

LOUP LOBET

Inria Lille, Office B213
+33 6 34 69 46 20 ◊ loup.lobet@inria.fr

EDUCATION

Inria Lille / CRISAL

2025 - present

Phd student

Supervised by Charles Paperman (ULille) and Laure Gonnord (Grenoble INP-UGA)

Compilation of a domain-specific language based on vectorial circuits into optimized SIMD code

Grenoble-INP ESISAR, UGA

2020 - 2025

Master's Degree in *Computer Science and Networks*

Exchange semester, Linköping University

sept 2023 - jan 2024

TOEIC 930

Lycée Saint-Ambroise, Chambéry

2020

Scientific Baccalaureate (Engineering Sciences), with Highest Honors

Ancient Greek option

EXPERIENCE

Inria Lille

March 2025 - July 2025

Master research internship

- *SIMD hardware optimization for data processing and applications in the Vizitig project,*
- Supervised by Charles Paperman (ULille) and Laure Gonnord (Grenoble INP-UGA)
- Implementation of SIMD parsing algorithm based on vectorial circuits, using Rust and Intel intrinsics
- Martayan I., Lobet L., Marchet C., Paperman C. (2026). Helicase: Vectorized parsing and bitpacking of genomic sequences. bioRxiv. <https://doi.org/10.64898/2026.03.19.712912>

RELEVANT COURSES

Core Courses

Operating systems

Compilation

Advanced networking

System architecture

Programming

Other Courses

Real time systems

Multicore and GPU programming

TECHNICAL

Programming

C, Rust, Go

Hardware specific

Vectorisation and SIMD programming on Intel and AMD platform

Network

Unix sockets, HTTP, 9P

Operating systems

OpenBSD, GNU/Linux, Plan 9

EXTRA-CIRRICULAR

Interest for research operating systems, system programming, and programming languages

Bodybuilding

Saltwater and freshwater fishing

Trading card game: *Magic The Gathering*