

# Brayden Letwin

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## Education

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

## Professional Experience

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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

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ON A GENERALIZATION OF GRÜNBAUM'S INEQUALITY  
AND A VOLUME BOUND FOR SECTIONS OF CONVEX BODIES

Joint work with Vlad. Yaskin pdf

## Projects

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

## Skills

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

## Activities

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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

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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