LOUP LOBET

Inria Lille, Office B213
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EDUCATION

Inria Lille / CRIStAL *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	**Other Courses**
Operating systems	Real time systems
Compilation	Multicore and GPU programming
Advanced networking	
System architecture	
Programming	

TECHNICAL

Programming	C, Rust, Go
Hardware specific	Vectorisation and SIMD programming on Intel and AMD plateform
Network	Unix sockets, HTTP, 9P
Operating systems	OpenBSD, GNU/Linux, Plan 9

EXTRA-CIRRUCULAR

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

Bodybuilding

Saltwater and freshwater fishing

Trading card game: *Magic The Gathering*