MICHAEL ANDERSON

Astrodynamics Researcher

CONTACT

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EDUCATION

PhD in Planetary Science
University of Michigan
2016-2020

SKILLS

- Astrodynamics
- Simulation modeling
- Python
- MATLAB
- Data analysis
- Team collaboration

LANGUAGES

- English
- Spanish
- French

I am a results-driven Celestial Mechanics Scientist with a focus on planetary science and astrodynamics, possessing over 7 years of experience in academia and industry. My work has centered on analyzing celestial phenomena and developing simulation models for planetary bodies. I have collaborated on various missions that have expanded our understanding of the solar system, focusing on the gravitational interactions between celestial bodies.

WORK EXPERIENCE

Astrodynamics Researcher
2020-2023

Johns Hopkins Applied Physics Laboratory

- Developed simulation models for planetary missions, enhancing mission planning accuracy.
- Conducted research on gravitational assists, improving trajectory design for spacecraft.
- Collaborated with engineers to validate models through extensive testing.
- Presented research outcomes to funding agencies, securing additional project funding.
- Utilized Python and MATLAB for data analysis and simulation tasks.
- Mentored graduate students on research methodologies and best practices.

Graduate Research Assistant
2019-2020

University of Michigan

- Conducted analysis of celestial body interactions, contributing to academic publications.
- Developed algorithms for modeling astrodynamic behaviors of spacecraft.
- Collaborated with faculty on projects that received national attention.
- Presented research findings at conferences, increasing visibility in the field.
- Participated in workshops focused on the future of space exploration.
- Engaged with the public through outreach initiatives promoting space science.

ACHIEVEMENTS

- Recipient of the AIAA Best Paper Award for research on gravitational assists.
- Co-authored a paper that was recognized as a significant contribution to planetary science.
- Secured a research grant for a project focused on celestial mechanics innovation.