

Sidonie Bouthors

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[LinkedIn](#)

I am a Master student studying Computer Science at EPFL, passionate about compiler design, formal methods and systems.



EDUCATION

Master in Computer Science | EPFL, Switzerland

2024 - Present

Focus: Compiler design, Formal methods, Systems

Current Grade: 5.7/6

Bachelor in Computer Science | EPFL, Switzerland

2021 - 2024

Grade 5.5/6

PROJECTS & EXPERIENCE

Semester Project - [Lorikeet](#) | [SYSTEMF Lab](#), EPFL

2025 - Present

Scala AST, SemanticDB

Developed an automated Scala refactoring tool using Scalafix and a custom DSL, to provide personalized code quality feedback to students at scale.

Contribution to Stainless | [LARA Lab](#), EPFL

2025 - Present

Scala AST, Formal Verification

Added support for pattern alternatives in Stainless ([#1627](#)).

Infrastructure Manager | [Software Construction \(CS-214\)](#), EPFL

2023 - 2025

Scala, Docker, GitLab CI/CD

Maintained and improved infrastructure for automated grading and computerized exams, for a course of 420 students that teaches Scala, functional programming and software engineering. Obtained the EPFL IC School **Distinguished Student Assistant Award 2025**.

Student Assistant | [Computer Language Processing \(CS-320\)](#), EPFL

2025 - 2026

Compiler Design, Scala

Student Assistant | [Fundamentals of Digital Systems \(CS-173\)](#), EPFL

2024

Verilog, RISC-V

VOLUNTEERING

IT Manager | [CLIC](#), EPFL

2023 - Present

System Admin, Web Dev, Team Leadership

Managed a self-hosted infrastructure with over 15 services for 40+ users.

Committee Member | [Students 4 Students](#), EPFL

2022 - 2024

Communication manager - Human resources - Course content developer

Organized a pre-entry academic week for 800 new bachelor students at EPFL.

SKILLS

Primary Languages: [Scala](#), Rust, C/C++, Java

Formal Methods: Rocq, Lean, Stainless (Scala)

Hardware & Systems: eBPF (Aya), RISC-V

Sysadmin: Docker, Shell, GitLab & GitHub CI/CD

App/Web Dev: HTML/CSS, NextJS (React),

Jetpack Compose (Kotlin)

Languages: French (Native), English (Bilingual), German (B1)