

My remaining time at UNLV will be spent studying and researching to attain my Master's and Ph.D. in Astronomy. Additionally, I would like to establish myself in the subfields of Exoplanet Science and Exoplanet Formation through multiple publications and research projects. Once I finish my studies at UNLV, I plan to complete a post-doctoral position before becoming a professor at a university or a researcher at a national laboratory.

This year my research project will be focused on examining how unique dynamical changes in the orbits of exoplanet systems around red dwarf stars may impact the climate of habitable zone exoplanets. Habitable zone exoplanets orbit at the distance from their star that is the right temperature for liquid water to exist. When there are multiple planets in orbit around red dwarf stars, their gravitational forces pull on each other causing large shifts in their orbits over short periods of time that can change the amount of heat the planets receives. These changes can impact the habitability of the planet and inform us about the planet's climate, seasons, and possibly weather.