

EDUCATION

• Florida Institute of Technology <i>Ph.D. - Space Sciences; GPA: 3.77</i>	Melbourne, FL, US <i>August 2023 - Present</i>
• Florida Institute of Technology <i>B.S. - Astrobiology; GPA: 3.81; Summa Cum Laude</i>	Melbourne, FL, US <i>August 2021 - May 2023</i>
• Lincoln Memorial University <i>B.S. - Pre-Med Biology; GPA: 3.65; Magna Cum Laude</i>	Harrogate, TN, US <i>August 2017 - May 2021</i>

SOFTWARE EXPERIENCE

• Python	• LaTeX	• SAOImageDS9
• Fortran	• MATLAB	
• ADSQL	• AstroimageJ	

PUBLICATIONS

• Potential for Life to Exist and be Detected on Earth-like Planets Orbiting White Dwarfs Corresponding Author, <i>Published December 12, 2024 in The Astrophysical Journal Letters</i>

PRESENTATIONS

• Florida Tech GSS Seminar <i>Presentation: White Dwarf Exoplanet Habitability</i>	Melbourne, FL, US <i>October 2024</i>
• Exoplanets 5 Conference <i>Poster: Potential for an Earth-like planet orbiting a white dwarf to host life</i>	Leiden, NL <i>June 2024</i>
• UCL MSSL Astrophysics Seminar <i>Presentation: Potential for an Earth-like planet orbiting a white dwarf to host life</i>	Dorking, London, UK <i>June 2024</i>

RESEARCH

• Habitability and detection of white dwarf exoplanets <i>Advisor: Dr. Luis Henry Quiroga-Nuñez</i> ◦ Overview: Modelling the habitable zone of a temperate planet around a white dwarf, and predicting the presence of conditions that could accommodate abiogenesis or photosynthesis. Also evaluating observation targets and the time required to detect signs of life using JWST.	<i>August 2023 - Present</i>
• Energetic approach to habitability of Europa <i>Advisor: Dr. Manasvi Lingam</i> ◦ Overview: Using a bioenergetic model (NutMEG) to predict the amount of biomass and presence of biosignatures in the subsurface ocean of Europa. Based on a computational model developed to track the energy consumption of basic lifeforms in subsurface oceans.	<i>May 2022 - May 2023</i>

EMPLOYMENT

• Ortega Observatory <i>Observatory Assistant</i> ◦ Experience: Oversee daily observatory operations, projects, and outreach events. Currently leading mobile observatory educational outreach partnership with NASA KSCVC.	Melbourne, FL, US <i>August 2024 - Present</i>
• Florida Institute of Technology <i>Graduate Teaching Assistant</i> ◦ Experience: Instructor of Physics 1 lab (Spring 2024) and Observational Astronomy (Current). Responsibilities include lesson planning, leading instruction, designing and grading assignments, etc.	Melbourne, FL, US <i>December 2023 - Present</i>

AWARDS AND CERTIFICATES

• NASA DARES RFI Workshop ECR Travel Award - 2025	• Graduated Magna Cum Laude - 2021
• NCAR/CISL Exploratory Allocation - 2025	• D2 Athletics Director's Associative Academic Achievement Award - 2021
• Graduate Outstanding Student of the Year - 2025	• Chi Alpha Sigma Honor Roll - 2020-2021
• Teaching Assistant Certification - 2023	• SAC Commissioners Honor Roll - 2018-2021
• Graduated Summa Cum Laude - 2023	• AD All-Academic Team - 2018-2021
• Dean's List - 2018-2023	• Trustee's Scholarship - 2017-2021
• Employee of the Semester - 2022	