

# Nabanita Das

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## 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  
CGPA: 9.05/10
- 2016 – 2019 **Presidency University** – Kolkata, West Bengal, India  
B.Sc. in Physics  
CGPA: 8.02/10

## Publications

- Astrophysical Journal*  
(under review) “**A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015**”  
**Nabanita Das**, Misty C. Bentz, Eugene Vasiliev, Monica Valluri, Christopher A. Onken, Sandra I. Raimundo, & Marianne Vestergaard.
- The Minor Planet Bulletin*  
2023 “**Broad-Band Photometric Monitoring of 2500 Alascattalo**”  
Misty C. Bentz, **Nabanita Das**, +15
- Astrophysical Journal*  
2020 “**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
- April 2021 – **Study of origin of short timescale variability in blazar Mrk 493**  
Nov 2021 Mentor: Dr. Ritaban Chatterjee
- September 2020 – **Contribution of Cosmological Cosmic Rays in the Primordial  $Li^6$  Problem (M.Sc. thesis)**  
June 2021 Mentor: Dr. Saumyadip Samui
- January 2019 – **The X-Ray and Optical Observation of Active Galactic Nuclei of 3C 111 and 3C 120 (B.Sc. thesis)**  
June 2019 Mentor: Dr. Ritaban Chatterjee

## Observing experience

- Spring 2025 51 hours (awarded 99) on the Green Bank Telescope for distance measurement to the nearby active galaxy MCG–06-30-15.

## Teaching experience

- Fall 2022-2024, Spring 2024-2025 **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.

## Talks and Posters

- May 2025 Contributed talk titled ‘A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015’ at the [56th DDA meeting](#)
- February 2025 Invited talk titled ‘A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015’ at the Lunch Seminar of [Green Bank Observatory](#)

January 2025	Invited talk on 'How to weigh a black hole?' for the <a href="#">Memorial University of Newfoundland astronomy club</a> (virtual)
November 2024	Contributed talk titled 'A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015'. <i>Georgia Regional Astronomy Meeting, 2024</i>
January 2024	Contributed Poster titled 'A Stellar Dynamical Mass for Bright Seyfert Galaxy MCG-06-30-015'. <i>243rd meeting of the American Astronomical Society</i>
February 2022	Contributed poster titled, 'Contribution of Cosmological Cosmic Rays in Primordial Lithium problem'. <i>40th meeting of Astronomical Society of India</i>
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'. <i>21st National Space Science Symposium of India</i>
February 2021	Contributed poster titled, 'Contribution of X-ray Reprocessing in the Longterm Optical Variability of Radio Galaxies 3C 120 and 3C 111'. <i>39th meeting of Astronomical Society of India</i>
July 2019	Contributed talk titled, 'Multiwavelength variability in the Radio Galaxy 3C 111'. <i>3rd Undergraduate Symposium of PRESISION, Best Talk</i>

## Workshops

October 2024	Attended a virtual training workshop for the Green Bank Telescope organized by the Green Bank Observatory.
January 2020	Attended workshop on reionization cosmology titled, "Observing the First Billion Years of the Universe", organized 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, organized by <a href="#">Georgia Outreach Team for Space</a> .
September 2024	Presented an outreach talk to 4th grade students at Wesley Academy, organized by <a href="#">Georgia Outreach Team for Space</a> .
June 2024	Participated in a STEM outreach at Project Access summer camp, organized by <a href="#">Georgia Outreach Team for Space</a> .
November 2023	Participated in a STEM night at Ashford Park Elementary School, organized by <a href="#">Georgia Outreach Team for Space</a> .
April 2023	Public talk at the: "At-home Planetarium Show", organized by the <a href="#">Charleston Planetarium society</a> (virtual).
February 2023	Participated in a STEM night at John Robert Lewis Elementary, organized by <a href="#">Georgia Outreach Team for Space</a> .

## Awards

Fall 2025	Travel Award from the graduate school, Georgia State University.
March 2025	1st place winner of the annual <b>Three Minute Thesis</b> competition at Georgia State University. Title: 'How to measure the mass of a black hole?'
Fall 2019	Kanak Prava Devi & Jyotish Ch. Chakraborty Memorial Fund, Presidency University <i>merit-cum-means scholarship for undergraduate resident students.</i>

## Services

Fall 2025 -	Graduate co-lead ambassador of <a href="#">GSU GOT space</a>
Summer 2024, 2025	Panelist in the professional development panel for REU students organized 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 - 2025	Co-President of Women in Physics, Georgia State University.
2020-2021	Co-organiser and coordinator of webinar series "Alumni Lecture Series", Department of Physics, Presidency University.
2018, 2019	Member of SOC & LOC of <i>Presision</i> , undergraduate research symposium at Presidency University, India.