

Debatri Chattopadhyay

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2024-present

PREVIOUS EMPLOYMENT

Research Associate,
Gravity Exploration Institute,
Cardiff University, United Kingdom.

2021-2024

EDUCATION

*PhD (Astrophysics),
Swinburne University of Technology
Centre for Astrophysics and Supercomputing, Australia
ARC Centre of Excellence for Gravitational Wave Discovery (OzGrav)*
Primary Supervisor : Prof. Jarrod Hurley
Associate Supervisors : Dr. Simon Stevenson, Prof. Matthew Bailes

2017-2021

*Master of Science (Physics),
Indian Institute of Technology Kharagpur, India
CGPA 8.22/10.00*

2014-2016

*Dissertation: Magneto-hydrodynamic turbulence in Kepler's Supernova Remnant
Special Papers: General Theory of Relativity, Introduction to Astronomy and Astrophysics, Quantum Field Theory*

*Bachelor of Science (Physics Honours),
University of Calcutta, India
First Class
General Papers: Mathematics, Chemistry*

2011-2014

NASA ADS LINK FOR PUBLICATION LIST

<https://tinyurl.com/4fnfte4t>
<https://orcid.org/0000-0001-5867-5033>

LEADERSHIP

- Organizer: Departmental seminar, colloquium and group meeting 2023 (Cardiff)
- Scientific Organising Committee: NAM 2023 (Cardiff)
- Local Organising Committee: LIGO Virgo KAGRA 2022 (Cardiff)
- Student representative and council board member, ASA (Astronomical Society of Australia), selected by open election, 2018 - 2019

- Student representative, (HDR) Higher Degrees Research committee for OzGrav Swinburne node students, Swinburne 2019
- Local Organising Committee: Harley Wood School of Astronomy 2017 (Melbourne)

ACHIEVEMENTS

- Endorsed by the Royal Society for 73rd Lindau Nobel Laureate Meeting and co-Master of Ceremony at the Opening Event, 2024
- Antarctic Climate Summit Voyage, 19 nights in Antarctica: Homeward Bound, leadership training for women in STEMM, 2023
- Faculty of Science, Engineering and Technology (FSET), Swinburne University of Technology, Research Award 2020: HDR Outstanding Article: Winner
- FSET Research Award 2020: Postgraduate Student of the Year: Commendation
- OzGrav Outreach Volunteer of the Year, Swinburne node: 2020
- CSIR-UGC Test for Junior Research Fellowship and Eligibility for Lectureship (NET) with all India rank 45 in Physical Sciences conducted by Council of Scientific & Industrial Research, Government of India, 2016
- National Graduate Physics Examination (NGPE: National examination conducted by Indian Association of Physics Teachers) in Top 1%, 2014
- Acharya Jagadis Bose National Science Talent Search Scholar, 2011
- INSPIRE Scholar (Innovation in Science Pursuit for Inspired Research) : by the Department of Science and Technology, Government of India, 2011

OUTREACH (SELECTED)

- Adler Planetarium Volunteer, Chicago, 2025
- Astronomy on Tap, Cardiff, 2024
- Co-author children's book: "Women in Physics" (ISBN-10:0645041122), 2022
- AstroTour guide, Melbourne, 2017 - 2021
- OzGrav YouTube Talk: Gravity and Physics, 2021
- LIGO-India: Glorious Women of Astronomy, blog 8: Podcast-interview, 2021
- Astrophysiz: Heavy mass binaries and gravitational waves, episode 126: Podcast and interview, 2021
- Public Lecture: State of the Universe: Gravity and Black Holes, National Science Week, 2020
- Faces of OzGrav, Space Times, Jun 2020
- Media quoted: Scientists find mysterious astrophysical object in black hole collision, 2020
- TV ABC News: interview, 2020
- Article : Riding the wave in a new era of astrophysics, 2017

TEACHING

- Co-supervisor PhD student Oct:2021-Sep:2024, Master's Student: Jun 2024
- Special Lecture - General Relativity, Oct: 2021, 2023
- Tutor - Discovering the Universe (AST10001), Aug - Nov : 2019; 2020
- Tutor - Energy and Motion (PHY10001), Mar - Jun : 2019; 2020
- Lab Instructor - Energy and Motion (PHY10001), Mar - Jun : 2018

CONFERENCES & INVITED LECTURES (SELECTED)

- *Kavli Institute of Theoretical Physics, Stellar-Mass Black Holes at the Nexus of Optical, X-ray, and Gravitational Wave Surveys, Speaker, Santa Barbara, 11/2025*
- *University of Glasgow, GR24 and Amaldi16, Speaker, Glasgow, 07/2025*
- *University of Cambridge, Institute of Astronomy, Cambridge, Invited Speaker, 07/2025*
- *Northwestern University, NSF-Simons SkAI@REACH Outreach Panel, Panelist on AI in Astro, Evanston, IL, USA 07/2025*
- *International Astronomical Union (IAU) Symposium 398 & MODEST-25, Invited Speaker, Seoul, South Korea, 06/2025*
- *University College London, Cosmology/Extra-Galactic Seminar, Invited Speaker, 09/2024*
- *Kings College London, Higgs Lecture (Dame Jocelyn Bell) & Workshop ‘New Physics with Neutron Stars’, Invited Speaker and panel member, 05/2024*
- *Center for Astrophysics, Harvard & Smithsonian, Harvard University (CfA Harvard), HEAD seminar: Invited Speaker, 09/2023*
- *Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA), Northwestern University, Seminar: Invited Speaker, 09/2023*
- *MODEST (MOdelling DEnse STellar systems)-20: Star Clusters in the Post- Pandemic Era, Northwestern University, Chicago, 08/2023*
- *Gravitational-wave populations: what’s next?, Milan, Panel Discussion: 07/2023*
- *Institute of Cosmos Sciences, University of Barcelona (ICCUB), Seminar: Invited Speaker, 06/2023*
- *University of Heidelberg, Silk Road Seminar: Invited Speaker, 01/2023*
- *University of Cambridge, Department of Applied Mathematics and Theoretical Physics, Gravity Seminar: Invited Speaker, 10/2022*
- *Penn State University, Center for Particle and Gravitational Astrophysics:Lecture, 07/2022*
- *Aspen Center for Physics, Fundamental Physics and Astrophysics with the Next Generation of Gravitational Wave Detectors: workshop, 06/2022*
- *PHAROS: The mutli-messenger physics and astrophysics of neutron stars, Rome, 05/2022*
- *Nicolaus Copernicus Astronomical Centre : Invited Speaker, 05/2022*
- *The Institute of Mathematical Sciences, Chennai, Physics Seminar, IMSc Webinar: Invited Speaker, 01/2021*
- *Centre for Theoretical Physics, Polish Academy of Sciences, Astro-Cosmo Journal Club: Invited Speaker, 11/2020*
- *MODEST (MOdelling DEnse STellar systems)-20: Dense Star Clusters in the Era of Large Surveys: Tata Institute of Fundamental Research, Mumbai, 02/2020*
- *Astronomical Society of Australia, Annual Meeting, Brisbane, 07/2019*
- *IPTA (International Pulsar Timing Array) Science Week, Pune, 06/2019*
- *Monash Centre for Astrophysics: Invited Speaker, 08/2018*
- *MODEST (MOdelling DEnse STellar systems)-18: Dense Stellar Systems in the Era of Gaia, LIGO & LISA, Santorini, 06/2018*
- *ANITA (Australian National Institute for Theoretical Physics) Workshop and School (Gravitational Wave Astronomy), Perth, 02/2018*
- *ACGRG9 (9th Australasian Conference on General Relativity and Gravitation), Gingin, 11/2017*