

# Madison LeBlanc | Curriculum Vitae

Department of Physics and Astronomy – Georgia State University

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## Education

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<b>Ph.D., Astronomy</b> <i>Georgia State University, Atlanta, GA</i>	2022–present
<b>M.S., Physics (Astronomy Concentration)</b> <i>Georgia State University, Atlanta, GA</i>	2022–present
<b>B.S., Physics (Astronomy Concentration)</b> <i>Louisiana State University, Baton Rouge, LA</i>	2018–2022

## Research Experience

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<b>Graduate Research Assistant – Georgia State University</b> M Dwarf Multiplicity Advisor: Dr. Todd Henry, <i>Distinguished Professor, Department of Physics &amp; Astronomy</i>	2023–present
<b>Undergraduate Research Fellow – Georgia State University</b> Advisor: Dr. Fabien Baron, <i>Full Professor, Department of Physics &amp; Astronomy</i>	2021
<b>Undergraduate Research Assistant – Louisiana State University</b> Advisor: Dr. Tabettha Boyajian, <i>Associate Professor, Department of Physics &amp; Astronomy</i>	2019–2022

## Fellowships & Awards

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**2024–2028:** National Science Foundation Graduate Research Fellowship

**2024:** Cool Stars Conference Travel Grant

**2021–2022:** Discover Undergraduate Research Project Grant, LSU

**2021:** Raghavan Astronomy Student Fellowship, GSU

## Publications

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### Journal Articles

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**2023:** Misty C. Bentz, Nabanita Das, Thomas Gregoire, Jessica Hamilton, Sakib Hossain, Tim Johns, **LeBlanc, Madison**, Shanice Mack, Blake L. Norrington, Alton Patrick, Garrett Polack, Tamima Saba, Yasmeen Sherif, Melodie Sloneker, Sepehr Vahdatinia, and Ashley Wheeler. Broad-Band Photometric Monitoring of 2500 Alascattalo. *Minor Planet Bulletin*, volume 50, pages 196–197, July 2023.

### Conference Presentations

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**2024:** **LeBlanc, Madison**, Todd Henry, Elliott Horch, Wei-Chun Jao, Aman Kar, Emily Pass, Eliot Vrijmoet, Jennifer Winters, and Recons. A Comprehensive View of Companions to M Dwarfs: Exploring Gaia DR3 for Unseen Companions. In *American Astronomical Society Meeting Abstracts*, volume 56 of *American Astronomical Society Meeting Abstracts*, page 202.10, February 2024.

**2022:** **LeBlanc, Madison** and Tabettha Boyajian. Model Fitting of Boyajian’s Star. In *American Astronomical Society Meeting #240*, volume 54 of *American Astronomical Society Meeting Abstracts*, page 305.02, June 2022.

## Observing Experience

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<b>SOAR 4.1m, HRCam+SAM</b> , 1.0 nights (PI) M-Dwarf Companions: The SOAR Speckle Search	2024A
<b>CTIO/SMARTS 0.9m Telescope</b> , ~10 nights Astrometry and photometry for RECONS team	2023
<b>CTIO/SMARTS 1.5m Telescope, CHIRON</b> , ~4 nights Spectroscopy for RECONS team	2023

## Teaching & Mentoring

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<b>Lab Instructor</b> <i>Astronomy 1020: Stars and Galaxies</i>	2023–2024
<b>Lab Instructor</b> <i>Astronomy 1010: Astronomy of the Solar System</i>	2023–2024
<b>Lab Instructor</b> <i>Physics 1111: Mechanics, heat, and wave motion</i>	2023
<b>Lab Teaching Assistant</b> <i>Physics 1112: Electricity, light, modern physics</i>	2022
<b>Lab Teaching Assistant</b> <i>Physics 1111: Mechanics, heat, and wave motion</i>	2022

## Outreach

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<b>Physics Graduate Student Association</b> <i>Correspondence and record keeping for the Physics Graduate Student Association.</i>	2023–present
<b>Hard Labor Creek Observatory</b> <i>Participating in public outreach events at elementary and middle schools.</i>	2023–present
<b>Georgia Space Consortium's GOT Space</b> <i>Participating in public outreach events at elementary and middle schools.</i>	2022–present

## Proficiencies & Skills

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**Programming Languages:** Python, C++  
**Operating Systems:** Linux, Windows, Mac