AKSHAY SURESH

Space Sciences Building 518, 122 Sciences Drive, Cornell University, Ithaca NY 14853

EDUCATION

RESEARCH EXPERIENCE

Graduate Research Assistant

Aug 2017 - Present

Cornell Center for Astrophysics and Planetary Science

Advisors: James M. Cordes and Shami Chatterjee

Ph.D. thesis: Radio Transient Searches from Millisecond to Hour-long Timescales

Masters Thesis Research

May 2016 - Apr 2017

National Centre for Radio Astrophysics (NCRA-TIFR), Pune

Advisor: Divya Oberoi

MS thesis: Investigation of Small Scale Weak Solar Emissions at Low Radio Frequencies

Undergraduate Summer Internships

DAAD-WISE internship at Max Planck Institute for Extraterrestrial Physics May-Jul~2015NIUS-Physics fellow at NCRA-TIFR, Pune May-Jul~2014

AWARDS AND FELLOWSHIPS

Cranson and Edna B. Shelley Outstanding Teaching Assistant Award (Cornell Univ.)	2019
Institute Gold Medal (IISER Pune)	2017
Outstanding Student Paper Award in Space Physics and Aeronomy (AGU Fall Meeting	ng) 2016
DAAD-WISE Summer Scholarship	2015
National Initiative on Undergraduate Sciences — Physics Fellowship	2013
Kendriya Vaigyanik Protsahan Yojana Fellowship	2012 - 2017

TEACHING EXPERIENCE

Head Teaching Assistant (Cornell University)
ASTRO 1101: From New Worlds to Black Holes

Fall 2018

Teaching Assistant (Cornell University)

ASTRO 1102: Our Solar System

ASTRO 1101: From New Worlds to Black Holes

Spring 2018

Fall 2017

REFEREED JOURNAL PUBLICATIONS

- 3. Suresh, A., Chatterjee, S., Cordes, J. M., Bastian, T. S. & Hallinan, G., "Detection of 2—4 GHz Continuum Emission from ϵ Eridani", 2020 ApJ 904 138.
- 2. Suresh, A., & Cordes, J. M., "Induced Polarization from Birefringent Pulse Splitting in Magneto-ionic Media", 2019 ApJ 870 29.
- 1. Suresh, A., Sharma, R., Oberoi, D., et al. (39 authors), "Wavelet-based Characterization of Small-scale Solar Emission Features at Low Radio Frequencies", 2017 ApJ 843 19.

ACADEMIC PRESENTATIONS

ACADEMIC PRESENTATIONS	
Contributed Conference Talks	
NANOGrav Fall Meeting The Breakthrough Listen Galactic Center Survey using the Green Bank Telescope	2019
<u>Institute Seminars</u>	
NCRA-TIFR Seminar Birefringent Pulse Splitting in Magnetoionic Media	2019
UC Berkeley SETI Seminar Propagation-induced Effects on Fast Radio Bursts and Extraterrestrial Intelligence Signal	2018 ls
<u>Posters</u>	
35th Meeting of the Astronomical Society of India Exploring the Spatial Distribution of Weak Non-thermal Energy Releases on the Solar Surfe	2017 ace
American Geophysical Union Fall Meeting Wavelet Based Characterization of Low Radio Frequency Solar Emissions	2016
34th Meeting of the Astronomical Society of India Statistical analysis of weak solar bursts seen with the Murchison Widefield Array	2016
APPROVED TELESCOPE ALLOCATIONS (AS PI)	
Very Large Array: VLA/19A-283: Precise Localization of Flares from the ϵ Eri Exoplanetary System	(12 hrs.)
Green Bank Telescope: GBT/21A-332: A Pilot Search for Galactic Transients from VLASS-identified Sources GBT/19A-407: A FLAG Survey of Virgo and Coma Clusters for Fast Radio Bursts	(12 hrs.) (64 hrs.)
Arecibo telescope: P3315: L-band Survey of M87 for Fast Radio Bursts	(12 hrs.)

MENTORING EXPERIENCE

Supervised Ryan J. Hill & Ethan S. Bair (both Cornell undergrads) during Fall 2019 on "Radio Frequency Interference Classification using Convolutional Neural Networks."

MEMBER AFFILIATIONS AND COLLABORATIONS

Associate member, NANOGrav collaboration	2019 - Present
Graduate student member, American Astronomical Society	2019-Present
Member, American Association for the Advancement of Science	2019-Present
Associate member, Murchison Widefield Array collaboration	2016 - 2018
Student member, Astronomical Society of India	2016 - 2017

TECHNICAL SKILLS

Computer Languages Python, C, C++, LATEX, HTML

Astronomy Software PRESTO, CASA, DS9

PROFESSIONAL SERVICE

Journal Referee

Monthly Notices of the Royal Astronomical Society

Aug 2020 - Present

OUTREACH

"Ask an Astronomer" team member at Cornell University

Aug 2017 - Present
Answer astronomy-related questions submitted by the public on an online forum.

4H Career Explorations for high school students

2018

Conducted lectures and demonstrations on blackbody radiation and spectral lines.

Museum in the Dark 2018

Organized stargazing sessions as part of a Halloween-themed night-time event at a local museum.