Ian C. George

i2george@uwaterloo.ca

Waterloo, ON Canada

Education

- 2023- PHD Combinatorics and Optimization, University of Waterloo. Supervisor: Karen Yeats.
- 2021-2023 MSc Mathematics, Dalhousie University. Supervisor: Jason Brown.
- 2017-2021 BSc Mathematics and Physics with certificate in Information Technology, Dalhousie University.

Teaching and related experience

- Marker for CO 480 History of Mathematics, University of Waterloo. Graded student assignments.
- Marker for MATH 136 *Linear Algebra 1 for Honours Mathematics*, University of Waterloo. Graded student assignments.
- Marker and tutorial instructor for MATH 239 *Introduction to Combinatorics*, University of Waterloo. Delivered tutorial sessions and graded student assignments and exams.
- Mentor for the Women in Math (WiM) Directed Reading Program (DRP), University of Waterloo. Supervised undergraduate students on a research project investigating poset invariants in Causal Set Theory (CST).
- Marker for MATH 239 *Introduction to Combinatorics*, University of Waterloo. Graded student assignments and exams.
- Marker for MATH 136 *Linear Algebra 1 for Honours Mathematics (online)*, University of Waterloo. Graded student assignments.
- Marker and tutorial instructor for MATH 239 *Introduction to Combinatorics*, University of Waterloo. Delivered tutorial sessions and graded student assignments and exams.
- Marker for MATH 239 *Introduction to Combinatorics*, University of Waterloo. Graded student assignments and exams.
- Tutorial instructor for MATH 1010 *Differential and Integral Calculus II*, Dalhousie University. Delivered tutorial sessions and assigned/graded quizzes.
- 2021 2023 Learning centre TA, Dalhousie University. Helping undergraduate students with calculus, linear algebra, discrete, and related mathematics courses.
- Quiz marker for MATH 1280 *Engineering Math*, Dalhousie University. Grading and providing feedback on students' quizzes.
- Assignment marker for MATH 2110 *Logic and Set Theory*, Dalhousie University. Grading and providing feedback on students' assignments.

Grants, honours & awards

- 2025 Graduate Research Studentship (University of Waterloo) (\$ 8478)
- 2024 Combinatorics and Optimization Graduate Award (University of Waterloo) (\$ 3187)

2023-2024 Graduate Research Studentship (University of Waterloo) (\$ 13240) 2023-2024 Math Domestic Graduate Student Award (University of Waterloo) (\$ 6000) 2022-2023 NSERC Canada Graduate Scholarships - Master's (CGS-M) (\$ 17500) NSERC Undergraduate Summer Research Award (USRA) (\$ 6000) Faye Sobey Undergraduate Research Award, Sobey Foundation (\$ 5500) 2020 Archibald Award, Department of Physics and Atmospheric Science, Dalhousie University 2019 A.S. MacKenzie Award, Department of Physics and Atmospheric Science, Dalhousie University 2019 Faye Sobey Undergraduate Research Award, Sobey Foundation (\$ 5500) 2019 J.G. MacGregor Award, Department of Physics and Atmospheric Science, Dalhousie University 2018 Entrance scholarship, Dalhousie University (\$20 000) 2017

Publications

JOURNAL ARTICLES

- Brown, Jason I. & George, Ian C. *On the roots of degree polynomials.* Australasian Journal of Combinatorics (accepted).
- Brown, Jason I. & George, Ian C. *Modulation Graphs in Popular Music.* The Mathematical Intelligencer.

THESES

2023 On the Degree Polynomial of Graphs. MSc thesis. Supervisor: Jason Brown.

Outreach/volunteering

Co-organizer for MITP YOUNGST@RS Combinatorics in Fundamental Physics virtual workshop. Located virtually at the Mainz Institute for Theoretical Physics, Johannes Gutenberg University, November 26-29. Held invited talks about the role of combinatorics in several areas of fundamental physics, and had a cross-disciplinary discussion session.