

Marius Lhôte

Curriculum Vitae

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Education

- 2017–2021 **Maturité Gymnasiale - OS Biologie et Chimie**, *Collège Claparède*, Genève, Switzerland
○ Relevant coursework: Chemistry, Biology.
- 2021–Present **Bachelor in Communication Systems**, *EPFL*, Lausanne, Switzerland
Expected Graduation: 2025
○ First-year grade average: 5.43/6
○ Relevant coursework: Introduction to Machine Learning, Numerical Methods for Visual Computing and Machine Learning, Signal Processing, Analysis(I, II, III, IV), Probability and Statistics, Algorithm, electromagnetism.

Academic Projects

Machine Learning Projects, *Introduction to Machine Learning*

- Implemented in a team of 3 a linear regression, a logistic regression, a knn classifier from scratch in Python using NumPy.
- located centers and classified the Stanford Dogs dataset with an accuracy of 87%.
- Implemented in a team of 3 a MLP, a CNN and a ViT in Python using PyTorch.
- classified the Fashion MNIST dataset with an accuracy of 90%.

Copy of flightradar24, *Pratique de la Programmation Orientée Objet*

- Implemented a copy of flightradar24 in Java using JavaFX in a team of 2.
- learned about the Observer pattern, the MVC pattern, and how to use JavaFX.
- learned how to use the OpenStreetMap API to display a map.
- optimized the code to process planes data faster than real-time.

Personal Projects

Game of Life in GO

- Implemented Conway's Game of Life in GO using the Fyne library.
- Implemented an infinite grid that can be scrolled and zoomed.
- learned to write code and think about the architecture of the code without guidance.

Associative Experience

- November 2023–Present **Sponsorship Manager**, *EPFL Nuit de la Magistrale*
○ Secured sponsorships worth over CHF 20'000 increasing the event's budget by 10%.
○ wrote a mailer in Python to automate the sending of personalized emails to sponsors.
○ sent 1000 personalized emails to potential sponsors and received a 10% response rate.

Teaching and Peer Support Experience

- September 2023–December 2023 **Mentor**, *EPFL*
○ was responsible for 13 first-year students.
○ Provided guidance and support to help students adapt to university academic life.
○ Organized mentoring sessions to help students with their coursework.
○ Organized and gave a course on how to use Git to 100 students.
- February 2024–June 2024 **Teaching Assistant, MAN - Informatique et Calcul Scientifique**, *EPFL*
○ I was the only teaching assistant in a room of 10 students.
○ Helped students with their homework during every exercise sessions,
○ Responded to 20% of the students' questions on the course forum.

Skills

- Programming Languages Python, Scala, Java, GO, C
- Frameworks PyTorch, NumPy, Matplotlib, Scikit-learn
- Tools Git, Jupyter Notebook, Google Colab, yaml, LaTeX

Languages

- French Native
English Fluent