



# Michael ANDERSON

## JUNIOR CELESTIAL MECHANICS ENGINEER

As an emerging Celestial Mechanics Scientist, I have accumulated 4 years of experience focused on the simulation and analysis of celestial events. My academic background in physics and engineering has equipped me with a solid foundation in the principles of orbital mechanics. I have a keen interest in developing predictive models for asteroid trajectories and their potential impact on Earth.

### CONTACT

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- 📍 San Francisco, CA

### SKILLS

- Celestial dynamics
- Python
- R
- Data analysis
- Simulation software
- Team collaboration

### LANGUAGES

- English
- Spanish
- French

### EDUCATION

**BACHELOR OF SCIENCE IN PHYSICS,  
UNIVERSITY OF CALIFORNIA, LOS  
ANGELES**

### ACHIEVEMENTS

- Developed a predictive model for asteroid trajectories that was adopted by national defense agencies.
- Recognized for outstanding performance during internship, leading to continued collaboration.
- Contributed to a research project that received funding from a prestigious space grant.

### WORK EXPERIENCE

#### JUNIOR CELESTIAL MECHANICS ENGINEER

Planetary Defense Coordination Office

2020 - 2025

- Assisted in the development of models predicting asteroid trajectories, contributing to planetary defense strategies.
- Performed simulations of gravitational interactions between celestial bodies to assess potential threats.
- Collaborated with senior scientists to refine data collection methodologies.
- Presented findings to stakeholders, enhancing understanding of planetary defense initiatives.
- Utilized Python to automate the analysis of trajectory data, improving processing efficiency.
- Engaged in outreach programs to educate the public on asteroid impact preparedness.

#### RESEARCH INTERN

NASA Goddard Space Flight Center

2015 - 2020

- Supported ongoing research projects on celestial mechanics, compiling and analyzing data.
- Developed scripts in R for data visualization, enhancing the presentation of research results.
- Contributed to the preparation of research papers submitted to academic journals.
- Participated in team meetings to brainstorm innovative approaches to celestial simulations.
- Assisted in the organization of workshops aimed at promoting interest in space science.
- Engaged with researchers from various disciplines to foster collaborative efforts.