

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
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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

AN AFFINE GENERALIZATION OF GRÜNBAUM'S INEQUALITY	
Joint work with Vlad. Yaskin	pdf

Projects

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

Skills

Programming Languages: Python, C++, (Currently learning Mojo).
Mathematics: Analysis and Geometry. (Currently learning Fourier Analysis).
Machine Learning: Reinforcement Learning and Supervised Learning.

Activities

Competitive Programming Club, University of Alberta	May 2023 - Present
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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