



**Arthur
Moindrault--Cailleau**

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<https://github.com/Fairdz>

Languages :

French : Native language
English : Level ~B2 (two-week language course in Oxford, summer 2024)

Known languages :

OCaml C Python C++

Readings :

Anneaux, corps, résultants (Ulmer)
Introduction to quantum computing (Hui Yung Wong)
Mécanique quantique (Cohen-Tannoudji)
Compilers (Aho et al.)
Algorithms (Erickson)
Complexité Algorithmique (Perifel)
Type Theory and Formal Proof (Nederpelt & Geuvers)

About me

I am interested in cryptography and quantum computing. Quantum cryptography is therefore one of my field of interest, as well as error-correcting codes. Finally, I enjoy compilation, and I am pleased to use it in some of my projects.

Education

ENS Rennes

2025 – Now

1A (year 2025-2026)

Options : Optimisation, Lebesgue integration, Groups theory, Cryptography, Rings and arithmetic.

Computer Science and Mathematics track (Third-year Bachelor's degree in Mathematics taken alongside Computer Science, in two years)

CPGE, Lycée Louis Thuillier, Amiens

2023 – 2025

MPI* (year 2024-2025)

Mathematics : 1st, Computer Science : 1st, with highest honors

MP2I (year 2023-2024)

Mathematics : 2nd, Computer Science : 1st, with highest honors

Lycée Marie Curie, Sceaux

2020 – 2023

Specializations : Mathematics and NSI (Computer Science)

French General Baccalaureate, with highest honors

(*Mathematics : 20/20, NSI : 20/20*)

My Projects

During my year in MPI*, I realised a TIPE (supervised personal initiative work) on modeling natural landforms using Perlin noise. My part focuses mainly on pseudo-random numbers generation, and statistical evaluation. ([Access the archive](#) via my Github)

I also realised a transpiler from C to OCaml, which allowed me to take a first step on the world of compilation. This transpiler works on a small subset of OCaml language. However, it implements a typing system compatible with C. ([Access the archive](#) via my Github)