

SIYA BHAGAT

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E-1701, Ashok Gardens, TJ Road, Sewri, Mumbai-400015, INDIA

EDUCATION

Bombay International School (BIS), Mumbai, India
International Baccalaureate Diploma Program, Grade 12

Sep 2024 - Present

JB Petit High School (JBP), Mumbai, India

2015-2025

Indian Council of Secondary Education (ICSE), Grade 10

2024-2025

STANDARDIZED TESTS

Digital SAT: Total - 1560; Maths - 790; Reading & Writing - 770

ACADEMIC AWARDS AND HONORS

- ♦ Silver Honour (Top 10% of 12500 participants) at International Astronomy and Astrophysics Competition 2025
- ♦ IBDP Early Predicted Grade 45/45, Grade 11 - 40/42 2024-2025
- ♦ Certificates of Merit for being in Top 0.1% Nationally (1st in India in Maths and French), Grade 10, ICSE 2023-2024
- ♦ JB Petit, School Rank: 2/71; Overall ICSE Score: 98.5% 2023-2024
- ♦ JB Petit High School Award for Best Student(All Subjects), Grade 9, 10 2022-2024
- ♦ JB Petit High School Certificate of Academic Excellence for exceptional academic performance, Grade 9,10 2022-2024
- ♦ Times of India (Largest English-Language Daily newspaper in India) Student of the Year Award, Grade 9 Topper 2023
- ♦ Finalist, Elaine Hobson Literary Memorial Festival, International 2025
- ♦ Silver Award, Queen's Commonwealth Essay Contest, International 2024

PHYSICS AND SCIENCE EXPERIENCES & RESEARCH

UM-DAE Centre for Excellence in Basic Sciences / RAD@home

May 2025 - Present

Research under **Professor Ananda Hota, Assistant Professor** (UM: University of Mumbai & DAE: Dept. of Atomic Energy, Govt. of India)

- Research Project title: Searching for radio jet-galaxy interaction in the GMRT and VLA data (<https://tinyurl.com/fc5cpyx8>)
- Research Paper on **(I)** Episodic radio jet feedback in merging galaxies (in preparation) & **(II)** A new population of radio galaxies with signs of radio jet hitting the neighbouring galaxies (in preparation)(Co-Authors Prof. Ananda Hota, Pratik Dabhade, **Siya Bhagat** et. al.) to be submitted to the Monthly Notices of the Royal Astronomical Society, Oxford University Press, Impact Factor: 4.8
- Literature Review: A review on Jellyfish Galaxies (<https://tinyurl.com/3uf6r3u7>)
- Made world's 4th discovery of a twin radio galaxy, and discovered a unique type of jet-galaxy interaction

Discussions & Discourses

Indian Space Research Organisation (ISRO)

Sep 2024 - Present

ISRO is India's national space agency dedicated to harnessing space technology for national development through satellite communication, earth observation, navigation, and planetary exploration.

Discussed and analysed Heliophysics research papers with **Manish Chauhan, Scientist at Space Applications Centre (ISRO)**. Wrote reports and reviews regarding different aspects of Heliophysics

Discussions & analyses on the book (i) "*Quantum Theory*" by John Polkinghorne and (ii) Quantum Physics concepts

Jun 2025 - Present

Under guidance of **Dr. Rajan Gupta, Scientist, Los Alamos National Laboratory**

Independent Investigation- Supervised by Nandakumar Menon, School Physics teacher

Research involved investigating the relationship between the torque applied on a foosball handle & the time taken by a foosball ball to reach the goal. The relationship is investigated using primary research and deriving an original equation linking the two

INTERNSHIPS

Agnikul Cosmos, Chennai

Jun - Jul 2025

Agnikul is an IIT Madras incubated Space-tech start-up, and is a pioneer in the Indian Space-tech ecosystem, having constructed India's first private launchpad and developed the world's first single piece 3D printed rocket engine, made from Inconel, a high-performance superalloy.

- ♦ Prepared presentations and reports based on material properties and performed calculations for the optimum fuel requirements of different hypothetical missions
- ♦ Researched leak-proofing methods and structural integrity in launch vehicles
- ♦ Gained exposure to rocket and engine manufacturing processes, propulsion system design, and 3D printing techniques used in aerospace applications

COMMUNITY SERVICE & OUTREACH

Founded **The STEMInist**, an initiative aimed at bringing grassroots awareness on physics, specifically astrophysics, to girls across India, now also a monthly multi-lingual newsletter

2024 - Present

- ♦ Educator, Sevasadan, Yashyam and more(various schools / NGOs)
- ♦ The STEMInist newsletter, reaches out to 250+ Girls schools across India through physical post & email, aimed to encourage girls to consider pursuing STEM. It is available in Marathi, Gujarati, Hindi, and English.
- ♦ Conducted workshops, educated 100+ girls (10-14 years old) on astronomy and astrophysics, utilizing educational toys, art, and experiments sourced from IUCAA Observatory to demonstrate concepts like black holes and planetary motion

Founder, Chief Editor & Writer: **Lab Notes Science Magazine at BIS**

2024 - Present

- ◆ Conceptualized and launched a science magazine to make scientific concepts accessible & engaging for students and foster student interest in science. Now distributed across to 240+ students and teachers in Grades 6-12

PUBLICATIONS

Dare to Dream

2025

A nonfiction book highlighting revolutionary impact of various female scientists and mathematicians, aimed at generating interest in STEM amongst young girls and giving representation to these women who have largely been overshadowed by their male counterparts. Distributed 400+ copies of this book to underprivileged girls across various NGOs. Was invited by JB Petit to give a talk about this book to the entire 6th grade (75+ children). Being adapted as an audio-book by **KukuFM**, India's #1 Microdrama & Audio Stories Platform with 10Mn+ listeners

A Symphony of Words

2024

A magical realism story about a girl who stumbles into an old bookstore where the books can speak. Shortlisted as **Finalist** (under 25 category), Next Generation Indie Book Awards, International, 2025 (Largest International Award Program for Independent Authors)

WRITING PURSUITS

Paid Internship at YourStory

Jun - Sep 2025

YourStory is India's biggest media-tech platform. It has a global audience of approx. 10 million and receives approx. 120 million content views per month across its channels and properties.

- ◆ Conducted research on the Space-tech start-ups of India and leading companies within it
- ◆ Conducted interviews with the founders of start-ups like GalaxEye, Dhruva Space, Agnikul Cosmos and wrote articles based on the same, which were published at <https://yourstory.com/author/siyabhagat>

JBP School Magazine

2016-2023

Editor in Chief, 2023

- ◆ Directed a team of 11 people & managed the collection, editing, and writing of articles
- ◆ Conducted selection programs to choose editorial team
- ◆ Started as a Writer in Grade 3, gradually taking increasing responsibility: Co-Editor, Grade 8; Layout Helper, Grade 9; to Chief Editor

JOURNALISM CLUB PRESIDENT, JBP

2023-2024

- ◆ Led planning of sessions focused on informing students about international relations, the role of press, mock debates, article writing sessions, interviewing and editing abilities
- ◆ Mentored younger students on how to run sessions for journalism club. Grew and managed a dynamic community of 50+ members

SCHOOL LEADERSHIP POSITIONS

EPIPHANY PHILOSOPHY CLUB FOUNDER & PRESIDENT, BIS

2024 - Present

- ◆ Conducted sessions to engage students in different philosophical concepts, conveyed through an interactive and engaging lens, incl. designing activities, posters, and recruiting members
- ◆ These concepts included Ethics, Politics and Justice, Existentialism, Nihilism, Absurdism, Feminism, Cynicism, and more

SCHOOL PREFECT, JB Petit

2023

- ◆ Maintained discipline across school premises and monitored classrooms in teachers' absence

MODEL UNITED NATIONS

Head of Press, Bombay International School, BISMUN

2024-2025

- ◆ Selected through a competitive application process
- ◆ Introduced Press Crisis for the very first time at BISMUN giving participants a more engaging and holistic press experience

Editor & Director of Press, JBP

2023-2024

- ◆ Chaired debates, planned agenda, mentored students in press-related roles for MOCKMUN 2023 and JBMUN 2023, and JB Mock Model G20 2023, enhancing their writing and reporting skills;
- ◆ Edited and produced 7+ MUN newsletters, ensuring accuracy and relevance of event coverage
- ◆ Selected based on exceptional performance in previous Model United Nations (MUN) events and demonstrated leadership

Attended 10+ MUN conferences

2020-2025

- ◆ Was on the organising secretariat for JB Model G20 (modelled around India's Presidency of G20), the first event of its kind in India to be backed by the Government, held in collaboration with leading think tank "Gateway House"
- ◆ Chaired WG2 Trade & Investments Committee for JB Model G20

VOLUNTEERING

Co-founder, Veera

2025 - Present

- ◆ An initiative aimed at providing care packages to postpartum women in municipal hospitals

Volunteer, Welfare for Stray Dogs (WSD)

2014 - Present

- ◆ Organized and facilitated donation drives & dog treat-making sessions.
- ◆ Wrote for their social media handles, managed tasks like bathing and walking stray dogs, improving their well-being and adoptability

Citizen Volunteer, The Bai Sakarbai Dinshaw Petit Hospital for Animals

2014 - Present

- ◆ Helped rescue injured pigeons, small birds, cats and puppies over the years

SKILLS AND INTERESTS

Languages: English - Fluent, Hindi, Spanish, French - Basic Proficiency

Interests: Physics, Maths, Astronomy, Astrophysics, English Literature, Philosophy, Religious Studies