

Léo Ackermann

Curriculum Vitæ (on September 2024)

Curriculum

- sept.2024-2027 **PhD student** (Karel BŘINDA (Inria, Irisa, Rennes) & Pierre PETERLONGO (Inria, Irisa, Rennes)): Developing efficient algorithms for sublinear search in large genome databases.
- 2022-april 2024 **PhD student** (Adeline ROUX-LANGLOIS (CNRS, Greyc, Caen) & Alexandre WALLET (Inria, Irisa, Rennes)): Hardness and use of the *Module Learning With Errors* problem in lattice-based cryptography.
- 2019-2022 **Magistère**, *École Normale Supérieure de Rennes (computer science department)*, Rennes, France.
- 2020-2022 **Master of science (computer science)**.
 - **Second year**. M2-MPRI, *Université de Paris (computer science department)*, Paris, France.
 - **First year**. M1-SIF, *École Normale Supérieure de Rennes (computer science department)*, Rennes, France.
- 2019-2020 **Bachelor of science (computer science)**.
 - **Third year**. L3-SIF, *École Normale Supérieure de Rennes (computer science department)*, Rennes, France.
- 2017-2019 **Preparatory classes (MPSI/MP), computer science specialization**, *Lycée Henri Poincaré*, Nancy, France.
- 2017 **Baccalauréat, série S (science stream)**, *Lycée Henri Loritz*, Nancy, France.

Publications

- Conferences Ackermann, L. *et al.*: Public-Key Encryption from the Lattice Isomorphism Problem, *Workshop in Codes and Cryptography* (rank B conference), 2024.
- Journals **(To appear)** Ackermann, L. *et al.*: Public-Key Encryption from the Lattice Isomorphism Problem, *Design, codes, and cryptography*, 2024.

Teaching experience

- april - june 2024 **Mathematics and computer science teacher in highschool**, Lycée Chateaubriand, Rennes.
- 2023-2024 **University vacations**, Université de Rennes, Rennes.
 - Introduction to cryptography (Lectures + tutorials, L3),
 - Low-level programming (Labs + project, M1),
 - Proofs of security (Tutorials + material, M2).
- 2022-2023 **University vacations**, Université de Rennes, Rennes.
 - Algorithmics (Tutorials, L3),
 - Introduction to cryptography (Tutorials, L3),
 - Proofs of security (Tutorial + Material, M2),
 - Preparatory classes to secondary-school teaching diploma (Tutorials + oral exams + material, M2).
- june 2022
 - Unplugged computer science popularization event for highschool students (Journées MathC2+),
 - Preparatory classes for ENS's algorithmic lab exam.
- may 2020 Unplugged computer science popularization event for elementary school students.
- 2018-2019 Private lessons in mathematics and physics (A-level).

Obligations

- 2019-2022 Class representative.
- 2020-2021 Vice president of the Bureau des Arts of the *École Normale Supérieure de Rennes* (cultural student association).

Languages

French, mother tongue. **English**, fluent (CECRL: B2/C1). **Spanish**, bases (CECRL: A2/B1).

Centers of interest

- Informatics Bioinformatics, information theory, complexity theory, cryptography, quantum algorithmics.
- Others Boulderling, popularization, graphic novels, board games.