SIMONE LICCIARDI

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EDUCATION -

BSc Degree in Mathematical Engineering, Politecnico di Milano

09/2022 - 07/2025

- Ranking top 1% in 345 students GPA 29.66/30 (9 of 21 exams with honours).
- **Graduate** coursework (additional) in *Deep Learning and Neural Networks*.
- · Independent study under faculty supervision of Stochastic Processes.

Coursework in (**Applied Maths**) LP and Graph Programming, Convex Optimization, (graduate) DL, Numerical Analysis, ODEs and PDEs Simulation, Generalized Linear Models, (**Pure Maths**) Real, Complex, Functional analysis, Probability Theory, Statistics Theory (**Engineering**) Automatic Control, C programming, Electronics and Physics.

MSc Degree in Computational Science and Engineering, ETH Zurich

From 09/2025

US Exchange Semester, New York University

01/2025 - 05/2025

- First-ever student from my course selected for this programme (on merit, top 2%).
- · Auditor to PhD coursework in Stochastics.

Coursework in Mathematical Finance (Kolm), Fourier Analysis for PDEs (Vicol), PDEs. Auditor to graduate Probability Theory II (Bourgade).

M2L 2025 Summer School, M2L Summer School

09/2025

M2L 2024 Summer School, M2L Summer School

09/2024

M2L is a Deepmind ML programme, meant for top European graduate researchers.

Lecturers from top schools and industry research: see program and speakers for more information.

- Selected as undergraduate (5.6% of participants were BSc).
- Independently prepared in Machine Learning (with Stanford EE104 recorded lectures).

Math & Physics Competitions (High School), Liceo Scientifico A. Volta

09/2017 - 07/2022

- · 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

LTF is a project I believe in. It is also the leading STEM excellence mentorship in Italy (1200+ members, 10% admission).

- · Working on a partners' network to move our activity to a national scale.
- · Implemented onboarding for enhanced mentorship retention.
- Serving as **Student Ambassador** at PoliMi (highest no. of referrals in 2024).

Team Leader, AIM - Mathematical Engineers Association

11/2022 - 05/2024

- 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, consistently achieving 200+ participants.
- Increased memberships by over 300 people, marking the highest annual growth to date.

Undergraduate Research (Optimization), Independent

09/2024 - 12/2024

- Due to M2L I got very interested in continuous-time modeling for gradient-based optimizers.
- · Independently carried extensive literature review on the topic.
- · Produced a thesis proposal following academic literature standards, available here.

EXTRACURRICULA

Reinforcement Learning, AIM - Mathematical Engineers Association

2024, 15h

- · Tenured by Google Deepmind, ETH and EPFL researchers.
- · MDP, Tabular RL, Deep RL, Model-based RL, Policy Gradient, SOTA

Scaling Python Projects, AIRIC - Industrial Research in AI

2024, 10h

Spring Program in Competitive Physics, Scuola Normale Superiore di Pisa

2022.48h

Summer Program in Competitive Mathematics, Unione Matematica Italiana

2021, 32h

Programming Python (mip, cvxpy, numpy, tensorflow), C, R, SQL, MATLAB, LATEX.

Languages English (C2), Italian (Native).

Interests Personal Finance, The Economist, Autosports, Rowing, Skiing, Competitive Mathematics.

Volunteering Marketing Team for Cancer Research Campaign, Blood Donor at HSR, Peer Tutor at L.S.S.A Volta

Links as text (in order): www.m2lschool.org/past-editions/m2l-2024-italy/program-2024, www.m2lschool.org/past-editions/m2l-2024-italy/speakers-2024, simone-licciardi.github.io/assets/adaptive_lr_minmax.pdf, aim-mate.it/orientamento/statistiche-occupazionali