



MICHAEL ANDERSON

SENIOR EXOPLANET RESEARCHER

PROFILE

With a career spanning over 12 years in observational astronomy, I have been at the forefront of studying exoplanetary systems and their atmospheres. My expertise lies in remote sensing and photometry, where I have successfully led numerous projects that aim to characterize the potential habitability of distant worlds.

EXPERIENCE

SENIOR EXOPLANET RESEARCHER

Planetary Science Institute

2016 - Present

- Led a team of astronomers in the discovery of 15 new exoplanets using transit photometry methods.
- Developed a new algorithm for light curve analysis, increasing detection sensitivity by 40%.
- Collaborated with international teams for extensive data sharing and joint research initiatives.
- Presented groundbreaking findings at 5 major astronomy conferences, enhancing institutional visibility.
- Engaged with the media for public outreach, significantly raising awareness about exoplanet research.
- Supervised graduate students in observational techniques and data interpretation, fostering academic growth.

OBSERVATIONAL ASTRONOMER

NASA Exoplanet Exploration Program

2014 - 2016

- Conducted high-precision photometric observations using space-based telescopes.
- Analyzed data sets to identify atmospheric compositions of exoplanets, contributing to habitability studies.
- Collaborated with engineers to optimize telescope performance and calibration procedures.
- Published 8 significant research papers that have influenced current exoplanet studies.
- Participated in educational initiatives, providing lectures and workshops to promote STEM education.
- Utilized machine learning techniques to improve data processing efficiency for large datasets.

CONTACT

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SKILLS

- Remote sensing
- Photometry
- Data analysis
- Machine learning
- Public outreach
- Project management

LANGUAGES

- English
- Spanish
- French

EDUCATION

PH.D. IN ASTROPHYSICS,
MASSACHUSETTS INSTITUTE OF
TECHNOLOGY

ACHIEVEMENTS

- Co-author of a landmark paper on the atmospheric conditions of exoplanet TRAPPIST-1d.
- Secured a multi-million dollar grant for a research project on exoplanet habitability.
- Awarded the Emerging Scientist Award from the American Astronomical Society.