

Education

- 2027 (expected) **Ph.D. Mathematics**, University of Chicago
Advisor: Benson Farb
- 2022 **M.S. Mathematics**, University of Chicago
(awarded en route to Ph.D.)
- 2020 **B.Sc. Combined Honours Mathematics and Computer Science**, University of British Columbia

Publications and Preprints

- 2026 **The complex projective plane as a ball quotient**
Preprint, submitted for publication. ARXIV: [2607.18710](https://arxiv.org/abs/2607.18710).
- 2024 **Smallest nonabelian quotients of surface braid groups**
Algebraic and Geometric Topology 24(7). DOI: [10.2140/agt.2024.24.3997](https://doi.org/10.2140/agt.2024.24.3997). ARXIV: [2301.01872](https://arxiv.org/abs/2301.01872).
- 2022 **Spaces of generators for endomorphism algebras with involution** (with Ben Williams and Taeuk Nam)
Linear and Multilinear Algebra 71(8). DOI: [10.1080/03081087.2022.2063244](https://doi.org/10.1080/03081087.2022.2063244). ARXIV: [1912.03027](https://arxiv.org/abs/1912.03027).
(undergrad project)

Awards and Honours

- 2020 **Fulbright Student Award**, Fulbright Canada
(declined due to location constraints)
- 2020 **McCormick Fellowship**, University of Chicago
- 2020 **G.C. Webber Memorial Prize in Mathematics**, University of British Columbia
- 2017, 2018, 2019 **Undergraduate Student Research Award**, Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2018, 2019 **Stanley M. Grant Scholarship in Mathematics**, University of British Columbia
- 2017, 2019 **Trek Excellence Award for Continuing Students**, University of British Columbia

Invited Talks

- Jun 2023 **Small quotients of surface braid groups**, Nearly Carbon Neutral Geometry and Topology Conference
- Feb 2023 **Surface braid groups and Heisenberg groups**, Geometry and Topology Seminar, Georgia Tech

Teaching

- 2022–present **Course Instructor**, University of Chicago
MATH 19620: Linear Algebra (Winter 2026)
MATH 15300: Calculus III (Autumn 2026, Autumn 2025, Autumn 2024, Winter 2024)
MATH 15200: Calculus II (Autumn 2023)
MATH 13200: Elementary Functions and Calculus II (Winter 2023)
MATH 13100: Elementary Functions and Calculus I (Autumn 2022)
- 2020–2023 **College Fellow (Teaching Assistant)**, University of Chicago
MATH 18600: Mathematics of Quantum Mechanics (Spring 2023)
MATH 16310: Honors Calculus III, IBL (Spring 2022)
MATH 16210: Honors Calculus II, IBL (Winter 2022)
MATH 16110: Honors Calculus I, IBL (Autumn 2021)
- 2018 **Teaching Assistant**, University of British Columbia
MATH 102: Differential Calculus with Applications to Life Science (Winter 2018)
- 2021, 2022 **Summer REU Mentor**, University of Chicago