

Curriculum vitae

William Verreault
Department of Mathematics
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EDUCATION

Starting in 2023	PhD in mathematics University of Toronto Graduate supervisor: Ilia Binder
2021 – 2023	M. Sc. in mathematics (GPA 4.33/4.33) Université Laval Graduate supervisor: Javad Mashreghi
2018 – 2021	B. Sc. in mathematics, Honours Program (GPA 4.32/4.33) Université Laval

RESEARCH INTERESTS

My research is in analysis and probability. My research program aims to get a better understanding of lattice models in statistical physics and their connections with complex analysis, function spaces, and random matrix theory. In particular, I am interested in SLE, the GFF, and GMC, and their interactions with random geometry and conformal field theory.

PEER-REVIEWED PUBLICATIONS

*The convention in mathematics is to list authors in alphabetical order

Submitted for publication

16. On the minimal length of addition chains. [\[PDF\]](#)
J.-M. De Koninck, N. Doyon, W. Verreault. 24 pp.
15. The Cesàro operator on local Dirichlet spaces. [\[arXiv\]](#), [\[PDF\]](#)
E. Dellepiane, J. Mashreghi, M. Nasri, W. Verreault. 13 pp.
14. Counting involutions on multicomplex spaces. [\[arXiv\]](#), [\[PDF\]](#)
N. Doyon, P.-O. Parisé, W. Verreault. 23 pp.
13. A counterexample to symmetry of L^p norms of eigenfunctions. [\[arXiv\]](#), [\[PDF\]](#)
G. Beiner, N. Eagles, W. Verreault, R. Wang. 6 pp.

Published

12. Plank theorems and their applications: a survey. [\[arXiv\]](#), [\[PDF\]](#)
W. Verreault. *Bull. Lond. Math. Soc.* (Accepted), 46 pp.
11. Moments of random multiplicative functions over function fields. [\[arXiv\]](#), [\[PDF\]](#)
M. C. E. Hoffman, A. Hoganson, S. Menon, W. Verreault, A. Zaman. *Math. Proc. Cambridge Philos. Soc.* (Accepted), 32 pp.
10. Arithmetic functions at factorial arguments. [\[arXiv\]](#), [\[PDF\]](#)
J.-M. De Koninck, W. Verreault. *Publ. Inst. Math.* (2024), **115**(129), 45-76.
9. Nonlinear expansions in reproducing kernel Hilbert spaces. [\[arXiv\]](#), [\[PDF\]](#)
J. Mashreghi, W. Verreault. *Sampl. Theory Signal Process. Data Anal.* **21**, 30 (2023), 17 pp.
8. On the tower factorization of integers. [\[arXiv\]](#), [\[PDF\]](#)
J.-M. De Koninck, W. Verreault. *Amer. Math. Monthly* (2024), 8 pp.
7. Failure of L^p symmetry of zonal spherical harmonics. [\[arXiv\]](#), [\[PDF\]](#)
G. Beiner, W. Verreault. *J. Spectr. Theory* (2023), no.1, 383-394.
6. A conjectural asymptotic formula for multiplicative chaos in number theory. [\[arXiv\]](#), [\[PDF\]](#)
D. Aggarwal, U. Subedi, W. Verreault, A. Zaman, and C. Zheng. *Res. Number Theory* **8** (2022), no. 2, Paper No. 35, 19 pp.
5. Sums of random multiplicative functions over function fields with few irreducible factors. [\[arXiv\]](#), [\[PDF\]](#)
D. Aggarwal, U. Subedi, W. Verreault, A. Zaman, C. Zheng. *Math. Proc. Cambridge Philos. Soc.* **173** (2022), no. 3, 715-726.

4. MacMahon partition analysis: a discrete approach to broken sticks problems. [[arXiv](#), [PDF](#)]
W. Verreault. *J. Combin. Theory Ser. A.* **187** (2022): 105571, 15 pp.
3. On the probability of forming polygons from a broken stick. [[arXiv](#), [PDF](#)]
W. Verreault. *Statist. Probab. Lett.* **180** (2022): 109237, 8 pp.
2. Repetitions of multinomial coefficients and a generalization of Singmaster's conjecture. [[arXiv](#), [PDF](#)]
J.-M. De Koninck, N. Doyon, W. Verreault. *Integers* **21** (2021), 11 pp.
1. Bounds for the counting function of the Jordan-Pólya numbers. [[arXiv](#), [PDF](#)]
J.-M. De Koninck, N. Doyon, W. Verreault, A.A. Bonkli Razafindrasoanaivolala. *Arch. Math. (Brno)* **56** (2020), 141-152.

Expository articles and thesis

- Développements en séries non linéaires. [[PDF](#)]
W. Verreault. Master thesis (2023).
- Du triangle de Pascal aux simplexes de Pascal. [[Accromath](#), [PDF](#)]
W. Verreault. *Accromath*, 15.2 (été-automne 2020), 18-23.

SCHOLARSHIPS AND AWARDS

Graduate scholarships

Vanier Canada Graduate Scholarship (NSERC), \$150,000	2023 – 2026
Faculty of Arts & Science Doctoral Recruitment Award (University of Toronto), \$5000	2023
<i>Turned down</i> – Doctoral Scholarship (FRQNT) – ranked 1 st among all candidates (Quebec, Mathematics and Statistics Committee), \$100,000	2023 – 2027
<i>Turned down</i> – Canada Graduate Scholarship – Doctoral program (NSERC), \$105,000	2023 – 2026
Master's Research Scholarship (FRQNT) – ranked 1 st among all candidates (Quebec, Mathematics and Statistics Committee), \$17,500	2022 – 2023
Canada Graduate Scholarship – Master's program (NSERC), \$17,500	2021 – 2022
National Bank of Canada Scholarship - Actuarial science and mathematics (Admission), \$10,000	2021
ISM Graduate Scholarship, \$3000	2022

Merit-based awards and scholarships

Lachlan Gilchrist Fellowship Fund (University-Wide Awards), \$2120	2024
Honor Roll: Faculty of Graduate and Postdoctoral Studies (Master's Thesis)	2023
Mensa Canada's Frank & Betty Woodhams Memorial Scholarship, \$5330	2023
Blyth Fellowship (University of Toronto), \$5000	2023
NEADS National Student Awards Program, \$3000	2023
Support Scholarship for Academic Success in Mathematics, \$1500 x 2	2022 – 2023
1956 Science Promotion Scholarship – Academic excellence (ranked 1 st among undergraduates in the Faculty of Science and Engineering), \$2000	2021
Université Laval's Faculty of Science and Engineering 1 st Place Prize – Mathematics at the <i>Gala du Mérite Étudiant</i> , \$250	2021
North American Life Insurance Company Scholarship, \$500	2020
Honor Roll in Mathematics – Université Laval's Department of Mathematics and Statistics	2019 – 2021
Desjardins Scholarships, \$1500 x 2	2018 – 2019
Excellence Scholarship in a Pre-University Program from Cégep Garneau - co-valedictorian, \$500	2018
Governor General's Academic Medal	2017
Desjardins' High school Excellence Scholarships, \$500 x 5	2012 – 2016

Summer research scholarships

NSERC Undergraduate Student Research Award, \$7500	2021
FRQNT supplement for NSERC USRA, \$1500	
NSERC Undergraduate Student Research Award, \$7500	2020
FRQNT supplement for NSERC USRA, \$1500	
NSERC Undergraduate Student Research Award, \$7500	2019
FRQNT supplement for NSERC USRA, \$1500	
FRQNT Cégep Student Summer Research Award, \$5000 (only one scholarship available for the whole Cégep)	2017

LEADERSHIP AND ENGAGEMENT

Member of the Education Committee of the Canadian Mathematical Society (CMS)	2023 – 2027
<ul style="list-style-type: none">Involved in diverse activities supporting mathematics education and promoting outreach, including math camps, competitions, and grants	
Co-organizer of a Math-CS Symposium at the University of Toronto	2025
<ul style="list-style-type: none">A symposium for graduate students in the mathematics and computer science departments to discuss and learn about the research at the intersection of the two fields	
Co-organizer of the 3rd annual Bird's Eye Conference at the University of Toronto	2025
<ul style="list-style-type: none">A conference for graduate students in the mathematics department to get a glimpse of the current research of their peers through accessible survey talks	
Graduate student representative on the University of Toronto's Governing Council	2024 – 2025
<ul style="list-style-type: none">Member of the Academic Board, the University Affairs Board, and the Academic Appeals Committee	
Chair and member of the Canadian Mathematical Society Student Committee (CMS StudC)	<i>Chair</i> 2020 – 2021
<ul style="list-style-type: none">Develop and support the community of mathematics students across Canada and promote the engagement of post-secondary mathematics students with the Canadian mathematics community	
<ul style="list-style-type: none">Oversee and organize student-related activities, including poster sessions, panel discussions, seminars, workshops, awards, socials, and employment-related initiatives	<i>Member</i> 2021 – 2025
<ul style="list-style-type: none">Oversee the administration of annual conferences and/or meetings, including budgeting and funding for student-led initiatives	
Creator and Chair of the Central Committee of the Ontario Graduate Mathematics Conference (OGMC)	2024 & 2025
<ul style="list-style-type: none">The Ontario Graduate Mathematics Conference (OGMC) is a new conference meant for all Ontario graduate students in any mathematical field.Over 150 students from Ontario attended this event that took place at the University of Waterloo on June 7 – 9, 2024 (it will take place at the University of Toronto in 2025)	
Main organizer and mentor for the Directed Reading Program in the Department of Mathematics at the University of Toronto	2024 & 2025
<ul style="list-style-type: none">This program pairs interested undergraduate students with graduate student mentors for weekly 1-on-1 meetings to encourage undergraduate students of diverse backgrounds to pursue advanced topics in mathematics and statistics in a friendly setting of peer supervision while going beyond the standard curriculumIt also supports over 25 graduate students for their mentor work	
Member of the Academic Committee of University of Toronto's Mathematics Graduate Students Association	2023 – 2025
<ul style="list-style-type: none">Organize academic activities for graduate students in the department	

<p>Organizer of activities at the CMS Meetings</p> <ul style="list-style-type: none"> • Winter 2024 – Vancouver AARMS-CMS Student Poster Session • Summer 2024 – Saskatoon Scientific Session – Student Research Session • Winter 2023 – Montreal Workshop “Advice on Listening to and Giving a Mathematics Presentation”, Scientific Session – A celebration in honor of Jean-Marie De Koninck’s 75th birthday: Elementary and Analytic Number Theory • Summer 2023 – Ottawa Writing Workshop, Scientific Session – Early Career Research in Number Theory • Winter 2022 – Toronto Writing Workshop for Notes from the Margin • Summer 2022 – St John’s AARMS-CMS Student Poster Session, Student Research Talks Session, Student Social Activity • Winter 2021 – Vancouver (online) AARMS-CMS Student Poster Session, Student Research Talks Session, Writing Workshop • Summer 2021 – Ottawa (online) AARMS-CMS Student Poster Session, Student Research Talks Session • Winter 2020 – Online Minicourse on Impacts of COVID-19 on Mathematical Education and Communication in Mathematics 	<p>2020 – 2024</p>
<p>Co-supervisor at the Fields Undergraduate Summer Research Program 2024 (FUSRP)</p> <ul style="list-style-type: none"> • With Asif Zaman (UofT), supervise a group of undergraduate students in a research project on Random Multiplicative Functions at the Fields Institute 	<p>2024</p>
<p>Co-supervisor at the Fields Undergraduate Summer Research Program 2023 (FUSRP)</p> <ul style="list-style-type: none"> • With Asif Zaman (UofT), supervise a group of undergraduate students in a research project on Random Multiplicative Functions at the Fields Institute 	<p>2023</p>
<p>Student Director on the Executive Committee of the Canadian Mathematical Society</p> <ul style="list-style-type: none"> • Represent Canadian students in mathematics at large before the CMS • Participate in the CMS Board of Directors Meetings • Provide advice and guidance to the CMS and the CMS committees on student-related matters 	<p>2021 – 2023</p>
<p>Main organizer and mentor for the Directed REAding in Mathematics and Statistics (DREAMS) at Université Laval</p> <ul style="list-style-type: none"> • This program pairs interested undergraduate students with graduate student mentors for weekly 1-on-1 meetings to encourage undergraduate students of diverse backgrounds to pursue advanced topics in mathematics and statistics in a friendly setting of peer supervision while going beyond the standard curriculum 	<p>2022 – 2023</p>
<p>Co-organizer of the Quebec Analysis and Related Fields (QARF) Graduate Seminar</p> <ul style="list-style-type: none"> • Bimonthly seminar in analysis and related field giving the chance to graduate students and early career researchers to present their work 	<p>2022 – 2023</p>
<p>President of the organizing committee of the 2022 Canadian Undergraduate Mathematics Conference (CUMC)</p> <ul style="list-style-type: none"> • The CUMC is the biggest mathematics conference for mathematics students from Canada • Over 160 students from across Canada attended this event that took place at Université Laval on July 13 – 17, 2022 	<p>2022</p>
<p>Member of the organizing committee of the ISM Graduate Student Conference 2022</p> <ul style="list-style-type: none"> • A graduate mathematics conference for universities that are members of the Institut des sciences mathématiques (ISM) 	<p>2022</p>

- Over 60 students from Quebec attended this event that took place at Université Laval on May 27 – 29, 2022

Contributions to *Mathematics with a Human Face*

2022

- Interviews of people with a mathematics degree to represent the diversity of the mathematics community to a wide audience
- Worked for the inclusion of more minority mathematicians, including Asian, Aboriginal, and Black mathematicians

Creator and organizer of the seminar *Math Salon - Talks by super-students and their supervisors*

2020 – 2021

- Math Salon was a monthly Zoom lecture on a research topic in any area of mathematics during the COVID-19 pandemic, featuring a double serving of current mathematics developments comprising a 30-minute talk from a student followed by a 30-minute talk from their supervisor

Vice President – Educational Affairs for Association des Étudiant(e)s en Statistique et Mathématiques de l'Université Laval (AESMUL)

2019 – 2022

- Organize math-related activities for the students of AESMUL, including biweekly research seminars for students from our department, special presentations by Laval alumni who use mathematics in their day-to-day work to showcase the possibilities that a math degree can offer, and the *Lunch with a Mathematician!* event on the International Day of Mathematics.
- Sit on diverse committees to represent the students of AESMUL, including the Mathematics B. Sc. Committee, the Student Investment Fund Committee, the Graduate Programs Committee, and the ad hoc Committee on Mathematics Program Evaluation and Revision

Recent Miscellaneous Volunteer Work

- Co-organizer of the AMS Special Session on *Function Spaces and Their Applications* at the 2025 Joint Mathematics Meetings taking place in Seattle in January 2025
- Helped in organizing and hosting the Bird's Eye Conference at the University of Toronto: moderator for a panel on graduate research experience and advice, and facilitator for Telephone: A Math Communication Game
- Academic reviewer for *The Ramanujan Journal*, *Canadian Mathematical Bulletin*, *Annali dell'Università di Ferrara*, *Communications in Statistics – Theory and Methods*, *Experimental Mathematics*, *Journal of Inequalities and Applications*, *Notes on Number Theory and Discrete Mathematics*, and *STEM Education (STEME)*
- Reviewer for the student publication *Notes from the Margin (NfM)* of the Student Committee of the CMS
- Translated problems of the *Canadian Open Mathematics Challenge* for francophone students (the COCM is the first step on the road to the International Mathematical Olympiad for Canadian students)
- Contributed problems to the *Opti-math* and *Opti-math Plus* competitions (mathematics competition at the high school level in Quebec)
- Volunteer work for the *Championnat international des jeux mathématiques et logiques* (world's premier mathematics competition for francophone students) in 2022
- Helped in organizing and hosting the Quebec-Maine number theory conference 2020 and 2022

TALKS AND TRAVELS

Bold text below a bullet point indicates a talk title

2025

- Number Theory Seminar, *University of Waterloo*, Mar. 7, **On the minimal length of addition chains**
- Bird's Eye Conference, *University of Toronto*, Mar. 1 – 2 **The Gaussian free field for analysts**
- Workshop on Disordered Media, *Rényi Institute*, Jan. 27 – 31
- School on Disordered Media, *Rényi Institute*, Jan. 20 – 24 **Permanent of random Rademacher matrices**

- Joint Mathematics Meetings (AMS Special Session on New Faces in Operator Theory), *Seattle*, Jan. 8 – 11,
The Cesàro operator on local Dirichlet spaces

2024

- Probability Seminar, *University of Victoria*, Dec. 3,
Random multiplicative functions: past, present, and future
- CMS Winter Meeting 2024 (Operator Theory, Function Theory, and Geometry: Connections to Corona Problems and Geometric Analysis), *Kwantlen Polytechnic University*, Nov. 29 – Dec. 2
The Cesàro operator on local Dirichlet spaces
- Analysis and Applied Math Seminar, *University of Toronto*, Oct. 25,
The Cesàro operator on local Dirichlet spaces
- Junior Number Theory Seminar, *University of Toronto*, Oct. 24,
On the distribution of the minimal length of addition chains
- Graduate Student Seminar, *University of Toronto*, Oct. 17,
Loops, Clusters, and Whatnot
- Midwest Probability Colloquium, *Northwestern University*, Oct. 10 – 12
- Québec-Maine Number Theory Conference, *Université Laval*, Oct. 5 – 6,
Moments of random multiplicative functions over function fields
- Analysis seminar, *Université Laval*, Oct. 4,
L'opérateur de Cesàro sur les espaces de Dirichlet locaux
- 11th Heidelberg Laureate Forum (HLF), *Heidelberg*, Sept. 22 – 27
- Visit Paris-Saclay University, *Institut des Hautes Études Scientifiques* and *Institut de Mathématique d'Orsay*, Sept. 16 – 20
- Special topic school: "Recent Developments in Disordered Systems", *Hausdorff Center for Mathematics*, Sept. 9 – 13
- Path Integrals and Friends Conference, *University of Helsinki*, Sept. 2 – 6
- Advances in Probability Theory and Interacting Particle Systems: A Conference in Honor of S. R. Srinivasa Varadhan, *Harvard University*, Aug. 26 – 28
- Forward From the Fields Medal, *Fields Institute*, Aug. 12 – 16
- CMI-HIMR Summer School on Symmetry and Randomness, *University of Bristol*, July 15 – 19,
Schramm–Loewner evolution (SLE) in 2 minutes (Lightning talk)
- Workshop on Two-Dimensional Random Geometry, *Institute for Mathematical and Statistical Innovation (IMSI)*, July 8 – 12
- CRM-PIMS Summer School in Probability, *Université de Montréal*, July 1 – 5
- Canadian Number Theory Association XVI (CNTA), *Fields Institute*, June 10 – 14
- Ontario Graduate Mathematics Conference (OGMC), *University of Waterloo*, June 7 – 9,
Exploration of Lattice Models and SLE
- CMS Summer Meeting 2024 (Number theory by early career researchers), *University of Saskatchewan*, May 31 – June 3,
Moments of random multiplicative functions over functions fields
- Workshop III: Statistical Mechanics Beyond 2D (part of the Long Program on Geometry, Statistical Mechanics, and Integrability) *Institute for Pure & Applied Mathematics (IPAM)*, May 6 – 10
- Shapes and shades of Analysis: in depth and beyond / Formes et nuances de l'analyse moderne, *Centre International de Rencontres Mathématiques (CIRM)*, Apr. 29 – May 3
- Jane Street Graduate Research Fellowship Research Workshop, *New York*, Apr. 13 – 15,
Series expansion via unwinding (Poster)
- Bird's Eye Conference, *University of Toronto*, Mar. 23 – 24,
Exploration of Lattice Models and SLE
- Junior Number Theory Seminar, *University of Toronto*, Mar. 19,
Probability and Number Theory Redux
- Workshop on New Directions in Conformal Field Theory, *Fields Institute*, Mar. 18 – 22
- Universality & Integrability in KPZ Workshop, *Columbia University*, Mar. 11 – 15
- Workshop on KPZ meets KPZ, *Fields Institute*, Mar. 4 – 8
- Graduate Student Seminar, *University of Toronto*, Feb. 15,
Hypercomplex Analysis, Combinatorics, and Linear Algebra (Or how to count things in multicomplex spaces)

- Joint Mathematics Meetings (AMS Special Session on New Faces in Operator Theory and Function Theory), *San Francisco*, Jan. 3 – 6,
Nonlinear expansions in reproducing kernel Hilbert spaces

2023

- CMS Winter Meeting 2023 (A celebration in honor of Jean-Marie De Koninck's 75th birthday: Elementary and Analytic Number Theory session), *Montreal*, Dec. 1 – 4,
Towers of primes
- Analysis and Applied Math Seminar, *University of Toronto*, Nov. 17
Nonlinear expansions in reproducing kernel Hilbert spaces
- Junior Number Theory Seminar, *University of Toronto*, Nov. 1,
Probability and Number Theory
- 10th Heidelberg Laureate Forum (HLF), *Heidelberg*, Sept. 24 – 29
- Journées Arithmétiques, *Université de Lorraine*, July 3 – 7,
Sums of arithmetic functions running on factorials
- Canadian Undergraduate Mathematics Conference (CUMC), *University of Toronto*, June 19 – 23,
Towers of primes
- Early Career Research in Number Theory session (CMS Summer Meeting 2023), *University of Ottawa*, June 2 – 5,
Sums of arithmetic functions running on factorials
- CMS Summer Meeting 2023 (Matrices and Operators session), *University of Ottawa*, June 2 – 5,
Nonlinear expansions in reproducing kernel Hilbert spaces
- Ottawa Mathematics and Statistics Conference (OMSC), *University of Ottawa*, May 24 – 26,
Développements non-linéaires dans des espaces de Hilbert à noyau reproduisant (2nd place at the Three Minute Thesis (3MT) Competition)
- Ottawa Mathematics and Statistics Conference (OMSC) 2023, *University of Ottawa*, May 24 – 26,
Développements en série non-linéaires
- Spectral Geometry and Applications Conference, *Université Laval*, May 8 – 12
- Seminars on Undergraduate Mathematics in Montreal (SUMM), *Université de Montréal*, Jan. 6 – 8,
Des tours de premiers

2022

- Pacific Rim Mathematical Association Congress (PRIMA) (Early Career Research Showcase), *Vancouver*, Dec. 4 – 9,
Series expansion via unwinding (Poster)
- CMS Winter Meeting 2022 (AARMS – CMS Student Poster Session), *Toronto*, Dec. 2 – 5,
Series expansion via unwinding (Winner of the Poster Competition)
- Québec-Maine Number Theory Conference, *Université Laval*, Oct. 15 – 16,
Asymptotics for compositions under constraints
- A celebration of analytic number theory, a conference in honor of Andrew Granville, *Centre de recherches mathématiques (CRM)*, Sept. 5 – 9
- Joint MSRI-BIRS Graduate Summer School - Sums of Squares Method in Geometry, Combinatorics and Optimization, *University of British Columbia – Okanagan campus*, July 31 – Aug. 13
- Ottawa Mathematics Conference (OMC), *Online* – hosted by the University of Ottawa, July 20 – 23,
Counterexamples to a generalized symmetry conjecture
- Canadian Undergraduate Mathematics Conference (CUMC), *Université Laval*, July 13 – 17,
Counterexamples to a generalized symmetry conjecture
- CMS Summer Meeting 2022 (Harmonic Analysis and PDEs session), *St. John's*, June 3 – 6,
Unwinding of analytic functions in RKHS and Hardy spaces
- ISM Graduate Student Conference, *Université Laval*, May 27 – 29,
Contre-exemples à une conjecture de symétrie généralisée
- Focus Program on Data Science, Approximation Theory, and Harmonic Analysis, *Fields Institute*, May 9 – 13
- Joint Mathematics Meetings (AMS Special Session on Early Career Number Theory Research with Combinatorics, Modular Forms, and Basic Hypergeometric Series), *Online*, April 6 – 9
MacMahon Partition Analysis: a discrete approach to broken stick problems

2021

- CMS Winter Meeting 2021, *Online*, Dec. 2-7
- Canadian Undergraduate Mathematics Conference (CUMC), *Online* – hosted by Western University, Aug. 19 – 22, **Plank theorems and their applications**
- FUSRPA Alumni Research Session, *Online* – hosted by the Fields Institute, July 23, **Repetitions of multinomial coefficients and a generalization of Singmaster's conjecture**
- Focus Program on Analytic Function Spaces and their Applications, *Online* – hosted by the Fields Institute, July 1 – Dec. 31
- CMS 75th +1 Anniversary Summer Meeting 2021 (Recent Advances in Complex and Harmonic Analysis session), *Online*, June 7 – 11 **Nonlinear Oscillatory Expansions of Analytic Functions**
- ISM Graduate Student Conference, *Online* – hosted by Concordia University, May 22 – 23, **Séries entières aléatoires**
- Seminars on Undergraduate Mathematics in Montreal (SUMM), *Online*, Jan. 9 – 10 **Une introduction à la théorie des nombres probabiliste**

2020

- CMS Winter Meeting 2020 (StudC Research Session), *Online*, Dec. 3 – 8, **MacMahon's Partition Analysis Applied**
- CMS Winter Meeting 2020 (Recent Advances in Harmonic and Complex Analysis session), *Online*, Dec. 3 – 8, **Nonlinear Oscillatory Expansions of Holomorphic Functions**
- Québec-Maine Number Theory Conference, *Online* – hosted by Université Laval, Sept. 26 – 27, **Limiting distributions of sums of random multiplicative functions over function fields** (joint with Chenghui Zheng)
- Canadian Undergraduate Mathematics Conference (CUMC), *Online* – hosted by Western University, Aug. 20 – 23, **A New Approach to Solve Broken Stick Problems**
- Young Mathematician's Conference (YMC), *Online* – hosted by Ohio State University, Aug. 14 – 16, **A New Approach to Solve Broken Stick Problems**
- Connecticut Summer School in Number Theory, *Online* – hosted by the University of Connecticut, June 8 – 12
- Seminars on Undergraduate Mathematics in Montreal (SUMM), *Université du Québec à Montréal*, Jan. 10 – 12, **Une conjecture sur la répétition des coefficients multinomiaux**

2019

- Maine-Québec Number Theory Conference, *University of Maine*, Oct. 5 – 6, **Bounds for the counting function of the Jordan-Pólya numbers**
- Canadian Undergraduate Mathematics Conference (CUMC), *Queen's University*, July 24 – 27, **A Generalization of Singmaster's Conjecture**

TEACHING EXPERIENCE

Teaching assistant in <i>Mathematical Probability II</i> (Graduate) – University of Toronto	Winter 2025
Teaching assistant in <i>Complex Variables</i> – University of Toronto	Fall 2024
Individual tutoring in mathematics – Université Laval	2021 – 2023
Teaching assistant in <i>Complex Analysis</i> – Université Laval	Fall 2022
Teaching assistant in <i>Mathematics Supplements</i> – Université Laval	Fall 2022
Teaching assistant in <i>Introduction to Analysis</i> – Université Laval	Winter 2022
Teaching assistant in <i>Analysis II</i> – Université Laval	Fall 2021
Teaching assistant in <i>Differential Calculus</i> – Université Laval	Fall 2020
Teaching assistant in <i>Number theory</i> – Université Laval	Fall 2020
Teaching assistant at the CDA (center for teaching and learning in mathematics and statistics) – Université Laval	Fall 2019 to Fall 2020
Tutoring in written French – Cégep Garneau	Winter 2017

