

Education

- 2022–2026 **Doctor of Philosophy**, *University of Oxford*
Advisor: James Newton
- 2021–2022 **Master of Science**, *McGill University*
Advisor: Patrick Allen
- 2016–2021 **Bachelor of Science**, *McGill University*
First Class Honours, Dean's Honour List
- Jan–Apr 2020 **Exchange Semester**, *National University of Singapore*

Publications

1. A lower bound on the proportion of modular elliptic curves over Galois CM fields.
To appear in *International Journal of Number Theory*.

Teaching Experience

@ Oxford (2023–2024)

- Hilary 2023 **Tutor**, *Algebraic Number Theory (Williams-Exeter Program @ Exeter)*
- Hilary 2023 **Tutor**, *M1 Linear Algebra II (@ Balliol)*
- Michaelmas 2023 **Tutor**, *M1 Linear Algebra I (@ Balliol)*
- Michaelmas 2023 **Tutor**, *Galois Theory (Williams-Exeter Program @ Exeter)*

@ Oxford (2022–2023)

- Trinity 2023 **Tutor**, *ASO Number Theory (@ Balliol)*
- Trinity 2023 **Tutor**, *Galois Theory (Williams-Exeter Program @ Exeter)*
- Trinity 2023 **Teaching Assistant**, *M1 Groups and Group Actions (@ Merton)*
- Hilary 2023 **Teaching Assistant**, *A5 Topology (@ Merton)*
- Michaelmas 2022 **Teaching Assistant**, *B3.1 Galois Theory*

@ McGill (2021–2022)

- Jan–Apr 2022 **Mentor**, *Directed Reading Program*
- Jan–Apr 2022 **Teaching Assistant**, *MATH 236 Algebra 2*
- Sep–Dec 2021 **Teaching Assistant**, *MATH 133 Linear Algebra and Geometry*

Workshops Attended

- Aug 2023 **Summer school on the automorphic side of the p -adic Langlands program**
Universität Wuppertal

- May 2023 **Summer school on the arithmetic of the Langlands program**
Universität Bonn
- Mar 2023 **Spring school on non-archimedean geometry and eigenvarieties**
Universität Heidelberg
- Jul 2022 **Special program on p -adic L -functions and eigenvarieties**
University of Notre Dame
- Jan–Apr 2021 **Arizona Winter Semester 2021: Virtual School in Number Theory**
online

Conferences Attended

- Sep 2023 **Young Researchers in Algebraic Number Theory (Y-RANT V)**
University of Cambridge
- Sep 2023 **Great Western Number Theory Seminar**
University of Reading
- Jan 2023 **Great Western Number Theory Seminar**
Oxford
- Nov 2022 **London-Paris Number Theory Seminar**
Université Paris Cité
- Jun 2021 **CMS Summer Meeting 2021**
online

Seminars Attended

- 2023–present **Oxford Algebra Seminar**
- 2023–present **Oxford Junior Algebra and Representation Theory Seminar**
- 2022–present **Oxford Number Theory Seminar**
- 2022–present **Oxford Junior Number Theory Seminar**
- 2021–2022 **Quebec-Vermont Number Theory Seminar**

Activities

- 2023–present **Co-organizer**, Young Researchers in Algebraic Number Theory (Y-RANT VI)
Together with Arun Soor & Håvard Damm-Johnsen
- 2023–present **Co-organizer**, Oxford Junior Number Theory Seminar
Together with Arun Soor & James Taylor
- Trinity 2023 **Co-organizer**, Oxford Tate's Thesis Study Group
Together with Håvard Damm-Johnsen
- Hilary 2023 **Co-organizer**, Oxford Automorphic Representations Study Group
Together with Håvard Damm-Johnsen
- 2022–2023 **Graduate Student Representative**, Oxford Maths Teaching Committee

Talks

- Sep 2023 **Young Researchers in Algebraic Number Theory (Y-RANT V)**
Title: p -adic L -functions and eigenvarieties
- Jun 2023 **Oxford Algebraic Groups Study Group**
Title: Quotients, subgroups generated by a map, and solvable groups
- May 2023 **Oxford Tate's Thesis Study Group**
Title: Local zeta functions and the functional equation
- Feb 2023 **Oxford Automorphic Representations Study Group**
Title: Supercuspidal representations and the local Langlands correspondence
- Jan 2023 **Oxford Automorphic Representations Study Group**
Title: Representations of locally profinite groups and Hecke algebras
- Nov 2022 **Oxford Fargues-Fontaine Curve Study Group**
Title: Zeros of elements of the ring B : factorization and divisors
- Oct 2022 **Oxford Modularity Lifting Study Group**
Deformations of representations of profinite groups

Industry Experience

May–Aug 2019 **Software Engineering Intern**, Microsoft Redmond HQ