

Martin DEBAISIEUX

PHD STUDENT IN MATHEMATICS

UMONS, Bâtiment De Vinci, Avenue Victor Maistriau, 17, 7000 Mons, Belgium

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Education

University of Mons (UMONS)

Mons, Belgium

PHD IN MATHEMATICS

2023 - 2027

- Funded by the [FRIA](#) of the [F.R.S.-FNRS](#) (Research Fellow grant)

University of Mons (UMONS)

Mons, Belgium

MASTER'S IN MATHEMATICS: RESEARCH FOCUS

2021 - 2023

- *Summa cum laude*

University of Mons (UMONS)

Mons, Belgium

BACHELOR'S IN MATHEMATICS

2018 - 2021

- *Magna cum laude*

Publications

ACCEPTED

Martin Debaisieux, **Lubin's conjecture for height-one p -adic dynamical systems over $p(p-1)$ -tame extensions**. Bulletin of the London Mathematical Society (to appear). [[arXiv](#)]

PREPRINTS

Martin Debaisieux, **Lubin's conjecture for height-one p -adic dynamical systems**. arXiv (2026). [[arXiv](#)]

Martin Debaisieux, **Integrality of height-one formal groups**. arXiv (2026). [[arXiv](#)]

Presentations

2025 The Tate module of a height-one tamely ramified p -adic dynamical system,
SLAAG! Séminaire de Logique, Algèbre, Arithmétique et Géométrie

Belgium

Research Experience

PhD Thesis, UMONS

Mons, Belgium

SUPERVISOR: [MAJA VOLKOV](#)

October 2023 - Present

- Title: "Crystalline periods attached to dynamical systems"

Master's Thesis, UMONS

Mons, Belgium

SUPERVISOR: [MAJA VOLKOV](#)

September 2022 - June 2023

- Title: "Systèmes dynamiques p -adiques"

Research initiation internship, UMONS

Mons, Belgium

SUPERVISOR: [GIOVANNI BOSCO](#)

July 2021

- Subject: Infinite Galois theory and Galois cohomology

Teaching Experience

2025 - 2027 Algebraic Geometry Project (4th year), Teaching assistant

UMONS

2023 Calculus I, Student teaching assistant

UMONS

2022 - 2023 Linear Algebra and Geometry I (1st year), Student teaching assistant

UMONS

2022 - 2023 Algebra I (1st year), Student teaching assistant

UMONS

Awards & Grants

- 2023 - 2027 **Research Fellow grant**, [FRIA](#) of the [F.R.S.-FNRS](#)
2023 **Maurice Boffa Award**, UMONS

Attended Research Events

- 2026 **Flatland Arithmetic (48th)**, ULCO, September 21 *France*
Serre 100, IHP, September 15 - September 16 *France*
Séminaire d'arithmétique à Lyon, ENS Lyon, March 26 *France*
Flatland Arithmetic (46th), ULille, March 16 *France*
Jacques Tits Chair 2025 (BMS), KU Leuven & UMONS, March - April *Belgium*
- 2025 **Recent Breakthroughs in Mathematics 2025 (BMS)**, ULB, December 17 *Belgium*
Flatland Arithmetic (45th), VUB, December 15 *Belgium*
Arithmetic Geometry Preprint Seminar, IMJ-PRG, October 8 *France*
Flatland Arithmetic (44th), KU Leuven, September 22 *Belgium*
33^{èmes} Journées Arithmétiques, Uni.lu, June 30 - July 4 *Luxembourg*
Iwasawa Theory and Rep. of p-Adic Groups, ULille, June 18 - June 20 *France*
Young Scholar Day 2025 (BMS), KU Leuven, June 3 *Belgium*
Flatland Arithmetic (43rd), ULille, March 17 *France*
- 2024 **Recent Breakthroughs in Mathematics 2024 (BMS)**, ULB, December 18 *Belgium*
Flatland Arithmetic (42nd) & INTS, UU, December 13 *The Netherlands*
Flatland Arithmetic (41st), ULCO, September 30 *France*
Flatland Arithmetic (40th), ULille, June 24 *France*
Junior Algebraic Geometry Seminar, UAntwerp, March 22 *Belgium*
Flatland Arithmetic (39th), KU Leuven, February 5 *Belgium*
- 2023 **Young Scholar Day 2023 (BMS)**, VUB, December 20 *Belgium*
Groupe de contact FNRS - Analyse Fonctionnelle, UMONS, June 12 *Belgium*
Après-midi d'analyse, UMONS, March 9 *Belgium*
- 2022 **Flatland Arithmetic (35th)**, ULille, December 12 *France*
Flatland Arithmetic (34th) & INTS, UU, September 23 *The Netherlands*
- 2021 **Après-midi d'analyse**, UMONS, October 15 *Belgium*

Student Supervision

- July 2025 **Chelsea Brohet**, on *Représentations linéaires des groupes finis*, Research initiation internship, 4 weeks *UMONS*

Outreach & Professional Development

SERVICE AND OUTREACH

- 2026 **Salon du lycéen et de l'étudiant 2026**, Representative of the Faculty of Science *Lille, France*

COUNCIL MEMBER

- 2025 - 2027 **Member of the Council of the Mathematics Department**, Representative of temporary personnel (PhD students and postdocs financed by research grants) *UMONS*

Languages _____

French: native

English: upper intermediate

Programming skills _____

Python, Java, LaTeX, SQL, Scheme

Miscellaneous _____

European driving license B