

Marco Fasoli

Genoa, Italy
marcofasoli92@gmail.com • marcofasoli.com

Education

Università degli Studi di Genova Master's Degree in Computer Science, Artificial Intelligence Track GPA: 30/30 . Taught entirely in English.	Genoa, Italy 2025–Present
Università degli Studi di Genova Bachelor's Degree in Computer Science Final grade: 110/110 cum laude .	Genoa, Italy 2022–2025
IT Technical Institute Italo Calvino High School Diploma, specialization in IT Final mark: 100/100 .	Genoa, Italy 2017–2022

Experience

ELICSIR Foundation – Scuola Ortogonale Selected Scholar Selected for a two-year program complementing master's studies through research mentorship, seminars, and collaborative projects; developing independent research and scientific communication skills.	2025–2027
---	-----------

Projects and Reports

White-Box Interpretability in the AIMO Challenge Investigating white-box methods for predicting the robustness of mathematical reasoning in language models, using early reasoning signals and internal representations. Preparing a research report on experimental methods and findings.	Ongoing
Distributed Machine Learning Survey Co-authored a survey on distributed architectures for scalable LLM training, covering parallelism, communication bottlenecks, and memory optimizations (ZeRO, FSDP).	2026
Hive Game AI bot Developed two alternative AI approaches for a Hive bot ranked approximately fifth worldwide: AlphaGo-inspired Monte Carlo Tree Search (MCTS) using a GAT and classical alpha-beta search using a NNUE.	2025–2026
Spurious Correlations in Random Forests Analyzed how Random Forests learn spurious correlations from biased datasets during training and rely on them at inference, investigating the underlying mechanisms and their impact on performance and reliability.	2025

Talks

Distributed Machine Learning Presented a talk on Parameter Server architecture and its difference from All-Reduce in distributed training.	March 2026
---	------------

Scholarships & Achievements

ELICSIR Scholarship Awarded the “Contaminazioni Ortogonali” and “Scuola Ortogonale” scholarships for computer science research and development; one of 20 students in Italy.	2024, 2025–2027
Pretto Cassanello Scholarship Three-time recipient for outstanding academic achievements.	2024, 2025, 2026
BOOST '25 and BOOST '26 Summer Schools Selected as one of 70 Italian students to attend the summer schools.	Oropa–Bologna, 2025, 2026

Languages

Italian: Native	English: B2 (Cambridge certified)
------------------------	--