Louis
PIVRON

24/06/2002
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I'm a third-year Bio-engineering student at EPFL. I'm passionate about neuroscience and applying mathematical models to biology. I'm also curious about politics and philosophy. I play classical piano and practise some jazz improvisation for fun.

EDUCATION

Baccalauréat with maths and physics minors

Lycée Jean Dautet, France
2017 – 2020

Bachelor in Life Sciences

> mathematics : algebra, analysis, statistics and probabilities, numerical analysis
> engineering : physics, signal processing, electrical systems, fluid mechanics
> biosciences : biochemistry, cellular biology, physiology, neurosciences
> computer sciences : C++, Python, Julia, Machine Learning
EPFL, Switzerland
2020 – 2024

PROJECTS AND VOLUNTEERING

Python simulation for Turing Patterns

trying to visualize Turing patterns by solving a 2d version of the diffusion equation

Machine Learning semester project

testing and fine tuning models to describe an organic compound dataset and predict chromatography measurements

Helping promote democratic values at Discuss It
Leading podiums in Swiss schools with politicians and students allowing political debate

DIPLOMA AND CERTIFICATION

IELTS and EPFL certificate

C1 level certification for English oral and written expression and comprehension

WORK EXPERIENCE

Research Assistant

Bachelor's project conducted in Dr. Hilal Lashuel's laboratory for research on neurodegenerative diseases. The research project focused on understanding the cellular and molecular factors leading to the aggregation of huntingtin protein (htt), which is responsible for neurofibrillary degeneration within neurons in Huntington's disease.
Lashuel's Lab :
https://www.epfl.ch/labs/lashuel-lab/
EPFL, Switzerland
July 2023 – September 2023

Teaching Assistant

Supervised exercise sessions of $\approx$ 50 students for programming class in C++ and developed teaching skills along the way.
EPFL
academic year 2022

Scientific Communicator

Helped promote science during *Scientastic* festival by presenting educational modules on earth cycles related topics (water cycles, greenhouse effect, ...)
EPFL
April 2022

SKILLS & LANGUAGES

IT

●●● Python   ●●○ LaTeX
●●○ Git and GitHub   ●●○ electronic lab notebook

Languages

●●● French   ●●● English
●●○ Italian