Antoine Bak

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PROFILE

In September 2024, I started a Ph.D. in the project-team COSMIQ in the INRIA of Paris under the supervision of Anne Canteaut and Léo Perrin. I am currently working on symmetric cryptology and more precisely on primitives optimized for use in advanced protocols.

EDUCATION

Master Parisien de recherche en informatique (MPRI)   2023-2024
Research-oriented master in computer science
- cryptology, quantum algorithms and computer algebra
- learn about the state of the art of research in those fields

École polytechnique   2020-2023
Majoring in mathematics and computer science
- algebra, number theory, algebraic geometry
- cryptology, error correcting codes

Lycée Kléber, Strasbourg   2018-2020
Classe préparatoire MPSI - MP*
A two-year intensive university-level preparation in mathematics and physics
to prepare for highly competitive nationwide exams

EXPERIENCE

Research internship   03/2024-08/2024
INRIA Paris
- symmetric cryptology under the supervision of Léo Perrin
- cryptanalysis of *Arithmetization-oriented* primitives

Research internship   04/2023-08/2023
DTU, Copenhagen
- cryptology, advanced protocols under the supervision of Luisa Siniscalchi
- study of *zero-knowledge proofs* protocols and their applications to *multi-party computation*

Internship in a Research & Development service   06/2022-09/2022
Sysnav
- developing algorithms for calibrating magnetic sensors
- algorithmics, optimization

Internship in the French coast guards   09/2020-04/2021
Cherbourg-en-Cotentin
- Internship as a military officer

TEACHING

Tutoring in mathematics   2022-2023
Bachelor of Science, École Polytechnique