Andrea Ghirlanda

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Education

2024 – Present	**ETH Zürich** **Data Science MSc**
2020 – 2023	**ETH Zürich** **Electrical Engineering and Information Technology BSc**
2016 – 2020	**Liceo Cantonale di Lugano 1** Profile: Applied Mathematics and Physics Matura (End of High-school) Project: Eye – Tracking with Convolutional Neural Network

Projects

Bachelor Thesis - Real time prediction of sepsis onset with machine learning models
- Data analysis and preprocessing
- Machine learning model development and testing
- Optimization of the model's size and deployment on Microcontroller

Practical Project - Controlling Biological Neuronal Networks Using Machine Learning
- Created in-vitro biological neuronal network in wet-lab
- Developed Reinforcement Learning algorithms to learn "best" Neuronal Network stimulation pattern

Languages

Italian	Mother tongue
English	Fluent
German	Fluent
French	Fluent

Programming /IT Skills

- C++
- C
- Python (also various ML and data analysis/manipulation Frameworks such as pandas, pytorch, etc…)
- R
- SQL

Personal Details

Birth Date	27.02.2001
Birthplace	6967 Dino, Lugano
Nationality	Swiss

Hobbies

- Sports: Ice Hockey, Running, Hiking, Snowboarding
- Playing guitar, reading, cooking