

Curriculum Vitae

Brayden Letwin

Personal Information

- Address: 4015 Summerland Drive, Sherwood Park, Alberta T8H 0K4.
- E-mail: bletwin@ualberta.ca.
- Web-site: <https://braydenletwin.com>.

Research Interests

Asymptotic Geometric Analysis, Harmonic Analysis, Random Matrices, Linear Programming and Integer Programming, Computational Geometry.

Education

- **BSc in Mathematics** (Honors), University of Alberta, Edmonton, AB, Canada (September 2021 - Present).

Teaching Experience

- **Teaching Assistant**, Department of Mathematics, University of Alberta, Edmonton, AB, Canada.
 - **Fall 2024**: MATH 216 (Introduction to Analysis).
 - **Winter 2024**: MATH 146 (Calculus for the Mathematical and Physical Sciences II).
 - **Winter 2024**: MATH 144 (Calculus for the Mathematical and Physical Sciences I).
 - **Fall 2023**: MATH 144 (Calculus for the Mathematical and Physical Sciences I).
- **Teaching Assistant**, Department of Computer Science, University of Alberta, Edmonton, AB, Canada.
 - **Fall 2024**: CMPUT 304 (Algorithms II).
 - **Spring 2024**: CMPUT 175 (Introduction to the Foundations of Computation II).
 - **Winter 2024**: CMPUT 175 (Introduction to the Foundations of Computation II).
 - **Fall 2023**: CMPUT 175 (Introduction to the Foundations of Computation II).
 - **Spring 2023**: CMPUT 175 (Introduction to the Foundations of Computation II).
 - **Winter 2023**: CMPUT 175 (Introduction to the Foundations of Computation II).

Scholarships and Awards

- Cyril G Wates Memorial Scholarship, University of Alberta, 2024.
- NSERC Undergraduate Student Research Award, University of Alberta, 2024.
- Jason Lang Scholarship, University of Alberta, 2023.
- Murray Thomas Gibson Memorial Scholarship in Mathematics, University of Alberta, 2023.
- Dean's Honor Roll, University of Alberta, 2023.
- NSERC Undergraduate Student Research Award, University of Alberta, 2023.
- Max Wyman Memorial Entrance Leadership Scholarship, University of Alberta, 2021.
- Alexander Rutherford Scholarship, University of Alberta, 2021.

Publications

- B. Letwin and V. Yaskin: *On a generalization of Grünbaum's inequality*, submitted, arXiv:2410.04741.

Talks at Conferences and Other Presentations

- **May 2024:** Presentation for a research course in computational geometry (supervised by Zachary Friggstad), University of Alberta, Edmonton, AB, Canada.
Talk: *On a 4-approximation algorithm for the weak chromatic rectilinear art-gallery problem using sesquipowers.*
- **December 2023:** Geometric Functional Analysis: Analytic, Discrete, and Probabilistic Aspects, CMS Winter Meeting, Montreal, QC, Canada.
Talk: *On a generalization of Grünbaum's inequality.*

Other Conferences Attended

- **November 2023:** Harmonic Analysis and Convexity, Banff International Research Station, Banff, AB, Canada.

Academic Service and Volunteer Work

- **July 2024:** CMS Alberta Summer Mathematics Camp, University of Alberta, Edmonton, AB, Canada.
Lead coordinator.
- **2024-2025:** Undergraduate Mathematical Sciences Society, University of Alberta, Edmonton, AB, Canada.
Executive.
- **2022-2023:** Undergraduate Mathematical Sciences Society, University of Alberta, Edmonton, AB, Canada.
Executive.

Last updated: October 20, 2024