

Samaara Bhardwaj

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EDUCATION

The British School, New Delhi

2017 - Present

- **Grade 11** (IBDP): Biology HL, Economics HL, Math Applications and Interpretation HL, Hindi A SL, English Literature and Language SL, Chemistry SL
- **Grade 10** (IGCSE): Biology, Business, Economics, English FLE, English Lit, Hindi, Music, Geography, Math

Student, Yale Young Global Scholars Program

June 2024 - July 2024

- Participated in the “Innovations in Science and Technology” track at the 2 week-long YYGS
- Conducted research and delivered a Capstone Project presentation on the role of genetics in substance dependency and participated in seminars on skincare chemistry, diabetes treatment, brain myths, and telesurgery

STANDARDIZED TESTING

- **SAT:** 1530 (English: 730 | Math: 800)

December 2023

ACADEMIC HONORS AND AWARDS

- National Topper for IGCSE English Literature, India - Grade 10
- International Certificate of Education, Distinction - Grade 10
- Principal's Award for Academic Excellence - Semester 1 of Grades 9, 10, 11
- Director's Award for Academic Excellence - Semester 2 of Grades 9, 10, 11
- Subject Prizes in English Literature, Mathematics, and Geography - Grade 9
- High Achievement Certificates in English FLE, Hindi, Biology - Grade 9
- Subject Prizes in Math, Hindi, Biology, Business Studies, Economics, Geography - Grade 10
- High Achievement Certificates in Literature and English FLE - Grade 10
- Certificate of Merit in English A Language and Literature SL, Hindi A Literature SL, Economics HL, Biology HL, Theory of Knowledge, Chemistry SL, Mathematics Application and Interpretation HL - Grade 11
- Chemistry Avogadro Exam: Certificate of Distinction *April 2024*
- British Chemistry Olympiad: Bronze Award *March 2024*

LEADERSHIP

Founder and Leader, Chemistry Club, The British School, New Delhi

August 2023 - Present

- Founded and served as Leader of the Chemistry Club at The British School as a means of promoting student engagement with and understanding of Chemistry
Developed materials for and conducted session with members of the Chemistry Club aiming to complement school coursework. Bridged the gap between the students' theoretical knowledge and their practical laboratory skills.

Athlete and Team Captain, Soccer

2014 - Present

- Trained under Coach Deepak Dagar; participated in the Community League for 9 years
Selected as team captain at for the The British School Under-19 Girls' Team, in 2022

BIOLOGY EXPERIENCES AND RESEARCH

Research

Author, Mentored Research Project

September 2023 - February 2024

- Developed an original research paper under the mentorship of Dr. Pragya Verma (PhD, University of Texas, Dallas), examining the impact of natural compounds on the growth of cancer cells
- Conducted extensive laboratory research as part of an internship with Althea DRF Life Sciences reviewing existing academic literature on the subject, and engaged in mentoring sessions with Dr. Verma
- Authored an article summarizing findings from the paper; published in The Science Spectrum, the science magazine at The British School, New Delhi
- Assisted with Dr. Verma's ongoing research in the capacity of a Research Assistant from July 2024 onwards; conducted literature reviews, data analysis, and other assigned tasks

Patent

Inventor, Herbal Composition for Cancer

March 20

- Submitted an application to patent research to the United States Patent and Trademark Office

- U.S. Patent Application No.: 18/596,984
- Filing Date: March 6, 2024
- Inventor: Samaara Bhardwaj
- <https://patentimages.storage.googleapis.com/20/90/36/1d65e4408f01c6/US20240207348A1.pdf>

Courses and Summer Programs

Student, University College London India Summer School

June 2024

- Selected to participate in “Medical Sciences and Artificial Intelligence”, a course exploring the impact of artificial intelligence on the diagnosis and treatment of human diseases
Covered concepts such as the mechanics of AI and its applications in medicine, including diagnostics, treatment, and public health, and examined the ethical considerations of AI in the medical field

Student, Summer@Brown, Brown University

June - July 2023

- Completed “Breakthroughs: An Exploration of Laboratory Organisms in Biomedical Research”, a 2-week course on biomedical research; explored laboratory organisms' applications in biomedical research through theoretical studies and virtual laboratory tours

Internships

Intern, Althea DRF Life Sciences, Sahibabad Industrial Area, Uttar Pradesh, India

July 2023

- Completed an internship at Althea DRF Life Sciences' Preclinical Services Department under Dr. Ritu Verma, Dy. Director, Preclinical Operations and Strategy, Dabur Research Foundation
- Gained practical experience in pharmacological development processes and the drug development pipeline
- Shadowed and learned from senior scientists, actively participating in ongoing projects; assisted in laboratory experiments, data collection, and analysis
- Conducted original laboratory research on the impact of eight natural compounds on cancer cell growth; analyzed data from three separate experiments to determine the compounds' effects compared to untreated control cells

Competitions

- British Biology Olympiad: High Commendation *March 2024*
- UK Biology Competitions, Biology Challenge: Silver Medal *October 2022*
- Authored an essay on the subject of medical ethics for the Immerse Education Essay Writing Competition; awarded a 20% merit-based scholarship to participate in the Immerse Education Medicine Program *August 2022*
- Authored an essay for the Royal College of Science Union Challenge exploring public health strategies to address the emergence of pandemic diseases *April 2024*
- Authored an essay, responding to a prompt in the Health and Biotechnology category, on the advantages and disadvantages of Genetically Modified Organisms *January 2024*
- Authored an essay, responding to a prompt in the Psychology category, on the impact of mental factors on aging for the Northeastern University London Essay Writing Competition *December 2023*

PUBLIC HEALTH PURSUITS

Outreach

Founder, Swaastha Suraksha Abhiyaan (Health & Safety Mining Initiative), Belgaum *September 2023 - Present*

- Launched a comprehensive initiative to address the critical and often overlooked needs of coal mining workers in Belgaum, Maharashtra, significantly improving their health and safety conditions (www.swaasthasurakshaabhiyaan.org/)
- Successfully provided 458 employees to get health insurance, dramatically improving their financial security and access to medical care in a high-risk industry, through training and education seminars to the mining community
- Identified and addressed key health challenges in the mining sector like health & safety training through research & data collection; the findings were shared to the mining organizers & managers to help Swaastha Suraksha Abhiyaan to be executed effectively
- Organized and executed quarterly workshops tied to significant global health events like World Lung Day, World International Day for Mine Awareness; these workshops and informational brochures (both in English & Hindi)
- Managed a team of doctors to conduct free health check-up camps for over 550 mining workers and their families resulting in increased awareness and early detection of health issues among miners
- Recruited, trained, and managed a team of 5 Suraksha Warriors to champion health and safety awareness

Founder, **BodyWise** (<https://www.bodywiseindia.com/>)

May 2022 - Present

- Founded and spearheaded BodyWise, a healthcare advocacy initiative, aiming to improve individual and community health outcomes through the development and distribution of educational resources, and direct interventions in collaboration with non-profit organizations
- Created a 6-module BodyWise Curriculum, emphasizing mindfulness and proactive healthcare decisions
- Conducted interactive workshops in collaboration with Shades of Happiness, using the BodyWise curriculum
- Authored children's storybooks - BodyWise Story Series aimed at educating and broadening access to health
- Led a successful fundraising campaign, raising INR 60,000 for Shades of Happiness to purchase essential supplements (Vitamin C, Calcium, and Iron) for women (<https://milaap.org/fundraisers/support-women-at-shades-of-happiness-foundation>)
- Authored, designed, and published the "EveryBody Pamphlet Series", providing accessible information on communicable diseases prevalent in India in English and Hindi
- Launched the "EveryBody's Health Article Series", delivering insights into public health and epidemic diseases in India while combating misinformation and raising public awareness

Volunteer, **Savera Association (New Delhi)**

December 2022 - Present

- Volunteered at Savera Association, focused on healthcare, education, vocational training for marginalized communities. Fundraised activities, ensuring educational materials for underprivileged children during the pandemic
- Participated in healthcare initiatives, including organizing health camps and nutrition programs; contributed to raising awareness about critical health issues within underserved communities

Coursework

Student, **Imperial College London via Coursera**

December 2023 - January 2024

- Completed "Introduction to Statistics & Data Analysis in Public Health", an online course exploring the role of statistics and data analysis in public health

Student, **Center for Talented Youth, John Hopkins University**

July - August 2022

- Completed "Bioethics in the Age of Pandemics, 3 week course in the study of medical ethics in the backdrop of COVID-19. Explored dilemmas using real-world clinical ethics cases under the guidance of Mr. Charles Barclay

EXTRACURRICULAR ACTIVITIES

August 2022 - Present

Participant, **Academic Essay Writing Competitions**

January 2024

- Authored an essay exploring the utility of economic indices (such as GDP, HDI, and Gini) for the Harvard International Economics Essay Competition

Participant, **The Junior Academy, New York Academy of Sciences**

February 2024 - May 2024

- Selected as a member of the Junior Academy of the New York Academy of Sciences; participated in the "Wearables" Challenge from February to May 2024
- Developed a prototype for an imaging patch for targeted scanning, including ultrasound imaging for breast cancer detection; aimed to make diagnostic tools more accessible for the treatment of non-communicable diseases

Participant, **Academic Competitions**

June 2022 - Present

- Hong Kong International Mathematical Olympiad: Bronze Award June 2024
- Asia International Mathematical Olympiad: Merit Award May 2024
- Senior Mathematical Challenge, UK Maths Trust: Bronze Certificate March 2023
- Hong Kong International Mathematical Olympiad: Merit Award, Heats India Rank 18 June 2022

Contributor, **School Economics Newsletter**

April 2022 - Present

- Authored articles for the school Economics Newsletter on the impact of interest rates on the Indian economy etc.

Member, **School Mental Health Club**

April 2022 - Present

- Selected to be a member of the school Mental Health Club, dedicated to raising awareness about teenage mental health. Assisted with the ideation, editing, and publishing of the Mental Health Newsletter; contributed an original article on the subject of 'burnout', exploring the mental health impacts of exhaustion

Musician, **Drums**

2019 - Present

- Trained in playing the drums, mastering playback, improvisation, individual interpretation, currently preparing for Grade 6 Trinity Examination

SKILLS

Languages: English (fluent), Hindi (fluent) | **Computer:** Microsoft Office, Mac OS, other