

Navjot Singh Grewal

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Overview

Applied Mathematics undergraduate at the University of Washington, Seattle, graduating in Spring 2027. My academic focus is applied and computational mathematics, including differential equations, numerical linear algebra, scientific computing, and mathematical modeling, with a strong theoretical foundation from proof-based coursework.

I have research-oriented training through PROMYS India and advanced problem-based coursework, alongside leadership experience in mathematics outreach. My interests lie in applied mathematical research, modeling-driven problem solving, and quantitative analysis.

Education

University of Washington, Seattle, BS in Applied Mathematics

Sept 2024 – June 2027

- Maintaining a cumulative GPA of 3.74/4.00 in a rigorous applied mathematics curriculum.
- Dean's List recipient across multiple quarters, including the 2024–2025 academic year.
- Completed core coursework in calculus, linear algebra, differential equations, and mathematical reasoning, with progression into analysis and applied modelling.
- Applied mathematics coursework in scientific computing, numerical linear algebra, mathematical modelling, partial differential equations, and dynamical systems.

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.
- Balanced academic rigour with leadership, prepared for future academic challenges, and participated 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

- **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 and testing of robotics products, contributing to design iteration and implementation.
- Supported project execution by coordinating tasks, tracking progress, and assisting with documentation.
- Applied structured problem-solving to practical engineering challenges in a technical development 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.

Awards & Honors

- **First Prize**, Christ College Intercollegiate Mathematics Quiz.
- **IOQM Certificate of Merit**, Indian Olympiad Qualifier in Mathematics.
- **Qualified PRMO** (Pre-Regional Mathematics Olympiad), India.
- **Second Prize**, IISER Science Fair, for interdisciplinary scientific presentation.

Skills

Programming & Computing

- Python, MATLAB, C++, Java.
- Scientific computing and numerical methods; experience with L^AT_EX.
- Familiarity with mathematical software including Mathematica.

Languages

- English, Punjabi, Hindi, Urdu (fluent).
- French and Marathi (working proficiency).