



# MICHAEL ANDERSON

## HELIOPHYSICS ANALYST

### PROFILE

Results-driven Heliophysicist with 8 years of experience specializing in solar-terrestrial interactions and their implications for satellite technology. Skilled in utilizing advanced data analytics to evaluate solar data trends and impacts on communications and GPS systems. Proven ability to collaborate with cross-functional teams to enhance satellite resilience against solar events. Strong background in educational outreach, effectively communicating complex heliophysics concepts to diverse audiences.

### EXPERIENCE

#### HELIOPHYSICS ANALYST

##### Space Weather Prediction Center

2016 - Present

- Analyzed real-time solar data to assess risks to satellite operations during solar storms.
- Developed metrics to evaluate the impact of space weather on global communication networks.
- Collaborated with satellite engineers to design mitigation strategies for solar event impacts.
- Created educational materials on space weather for public dissemination.
- Participated in international workshops aimed at improving global space weather forecasting.
- Generated weekly reports summarizing solar activity trends for stakeholders.

#### RESEARCH SCIENTIST

##### Southwest Research Institute

2014 - 2016

- Conducted research on the effects of solar radiation on Earth's ionosphere.
- Utilized simulation tools to model satellite behavior during solar storms.
- Published research findings in top-tier journals and presented at international conferences.
- Engaged with local schools to promote interest in space science and heliophysics.
- Collaborated with NASA and NOAA on joint research initiatives.
- Enhanced computational techniques for solar data analysis leading to a 30% increase in efficiency.

### CONTACT

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### SKILLS

- Data Analytics
- Risk Assessment
- Satellite Technology
- Communication
- Research Collaboration
- Public Outreach

### LANGUAGES

- English
- Spanish
- French

### EDUCATION

M.S. IN SPACE SCIENCE, UNIVERSITY OF ALABAMA IN HUNTSVILLE, 2014

### ACHIEVEMENTS

- Developed a space weather application adopted by government agencies for real-time monitoring.
- Presented research at the International Heliophysics Symposium in 2019.
- Received the Space Weather Research Award in 2021 for outstanding contributions in the field.