

Naman Jain

School Captain, The International School Bangalore (TISB)
Driving Academic Excellence and Social Impact through Mathematics Education

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Education

Aug 2023 - Present

■ **IB Diploma (Grade 11 and Grade 12)**
The International School Bangalore (TISB), Bangalore
HL: Physics, Chemistry, Mathematics AA
SL: Economics, English A: Language and Literature, French B
Senior Year First Quarter Grades: 42/42

Jul 2021 - Jun 2023

■ **Cambridge IGCSE (Grade 10)**
The International School Bangalore (TISB), Bangalore
Additional Mathematics, Physics, Chemistry, Biology, History, First Language English, English Literature, French, Economics. **Score: All 9 A***

■ **Standardized Test Scores**
SAT (Oct 2023) : 1580/1600
PSAT 8/9 : 1430/1440; PSAT NMSQT : 1510/1520
AP Computer Science A - Score 5 (May 2022 - Grade 9)

Awards

USA Math Olympiads (2022-24)

- **AMC 12** : India Rank 1 (Score 136.5)
- **USAJMO**: Honorable Mention (Score 14)
- **AIME**: Score 11
- **AMC 10**: Distinguished Honor Roll (Top 1%)

Indian Math Olympiads (2023-24):

- Cleared IOQM & RMO
- **INMO Qualifier (INMO Score 51- Cutoff for Indian Math Olympiad Team Camp - 52)**
- Attended Karnataka INMO training camp

Canadian Intermediate Mathematics Contests (CIMC) 2022-23:

- Perfect score - **International Rank 1**

Infinity 2023 (Hosted by Aditya Birla, BITS Pilani and UWaterloo)

- Winner - '**Mathematician of the Year**'
- 2200 students from 100 schools across Asia Participated

Other Achievements

School Captain, The International School Bangalore (TISB)

- Lead 30 member student council to guide 1000+ students
- Liaison & handle issues between students & Management
- Introduced Mental Health & Anti-bullying sessions
- Launched Prefect Newsletter & weekly lunch to connect with students

Chief Organizer, VIVUM'24

- India's largest student led charitable fest (sports & cultural)
- Led team of 150 students (20 depts) to coordinate fundraising, logistics, communications etc
- Raised \$100K in revenue from sponsors like Microsoft & Puma, merchandise sales, vendor commissions etc
- Proceeds donated to charities promoting accessible healthcare in India
- Introduced Digital QR Code Registration System for 9K+ participants,

ensuring sustainable resource usage

World Science Scholar 2023:

- Selected as part of cohort of 52 students from 22 countries
- Advanced multidisciplinary courses taught by Nobel Laureates and famous professors
- Year round online courses applying mathematical concepts to fields like Computer Science, Physics and Medicine
- Collaborated with global peers on a tech entrepreneurial project under the guidance of Prof. Christina Pellicane, Princeton University
- Received insights on business & technical aspects from Kamran Ansari, founder of FluxWear.

Pramerica Life Insurance Emerging Visionaries Awards:

- Silver Medallion for social initiative 'PiPlus Foundation'
- Among top 25 finalists from 2200+ applicants from India
- Selected for exemplary merit and potential impact

Advanced Courses

Jul 2023

Canada/USA Math Camp

- Studied diverse undergraduate and graduate level Math courses like Topology, Cryptography, Linear Algebra, Graph Theory etc.
- Led group project on Multiplayer Combinatorial Games eg Hackenbush

Jul 2022

Awesome Math Summer Program

- Completed Level 2 Courses in Algebra, Geometry and Combinatorics

Art of Problem Solving (AoPS)

- Completed All Introductory & Intermediate Courses on Algebra, Number Theory, Geometry and Counting & Probability

Research

Research Paper

- Research Advisor: Dr Samir Datta, Professor of Computer Science, Chennai Mathematical Institute, India
- Developed new logarithmic-time parallel graph drawing algorithm using Complexity Theory & Graph Theory Methods
- Authored paper titled 'Parallel Graph Drawing Algorithm for Bipartite Planar Graphs'.
- Published on arXiv: <https://arxiv.org/pdf/2409.15400>

Research Internship

- 6 week research internship under Dr Sunil Chandran, Professor of Computer Science and Automation at Indian Institute of Science.
- Worked on bounding the boxicity of divisor graphs.
- Used Pigeonhole Principle to derive results on lower bound of boxicity of divisor graphs with upto 4 separate prime divisors

Clubs and Activities

Aug 2022 - Present

Co-Founder Competitive Math Club, TISB

- Developed & taught AMC/AIME curriculum
- Successfully fostered interest and passion for competitive mathematics within the school community, 30% increase in student participation in olympiads over 3 years
- Led inter-house mathematics competitions to promote engagement and excellence within the school

Mar 2024

■ **Chief Organizer: Pi-Thon - Interschool Math Competition**

- Envisioned and Organised TISB's First Inter-School Math Competition, drawing 270 participants representing 15 schools from across the state
- Led 20-member team in managing all aspects of event organization, including finance, media, communications, logistics, and problem-writing.
- Secured sponsorships totaling ~\$2,000 in cash, advanced coaching, and other incentives.
- Ensured the competition questions and format met national competition standards, enhancing the event's prestige and impact.

Aug 2021 - Present

■ **Captain Badminton School Team, TISB**

- Led school team in ~15 regional level tournaments, winning 5
- Developed strategies and mentored team-mates.
- Reduced injury rates & optimized performance via proper warm-up & cool-down routines

Social Impact Projects

Founder - PiPlus Foundation: Driving creative and equitable math education in government schools

- Signed Memorandum of Understanding (MoU) with Department of School Education & Literacy, Karnataka Government to expand the projects in government schools across Bangalore.
- Lead & Mentor 8 dedicated volunteers
- Consists of two impactful projects: GanitKala and GanitUtsav.

GanitKala: Using creative and innovative pedagogies like origami and magnetic tangrams to teach mathematical concepts to students.

- Successfully conducted 8 math camps at different government schools
- Impacted over 800 students

GanitUtsav: Designed inter school math competition for government school students to identify and develop talented math students.

- 10 government schools with 1700 students participated
- Secured funding of Rs 162,000 from charitable trusts and Vedantu, one of India's largest ed-tech platforms, to sponsor scholarships and prizes for students.

Developer - 'Getyourmed':

- Developed platform with a teammate to share medical appliances within a community during the COVID-19 pandemic.
- Created a Python and flask-based website to enable efficient sharing
- Devices like BP monitors, canes, crutches, splints and slings were widely shared among communities through the platform