Brayden Letwin

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Education

University of Alberta, Edmonton, AB	2021 - 2026
Bachelor of Science Honors in Mathematics.	GPA: 3.9/4.0

Professional Experience

Teaching Assistant, University of Alberta, Edmonton, AB   Jan. 2023 - Present
Currently have worked 3 semesters as a teaching assistant. Worked under Dr. Osmar Zaiane, Dr. Hazel Campbell, and now Rejwana Haque (CMPUT 175) and Saeed Rastgoo (MATH 144).

Research Assistant, University of Alberta, Edmonton, AB   Jan. 2023 - Aug. 2023
Conducted research in Convex Geometry. Role involved solving problems in Convex Geometry under the supervision of Dr. Vlad. Yaskin. Outside of solving problems, time was spent learning Fourier analysis and its applications to convex geometry. We produced one academic paper and explored numerous open problems.

Academic Papers

ON A GENERALIZATION OF GRÜNBAUM'S INEQUALITY
AND A VOLUME BOUND FOR SECTIONS OF CONVEX BODIES
Joint work with Vlad. Yaskin   pdf

Projects

Algorithmic Trading System	**May 2023 - Present**
Project Leader | Trading equities using models from Mathematical Finance	

Skills

Programming Languages: Python, C++, (Planning to learn Mojo when released).
Mathematics: Analysis and Geometry. (Currently learning Stochastic Analysis).
Machine Learning: Reinforcement Learning and Supervised Learning.

Activities

Competitive Programming Club, University of Alberta	**May 2023 - Present**
Member | Learning under the supervision of Dr. Zachary Friggstad	
50+ problems solved | open.kattis.com	

Honors and Awards

Murray Thomas Gibson Memorial Scholarship in Mathematics	2023
Dean's Honor Roll, University of Alberta	2023
NSERC Undergraduate Student Research Award	2023
Max Wyman Memorial Entrance Leadership Scholarship	2021
Alexander Rutherford Scholarship	2021