OMAR M. ALJEBRIN

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EDUCATION

George Mason University, Honors College, Virginia ***January 2022 - Present***

Bachelors of Science in Physics, Minor in Astrophysics GPA: 3.72

RESEARCH EXPERIENCE

Undergraduate Research Assistant, George Mason University ***May 2024 - Present***

Propose functions to fit position-versus-time data of a coronal mass ejection (CME) and determine the times of transition between its slow rise, impulsive, and propagation phases.

EXPERIENCE

NASA L'SPACE Mission Concept Academy ***Aug. 2024 - Dec. 2024***

Participant - Team Role: Chief Scientist

- Gained hands-on experience in space mission concept formulation, focusing on science goals, objectives, and success criteria, while following the NASA mission life cycle up to the Preliminary Design Review.
- Led and supported the development of science goals and payload selection, ensuring alignment of engineering design with scientific objectives and coordinating landing site research.

HONORS & AWARDS

Dean's List ***2023 – Present***

Cumulative GPA above 3.5

3rd Place, GMU Calculus Olympiad (Team) ***May. 2024***

CONFERENCES & PRESENTATIONS

Honors Collage Exhibition ***Dec. 2024***

Machine Learning and Superconductors: How can quantum machine learning improve the accuracy of predicting the critical temperature of superconductors?

AGU24, Co Author ***Dec. 2024***

The Effect of Reference Map and Neighborhood Size on the Fractional Skill Score of Modeled Coronal Holes

SKILLS

Python

1 year of experience working with data analysis, simulation, and modeling. Packages: Numpy, Scipy, Pandas, Matplotlib.