## Roberto Neglia

Experiences

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Education UiT - the Arctic University of Norway, Tromsø, Norway, 2024 - current

Ph.D. in Mathematics and Statistics.

Machine Learning for graphs and time series data.

Visiting @ Graph Machine Learning Group, USI (Lugano) (Nov. 2024 - Feb. 2025)

Politecnico di Milano, Milan, Italy, 2022 - 2024

M.Sc. in High Performance Computing Engineering.

Grade: 110L/110, GPA: 28.87/30

Università della Svizzera Italiana, Lugano, Switzerland, 2022 - 2024

M.Sc. in Computational Science.

Grade: Summa cum Laude, GPA: 9.13/10

Politecnico di Milano, Milan, Italy, 2018 - 2022

B.Sc. in Computer Science Engineering. Final grade: 103/110

Thesis "Benchmarking Graph Neural Network architectures for Drug

Response Prediction". Jan. 2024 - Sep. 2024

Explore how personalized medicine could benefit from advanced machine learning techniques, such as Graph Neural Networks, for the problems of

Drug Response Prediction and Drug Repurposing.

University Knowledge Powered Conversational Agent, USI, Dec. 2023 - Jan. 2024 Projects

A ChatBot that uses the WizardOfWikipedia dataset to answer with context.

Multi-Branch Neural Network, USI, Oct. 2023 - Nov. 2023

A Convolutional Neural Network that implements an early exit strategy for

computational efficiency in energy-constrained applications.

Neurodegeneration Prion Spread, PoliMi, Dec. 2022 - Jan. 2023

Mathematically modeled the spread of prions in the brain using PDEs, and

then solved it with the FEM using the deal. II C++ library.

Work Deloitte Touche Tohmatsu Limited, Milan, Italy, Nov. 2021 - Mar. 2022

Experiences Internship in Deloitte Digital, I worked full-time as a full-stack software

engineer in a team involved with the Energy and Oil&Gas Industry.

Other Effective High-Performance Computing and Data Analytics

Swiss National Supercomputing Center summer school, Lugano. July 2024.

PASC24 Volunteer, ETH Zurich, Jun. 2024

ISC24 EUMaster4HPC Ambassador, Hamburg, May 2024

High Performance Data and Graphs Analytics, Biomedical

Computer vision, PoliMi, extracurricular courses, 2024.

HPC for Environmental Aspects, EUMaster4HPC summer school at

Université Grenoble Alpes. July 2023.

EuroHPC Summit, active participation at the 2023 and 2024 EuroHPC

Summit as an HPC Ambassador, on behalf of EUMaster4HPC.

Waiter, summer job, helped me with multitasking, teamwork,

efficient communication, time and stress management, positive attitude.

Skills Linux, Bash, Python (PyTorch, PyTorch Geometric, TensorFlow, Pandas,

NumPy, scikit-learn, SciPy, Matplotlib, Seaborn), C/C++, CUDA (NVIDIA certificates), R, LATEX, Slurm/Torque, Git/GitHub, Docker, PC assembly.

Awards and Mentee at LeadTheFuture, 2023 - current Fellowships EUMaster4HPC merit-based mobility se

EUMaster4HPC merit-based mobility scholarship, 2022 - 2024 Merit-based reduction of tax contributions, PoliMi, 2018 - 2020

"Best Freshmen" Award, PoliMi, 2018 - 2019

Posters Accelerating Jacobi solver for the 2D Poisson equation.

Presented at the 2023 EuroHPC Summit in Gothenburg and at the HPC for

Environmental Aspects Summer School in Grenoble.

 ${\bf Graph\ Deep\ Learning\ for\ Cancer\ Drug\ Response\ Prediction\ and\ Generation.}$ 

Presented at the Generative AI in Life Science Workshop (GenLife) 2024, Copenhagen.