

DR. ALISON O. FARRISH

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EMPLOYMENT

Goddard Space Flight Center, Greenbelt, MD *November 2021 - Present*
NASA Postdoctoral Program (NPP) Fellow

Rice Space Institute, Houston, TX *June 2021 - September 2021*
Postdoctoral Researcher

EDUCATION

Rice University, Houston, TX *August 2016 - May 2021*
Ph.D. in Physics and Astronomy
Master of Science in Physics and Astronomy

Cornell University, Ithaca, NY *August 2012 - May 2016*
Bachelor of Arts and Sciences in Astronomy

PUBLICATIONS

Sun Sailing Polar Orbiting Telescope (SunSPOT): A Solar Polar Imaging Mission Design
Probst, A., Anderson, T., Farrish, A.O., Kjellstrand, C.B., Newheart, A.M., Thaller, S.A., et al.
Advances in Space Research, 2022, ISSN 0273-1177

Modeling Stellar Activity-Rotation Relations in Unsaturated Cool Stars
Farrish, A. O., Alexander, D., Johns-Krull, C. M., Li, M.
The Astrophysical Journal, 2021, 916, 99

Incorporating Inner Magnetosphere Current-driven Electron Acceleration in Numerical Simulations of Exoplanet Radio Emission
Sciola, A. M., Toffoletto, F., Alexander, D., Farrish, A. O.
The Astrophysical Journal, 2021, 914, 60

Characterizing the Magnetic Environment of Exoplanet Stellar Systems
Farrish, A. O., Alexander, D., Maruo, M., DeRosa, M., Toffoletto, F., Sciola, A. M.
The Astrophysical Journal, 2019, 885, 51

SELECTED PRESENTATIONS

Invited Talk, Triennial Earth-Sun Summit *August 2022*
Modeling the X-ray and EUV Emission of Sun-like Exoplanet Host Stars

Oral Presentation, Fifty Years of the Skumanich Relations *March 2022*
Modeling Stellar Activity-Rotation Relations in Unsaturated Cool Stars

AU Seminar, Rice University *February 2022*
Modeling Stellar Activity-Rotation Relations in Unsaturated Cool Stars

Special Seminar, Harvard-Smithsonian Center for Astrophysics *January 2019*
Simulating Asterospheric Magnetic Field Behavior of Exoplanet Host Stars

AWARDS

- William and Elva Gordon Fellowship** *May 2020*
Award for Graduate Studies in Space Physics and Astronomy
Rice University Department of Physics and Astronomy
- Henry F. and Margaret Dunlap Fellowship** *May 2020*
Rice University Department of Physics and Astronomy
- Outstanding Student Poster Award** *August 2019*
Solar, Heliospheric, and Interplanetary Environment (SHINE) Conference
- Sam and Helen Worden Fellowship** *August 2016*
Rice University Department of Physics and Astronomy

PREVIOUS RESEARCH EXPERIENCE

- Leiden-ESA Astrophysics Program for Summer Students (LEAPS)** *June - August 2015*
Summer Research Assistant
Leiden Observatory, Leiden, NL
- Arecibo Legacy Fast ALFA (ALFALFA) Survey** *September 2013 - June 2015*
Undergraduate Research Assistant
Cornell University, Ithaca, NY / Arecibo Observatory, Arecibo, PR

TEACHING EXPERIENCE

- PHYS 116: Seminar in Physics and Astronomy @ Rice** *January - March 2020*
Co-Instructor
Rice University Department of Physics and Astronomy

EXTRACURRICULAR ACTIVITIES

- Rice University Graduate Student Association**
President *March 2020 - March 2021*
Vice President of Community Engagement *March 2019 - March 2020*
- Rice University Women in Physics**
Secretary *May 2019 - May 2020*
- Physics and Astronomy Graduate Student Association**
Graduate Program Committee Representative *September 2018 - May 2020*