ANEESH BABURAJ

(he/him)
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EDUCATION

UC San Diego, La Jolla, CA, USA ***September 2019 - Present***
Graduate student (Ph.D. in Physics) GPA: 3.85/4

Indian Institute of Science, Bengaluru, Karnataka, India ***August 2015 - May 2019***
Bachelor of Science (Research) GPA: 7.1/8
Major : Physics

GRANTS & FELLOWSHIPS

JWST Cycle 3 grant ***begins November 2024***
A grant from the Space Telescope Science Institute (STScI) for analysis of the JWST data from the Cycle 3 program GO 5485 (PI Baburaj & Konopacky)

Future Investigators in NASA Earth and Space Science and Technology (FINESST) ***September 2023 - present***
A grant from NASA for current astronomy graduate students at accredited U.S. universities to perform research relevant to NASA science, technology, and exploration goals.

Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship ***August 2015 - August 2019***
A fellowship from the Department of Science and Technology (DST), Government of India, to pursue an undergraduate degree in Basic Sciences.

National Talent Search (NTS) fellowship ***August 2013 - August 2015***
A fellowship from the Human Resource Development (HRD) Ministry, Government of India, for meritorious high school students.

SELECTED RESEARCH EXPERIENCE

Department of Astronomy & Astrophysics, UC San Diego ***July 2020 - present***
Graduate research (Advisor: Dr. Quinn Konopacky)

Raman Research Institute (RRI), Bengaluru, India & Indian Institute of Science (IISc) ***August 2018 - April 2019***
Bachelor's thesis (Primary advisor: Dr. K. S. Dwarakanath, RRI; Co-advisor: Dr. Nirupam Roy, IISc)

Max Planck Institute for Astrophysics, Garching, Germany ***May 2018 - July 2018***
Summer Project (Advisor: Dr. Guinevere Kauffmann)

Department of Physics, Indian Institute of Science ***May 2017 - July 2017***
Summer Project (Advisor: Dr. Chanda Jog)

SELECTED PUBLICATIONS

1. **Aneesh Baburaj**, Quinn Konopacky, Christopher Theissen, et al. "A High-Resolution Spectroscopic Survey of Directly Imaged Companion Hosts: I. Introducing methods through analysis of well-known companion host stars", submitted to AJ

WORKSHOPS AND CONFERENCES

Cool Stars 22, San Diego, CA ***June 24-28, 2024***

The next conference in the Cool Stars series, hosted by the UC San Diego Department of Astronomy & Astrophysics. Was part of the LOC and presented a poster at the conference.

Extreme Solar Systems V, Christchurch, New Zealand ***March 16-21, 2024***

The conference focuses on research on exoplanetary systems, including their detection, composition, formation, and evolution. Presented a poster at the conference.

STScI Spring Symposium, Baltimore, MD ***May 16-19, 2023***

The symposium brought together researchers working with JWST data planetary systems and their precursors, the solar system, and astrobiology, stimulating discussions and exchange of ideas for future JWST cycles. Gave a talk at the symposium.

Protostars and Planets VII, Kyoto, Japan ***April 10-15, 2023***

The conference focuses on the formation of stars and planets and includes a series of review talks summarizing the development in our field in recent years. Presented a poster at the conference.

AAS 241, Seattle, WA ***January 8-12, 2023***

The annual winter conference by the American Astronomical Society (AAS). The conference included splinter sessions dedicated to direct imaging as well as exoplanet atmospheres. Presented a poster at the conference.

Cool Stars 21, Toulouse, France ***July 4-9, 2022***

The conference focused on research on cool stars and warm exoplanets. Presented a poster at the conference.

Spirit of Lyot 2022, Leiden, Netherlands ***June 27-July 1, 2022***

The conference focused on direct detection and characterization of exoplanets and circumstellar disks, as well as new technological advances in their detection. Presented a poster at the conference.

2021 Sagan Exoplanet Summer Virtual Workshop ***July 19-23, 2021***

The workshop included several talks on topics in Circumstellar Disks and Young Planets, virtual workshop sessions on modeling exoplanet atmospheres as well as informal interaction sessions with speakers.

TEACHING EXPERIENCE AT UC SAN DIEGO

Teaching assistant (Lower Division Physics) ***September 2019 - September 2021***

Organized labs and discussion sessions for $\sim$50 students per semester, graded their lab reports, proctored their exams, and addressed their concerns.