SIMONE LICCIARDI

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EDUCATION

MSc in Computational Science and Engineering, *ETH Zürich* *09/2025 – 07/2027*

BSc in Mathematical Engineering, *Politecnico di Milano* *09/2022 – 07/2025*
3 years
Coursework in physics- and data-driven Scientific Computing and Modeling for Engineering.
· **Top student** in 345 for 2+ years - **GPA 30**/30 *(9 exams with honours, 18 with full marks)*.
· **Additional graduate** coursework in *Deep Learning and Neural Networks*.
· Independent study (faculty-supervised) on Stochastic Processes.
· Independent study (unsupervised) of Convex Optimization.

BSc Semester Abroad, *Courant Institute - New York University* *01/2025 – 05/2025*
5 months
Coursework in PDEs, and Mathematical Finance.
· Auditor to **PhD-level** coursework in Continuous-time Stochastics.
· *Admission rate*: 5%, first-ever from my course.

Math & Physics Competitions (High School), *Liceo Scientifico A. Volta* *09/2017 – 07/2022*
2 years
· National finalist in Mathematics and Physics competitions.
· Trained the school's math team, winner of 3 out of 5 of the latest national competitions.

EXPERIENCE

Mentee, Ambassador, *Lead The Future Mentorship* *09/2023 – Present*
2 years
LTF is a project I believe in: the leading STEM excellence Mentorship programme in Italy,
with 1200+ members.
· Working on a partners' network to move our activity to national scale.
· *Impact*: highest no. of referrals in 2024, as **Student Ambassador** at PoliMi.
· *Admission rate*: 13%.

Team Leader, *AIM - Mathematical Engineers Association* *11/2022 – 05/2024*
1.5 years
AIM is a student association with over **3000 members**.
· Developed database infrastructure and feedback pipelines for AIM Mentoring program.
· Designed form and analysed data for AIM Job Market report (300+ records).
· Led up to **16-person teams** on AIM's core programs, achieving over 200 participants.
· *Impact*:300+ new memberships, the highest annual growth to date.

SELECTED COURSES

M2L 2025 Summer School, M2L Summer School *2025, 48h*
A Google Deepmind's programme in ML intended for top European graduate researchers.
· *Admission rate*: 18%.

M2L 2024 Summer School, M2L Summer School *2024, 48h*
· *Admission for undergraduates*: 5.6% of participants were undergraduates.

Reinforcement Learning, AIM - Mathematical Engineers Association *2024, 15h*
· Tenured by **Google Deepmind**, **ETH** and **EPFL** researchers.

Spring Program in Competitive Physics, Scuola Normale Superiore di Pisa *2022, 48h*

Summer Program in Competitive Mathematics, Unione Matematica Italiana *2021, 32h*

PROJECTS AND SKILLS

Undergraduate Research (Optimization), *Independent* *09/2024 – 12/2024*
3 months
· *Research Topic*: continuous-time modeling of gradient-based optimizers.
· As continuation of M2L, independently carried extensive literature review.
· Produced a thesis proposal following academic standards, available here.

Programming	Python (mip, cvxpy, numpy, tensorflow), C, R, SQL, MATLAB, LaTeX.
Languages	English (C2), Italian (Native).
Interests	Autosports, Hiking, Skiing, Engineering Risk and Reliability.
Volunteering	Marketing Team for Cancer Research Campaign, Blood Donor at HSR, Peer Tutor at L.S.S.A Volta