Camil Hamdane

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LinkedIn
github.com/louiyo
Lausanne, Switzerland
French (Native, Citizen), English (Fluent), Spanish (Intermediate)

EXPERIENCES & PROJECTS

- **LLM fine-tuning for Natural and Man-made hazard processing**
  Personal project from a Kaggle competition
  RAG, Prompt-Engineering, OpenAI Function calling, **LLM fine-tuning** (Unsloth), Embeddings generation (Cohere & Hugging Face)
  Autumn 2024

- **Transfer Learning for precision medicine in cardio-vascular diseases**
  Industry internship at Metadvice SA
  Transfer Learning, Large Data Handling, **MongoDB**
  September 2022 - March 2023

- **Full-Stack JavaScript Developer**
  Freelance position
  React, Javascript, **Tailwind**, **NextJS**, Prisma
  Since June 2025

- **Digital human experiment for mental time-travel and one-shot learning**
  Master Thesis at Priestley Lab (EPFL)
  Behavioural neurosciences, Memory, **Unity C#** Human experiment design
  February 2024 - August 2024

- **Explainable AI for understanding task-driven artificial neural networks applied to the proprioceptive pathway**
  Lab Immersion in MATHIS-Lab, Geneva, with Prof. Mathis
  Tensorflow, Explainability, Brain modelling
  February 2022 - June 2022

- **Building an autonomous assistive device for safe at-home rehabilitation for Spinal Cord Injury patients**
  Semester project
  Jetson Nano, Raspberry Pi, Embedded Computer vision
  September 2021 - January 2022

- **Assessing the rise of hate speech in the US with a corpus of quotation in newspapers**
  Within the scope of CS401 - Applied Data Analysis
  NLP, Sentiment Analysis, Pandas, Data Analysis
  October 2021 to December 2021

- **Object-oriented programming course in C++**
  Student Assistant
  February 2024 - June 2024

PUBLICATION

- **ML to Optimize Statin Therapy using Real-World Primary Care Outcomes**
  Andrew Krentz, Lisa Fournier, Thomas Castiglione, Vasa Ćurčin, **Camil Hamdane,** *Tianyi Liu, André Jaun*

EDUCATION

- **MSc Life Sciences - Minor in Computational Neurosciences**
  École Polytechnique Fédérale de Lausanne
  September 2020 - September 2024

- **BSc Life Sciences**
  École Polytechnique Fédérale de Lausanne
  July 2020

- **French Scientific Baccalaureate**
  Lycée Van Gogh, Ermont
  Specialization in Mathematics
  July 2017

SKILLS

- **Programming Languages**
  Python, C++, C# (+Unity), React Native, R, MATLAB, TeX

- **Patterns & Practices**
  Object Oriented Programming,
  Advanced Machine Learning
  Large Language Models (LLMs)
  Large Data Handling
  Neural simulation paradigms
  Document-Oriented Database

- **Project Management**
  Google Workspace, Git

HOBBIES & INTERESTS

- **Acoustics, sound engineering and woodworking**
  Making high fidelity speakerboxes

- **Event organizer**
  Hosting of electronic music events in Switzerland

EXTRA-CURRICULAR ACTIVITIES

- **Castor Freegan - Presidency**
  Organizing community meals from food waste on campus
  September 2019 to June 2024

- **Unipoly - Logistics**
  Sustainability Association at UNIL-EPFL
  September 2021 to September 2022

- **Supernova - Logistics**
  Inclusivity and alternative culture event at EPFL
  September 2019 to September 2022

- **Ondes Libres - Webradio host**
  Risk reduction and inclusivity in electronic music events
  Since September 2023