

Navjot Singh Grewal

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Overview

Undergraduate at the University of Washington, Seattle, with a passion for pure mathematics, particularly number theory, analysis, and topology. Alongside my academic pursuits, I am dedicated to fostering a culture of mathematical learning through impactful initiatives, such as founding the Bishop's Mathematical Society and participating in global programmes like PROMYS India. These experiences have honed my leadership, collaboration, and research skills.

Fluent in English, Punjabi, Hindi, and Urdu, and proficient in French and Marathi, I integrate my mathematical pursuits with a deep interest in Language learning and South Asian Languages. With a strong academic foundation and a passion for research, I aim to make meaningful contributions to the field of mathematics.

Education

University Of Washington, BS in Mathematics (Intended) **Sept 2024 – May 2028**

- Achieved a cumulative GPA of **3.94/4.00**, earning a place on the Dean's List for Autumn 2024.
- **Coursework:**
 - **Calculus and Analytic Geometry II (MATH 125):** Advanced understanding of integral calculus, **GPA 3.8**
 - **Introduction to Logic (PHIL 120):** Studied formal logic and critical reasoning, **GPA 4.0**
 - **Elementary Urdu (URDU 101):** Developed proficiency in reading, writing, and speaking Urdu, **GPA 4.0**
 - **Greek and Roman Sculpture (CL AR 444):** Explored art and architecture, **GPA 4.0**

The Bishop's School, Camp **June 2017 – June 2024**

- Achieved an **89%** score in the ISC Class XII examination (March 2024), with a top performance in mathematics (**98%**).
- Excelled in mathematics, ranking as the top performer in the subject.
- Founded the Bishop's Mathematical Society, fostering advanced mathematical exploration.
- Balance academic rigour with leadership, preparation for future academic challenges, and participation in community outreach.

Experience

Community Service Coordinator, Tayyabia Orphanage, Pune **June 2022 – June 2024**

- **Led weekly academic sessions** for children at various orphanages and engaged them in social development activities like board games
- **Provided mentorship and career guidance**, helping children explore future opportunities.
- **Managed teams of volunteers**, organizing schedules and fostering collaboration for effective community service.
- **Developed project management and leadership skills**, overseeing educational and recreational activities.

Editor, Curiosity Cave Blog **Feb 2023 – June 2024**

- **Edited STEM project content**, focusing on topics such as submarines, spectrometers, and RC planes.
- **Collaborated remotely with a team** to ensure accurate and clear technical explanations.
- **Enhanced writing and editing skills**, maintaining precision while improving readability.

Student, Program in Mathematics for Young Scientists (PROMYS) 2023

May 2023 – June 2023

- **Attended advanced lectures on Number Theory** by Professor Ila Varma
- **Participated in first-year exploration labs**, exploring topics such as Euler's formula and Pick's Theorem through hands-on problem solving.
- **Recipient of the Tara and Jasubhai Mehta Fellowship 2023**, recognizing academic excellence and potential in mathematics.
- **Produced an expository article** on Pick's formula and Euler's Theorem, showcasing the ability to communicate complex mathematical ideas effectively.

Intern, Phi Robotics Research

Oct 2022 – Dec 2022

- Assisted in the development of robotics products, contributing to design and project execution.
- Gained hands-on experience, supporting project management to ensure timely progress and task completion.
- Developed practical problem-solving skills in a real-world technical environment.

Organizations

Founder and President, Students For Mathematics Foundation

March 2021 - June 2024

- **Founded and led** the Students for Mathematics Foundation, focusing on fostering a love for mathematics and STEM in local communities.
- **Spearheaded strategic planning and fundraising efforts**, significantly expanding the foundation's outreach and visibility.
- **Organised and led interactive sessions at local orphanages**, inspiring children to explore mathematics and develop critical thinking skills.
- **Developed strong leadership and organizational skills**, managing operations and guiding the foundation's growth and impact in the community.

Founder and Club Leader, The Bishop's Mathematical Society

March 2022 - March 2024

- **Founded The Bishop's Mathematical Society** to provide advanced mathematics exposure beyond the standard curriculum, starting on Pi Day 2022.
- **Organized and led about 15 biweekly meetings** per year covering topics from mathematical logic to combinatorics, with handouts created to challenge and develop members' analytical and proof-writing skills.
- **Planned and led "Mini-courses"** on the history of mathematics and influential mathematicians, alongside special events like guest lectures and maths competitions.
- **Extended outreach through charitable initiatives**, organising two Meets at a local orphanage to inspire a love for mathematics in underprivileged children.

Skills

Mathematics & Research

- Proficient in advanced topics such as Number Theory, Real Analysis, and Topology.
- Experienced in mathematical research, including exploration labs and writing expository articles.

Programming & Technology

- Familiar with Java, \LaTeX , and mathematical software ((Mathematica, MATLAB).

Languages

- Fluent in English, Punjabi, Hindi, and Urdu. Proficient in French and Marathi.