



CONTACT

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- London, United Kingdom

LANGUAGES

- French:** Native language
- English:** Proficient
- German:** B2

SKILLS

- Python** 5+ yrs
- Microsoft Office** 5+ yrs
- C, C++** 2+ yrs
- Machine Learning** 3+ yrs
- SQL, spark, AWS** 1+ yrs

ASSOCIATIVE ACTIVITIES

- EPFL Formula Student:** Implemented the Telemetry using LabView and an sbRIO for the electric car of the EPFL Racing Team
- Coaching EPFL:** Event organization

HOBBYS

- Ski/Ski touring**
- Basketball**
- Kitesurf**

DARIO BOLLI

Graduate Master Student - ETHZ - Signal Processing and Machine Learning

EDUCATION

- Research Assistant** 2022 - 2023
Imperial College London - United Kingdom
- Master - Signal Processing and Machine Learning** 2020 - 2023
ETH - Zürich, Switzerland
- Bachelor - Electrical Engineering** 2017 - 2020
EPFL - Lausanne, Switzerland

WORK EXPERIENCE

- Research Assistant** Feb 22 - Jul 22
IBM Research, Zürich
In the fast-paced environment of the In-Memory computing lab, my role was to research into reducing the computational cost of Convolutional Neural Networks. Exploiting Hyper-dimensional computing properties, a superposition approach was proposed allowing to reduce by 2 the numbers of operations needed for an image classification task while maintaining a reasonable accuracy (see contribution to MI-MONets (*NeurIPS 2023*))
- Test coder Pisa** Jun 21 - Jul 21
SRED, Geneva State
Worked at the Geneva State's Educational Research Department for the OECD's Programme for International Student Assessment. My role involved assessing the mathematics and science education level of Swiss students.
- Assistant Engineer** Jun 17 - Sep 17
Triform SA, Lausanne
Engaged in field-based stream measurements and modelling.

PROJECTS

- Master Thesis - Computational Model of Motor Learning in a Real-World Task** May 23 - Nov 24
Tools: PyTorch, Scikit-learn, Pandas, Numpy, Matplotlib
Developed computational models that effectively capture key aspects of the underlying mechanisms of sensorimotor adaptation in real-world tasks. This work establishes a foundation for addressing the detection and rehabilitation of neurodegenerative diseases.
- Deep Hedging** Sep 21 - Dec 21
Tools: Tensorflow, PyTorch, Pandas, Numpy, Matplotlib
Implemented several deep learning algorithms for time-series forecasting to enhance financial risk management strategies.
- Deep Learning for Autonomous Driving** Feb 21 - Jun 21
Tools: PyTorch, Pandas, Numpy, Matplotlib
Multi-task learning for semantics and depth estimation on images collected by 2 cameras mounted on a car, and 3D Object Detection from a Point Cloud gathered by a Lidar.
- Personal Website** Sep 22 - Oct 22
Tools: HTML, CSS
browse to see more projects