

# Salomé Lavine

23 years old (15.03.2001)

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## Education

### EPFL - École Polytechnique Fédérale de Lausanne

2019 – on going

Master of Energy Science and Technology Engineering    Bachelor in Mechanical Engineering

- **Master Courses:** Applied Data Analysis, Power System Analysis, Life Cycle Assessment, Convex Optimization, Electrochemistry, Energy Conversion and Renewable Energy.
- **Bachelor Courses:** Control Systems, Electronic, Fondation of artificial intelligence, Vibrating Mechanics, Finite elements, Continuum mechanics, Heat and mass transfer, Compressible Fluid Dynamics, Solid Mechanics, Thermodynamics and energetics (I,II), Electromagnetism, Calculus (I,II,III,IV), Statistics and Probability, Fluid mechanics.

### Lycée - Ecole Alsacienne - High School, Paris, France

2016 – 2019

- Graduated Scientific Baccalauréat, specialization in physics and chemistry, option ancient grec Highest honours - *mention Très Bien*
- multiple international experiences : Humanitarian trip to Senegal - (1 week) 2017 ; Education and linguistic exchange in New York - (1 month) 2015 ; Education and linguistic exchange in San Francisco - (2 weeks) 2015

## Work experiences

### Teaching Assistant, EPFL

2022 – Present

- Algebra I - first years algebra courses
- Calculus I - first years calculus courses
- Physics II, Thermodynamics

Fall 2023 and Fall 2024

Fall 2022

Spring 2022

## Technical skills

**Software:** Python, Matlab, C, OpenLCA, L<sup>A</sup>T<sub>E</sub>X, Arduino (C++), Labview, CAD Catia.

**Conceptual skills:** laser cut, welding.

**Soft skills:** Innovation and Technical Curiosity, Proactivity, Collaborative Problem-Solving, Adaptability.

**Languages:** French: native, English: fluent, Italian: beginner.

## Academic Projects

### LCA - Course Project

Fall 2024

- Comparative LCA between plastic or cardboard plates for the EPFL campus using OpenLCA.

### The Da Vinci-inspired Design Challenge - Bachelor's Project

Spring 2023

- As a team of five, under the supervision of the Flex Lab, we explored one of Da Vinci's inventions in depth, developed a prototype using laser cutting, and questioned his theoretical results.

### Product Development and engineering design - Course Project

Fall 2023

- Worked as part of a four-member team to design and prototype a gripper which can detect metallic objects, it included electronics assembly (soldering), Arduino programming, mechanical design (CAD), and fabrication (3D printing, laser cutting).

## Associative Experiences

**Artiphys Festival:** Student organization for a music festival ; member then board committee (entertainment manager).

2022 – 2024

**Polyquity:** Student organization working towards gender equality in EPFL.

2022 - 2023

**Coaching:** Student organization for the first year integration ; Vice-President.

2020 - 2021

## Interests

Piano, Classical Dance, Windsurfing, Travelling.