

# Nabanita Das

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Date of Birth: 12th of March, 1999

## Research interests

Supermassive black holes, Active Galactic Nuclei, high energy astrophysics.

## Education

- 2022 – **Georgia State University** – Atlanta, Georgia  
Ph.D. in Astronomy
- 2022 – 2024 **Georgia State University** – Atlanta, Georgia  
MS in Physics (Astronomy concentration)  
*GPA: 4.00/4.00*
- 2019 – 2021 **Presidency University** – Kolkata, West Bengal, India  
M.Sc. in Physics
- 2016 – 2019 **Presidency University** – Kolkata, West Bengal, India  
B.Sc. in Physics

## Publications

- To be submitted in Astrophysical Journal (In prep)*  
*The Minor Planet Bulletin* 2023  
*Astrophysical Journal.* 2020
- “A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015”**  
Nabanita Das, Misty C. Bentz, Eugene Vasiliev, Monica Valluri, Christopher A. Onken, S. I. Raimundo, & Marianne Vestergaard.
- “Broad-Band Photometric Monitoring of 2500 Alascattalo”**  
Misty C. Bentz, Nabanita Das, +15 more.
- “Blazar Variability: A Study of Non-stationarity and the Flux–RMS Relation”**  
Joy Bhattacharyya, Ritesh Ghosh, Ritaban Chatterjee, & Nabanita Das.

## Research experience

- Fall 2022 – **Stellar Dynamical Modeling to find the black hole mass in Bright Seyfert Galaxy MCG-06-30-015**  
Mentor: Prof. Misty C. Bentz (Georgia State University).
- April 2021 – Nov 2021 **Study of origin of short timescale variability in blazar Mrk 493**  
Mentor: Dr. Ritaban Chatterjee (Presidency University).
- September 2020 – June 2021 **Contribution of Cosmological Cosmic Rays in the Primordial  $Li^6$  Problem (M.Sc. thesis)**  
Mentor: Dr. Saumyadip Samui (Presidency University).
- January 2019 – June 2019 **The X-Ray and Optical Observation of Active Galactic Nuclei of 3C 111 and 3C 120 (B.Sc. thesis)**  
Mentor: Dr. Ritaban Chatterjee (Presidency University).

## Teaching experience

- Fall 2022 & 2023, Spring 2024 **Teaching assistant, ASTR 1010: Astronomy of the Solar System (Georgia State University)**  
Laboratory sections for the introductory astronomy course on solar system.
- Spring, Summer & Fall 2023 **Teaching assistant, ASTR 1020: Stellar and galactic Astronomy (Georgia State University)**  
Laboratory sections for the introductory course on stellar and galactic astronomy.

## Contributed Talk and Posters

- January 2024 Contributed Poster titled ‘A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015’.  
*243rd meeting of the American Astronomical Society*

- November 2023 Contributed talk titled ‘A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015’.  
*Georgia Regional Astronomy Meeting, 2023*
- February 2022 Contributed poster titled, ‘Contribution of Cosmological Cosmic Rays in Primordial Lithium problem’.  
*40th meeting of Astronomical Society of India*
- February 2022 Contributed talk titled ‘Relative Contribution of X-ray Reprocessing and Disk Variability in Long-term Optical Variability of 3C 111 and 3C 120’.  
*21st National Space Science Symposium of India*
- February 2021 Contributed poster titled, ‘Contribution of X-ray Reprocessing in the Longterm Optical Variability of Radio Galaxies 3C 120 and 3C 111’.  
*39th meeting of Astronomical Society of India*
- July 2019 Contributed talk titled, ‘Multiwavelength variability in the Radio Galaxy 3C 111’.  
*3rd Undergraduate Symposium of PRECISION, Best Talk*

## Workshops

- October 2024 Attended a virtual training workshop for the Green Bank Telescope organised by the Green Bank Observatory.
- January 2020 Attended workshop on reionization cosmology titled, “Observing the First Billion Years of the Universe”, organised by Indian Institute of Technology, Indore.

## Professional Memberships

### Member

American Astronomical Society

### Member

Cosmology and Astronomy Researchers of Indian Nationality and Sisters ([CARINAS](#))

### Co-organizer

[GalPal](#), a mentoring program for CARINAS.

## Outreach

- October 2024 Presented an outreach talk to 4th grade students at Addison elementary School, organised by [Georgia Outreach Team for Space](#).
- September 2024 Presented an outreach talk to 4th grade students at Wesley Academy, organised by [Georgia Outreach Team for Space](#).
- June 2024 Participated in a STEM outreach at Project Access summer camp, organised by [Georgia Outreach Team for Space](#).
- November 2023 Participated in a STEM night at Ashford Park Elementary School, organised by [Georgia Outreach Team for Space](#).
- April 2023 Presented a public talk as part of outreach at the: “At-home Planetarium Show”, organised by the [Charleston Planetarium society](#).
- February 2023 Participated in a STEM night at John Robert Lewis Elementary, organised by [Georgia Outreach Team for Space](#).

## Services

- Summer 2024 Panelist in the professional development panel titled “Life in Graduate School” for REU students organised by Department of Physics & Astronomy, Georgia State University
- Winter 2024 Graduate student member in the selection committee for faculty position in extragalactic astronomy, Department of Physics & Astronomy, Georgia State University
- Fall 2023 - 2020-2021 Co-President of Women in Physics, Georgia State University.
- 2018, 2019 Co-organiser and coordinator of webinar series “Alumni Lecture Series”, Department of Physics, Presidency University.
- 2018, 2019 Member of SOC & LOC of *Precision*, undergraduate research symposium at Presidency University, India.