

SIMONE LICCIARDI

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 Zürich, CH

EDUCATION

MSc in Computational Engineering (Robotics specialization), ETH Zürich

09/2025 – 07/2027

Coursework in Robotics-oriented Optimization, HPC and Simulation, Control and RL.

- Ranked 1st in competition within 450-student graduate class; achieved fastest (2.5 times quicker than runner-up) optimal decision-making algorithm.
- Developing prototypes on the side. Currently, a self-balancing box touching ground on an vertex.

BSc in Mathematical Engineering, Politecnico di Milano

09/2022 – 07/2025

Coursework in physics- and data-driven Scientific Computing and Modeling for Engineering.

- Ranked 1st within 345-student cohort for 2+ years with **GPA 30/30** (9 honours, 17 perfect marks).
- Additional graduate coursework in Deep Learning and Neural Networks.
- Independent study (faculty-supervised) of Stochastic Processes.
- Independent study (unsupervised) of Convex Optimization.

BSc Exchange Programme, New York University

01/2025 – 05/2025

Coursework in PDEs, Fourier Analysis for PDEs (Spectral Computational Methods), Financial Mathematics.

- Auditor to **PhD-level** coursework in Continuous-time Stochastics.
- Admission: 2% rate, first-ever from my course.

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

09/2017 – 07/2022

- National finalist in Physics and Mathematics competitions.
- Trained the school's math team, winner of 3 out of 5 of the latest national competitions.

PROJECTS

Undergraduate Research, Independent

09/2024 – 12/2024

- Research Topic: framing gradient-based optimizers as ODE discretization schemes, to determine optimal algorithms for robustness-sensitive optimization problems.
- Conducted independently and produced a report accessible [here](#).

SELECTED COURSES

2025 M2L Summer School, M2L Summer School

2025, 46h

Google DeepMind's programme in ML intended for top European graduate researchers.

- Admission: 14% rate.

2024 M2L Summer School, M2L Summer School

2024, 46h

Italian preparatory Spring programme for IPhO, Scuola Normale Superiore di Pisa

2022, 48h

Summer Program in Competitive Mathematics, Unione Matematica Italiana

2021, 32h

EXPERIENCE

Ambassador & Mentee, Lead The Future Mentorship

09/2023 – 09/2025

LTF is the largest Mentorship programme for STEM Excellence in Italy, and a project I believe in.

- Impact: highest no. of admitted referrals in 2024 (6% of total), while Ambassador at PoliMi.
- Admission: 13% rate.

Team Leader, AIM - Mathematical Engineers Association

11/2022 – 05/2024

AIM is a student association with over **3000 members**.

- Led up to **16 people** on core programs, achieving over 200 participants.
- Impact: over 300 new memberships, achieving the highest annual growth to date.

EXTRA

Programming: Python (numpy, scipy, pytorch, control), Git, C++, MATLAB, Linux.

Interests: The Economist, Motorsports, Rowing, Hiking, Skiing.