BALU SREEDHAR

(+61) 492843803 \$\phi\$ bsreedhar@student.unimelb.edu.au\$ balu.srdhr@gmail.com

EDUCATION

University of Melbourne, Australia

March 2020 - Present

PhD in Astrophysics

Supervisors: Prof. Stuart Wyithe, Dr. Bradley Greig

Expected Completion: September 2023

Pondicherry University, India

June 2014 - May 2019

CGPA: 9.30

Integrated MSc Physics

Thesis: On the Path-Integral Approach to Quantum Mechanics

Supervisor: Dr. B. Muthukumar

TECHNICAL STRENGTHS

Software GNU/Linux, Git, IRAF, LATEX

Programming Python, C, FORTRAN, Bash scripting

TALKS & POSTER PRESENTATIONS

- **2021 Contributed Talk** 8th Annual Science At Low Frequencies (SALF) Conference, **Online** Impact of Mass Resolution and Galaxy Formation on 21-cm Global Signal from EoR.
- **2021 Poster presentation** ACAMAR 7: Australia-China Workshop on Astrophysics, **Online**, A computationally cheap trillion particle N-body simulation.
- **2021 Contributed Talk** 4th Global 21-cm Workshop, **Online**, *Impact of Galaxy Formation on 21-cm Global Signal*.
- **2021 Contributed Talk** Regional Astronomy Meeting 2021, **Online**, Semi-Analytic Galaxy Formation Applied to the Epoch of Reionisation.
- **2021 Poster presentation** ASA Annual Science Meeting 2021, Melbourne, Austalia, **In-person**, A computationally cheap trillion particle N-body simulation.

AWARDS & SCHOLARSHIPS

- Melbourne Research Scholarship, University of Melbourne, 2020 2023.
- Postgraduate Merit Scholarship, Pondicherry University, 2017 2019.
- Merit Scholarship, Pondicherry University, 2014 2017.

WORKSHOPS TRAINING

- 2020 Harley Wood School of Astronomy, hosted by ICRAR.
- 2019 2020 Visiting Student in the Astronomy and Astrophysics group at Raman Research Institute (RRI), Bangalore under Prof. Ravi Subrahmanyan and Prof. N. Udaya Shankar.
 Project Title: Secondary Science with PRATUSH.
 - **2019 Poster presentation** at Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune as part of the SITARE programme, on how different parameters of stars' such as distance, temperature, size, structure, and mass are determined.
 - **2019 Participant** of the Advanced SITARE(Southampton IUCAA Training for Astronomical Research and Education) workshop conducted at IUCAA, Pune during January 10-16, 2019.

- **2018 Participant** of SITARE conducted in collaboration between University of Southampton, UK and IUCAA, Pune during 17-19 September, 2018.
- **2018 Summer intern** at Indian Institute of Astrophysics(IIA), Bangalore, India (June, 2018) under Dr. Maheswar Gopinathan.

Project Title: Determination of Diffuse Interstellar Bands in LAMOST spectra

- **2018 Participant** of Indian Institute of Astrophysics(IIA)'s Summer School on Astronomy and Astrophysics at Kodaikanal Solar Observatory (15-30 May, 2018).
- 2017 Indian Academy of Sciences (IASc) Summer Research Fellow 2017 at Saha Institute of Nuclear Physics (SINP), Kolkata under the guidance of Prof. Sukalyan Chattopadhyay.
 Project Title: Introduction to Relativistic Heavy-Ion Collisions
- 2016 Participant of Physics Training and Talent Search (PTTS) 2016 (December), funded by Infosys Science Foundation, conducted at Regional Institute of Education(RIE), Mysore for meritorious undergraduates in mathematics and physics.
- 2016 Summer intern at Pondicherry Magnetic Observatory of Indian Institute of GeoMagnetism (IIGM) under Dr. Anil Iype (May-June 2016).
 Project Title: Principles of Observatory Magnetometry
- **2011 Participant** in Inspire Camp for meritorious school children organized by Department of Science and Technology, India.

TEACHING AND PROFESSIONAL ACTIVITIES

- Local Organising Committee member, Harley Wood School of Astronomy 2021
- Lab Demonstrator, First Year Physics, University of Melbourne, Semester 1 2021
- Equity, Diversity & Inclusion Committee member, ASTRO3D, 2021
- Student member of the ARC Centre of Excellence for All Sky Astrophysics in 3D, ASTRO3D, 2020–Present

LANGUAGES

Malayalam Mothertongue

English Fluent (TOEFL: 108/120)

Tamil, Hindi Fair