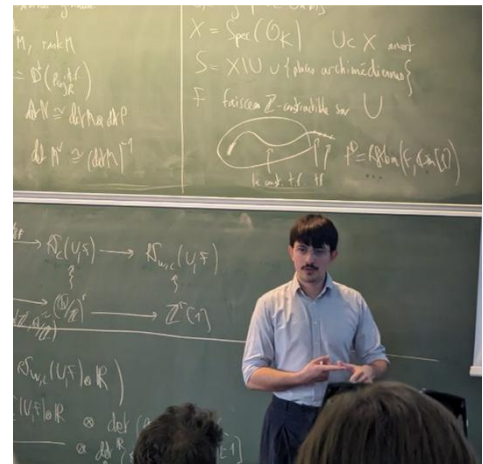


Adrien MORIN

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## Academic appointments

- 01/08/2023 – 31/07/2026: **Postdoc in Mathematics**. University of Copenhagen, Denmark.
- 01/01/2023 – 30/06/2023: **Teaching and Research Assistant in Mathematics**. Université de Bordeaux, France.
- 01/09/2019 – 27/06/2023: **PhD in Mathematics**. Institut de Mathématiques de Bordeaux, France. PhD thesis: *Weil-étale cohomology in dimension 1 and special values of L-functions at 0 and 1*. Advisor: Baptiste Morin.
- 05/2017 – 06/2017: **Research internship (9 weeks)**. Karlsruher Institut für Technologie, Germany. *Elliptic curves cryptosystems* under the supervision of Wili Geiselmann.

## International Network and Relations

### Collaborations:

- Ongoing collaboration with **N. Ramachandran** (University of Maryland), **B. Morin** (Université de Bordeaux) and **L. Hyslop** (UCLA) on interpreting special values of L-functions in terms of prismatic cohomology.
- Joint article with **T. Suzuki**, in preparation, on *Constructible tori and special values at  $s=1$* .

### Research Stays:

- **University of Maryland (USA), 1-15 June 2025.**
- **University of Maryland (USA), November-December 2023.** This led to the above collaboration with N. Ramachandran, B. Morin and L. Hyslop.
- **University of Copenhagen (Denmark), November-December 2022.**

## Teaching and supervision

## Teaching experience:

- **2024 – 2025.**
  - “Algebraic Geometry 2”, lectures (20h).
  - Online lectures for the **4EU+ program** “Bachelor in Mathematics Student Task” on *p-adic numbers and applications* (30h). Design of the lessons and exercises, writing of typed lecture notes.
- **2023 – 2024.**
  - “Algebraic Geometry 2”, exercise sessions and design of the weekly exercise sheets and problem sheets (27h).
  - “Topics in Mathematics for the Traveling Student”, lectures in French for Danish students (16h).
- **2023 (96h).** “Linear Algebra”, exercise sessions for first-year students. “Algebra 1”, exercise sessions for second-year students, and **translation of the lecture notes from French to English.**
- **2019 – 2021 (128h).** “Mathematical bases for sciences”, course for first-year students. “Mathematical algorithms in algebra”, exercise and programming sessions (in SageMath) for third-year students. “Mathematics for biologists”, course for first-year students.

## Supervision:

- **2025.** Supervision of a master’s student on *Tate’s thesis: Fourier analysis in number fields, and Hecke’s zeta functions.*
- **2024.** Supervision of a BSc student on *Hilbert’s 10<sup>th</sup> problem* (18h).

<b>Research talks</b>
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## Invited talks:

- 30/05/2024: **N-cube Days XX**, UiT The Arctic University of Norway.

## Seminar talks:

- 06/02/2025: Number Theory seminar, **Université de Strasbourg.**
- 04/02/2025: Number Theory seminar, **Université de Franche-Comté.**
- 12/12/2024: Number Theory seminar, **Université Grenoble Alpes.**
- 10/12/2024: Number Theory seminar, **Université Clermont Auvergne.**
- 06/12/2024: Number Theory seminar, **Université de Bordeaux.**
- 10/09/2024: Algebra & Geometry seminar, **University of Copenhagen.**
- 06/08/2024: Number theory day, **University of Copenhagen.**
- 20/01/2023: Number Theory seminar, **Université de Bordeaux.**
- 11/11/2022: Number Theory seminar, **University of Copenhagen.**

## Fellowships and grant writing

- **Marie Curie Postdoctoral Fellowship Application (2023):** Scored 89/100, although not awarded.
- **PhD fellowship** “contrat doctoral spécifique Normalien” (2019-2022).

## Organizational experience

- 02/2022 – 07/2022: **Learning group** on condensed mathematics, **co-organizer**.
- 10/2020 – 06/2021: **Learning group** on local class field theory, **co-organizer**.

## Outreach

- In 2023, I proposed two research activities for **Maths.en.Jeans** at **Prins Henrik Skole** (Copenhagen), where lower secondary education students engaged in mathematical research, supervised by their teachers.

## List of publications

### Published:

- *Special values of L-functions on regular arithmetic schemes of dimension 1.* Journal of Number Theory **243** (2023), pp. 412 – 474. DOI: 10.1016/j.jnt.2022.07.002
- *Tori over number fields and special values at  $s=1$ .* Doc. Math. **28** (2023), no. 1, pp. 173–260. DOI: 10.4171/DM/906

### Unpublished:

- *Weil-étale cohomology and the ETNC for constructible sheaves in characteristic  $p$ .* Available at <https://arxiv.org/abs/2411.07896v1>.
- *Constructible tori and special values at  $s=1$ .* Joint with T. Suzuki. In preparation.

## Education

- 2015-2019: « **Magistère de Mathématiques** ». « Élève fonctionnaire stagiaire » (civil servant student) at the École Normale Supérieure de Rennes (France).
- 2018-2019: **Master 2 Algebra, Geometry and Number Theory, with distinction.** Université de Bordeaux, France.
- 2018: **Ranked 28th at the « Agrégation de mathématiques »**, the French national recruiting exam for teachers in secondary education.
- 2016-2017: **Master 1 Mathematics and applications.** Université de Rennes 1, France.

- 2015-2017: **Bachelor of Computer Science, with honors.** Université de Rennes 1, France.
- 2015-2016: **Bachelor of Mathematics, with distinction.** Université de Rennes 1, France.

<b>Language proficiency</b>
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| <ul style="list-style-type: none"><li>• French: mother tongue.</li><li>• English: C1.</li></ul> | <ul style="list-style-type: none"><li>• German: B2.</li><li>• Danish: A2.</li></ul> |
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