug. 2014 – Apr. 2021
Fisk University & Vanderbilt University	
<b>Undergraduate Research Assistant</b>	May 2010 – Jul. 2014
The University of Texas at San Antonio (UTSA)	

**Astrophysics Ph.D., 2021** – Vanderbilt University      Advisor: Keivan G. Stassun  
 Dissertation Title: *Stellar Evolution at the Crossroads: Resolving the Nature of RV Tauri Variable Systems Using Unprecedented Observations from the Kepler and XMM-Newton Space Telescopes*

**Physics M.A., 2017** – Fisk University      Advisor: Keivan G. Stassun  
 Thesis Title: *Evidence for Binarity and Disk Obscuration in Kepler Observations of the Pulsating RV Tau Variable Star DF Cygni*

**Physics B.Sc., 2013** – The University of Texas at San Antonio      Advisor: Eric M. Schlegel

## Relevant Skills

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**Languages:** English; Spanish

**Computer:** Unix; Python; LaTeX; Pandas; Astropy; Lightkurve; HEASARC:FTOOLS, XSPEC;

SAOImage DS9

**Data experience:** X-ray/Ultraviolet (NICER, *Swift*); Optical (*Kepler*, TESS, AAVSO, DASCH), and Radio (VLA) time series

**Writing Skills:** Technical writing; Proposal writing

## Grants/Fellowships

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Heising-Simons Foundation Future Faculty Launch Program Postdoctoral Fellowship 2021 - 2025

NASA Sellers Exoplanet Environments Collaboration (SEEC) Internal Scientist Funding Model (ISFM) Mini-Proposals (Role: **Co-I**; PI: A. Mandell, Total Budget: \$50K) 2024 - 2025

NASA Astrophysics Data Analysis (ADAP) (Role: **Co-I**; PI: J. Schlieder, Total Budget: \$62K) 2021 - 2023

NASA TESS Cycle 4 GI Program (Role: **PI**, Total Budget: \$70K) 2021 - 2022

NASA TESS Cycle 3 GI Program (Role: **PI**, Total Budget: \$50K) 2020 - 2021

NASA OSTEM Minority University Research Education Project (MUREP)/Advanced STEM Training and Research (ASTAR): Harriett G. Jenkins Pre-doctoral Fellowship 2015 - 2020

Smithsonian Latino Center - LIP (Research at the Center for Astrophysics and Outreach at the National Air & Space Museum) 2017, 2018, 2019

UTSA Vaughan Family Grant (AAS Conference Travel) 2011, 2012, 2014

National Institute on Minority Health and Health Disparities – Nanotechnology and Human Health Core Grant (2012 Summer Undergraduate Nanoparticles Research at UTSA) 2012

Bill & Alicia Hoover Grant (For 2010 Summer Research at UTSA) 2010

## Service

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NASA Fellows and Scholars Alumni at the Southern Regional Education Board (SREB) Institute on Teaching and Mentoring, Panelist 2018, 2019, 2023

NASA Astrophysics Theory Program (ATP), Review Panel Member Sep. 2021

NASA Fellowship Activity Peer Review Panel, Executive Scribe Apr. 2020

NASA TESS18 Review Panel, Scribe May 2019

NASA en Español, English-to-Spanish Text Translator (occasional) 2018 - Present

## Honors and Awards

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Most Outstanding Student Publication - Vanderbilt Physics & Astronomy Department 2018

NASA Office of Education's MUREP: Harriett G. Jenkins Pre-doctoral Fellow 2015

Best Poster in Physics - Fisk University Science Symposium 2016

Toastmasters International - Competent Leader 2015

Toastmasters International - Competent Communicator 2015

The Sam Madrid Jr. Endowed Scholarship - UTSA 2012

The Dr. B. Thyagarajan Endowed Scholarship - UTSA 2009

Dean's List - UTSA  
Honor Roll - UTSA

2007, 2008  
2009, 2010, 2011

**Publications** ([Number] = Number of citations for refereed papers as of CV's date-of-update)

18. Vega L. D. et al., *In Prep.*; *Simultaneous TESS and Swift Observations of Wolf 359.*
17. Vega L. D. et al. 2025, *In Prep.*; *From Radio to X-ray: Tracing the flares of YZ Canis Minoris Across the Spectrum.*
16. Tovar-Mendoza, G. et al. (2025, in prep.); *Chispas de Luz: Stellar Flare Yields with the Nancy Grace Roman Space Telescope.*
15. MacGregor et al. 2025, Submitted.; *Millimeter Flare Rates from M Dwarfs Measured by ALMA.*
14. Barclay, T. et al. 2025; [The transmission spectrum of the potentially rocky planet L 98-59 c](#) The Astronomical Journal, 169, 241. [14]
13. Howard, W. S. et al. 2024; [Preparing for the Early eVolution Explorer: Characterizing the Photochemical Inputs and Transit Detection Efficiencies of Young Planets Using Multiwavelength Flare Observations by TESS and Swift](#), The Astronomical Journal, 169, 27. [2]
12. Paudel R. R. et al. 2024; [A Multiwavelength Survey of Nearby M Dwarfs: Optical and Near-ultraviolet Flares and Activity with Contemporaneous TESS, Kepler/K2, Swift, and HST Observations](#), The Astrophysical Journal, 971, 24. [8]
11. Tovar-Mendoza, G. et al. 2023; [Enabling Stellar Flare Science in the Roman Galactic Bulge Survey: Cadence, Filters, and the Read-Out Strategy Matter](#), Roman Core Community Survey White Paper. [1]
10. Wittrock, J. M. et al. 2023; [Validating AU Microscopii d with Transit Timing Variations](#), The Astronomical Journal, 166, 232. [19]
9. Chavali, S. et al. 2022; [A Pilot Survey of an M Dwarf Flare Star with Swift's UV Grism](#), Research Notes of the AAS, 6, 201. [6]
8. Wittrock, J. M. et al. 2022; [Transit Timing Variations for AU Microscopii b and c](#), The Astronomical Journal, 164, 27. [18]
7. Gilbert, E. A. et al. 2022; [Flares, Rotation, and Planets of the AU Mic System from TESS Observations](#), The Astronomical Journal, 163, 147. [60]
6. Paudel, R. R. et al. 2021; [Simultaneous Multiwavelength Flare Observations of EV Lacertae](#), The Astrophysical Journal, 922, 31. [33]
5. Vega, L. D. et al. 2021; [Multiwavelength Observations of the RV Tauri Variable System U Monocerotis: Long-Term Variability Phenomena Can Be Explained by Binary Interactions With a Circumbinary Disk](#), The Astrophysical Journal, 909, 138. (NASA Feature). [5]

4. Gilbert, E. A. et al. 2020; *The First Habitable Zone Earth-sized Planet from TESS. I: Validation of the TOI-700 System*, The Astronomical Journal, 160, 116. ([NASA Feature](#)). [107]
3. Kostov, V. B. et al. 2019; *The L 98-59 System: Three Transiting, Terrestrial-size Planets Orbiting a Nearby M Dwarf*, The Astronomical Journal, 158, 32. ([NASA Feature](#)). [112]
2. Vega, L. D. et al. 2017; *Evidence for Binarity and Possible Disk Obscuration in Kepler Observations of the Pulsating RV Tau Variable DF Cygni*, The Astrophysical Journal, 839, 48. [15]
1. Schlegel, E. M. et al. 2016; *NGC 5195 In M51: Feedback 'Burps' After a Massive Meal?*, The Astrophysical Journal, 823, 75. ([NASA Feature](#)). [11]

## Leadership & Outreach

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### Public Talks & Engagement

- [We asked a NASA expert \(Spanish\) - Speaker](#) **Apr. 2024**  
Recorded an educational video with @NASAenEspañol titled: “¿Qué tan grande es el espacio? (Just how large is space?).”
- [Astronomy on Tap \(AoT\) Baltimore](#), Guilford Hall Brewery, Baltimore, MD **Jan. 2024**  
General Public Talk: “*Stellar Cheers: A Toast to the Eccentricities of RV Tauri Binary Stars.*”
- [NASA International Space Apps Challenge Hermosillo](#), Tecnológico de Monterrey Campus Sonora Norte, Hermosillo, Sonora, México - Local Mentor and Judge **Oct. 2023**  
Engaged with student groups, evaluated presentations, and gave a talk on my academic journey and research. Delivered a formal scientific talk to professors and graduate students at the university.
- [The Roman Space Observer](#) **Jun. 2022**  
Twitch stream (Spanish version) interview with @NASAenEspañol to promote NASA's retro 8-bit Roman Space Observer video game and to discuss some of the science The Nancy Grace Roman Space Telescope will do.
- [NASA Hyperwall, Honolulu, HI](#) **Jan. 2020**  
“*Astrophysics with TESS*” presentation at American Astronomical Society, AAS 235th Meeting.

### Committee Work & Mentoring

- [Graduate Resources Advancing Diversity with Maryland Astronomy and Physics \(GRAD -MAP\) Winter Workshop - Presenter](#) **2021, 2022, 2023, 2024**  
Presentations to GRAD-MAP student about my career path and annual informational presentation on “*Post Bacs, Masters, and Bridge Programs.*”

- **Better Astronomy for the New Generation! (BANG!) - Organizing Committee Member** **Sept. 2022–May 2023**  
Organized seminars on equity, career paths, and soft skills for astronomers.
- **University of Maryland’s TerrapinSTRONG Program - Facilitator** **Sep. 2022**  
Trained and facilitated on-boarding sessions for new undergraduate students in the College of Computer, Mathematical, and Natural Sciences, engaging students in conversations to foster a sense of belonging and connection within the UMD community.
- **Research Mentor** **Oct. 2020–Jan. 2021**  
Mentored a high school senior in Madison County, VA, on classifying M-dwarf flares based on the Solar-flare classification system.
- **Fisk-Vanderbilt Bridge Program at SACNAS, Long Beach, CA - Recruiter** **Oct. 2016**  
Booth at SACNAS to recruit undergraduate student for the Fisk-Vanderbilt Bridge Program.
- **DCA Stars at The University of Maryland College Park - Member** **Summer 2016**  
Students and mentors met weekly and discussed our research, goals, setbacks, and successes.
- **Inclusive Astronomy Conference at Vanderbilt, Nashville, TN** **Jun. 17–19, 2015**  
Volunteer host member for the inaugural conference on diversity and inclusion.
- **Astronomy Torus 2012 Workshop at UTSA, San Antonio, TX** **Dec. 5–7, 2012**  
International workshop focused on active galactic nuclei; Local Organizing Committee Member: Logistics planning; Registration desk.

### Youth Outreach & Educational Events

- **Barrera Veterans Elementary’s Career Day - Astronomy Chat** **May 2019, 2025**  
Shared experiences in astronomy with students across different grade levels in Von Ormy, TX.
- **Ed Cody Elementary STREAM Night - Community Event** **Jan. 2025**  
Engaged students and parents in an interactive Astronomy Chat at this community event, using a projector to showcase cosmic images while discussing planets, galaxies, and the universe at Cody Elementary in San Antonio, TX.
- **Escuela Primaria Federal Emiliano Zapata - Astronomy Chat** **Mar. 2024**  
Engaged students and parents in an interactive Astronomy Chat titled, “Nuestro Domicilio Còsmico” (Our Cosmic Address) in Spanish. Paradillas, Zacatecas, MX.
- **Society of Physics Students and SACNAS student chapters** **Feb. 2023**  
**Invited Talk:** *My Journey to the PhD*; San Antonio College, San Antonio, TX.
- **Colorado Springs Cool Science Festival - Zoom-a-Scientist** **Oct. 2020**  
Virtual sessions with elementary students in Fairbanks, AK and Colorado Springs, CO, discussing astronomy.

- **Smithsonian National Air & Space Museum - Volunteer Astronomer Oct. 2017 - Present**  
Engaged in [Astronomy Chats](#) and Hispanic Heritage Month Outreach Familia Day in Washington, DC.
- **Bancroft Elementary Saturday Academy - Astronomy Chat Jan. 2019**  
Visited bilingual Latinx students to discuss astronomy, in collaboration with the Smithsonian Air & Space Museum and sponsored by the Smithsonian Latino Center in Washington, DC.
- **Smithsonian Astrophysical Observatory's Rising Stars Camp - Astronomy Chat Jul. 2018**  
Led activities using robotic telescopes and gave a research talk on star lifecycles at St. Katharine Drexel in Roxbury Crossing, MA.

### Other Contributions & Leadership

- **[Latinx Employee Association \(LEA\)](#) at the University of Maryland - Grad Student and Postdoc Representative Feb. 2022 - Present**  
Collaborating in the revitalization and re-establishment of the association to support Latino/ Hispanic employees through community building, advocacy, professional development, and outreach initiatives.
- **Toastmasters International Oct. 2013 – Present**  
**Vice President of Public Relations** at Goddard Toastmasters (06/2022 – 2024) and Vanderbilt Toastmasters (05/2015 – 2018); **Treasurer** at UTSA Roadrunner Toastmasters (01/2014 – 07/2014). As a member, I deliver prepared and extemporaneous speeches, evaluate other members' speeches, and take on **leadership roles** during meetings.
- **Vanderbilt SACNAS Jan. 2015 - May 2017**  
**Founding officer (Treasurer)** and **Public Relations Officer** for the first Society for Advancement of Chicanos & Native Americans in Science chapter in Tennessee at Vanderbilt University. I also helped organized the Vanderbilt SACNAS Science Cafe.
- **The Physics Honor Society | Sigma Pi Sigma at UTSA Apr. 2013 - Jan. 2014**  
**Founding officer (President)** for the The Physics Honor Society chapter at UTSA. I helped organize study sessions for the Physics GRE and tutored students in physics and math.
- **Society of Physics Students at UTSA Aug. 2012 - Apr. 2013**  
**Public Relations Officer:** Created promotional materials, managed social media, and organized monthly outreach events like UTSA's "*Friday Nights, Celestial Lights*." I also helped lead various STEM outreach events for high school and elementary school students.



## ACCEPTED Observing Proposals

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20. TESS Cycle 6 GI Program Jan. 2024  
*Study Of Optical/Near-Ultraviolet Energy Fractionation In Stellar Flares Using Simultaneous 20-s TESS And Swift NUV Data*  
 Role: **Co-I**, PI: Rishi Paudel
19. ALMA Cycle 9 GI Program Apr. 2022  
*The Origin and Impact of Flares in M Dwarf Systems*  
 Role: **Co-I**, PI: Meredith MacGregor
18. TESS Cycle 5 GI Program Jan. 2022  
*Multiwavelength TESS-Swift-NICER Observations of Pulsations in Flares on Solar-Type Stars*  
 Role: **Co-I**, PI: Teresa Monsue
17. Swift Cycle 18 GI Program Sep. 2021  
*A Swift and Alma View of the Origin and Impact of M-Dwarf Flares*  
 Role: **Co-I**, PI: Ward Howard; Total Budget: \$35K
16. TESS Cycle 4 GI Program Jan. 2021  
*Exploring the Star-planet Connection via Simultaneous Tess and Swift Observations of Highly Active M Dwarfs*  
 Role: **PI**, PI: **Vega, L. D.**; Total Budget: \$70K
15. TESS Cycle 4 GI Program Jan. 2021  
*Using Tess 20-S Cadence Data To Study Flares On M Dwarfs*  
 Role: **Co-I**, PI: Rishi Paudel; Total Budget: \$70K
14. NICER Cycle 3 GI Program Nov. 2020  
*A Study of M Dwarf Flares Using Simultaneous High Cadence Multi-wavelength Data*  
 Role: **Co-I**, PI: Rishi Paudel
13. XMM-Newton - Announcement of Opportunity 20 Oct. 2020  
*Pilot Study of RV Tau Variables: A new class of X-ray emitting stars?*  
 Role: **Co-I**, PI: Rodolfo Montez Jr.
12. Hubble Space Telescope Cycle 28 GO Program Oct. 2020  
*Confirming a Tentative Detection of an Atmosphere Around a Potentially Rocky Planet*  
 Role: **Co-I**, PI: Thomas Barclay
11. Swift Cycle 16 GI Program Sep. 2020  
*Defining the Energy Budget for Abiogenesis on M-dwarf Planets*  
 Role: **Co-I**, PI: A. Youngblood; Total Budget: \$35K
10. Swift - Target of Opportunity Jul. 2020  
*20 kilo-second UVOT observations of the AU Mic system*  
 Role: **PI**, PI: **Vega, L. D.**

9. Joint TESS-Swift Cycle 3 GI Program Jan. 2020  
*Exploring the Star-Planet Connection via Simultaneous TESS and Swift Observations of Highly Active M Dwarfs*  
 Role: **PI**, PI: **Vega, L. D.**; Total Budget: \$50K
8. TESS Cycle 3 GI Program Jan. 2020  
*Discovering Circumbinary Planets With Tess*  
 Role: **Co-I**, PI: Veselin Kostov; Total Budget: \$50K
7. NICER Cycle 2 GI Program Nov. 2019  
*Multiwavelength Observations of Highly Active M Dwarfs*  
 Role: **Co-I**, PI: Rishi Paudel
6. Hubble Space Telescope Cycle 27 Apr. 2019  
*Searching for Secondary Atmospheres in a System of Benchmark Worlds*  
 Role: **Co-I**, PI: Thomas Barclay
5. NOAO - Center for High Angular Resolution Astronomy Apr. 2019  
*Diving into the close stellar environment of the magnetic RV Tauri star U Mon*  
 Role: **Co-I**, PI: Laurence Sabin
4. SAO - Submillimeter Array Mar. 2019  
*Hunting for Disks Around Pulsating RV Tau Stars*  
 Role: **PI**, PI: **Vega, L. D.**
3. SAO - Submillimeter Array Filler Program Mar. 2019  
*Disks around RV Tauri Variable Stars: U Mon in High Resolution*  
 Role: **Co-I**, PI: Rodolfo Montez Jr.
2. SAO - Submillimeter Array Filler Program Oct. 2018  
*Disks around RV Tauri Variable Stars: U Mon (0.8 mm)*  
 Role: **Co-I**, PI: Rodolfo Montez Jr.
1. SAO - Submillimeter Array Filler Program Oct. 2018  
*Disks around RV Tauri Variable Stars: U Mon*  
 Role: **Co-I**, PI: Rodolfo Montez Jr.

## Oral Presentations

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28. **Invited Talk:** Catching Stellar Flares in the Act: A Coordinated Multiwavelength View of M Dwarf YZ CMi; Space Telescope Science Institute, Exoplanets, Star & Planet Formation Seminar, Baltimore MD, July 2025.
27. A Journey of Gratitude and Growth: The Impact of the Fisk-Vanderbilt Master's-to-PhD Bridge Program on My Path to the PhD; Special Session: Celebrating Bridge and Support Programs for Astronomy and Astrophysics Students, American Astronomical Society, AAS 245th Meeting, Washington, DC, Jan. 2025.
26. From Radio to X-ray: Tracing the flares of YZ Canis Minoris Across the Spectrum; American Astronomical Society, AAS 245th Meeting, Washington, DC, Jan. 2025.



25. From Radio to X-ray: Tracing the flares of YZ Canis Minoris Across the Spectrum; National Society of Black Physicists Conference; Houston, TX, Nov. 2024.
24. **Invited Talk:** Updates on our Multiwavelength Observations Campaign of Active M Dwarf Stars with TESS, Swift, and NICER; NASA JPL Virtual Exoplanet Lecture Series; Virtual Meeting, Pasadena, CA, Mar. 2024.
23. Exploring Flares in Simultaneous Multiwavelength Observations of Active M Dwarf Stars; NASA/CRESST II Retreat; University of Maryland, College Park, MD, Mar. 2024.
22. Is the Flaring Star Wolf 359 a Good Exoplanet Host?; American Astronomical Society, AAS 243rd Meeting. New Orleans, LA, Jan. 2024.
21. **Invited Talk:** Exploring Flares in Simultaneous Multiwavelength Observations of Active M Dwarf Stars; Penn State Center for Exoplanets and Habitable Worlds; State College, PA, Nov. 2023.
20. **Invited Talk:** Exploring Flares in Simultaneous Multiwavelength Observations of Active M Dwarf Stars; National Society of Black Physicists Conference; Knoxville, TN, Nov. 2023.
19. Exploring Flares in Simultaneous Multiwavelength Observations of Active M Dwarf Stars; [Institute for Theory and Computation Luncheon](#); Harvard–Smithsonian Center for Astrophysics, Cambridge, MA, Nov. 2023.
18. **Invited Talk:** My Research on RV Tauri Stars and M Dwarf Flares; Tecnológico de Monterrey Campus Sonora Norte, Hermosillo, Sonora, México, Oct. 2023.
17. **Invited Talk:** Exploring RV Tauri Stars: A Study of DF Cygni and U Monocerotis; Mid-Hudson Astronomical Association, Virtual Meeting, SUNY-New Paltz, New Paltz, NY, Sep. 2023.
16. Exploring Flares in Simultaneous Multiwavelength Observations of Wolf 359; Early Career Scientist Forum 2023, Sciences and Exploration Directorate 600, Goddard Space Flight Center, Greenbelt, MD, Sep. 2023.
15. **Invited Talk:** Stellar Evolution at the Crossroads: Resolving the Nature of RV Tauri Stars using Multiwavelength Observations from Kepler, XMM-Newton, DASCH, AAVSO, and the SMA; Earth and Planets Laboratory Astronomy Seminar, Carnegie Institution for Science; Washington, DC, May 2023.
14. **Invited Talk:** Simultaneous Multiwavelength TESS, Swift, and NICER Observations of Highly Active M Dwarf stars; NASA JPL Exoplanets Journal Club; Virtual Meeting, Pasadena, CA, Nov. 2022.
13. Simultaneous Multiwavelength Observations of the Highly Active M Dwarf YZ CMi; SACNAS, San Juan, Puerto Rico, Oct. 2022.
12. [The APS Bridge Program and my journey to the PhD](#); Session L05: Experiences from the APS Bridge Program, APS April Meeting 2022, New York, NY, Apr. 2022.

11. [Multiwavelength observations of Highly Active M Dwarf stars using Swift, TESS, and NICER](#); Ultraviolet Science at Goddard, NASA Goddard Space Flight Center, Greenbelt, MD, Apr. 2022.
10. [Simultaneous Multiwavelength Swift, TESS, and NICER Observations of Highly Active M Dwarf Stars](#); Invited Talk Colloquium, Virtual Meeting, UTSA Department of Physics & Astronomy, San Antonio, TX, Apr. 2022.
9. Resolving the Nature of RV Tauri Variable Systems Using Unprecedented Observations From the Kepler and XMM-Newton Space Telescopes; AAS Dissertation Talk, Stars IV Oral Session, AAS 238th Meeting. Virtual, Jun. 2021.
8. Stellar Evolution at the Crossroads: Resolving the Nature of RV Tauri Variable Systems Using Unprecedented Observations from Kepler and XMM-Newton Space Telescopes; Invited Talk Colloquium, Virtual Meeting, Howard University, Washington, DC, Mar. 2021.
7. Observations of Disks Around RV Tauri Variable Stars with the Submillimeter Array; SACNAS Conference, the Henry B. González Convention Center, San Antonio, TX, Oct. 2018.
6. [Evidence for Disk Obscuration in Kepler Observations of the RV Tau Star DF Cyg](#); 5<sup>th</sup> Annual Astrophysics Conference - DC, The George Washington University, Washington DC, Jul. 2017.
5. [Kepler's Unprecedented High Temporal Precision Observations of the RV Tauri variable DF Cygni](#), Astronomy Journal Club, Vanderbilt University, Nashville, TN, Sep. 2016.
4. [M51 and the Effect of the Arm Resonance and Interaction on Diffuse X-ray Emission](#); American Astronomical Society, AAS 225th Meeting. Seattle, WA, Jan. 2015.
3. [Cosmic Background Radiation and the Evolution of the Universe](#); UTSA's Friday Nights, Celestial Lights Series. San Antonio, TX, Apr. 18, 2014.
2. Diffuse X-ray & Multi-wavelength Emission in Nearby, Face-on Spiral Galaxies; San Antonio, Texas Astrophysics Researchers Meeting. San Antonio, TX, Mar. 22, 2013.
1. "Diffuse X-ray & Multi-wavelength Emission in Nearby, Face-on Spiral Galaxies" and poster presentation "Diffuse X-ray Emission and Star Clusters in Nearby, Face-on Spiral;" UTSA College of Science, COS, Research Conference. San Antonio, TX, Oct. 5, 2012.

## Poster Presentations

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22. Catching Stellar Flares in the Act: A Coordinated Multiwavelength View of M Dwarf YZ CMi; APS Conference for Graduate Women and Gender Minorities in Physics, Washington, DC, Sep. 2025.
21. From Radio to X-ray: Tracing the flares of YZ Canis Minoris Across the Spectrum; American Geophysical Union, AGU24 Annual Meeting, Washington, DC, Dec. 2024.

20. [From Radio to X-ray: Tracing YZ CMi's Flares Across the Spectrum](#); Cool Stars 22, San Diego, California, Jun. 24-28, 2024.
19. Is the Flaring Star Wolf 359 a Good Exoplanet Host?; 2023 UMD Postdoctoral Research Symposium, University of Maryland, College Park, MD, Sep. 2023.
18. [Is the Flaring Star Wolf 359 a Good Exoplanet Host?](#); Towards Other Earths III: The Planet-Star connection, Porto, Portugal, Jul. 17-21, 2023.
17. Simultaneous Multiwavelength Swift, TESS, and NICER Observations of Highly Active M Dwarf Stars; 2022 UMD Postdoctoral Research Symposium, University of Maryland, College Park, MD, Sep. 2022.
16. [Simultaneous Multiwavelength Swift, TESS, and NICER Observations of Highly Active M Dwarf Stars](#); Cool Stars 21, Toulouse, France, Jul. 4-9, 2022.
15. [Simultaneous Multiwavelength Observations of the Highly Active M Dwarf YZ CMi](#); TESS Science Conference II, Virtual Meeting, Aug. 2021.
14. [Multiwavelength Observations of the RV Tau Variable U Monocerotis](#); American Astronomical Society, AAS 235th Meeting. Honolulu, HI, Jan. 2020.
13. [X-ray & Submillimeter Observations of the Pulsating RV Tau Variable U Mon](#); 2019 Spring Symposium - The Deaths and Afterlives of Stars; Space Telescope Science Institute; Apr. 2019.
12. [Submillimeter Array Observations of the Large Disk Around RV Tau Star U Mon](#); 7th National Capital Area Disks Meeting; Johns Hopkins University / Space Telescope Science Institute; 26 Sep., 2018.
11. [Observations of Disks Around RV Tau Variables with the Submillimeter Array](#); Cool Stars Conference; Boston University, Boston, MA, Jul. 2018.
10. Evidence for Disk Obscuration in Kepler Observations of the Pulsating RV Tau Variable DF Cyg; Kepler-K2 Science Conference; NASA Ames, Mountain View, CA, Jun. 2017.
9. [Evidence for Binarity in Kepler Observations of the Pulsating RV Tau Variable DF Cygni](#); American Astronomical Society, AAS 229th Meeting. Grapevine, TX, Jan. 2017.
8. [Stellar Evolution at the Crossroads: A Closer Look at the RV Tauri Variable Star DF Cygni](#); 4<sup>th</sup> Annual DC/MD/VA Astrophysics Meeting, The George Washington University, Washington DC, Jun. 2016.
7. Stellar Evolution at the Crossroads: A Closer Look at the RV Tauri Variable Star DF Cygni; Fisk University Symposium, Nashville, TN, Aug. 2015.
6. Stellar Evolution at the Crossroads: A Closer Look at the RV Tauri Variable Star DF Cygni; Fisk-Vanderbilt Masters-to-PhD Bridge Program, Research Celebration Day. Nashville, TN, Aug. 2015.

5. [Diffuse Hot Gas in M51](#); Chandra's X-ray View of Galaxy Ecosystems; Boston, MA. Jul. 2014.
4. [Diffuse Emission in Nearby, Face-on Spiral Galaxies](#); AAS 223rd Meeting; Washington, DC, Jan. 5-9, 2014.
3. [Diffuse X-ray Emission and Star Clusters in Nearby, Face-on Spiral Galaxies](#); AAS 219th Meeting. Austin, TX, Jan. 7-12 2012.
2. [X-ray Eclipses in the 2010 Outburst of the Recurrent Nova U Sco? & Observations of the 2010 January Outburst of the Recurrent Nova U Sco using NASA's Swift](#); AAS 117th Meeting; Seattle, WA, Jan. 9-13 2011.
1. ["X-ray Eclipses in the 2010 Outburst of the Recurrent Nova U Sco?" & "Observations of the 2010 January Outburst of the Recurrent Nova U Scoprius using NASA's Swift"](#); Joint Fall 2010 Meeting of the Texas Sections of the APS, AAPT, Zone 13 of SPS and the National Society of Hispanic Physicists, San Antonio, TX, Oct. 21-23, 2010.

## Interviews

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- [NASA Space Apps Challenge Hermosillo](#) — Noticias Telemex Sonora, MX Oct. 2023
- [Scientist of the Month](#) — NASA-Goddard CRESST II Feb. 2023
- [First a Bridge Program Graduate, Now a NASA Astrophysicist](#) — APS News Jan. 2023
- [Early Career Spotlight](#) — NASA Sciences and Exploration Directorate Oct. 2022
- [Ver Oportunidades En El Fracaso Y Persistir](#) — Animal MX Journal Sep. 2022
- [Alumni Spotlight](#) — UTSA College of Sciences Dec. 2020

## Professional Memberships/Affiliations

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American Geophysical Union (AGU)	2024 - Present
National Society of Black Physicists (NSBP)	2023 - Present
Latinx Employee Association (LEA) at UMD	2021 - Present
Vanderbilt Association of Hispanic and Latinx Alumni	2021 - Present
Sigma Xi   The Scientific Research Society ( $\Sigma\Xi$ )	2015 - Present
National Society of Hispanic Physicists (NSHP)	2013 - Present
Toastmasters International	2013 - Present
Society for Advancement of Chicanos & Native Americans in Science (SACNAS)	2013 - Present
American Physical Society (APS)	2011 - Present
American Astronomical Society (AAS)	2011 - Present
Sigma Pi Sigma   The Physics Honor Society ( $\Sigma\Pi\Sigma$ )	2011 - Present
LeaderShape Institute Alumna & Pebble Club	2011 - Present
UTSA Alumni Association	2013 - 2014
San Antonio Astronomical Association	2013 - 2014
UTSA San Antonio Texas Astrophysics Researchers (STAR)	2011 - 2014
Society of Physics Students (SPS)	2010 - 2013
National Society of Collegiate Scholars (NSCS)	2008 - 2013