

CONTACT

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Dario Bolli

homepage

+41 78 935 03 98

Swiss, French

LANGUAGES

French: Native English: Fluent German: B2

SKILLS

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

ASSOCIATIVE ACTIVITIES

EPFL Formula Student: Telemetry implementation for the electric car using LabView and a sbRIO

Coaching EPFL: Event organization

HOBBYS

Ski/Ski touring **Basketball Kitesurf**

DARIO BOLLI

ETH Zurich Graduate, Machine Learning, Signal Processing and Neuroscience

WORK EXPERIENCE

Research Data Scientist

Champalimaud Foundation, Lisbon

· At the Neural Circuits Dysfunction lab, I am responsible for the analysis of calcium imaging and behavioural data to uncover biomarkers of dystonia.

Research Intern

IBM Research, Zurich

· At the Neuromorphic computing lab, my role was to research ways to reduce the computational cost of Convolutional Neural Networks by exploiting Hyper-dimensional computing properties. A superposition approach was proposed allowing to reduce by 2 the number of operations needed for an image classification task while maintaining a reasonable accuracy.

Test coder Pisa SRED, Geneva State

Jun - Jul 2021

Jun - Sep 2017

2022 - 2023

2020 - 2023

2017 - 2020

Present

Feb - Jul 2022

· Worked at the Geneva State's Educational Research Department for the OECD's Programme for International Student Assessment. My role involved assessing the education level in mathematics and science of Swiss students.

Assistant Engineer

Triform SA, Lausanne

· Engaged in field-based stream measurements and modelling.

EDUCATION

Research Assistant

Imperial College London - United Kingdom

Master - Signal Processing and Machine Learning

ETH Zurich - Switzerland

Bachelor - Electrical Engineering

Ecole Polytechnique Federale de Lausanne - Switzerland

PROJECTS

Master Thesis - Computational Model of Motor Learning in a Real-World Task

May - Nov 2023

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, allowing to address the detection and rehabilitation of neurodegenerative diseases.

Deep Hedging

Sep - Dec 2021

Feb - Jun 2021

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

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.