

EDUCATION

Overseas Family School, Singapore 2022 – Present
-- International Baccalaureate Diploma Program, Grade 11/12
-- Cambridge IGCSE Board, Grade 10

DPS International Edge School, Gurgaon, India; 2014-2021
-- MYP (Grade 6-9) 2019-2021
-- PYP (Grade 2-5) 2014-2018

STANDARDIZED TESTS AND APs

• SAT Digital Test: Total – 1550/1600 (1st Attempt) in Dec 2023 2023

ACADEMIC HONORS AND AWARDS

• Principal's Award for academic excellence in Grade 11 2023-2024
• Top 1 % of the grade in High Level (HL) subjects. Amongst the Top 10 students in a class of 180 in Grade 11
• Ranked amongst Top 3 students in Maths AA HL and Physics HL in Grade 11
• Academic Merit Certificate for consistently high academic performance in Economics, Maths AA, Physics & Biology in Grade 11
• Grade 10: School Topper in Mathematics (A*), Additional Mathematics(A*) and Coordinated Sciences (A*) 2022-2023
• Topped in School (class of 100+) in Extended Mathematics, Additional Maths & Coordinated Sciences in IGCSE Board 2022-2023
• Grade IX: Roll of Honor student ranked amongst top 3 in a class of 80 in 2021-2022
• School Level Gold Medalist (3) in National Maths and Gold (1) and Silver Medalist (2) in Science Olympiads 2017-2021
• International Rank, amongst Top 50 in Maths Olympiads (3) and Top 100 (3) in Science Olympiad 2017-2021

EXTERNAL COMPETITIONS AND REWARDS

• UKMT Senior Level (2023), Gold Medal Grade 11 2023
• UKMT Intermediate Level (2022), Gold Medal, Grade 10 2022
• SASMO (Singapore and Asian schools Math Olympiad): Bronze Medal 2020
• Creative Writing and Debate, World Scholars Cup, Philippines: Bronze Medal 2019

BIOLOGICAL SCIENCES RESEARCH AND EXPERIENCES

Research: Jun-Aug 2024
BluMaiden Biosciences, Singapore ([BluMaiden](#)).
Biotech Company, in Drug Discovery and Development, leveraging AI-powered computational genetics & chemistry engines to illuminate new frontiers for new medicines. The company provides services like Microbiome solutions including DNA Analysis in the field of Precision medicine

Summer Intern under Dr. Zhao Peng, Head of the Clinical Research and Business development from 03-Jul-24 to 08-Aug -24: 50 hrs.

- Understood the nuances of Drug discovery and Development process, phases of clinical trials (Phase I-IV)
- Understood pre-clinical development including candidate selection and lead optimization
- Learnt about the challenges with Preclinical and clinical development phases and explored potential solutions to accelerate the drug development process, for faster regulatory approval and to market approval
- Conducted a literature review on the challenges with clinical development and how adaptive trial designs and precision medicine can accelerate the same for faster drug approval.
- Wrote a Review Article entitled, “Drug Development in the Era of Artificial Intelligence: Very Near Yet Too Far”
- The research paper is being submitted for publication to various international journal of High school Research

Medanta -The Medicity Hospital, Gurgaon, Haryana, India (www.medanta.org)

One of North India's largest Multispeciality tertiary care hospitals, with an ecosystem for medical excellence and state of art facilities
Independent Research Intern under Dr. Aditya Aggarwal, Head of Plastic surgery in collaboration with Department of Biomedical Sciences (2 weeks 15-Jul-24 to 01-Aug-24: 40 hrs.)

- Learnt the use of Biomedical technology like 3D Printers, Cautery Machine, MRI scanner, X-Ray machine and Dexa scan for improving the treatment outcomes of subjects undergoing plastic surgery by enhancing precision and increasing predictability of the outcome
- Gained 1st hand experience on the technology behind computer assisted designing (CAD)

Exobot Dynamics, Delhi, India ([Exobot - Future of Bionic Limbs](#))

Startup organization working on Indian's 1st Bionic Prosthesis for amputated limbs, in collaboration with Dept of Biotechnology, IIT Delhi

Observership under Mr. Munish Sharma, CEO and founder of Exobot to understand the technology behind the Bionic limbs and various considerations including patient's perspective in designing the same

- Learnt about the Biomimetic Design of the prosthesis, advanced sensors to measure Muscle activity, Microprocessors and Control Systems which translate user intent to motor commands.

ONLINE COURSES

- **Biomedical Engineering Innovation', John's Hopkins University, USA:** 6 weeks (24th June to 02nd August 2024), Final grade A (95%)
 - Wrote a research paper on **Advancements in upper body prosthetic limb technology providing effective solutions for medical amputations for the young population**
- **Biomedical Engineering' (Solving the Body's Challenges with Technology, University of Rochester, USA:** 3 weeks (January '24)
- **Artificial Intelligence Scholar, by Inspirit AI (AI and ML),** 4 weeks (July 2023)
- **SPARK (Student Program for advancing research and Knowledge) by APAR health:** 2 weeks (15th Jun to 30th Jun 2024): Health Research and Ethical Principles, Observational studies Vs. interventional studies Research methodology, Literature review and research publishing)
- **Biology IA (IBDP2):** Effect of concentration of Vitamin C powder on the rate of corrosion of Tooth Enamel
- **Physics IA (IBDP2):** Investigation on the effect of height from which a sphere & cylinder are released, on the final velocity of the object
- **Mathematics IA (IBDP2):** Deriving the Cycloid curve and proving that the time taken along the curve is the least
- **White Hat Junior Silicon Valley Diploma Program in coding:** Code of Honor (2020-2022)
- **White Hat Junior – GAME DEVELOPER-UI/UX INTERFACE:** Exceptional Skills and Outcomes certificate (2020)

Independent Research Review Articles: 2024: Submitted to Journal of Student Research (JSR)

- “Advancements in upper body prosthetic limb technology providing effective solutions for medical amputations for the young population”
- “Drug Development in the Era of Artificial Intelligence: Very Near Yet Too Far”

LEADERSHIP INITIATIVES

- **Leader, Peer Tutoring Club,** Overseas Family School from Grade 11-12: The Club aims at guiding and Tutoring students from Grade 9 to11 in various subjects, to improve their school grades. 2023-2024
I was the Peer Tutor for Science (Biology and Physics), Maths and Economics.
 - Received the **most promising tutor award** for 2022-2023
- **Chair of Advanced Mathematics Club (CAS project)** which aims at preparing students of grade 9/10 /11 for external 2023-2024 Competitive exams. Introduced the Puzzle of the week over 6 months to generate interest in the club

SPORTS ACHIEVEMENTS

- Part of **School Badminton Team, U-19:** Represented School in various interschool competitions. 2022- 2024
- **Bronze Medal** in ACSIS League (Association of Singapore International Schools) 2022-23
- **Sports commitment award** in Badminton, Grade 10 2022/2023
- Most improved player award, Grade 10 2022-2023
- **School Football Team** at DPS International Edge, Grade VI to Grade IX 2018-2021
- Played Soccer at state level in India 2018-2019
 - Football Tournament – small side (Interstate competition, represented Haryana State, India): 2021

COMMUNITY OUTREACH

- Completed 140 hours of Community Action and Service experiences at Overseas Family School, Singapore
- **Community service in Cambodia** – impart English education to students from lower income families in rural village of Cambodia, building a makeshift school for the children as part of sustainability drive: 7days (29th May to 04th June 2024)
- Active member of **the Pasir Ris Beach Cleaning Club** which aims as reducing Water pollution in the sea by keeping the beaches clean and trash free. Volunteered 1 Hrs per week since Jan 2024 till May 2024
- Organised **Gratitude Fund Collection Drive** in the Neighbourhood, in support of COVID 19 patients, in 2021
- **Taught Elementary Computers** to underprivileged Students at an NGO for slum children, in Gurgaon, India in 2021
- Led a **public awareness campaign on antimicrobial resistance** and what we can do to control it. This campaign highlighted the significant threat to health of current and future generations due to overuse, misuse and abuse of antibiotics. Through this campaign, I highlighted the myths around use of antibiotics. This was targeted towards a community of 800+ residents in Singapore and was supported by medical experts from biopharma industry and a community healthcare physician in September 2024.

INTERESTS and HOBBIES

- Member of the Astrophysics Club in Grade 10-12 2024
- Music (Acoustics Guitar Club) 2022-2023
- Soccer and e-sport
- Badminton

LANGUAGES

- Fluent in English, Spanish, and Hindi
- Studied Spanish as a subject from Grade 5 till Grade 12, Phase 3 in Grade 9-12 2017-2025