

2024-2025 Nevada Space Grant Fellowship Biography

My name is Giovanni Vazquez and I am currently a Master's student within the Department of Electrical and Computer Engineering at the University of Nevada, Las Vegas. Upon graduation, I intend to pursue a Ph.D. in Electrical Engineering with a focus in Signal Processing and Communication systems. I plan to utilize this knowledge base as a researcher for NASA's Earth Science Division to help interpret and analyze remote sensing data collected from satellites. Through these efforts, I hope to be able to help provide new insight into our changing climate and environment. My project for the year involves using data compiled from Synthetic Aperture Radar (SAR) satellites, in conjunction with deep learning-based models, to streamline and enhance the accuracy of critical canopy fuel parameters used for wildfire simulations.