

Daniele Paliotta

PHD STUDENT IN DEEP LEARNING

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About

I am a PhD student in the Machine Learning Group at the University of Geneva. My advisor is François Fleuret and my research is supported by the Swiss NSF. I am currently working on efficient attention models and deep learning for high-energy physics.

Education

Ph.D in Deep Learning

UNIVERSITY OF GENEVA

Geneva, Switzerland

January 2021 - August 2025

- Research centered around attention models, transformers, deep learning for high energy physics.
- Head TA for 14X050 *Deep Learning*, 13X011 *Data Mining*, 11X006 *Computer Architectures*

MSc in Computer Engineering and Data Science

POLYTECHNIC UNIVERSITY OF TURIN

Turin, Italy

September 2018 - September 2020

- Graduated with 110/110 cum laude

BsC in Computer Engineering

SAPIENZA UNIVERSITY OF ROME

Rome, Italy

September 2015 - September 2018

- Graduated with 110/110 cum laude

Professional Experience

TrueLayer

MACHINE LEARNING INTERN

London, United Kingdom

July 2019 - September 2019

- Developed NLP models to extract insights from banking transactions e.g., purchase classification.
- Deployed models to production environment and evaluated performance.

Cini | CyberChallenge

SOFTWARE ENGINEER

Rome, Italy

Sept. 2017 - December 2017

- Developed and deployed a full-stack system for testing, grading, and managing admissions of participants in the CyberChallenge competitions.

Ipothesi | Simon Kucher & Partner

SOFTWARE ENGINEER

Rome, Italy

July 2016 - September 2016

- Developed and deployed a full-stack system for surveying clients and extracting information from collected data according to CAWI system.

Selected Papers

Faster Causal Attention Over Large Sequences Through Sparse Flash Attention

MATTEO PAGLIARDINI *, DANIELE PALIOTTA*, MARTIN JAGGI, FRANÇOIS FLEURET

Neurips 2023, ICML Es-Fomo 2023 (Oral)

SUPA: A Lightweight Diagnostic Simulator for Machine Learning in Particle Physics

ATUL KUMAR SINHA, DANIELE PALIOTTA, BÁLINT MÁTÉ, [...]

Neurips 2023, Datasets and Benchmarks

Graph Neural Networks Go Forward-Forward

DANIELE PALIOTTA, BÁLINT MÁTÉ, [...]

Neurips GLFrontiers, 2023

Computationally Empowered Learning Strategies for Non-Invasive Intracranial Brain-Computer Interfaces

FRANCESCO PAOLO ANDRIULLI, DANIELE PALIOTTA

Master Thesis

Miscellaneous

Capture the Flag competitor

THEROMANXPLOIT CTF TEAM. INFO: [LINK](#)

Rome, Italy

School of AI alumni | Full Scholarship

PI SCHOOL

Rome, Italy

Sep. 2020 - Dec. 2020