Moeez Muhammad

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Education

B.Sc, Honours Mathematics   **2022-2025 (expected)**

McGill University

Courses: Group, Ring, and Module Theory; Probability; Graph Theory; Algorithms and Data Structures; Graduate Combinatorics; Real Analysis; Measure and Integration Theory; Theory of Computation; Complex Analysis; Classical Mechanics

- Workshop director for competitive programming club
- Wrote official lecture notes on "Disjoint-Set Union" for Algorithms class

Contests, Awards, and Test Scores

- **1st place** at McGill CodeJam 2023
- **Summer Undergraduate Research Award (McGill)** (Summer 2023, ~$7000)
- **Feng Qian Award (McGill)** for computer science (~$3500)
- **Top 4** at NENA ICPC, qualifying for the 2023 North American Championship alongside MIT, Harvard, and Brown
- **1st place** at NPCompete 2022, McGill's programming competition
- **SAT**: 1590 (800 Reading/Writing, 790 Math)
- **Google Computer Science Research Mentorship Program** (Fall/Winter 2022)
- **9/120** on **Putnam** (2022)

Experience

Summer Undergraduate Research Project   **Summer 2023**

- Worked on project on **rigorous fixed-point finding of partial differential equations** with Prof. Jean-Philippe Lessard at McGill, alongside a team at Rutgers University
- **Developed simple and novel techniques** for rigorous computing, and implemented in **MATLAB**
- Topics researched spanned computational algebraic geometry, linear algebra and optimization, and combinatorial and computational geometry
- Gave **presentations every week** to research group on progress
- Read graduate-level textbooks and research papers

Research Assistant at UofT   **2022-2023**

- Worked part-time doing data-science work for the Perlman Lab at OISE (data cleaning, basic script writing, etc.)
- Gained familiarity with Python, Pandas, and SSH

Skills

Mathematics, Competitive Programming and Algorithms, C++, MATLAB, Python, Pandas, Linux and Bash, LaTeX and Tikz