

SAKSHI GUPTA

✉ sakshigupta13aug@gmail.com
☎ 9643744148

🌐 Sakshi Gupta

🐦 sakshi_g1997

ACADEMIC DETAILS

Venturing into the unknown as a Research Scholar at IISER Kolkata, India. Committed to continuous learning and professional development. I have two years of experience and my research interest includes exploring exo-planetary atmosphere and star-planet interactions.

Degree	Stream	School / College / Department	Board/ University	Year	%
M.sc	Physics	Department of Physics and astrophysics	University of Delhi	2019	68.6
B.sc	Physics Honours	Miranda House	University of Delhi	2017	91.38
12th	Maths	School for excellence, chhatarpur	Madhya Pradesh Board	2014	90.2
10th	NA	School for excellence, chhatarpur	Madhya Pradesh Board	2012	90.2

CONFERENCE PRESENTATION

• ORAL PRESENTATION

Sakshi Gupta, Arnab Basak and Dibyendu Nandy, Understanding the environments of Venus-like (exo)planets crafted by evolving stellar magnetic activity

Venus Science Conference 2022, September 29-30 2022, Physical Research Laboratory, Ahmedabad, India.

• POSTER PRESENTATION

Sakshi Gupta, Arnab Basak and Dibyendu Nandy, Impact of variable solar / stellar winds on (exo)planetary environments and atmospheric loss.

14th International School for Space Simulations, September 12 to 16, 2022, online.

Sakshi Gupta, Arnab Basak and Dibyendu Nandy, Investigating the star-planet interactions in a far-out planetary system.

40th meeting of The Astronomical Society of India, March 25-29, 2022 hosted jointly by IIT Roorkee and ARIES Nanital.

SCHOLASTIC ACHIEVEMENTS

- Presented poster at 40th Annual Meeting of the Astronomical Society of India (ASI) held during 25-29 March 2022.
- Secured All India Rank 38 in GATE Physics - 2020.
- CSIR-UGC NET (Physical Sciences) qualified for Junior Research Fellow (JRF) in Dec 2019 with All India Rank 73.
- Secured All India Rank 119 in JEST Physics - 2018
- Awarded by Chief Minister of Madhya Pradesh, India for being top rankers in Higher Secondary.
- Certified for Paper Presentation at National Conference on "Electrical Energy: Safety and Conservation" held at Swami Shradhanand college, DU.

TECHNICAL SKILLS

- **Programming:** C, C++, Python and Matlab
- **Visualization:** ParaView, VisIt
- **Design:** Photoshop
- **Operating System:** Microsoft Windows, Linux

- Completed Code/Astro 2021 course especially designed for software development of astronomers.
- Worked with IRAF (Image Reduction and Analysis Facility) and DS9 software for doing Aperture Photometry during Lab project.

Projects

- As a project student developed "Carbon NanoTube (CNT) Based Thermoelectric Generator" at DSKC for Research and Innovation in Science Education at Miranda House. (1st June - 30th July, 2015)
- "Astrophotography of a cluster using CCD camera" (CCD characteristics, Extinction Coefficient, and Magnitude of bright stars) in Observational Astronomy Lab as a part of Msc Course project.

Teaching Experience

- Teaching Assistant in the course titled - Introductory Astrophysics - offered by the Department of Physical Sciences, IISER Kolkata in the Autumn semester of the academic year 2022-23.
- Teaching Assistant in the course titled - Introductory Astrophysics - offered by the Department of Physical Sciences, IISER Kolkata in the Autumn semester of the academic year 2021-22.
- Teaching Assistant in the course - titled GTR and cosmology - offered by the Department of Physical Sciences, IISER Kolkata in the Fall semester of the academic year 2021-22.
- E-tutor as a Physics Expert in CHEGG.
- Lecturer cum Lab in charge in Takshashilla college chhatarpur, MP, India from August 2019 to March 2020.

Other Experience

- Organizing Committee member of 21st National Space Science Symposium (NSSS 2022) held during 31st January - 4th February 2022.
- Local Organizing Committee member of Machine Learning in Solar Physics and Space Weather workshop under SPARC project held during 28 June – 2 July 2022.
- Visiting student at National Centre for Radio Astronomy (NCRA) and Giant meter-wave Radio Telescope (GMRT) for a week and had wonderful experience there.
- Participated as student mentor and volunteer in the Inspire Internship Program 2015, held at Miranda House, University of Delhi.
- Completed Self Defense Workshop organized by Central Industrial Security Force (CISF), Delhi Metro Rail Corporation (DMRC) Unit and Miranda house, University of Delhi.
- Attended Combined Annual Training Camps (CATC) Camp as a part of National Cadet Corps (NCC) training.
- Certified by B and C certificates for NCC.

Personal Strength

- Strong Inter-personal - organization skills,
- Able to cope under pressure,
- Good communication skills,
- Can work independently or as a part of a team.

Hobbies

Swimming, Cooking, Reading Novels, Drawing, Playing Chess.