

# Jacopo Philip Moretti

*IN MA1 student at EPFL, with interests in theorem provers, formal verification, and languages, both natural and programming.*

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Ecublens

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github

## Academic

MSC IN COMPUTER SCIENCE - EPFL

2024 - 2026

Pursuing a Master's Degree in Computer Science at the *Ecole Polytechnique Fédérale de Lausanne* (EPFL), with projected end in the year 2026. Fields of interest: Theorem Proving, Large Language Models.

BSC IN COMPUTER SCIENCE - EPFL

09.2021 - 07.2024

Bachelor's degree in Computer Science from the *Ecole Polytechnique Fédérale de Lausanne* (EPFL). Fields of interest: Programming Language Design, Theorem Proving.

Relevant courses include:

- ▷ *Algorithms* (CS250): Introduction to data structures, runtime analysis, and algorithm design. *Completed (5/6)*
- ▷ *Functional Programming* (CS207): Introduction to functional programming concepts, recursion analysis, symbolic and theoretical computer science. *Completed (5.75/6)*.
- ▷ *Computer Language Processing* (CS320): Understanding the compiler pipeline, implementing its main steps in the Scala programming language. *Completed (5.5/6)*.
- ▷ *Logique Mathématique* (MATH381): Basic model and proof theory, set axioms, syntax and semantics in first order logic. *Passed*.
- ▷ *The Software Enterprise - from ideas to products* (CS311) : Collaborative programming, both technical (`git`) and social (Agile programming, SCRUM ceremonies). Scored "Best Project" award with the ActualIA, an LLM-powered news aggregator. *Completed (4.75/6)*.

FRENCH BACCALAURÉAT

June 2021

*Mention Très Bien avec Félicitations du Jury* du Lycée Chateaubriand de Rome (18.06/20). Obtenu en même temps que l'*Esame di Stato* (100/100 avec *Félicitations*).

## Professionnel

ASSISTANT ÉTUDIANT :: SOFTWARE CONSTRUCTION

Fall 2023

Student assistant under Prof. Pit-Claudel, Prof. Odersky and Prof. Kunčák. Gained experience in assisting students, answering student questions on the forum and explaining concepts on blackboard. Implemented workflow for course recording and video editing.

ASSISTANT ÉTUDIANT :: STUDENTS 4 STUDENTS

2022, 2023

Student assistant for the association *Students 4 Students*: helped with the conception of classes and problem sets in Calculus, Linear Algebra and Discrete Mathematics, and tutored in exercise sessions.

TECHNICAL MANAGER :: FRÉQUENCE BANANE

May 2022 - May 2024

Committee member tasked with maintaining the technical (audiovisual and computer) infrastructure of an 80+ member student radio. Gained knowledge in writing code for large scale and long term use, managing a technical team, and audio engineering.

PROFESSEUR DE SOUTIEN

2021-2023

Private tutoring in Mathematics, Physics, Computer Science and French Language and Literature to teens of high school age and up.

## Compétences

**Mathematics** Self-taught practice of the Coq interactive theorem prover. Particular interest in the fields of algebra and number theory, as well as model and proof theory.

**Programming** Object oriented and functional programming, as well as basics of web frameworks. Languages (*in order of proficiency and preferred usage*): Scala, Rust, Python, C, Java.

**Teaching** LaTeX/Typst typesetting, course conception (theory, exercices), tutoring.

**Languages** Italian: Native  
French: Fluent  
English: Fluent