QIXIA LUO

https://qixia-luo.github.io luoqixia@math.ubc.ca

EDUCATION

The University of British Columbia, PhD Mathematics

September, 2025 - Present, Vancouver, BC, CA

· Advisor: Prof. Elina Robeva

· Research topics: Mathematical statistics; algebraic statistics; data science; machine learning

GPA: TBD

GPA: 4.30/4.30

GPA: 3.95/4.00

· Affiliated with the Institute of Applied Mathematics (IAM)

Queen's University, MSc Mathematics

September, 2023 - July, 2025, Kingston, ON, CA

- · Advisor: Prof. James A. Mingo
- · Research topics: Random matrix theory; free probability
- · Thesis: The north pole problem and recent developments in infinitesimal free probability

University of Toronto, HBSc Mathematics & Statistics

September, 2017 - June, 2022, Toronto, ON, CA

· Degree: Honours Bachelor of Science with High Distinction

· Program: Mathematics & Its Applications Specialist (Probability/Statistics)

TEACHING & MENTORING

Teaching Assistant, The University of British Columbia

Starting September, 2025, Vancouver, BC, CA

- · Graded homework assignments and midterms for differential calculus and mulitvariable calculus
- · Tutored students in the Math Learning Center (MLC)

Teaching Assistant, Queen's University

September, 2023 - August, 2025, Kingston, ON, CA

- · Graded homework and exams for linear algebra, integral and differential calculus, complex analysis, vector analysis
- · Facilitated tutorials for integral and differential calculus
- · Proctored exams

Tutor, Self-employed

September, 2023 - present, Remote

- · Provided one-on-one tutoring and mentoring for high school students in all mathematics subjects
- · Accumulated more than 200 hours of tutoring and individualized lesson planning

INDUSTRY EXPERIENCE

Intern, International Air Transport Association (IATA)

July, 2022 - April, 2023, Montréal, QC, CA

· Conducted business data analytics and created reports

· Supported the global operations for IATA Training in a large international team setting

SPEAKING EXPERIENCE

Departmental Seminar Speaker, Queen's University

- · Stieltjes Transform and its Inversion; two talks, 50 minutes each, Random Matrix Theory Seminar
- · Joint Infinitesimal Free Cumulants of Certain Unitarily Invariant Matrix Ensembles and their Transposes; one talk, 50 minutes, Random Matrix Theory Seminar
- \cdot Multiplicative Linear Functionals on Unital Banach Algebras; two talks, 50 minutes each, Operator Algebras Seminar
- · Computing Maximal Ideal Spaces on Unital Banach Algebras; two talks, 50 minutes each, Operator Algebras Seminar
- · Commutative C^* -Algebras; one talk, 50 minutes, Operator Algebras Seminar
- · The Johnson-Lindenstrauss Lemma; one talk, 50 minutes, Graduate Seminar

CONFERENCES & WORKSHOPS

Alumn, AI4GoodLab

May, 2020 - June, 2020, Edmonton, AB, CA (remote due to pandemic)

- · 7 weeks full-time workshop with a focus on the social implications of AI
- · Amongst a small cohort of students selected across Canada to participate

GRADUATE AWARDS & SCHOLARSHIPS

- · Four Year Doctoral Fellowship, The University of British Columbia, \$72,800 total over 4 years
- · Four Year Doctoral Fellowship Tuition Award, *The University of British Columbia*, full tuition coverage over 4 years
- · President's Academic Excellence Initiative PhD Award, \$840 per annum, The University of British Columbia
- · The Senator Frank Carrel Fellowship, Queen's University, \$30,000 total over 2 years

UNDERGRADUATE AWARDS & SCHOLARSHIPS

- · Howard Ferguson Scholarship, University of Toronto, \$12,000 total over 4 years
- · The Coxeter Scholarship In Mathematics, University of Toronto, \$1480, one time recipient
- · Galois Fund, University of Toronto, \$750 total, two times recipient
- · C L Burton Open Scholarship, University of Toronto, \$400, one time recipient
- · Dr. James A. & Connie P. Dickson Scholarship In Science & Mathematics, University of Toronto, \$400, one time recipient
- · Dean's Scholar, University of Toronto, 2018 Summer, 2020 2022 Winters
- · Hugh G. White Memorial Scholarship, Actuarial Foundation of Canada, \$1200, one time recipient

MISCELLANEOUS

- · Permanent Resident of Canada
- · First name pronunciation: /tʃiːʃə/ or chee-shuh
- · This curriculum vitae is up-to-date as of October 24, 2025