

# Félix Baril Boudreau

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## EMPLOYMENT

- Sep. 2026– Assistant Professor on Tenure Track, Department of Mathematics, CUNEF Universidad
- Apr. – Aug. 2026 Postdoctoral researcher CICMA at Concordia University and McGill University
- Apr. 2024 – Mar. 2026 Postdoctoral researcher at Université du Luxembourg
- Sep. 2022 – Mar. 2024 PIMS postdoctoral fellow at University of Lethbridge

## EDUCATION

2022- PhD Mathematics – The University of Western Ontario

## FIELDS OF INTEREST

Arithmetic geometry, arithmetic statistics, analytic and probabilistic number theory

## PUBLICATIONS

1. Baril Boudreau, Félix: “L-functions of elliptic curves modulo integers,” *Journal of Number Theory*, Volume 256, March 2024, 218-252.
2. Baril Boudreau, Félix; Holmes, Erik and Nguyen, Khoa D.: “Adelic perturbation of rational functions and applications,” *Mathematische Annalen*, Volume 392, April 2025, no. 2, 2253-2275.
3. Baril Boudreau, Félix and Perucca, Antonella, “Kummer theory for function fields,” *Journal of Number Theory*, Volume 271, June 2025, 504-525.
4. Baril Boudreau, Félix; Gillibert, Jean and Levin, Aaron, “Arithmetic Rank Bounds for Abelian Varieties over Function Fields,” *Israel Journal of Mathematics* (Accepted., Sept. 30, 2025)

## WORKING PAPERS

1. Akbary, Amir and Baril Boudreau, Félix, “Quadratic Euler-Kronecker constants in positive characteristic”, submitted. arXiv preprint arXiv: 2503.00288 (2025)
2. Baril Boudreau, Félix and Cristian Garay, “Idempotentization of Affine Schemes and Sheaves” arXiv preprint arXiv: 2304.04872 (2024)
3. Baril Boudreau, Félix and Petersen, Sebastian, “Abelian varieties with homotheties”, work in progress.
4. Baril Boudreau, Félix; Benoist, Alexandre and Kieffer, Jean, “The asymptotic distribution of Elkies primes for abelian varieties over finite fields”, work in progress.

## SELECTED ACADEMIC HONOURS AND GRANTS

September 2022-April 2024 - PIMS Postdoctoral Fellowship

May 2019-April 2021 - NSERC Postgraduate Scholarship-Doctoral program (PGS D)

## SELECTED PRESENTATIONS

### CONFERENCES

Baril Boudreau, F. “Abelian varieties with homotheties”. Maine-Québec Number Theory Conference, University of Maine, USA, 2025, Baril Boudreau, F., “Quadratic Euler-Kronecker constants in positive characteristic”. Journées Arithmétiques, Université du Luxembourg, Luxembourg, 2025, Baril Boudreau, F. “Cyclotomic-Kummer extensions of function fields”. Jornadas de Teoría de Números, Madrid, Spain, 2024, Baril Boudreau, F., “Arithmetic rank bounds for abelian varieties over function fields”. Monodromy and Its Applications-Conference on the of Nicholas Katz’s 80<sup>th</sup> Birthday, Princeton University, USA, 2023.

### SEMINARS

Baril Boudreau, F. “Variétés abéliennes avec homotheties”. Université de Lille, France, 2026, Baril Boudreau, F. , “Arithmetic Rank Bounds for Abelian Varieties over Function Fields”. Universität Kassel, Germany, 2025.

## PROFESSIONAL ACTIVITIES

*Conference organizer:* 33<sup>rd</sup> edition of Journées Arithmétiques (Local organizer, University of Luxembourg, June 30 to July 5, 2025), Luxembourg Number Theory Days (University of Luxembourg, December 18, 2024), Early career research in number theory session, Canadian Mathematical Society Summer Meeting (University of Saskatchewan, June 1-2, 2024), Alberta Number Theory Days XV conference (BIRS in Banff, Canada, March 22 to 24, 2024). *Seminar organizer:* Luxembourg Number Theory Seminar (University of

Luxembourg, October 2024 to June 2025), Lethbridge Number Theory and Combinatorics Seminar (September 2022 to April 2024) (University of Lethbridge).