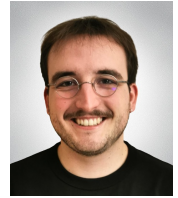


Alexis Guérin

✉ alexis.guerin@uca.fr
🌐 <https://aguerin.pages.math.cnrs.fr/>



Educational background

- 2024 – ... **PhD thesis** Clermont-Ferrand (France)
- 2023 – 2024 **Master's in Research** Strasbourg (France)
- 2020 – 2024 **École Normale Supérieure (ENS)** Rennes (France)
- 2017 – 2020 **CPGE (Preparatory Classes for Grandes Écoles)** Lille (France)

Degrees

- 2024 **Degree from ENS Rennes**
ENS of Rennes (France)
- Master's in Fundamental Mathematics**
Strasbourg University (France), grade : 15.242/20
- 2023 **Agrégation of mathematics**
Rank : 74th
- Master's in mathematics for teaching**
Rennes University (France), grade : 15.685/20
- 2021 **Bachelor's degree in mathematics**
Rennes University (France), grade : 17,408/20
- 2017 **Baccalauréat scientifique**
Grade : 19,42/20
- 2015 **Cervantes certification** (Spanish).



Skills

- Language **French** (native), English (read, written, spoken), Spanish (B1).
- Programming language **LaTeX**, Python, Ocaml, SQL.



Stages

- 2024 **Master's thesis (M2)** in knot theory.
Study of symmetries of equivariant Khovanov–Rozansky homology.
Under the supervision of Emmanuel Wagner (IMJ-PRG) and Louis-Hadrien Robert (UCA).
- 2022 **Master's internship (M1)** in geomery.
Study of Minkowski space and its connections with various geometries.
Under the supervision of Frédéric Rochon (CIRGET Montréal).
- 2021 **Bachelor's internship (L3)** in knot theory.
Study of the Jones polynomial and Khovanov homology.
Under the supervision of Alexis Virelizier at Paul Painlevé Laboratory (Lille 59).



Conferences/Seminars

- 2024  **PhD Students' Seminar at Clermont-Auvergne University.**
Title of the presentation : "Links between braids and links II"
- 2022  **Interns' Seminar at UQAM (Université du Québec à Montréal).**
Participation and organization of the UQAM summer interns' seminar.
Title of the presentations : "An Introduction to Knot Theory : The Jones Polynomial" and "Minkowski Space in Geometry and Physics."



Enseignements

- 2025  **Outils maths 2** 12 hours (Clermont-Ferrand)
- 2024  **Outils maths 1** 48 hours (Clermont-Ferrand)

Vulgarisation activities

- 2024 - 2025  **Les cordées de la réussite**
Organization of outreach days for high school students.
- 2020 - 2021  **RJMI** (Rencontre des jeunes mathématiciennes et informaticiennes).
Mathematical outreach for high school women.

Autres

- 2021-2022  Secretary of the Arts Office at ENS Rennes.
- 2017  Driver license.