

Curriculum Vitae

Xavier G  n  reux

1 Biographical information

1.1 Education

- Bachelor’s in mathematics and computer science, Universit   de Montr  al, 2018-2021
- Master’s in mathematics, Universit   de Montr  al, sup. Matilde Lal  n, 2021-2023
- Doctorate in Computer Science, LMU, sup. Jasmin Blanchette, 2023-present

1.2 Teaching

- Practical Lead, Formalization in Lean, 2024
- Seminar Lead, Algebra & Computer Science, 2024/25
- Teaching assistant, Interactive Theorem Proving, 2024/25
- Teaching assistant, Rings and Modules, 2023
- Teacher, High School Mathematics, Alloprof, 2021-2023
- Teaching assistant, Group Theory, 2021/22

1.3 Research Internships

- Mathematics research internship, sup. Matilde Lal  n and Wanlin Li, 2021
- Mathematics research internship, sup. Egor Shelukhin, 2020
- Mathematics research internship, sup. V  ronique Hussin, 2019

2 Research

2.1 Papers

- Incremental Forward Reasoning for White-Box Proof Search (with Jannis Limperg). Submitted to CADE 2025.
- On the Northcott property of Dedekind zeta functions (with Matilde Lal  n). Ramanujan J. 63 (2024), no. 4, 1135-1178.
- On the Northcott property of zeta functions over function fields (with Matilde Lal  n and Wanlin Li). Finite Fields Appl. 83 (2022), Paper No. 102080. MR4444425

2.2 Presentations

- Formalization of Drinfeld Modules. March 2025, Leaning In!.
- Efficient Forward Reasoning for Aesop (with Jannis Limperg), January 2025, Lean Together.
- The Northcott property of ζ -functions over families of extensions. October 2022, Québec-Maine conference for number theory.
- On the Northcott property of ζ -functions over function fields. April 2022, MOBIUS Analytic Number Theory.
- Number theory in a parallel world (translated). June 2021, Clubmath de l'Université de Montréal.

2.3 Other

- Volunteering at Moisson Montréal, Helping to provide food for those in need. Autumn 2022.
- Volunteering at summer school: Discover the mathematical world, Université de Montréal, June 2022.
- Volunteering at local hospital (Jean-Talon), ER support and psychiatric ward assistance, August 2021 to March 2022.