

Davide Paolino

M.Sc. Physics of Complex Systems

BIRTH: Italy, 15 October 2001
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EDUCATION

SEP 2023 - JUL 2025 (EXPECTED)	Master of Science in Physics of Complex Systems / Politecnico di Torino, SISSA/ICTP (Trieste), Université Paris Cité (Paris) Ongoing, GPA: 28.48/30, Thesis "Boltzmann Inversion and force inference" International double-degree program across Italy and France, with coursework between theoretical physics, computational science and stochastic processes.
JUL 2020 - SEP 2023	Bachelor of Science in Physical Engineering / Politecnico di Torino Final Grade: 107/110, Thesis "Monte Carlo Simulations of 2D Ising Model"
2020	Maturità Scientifica / I.I.S. Copernico-Luxemburg, Torino Final Grade: 100/100

RESEARCH EXPERIENCE

MARCH 2025 - JUL 2025	Research Intern under Prof. Berthier / Gulliver Lab, ESPCI Paris Developing methods to infer particle interactions directly from experimental data. Possible applications in equilibrium and non-equilibrium physics, including active matter and disordered systems.
JUL 2023 - SEP 2023	Bachelor Thesis Research under Prof. Tocchio / Politecnico di Torino Simulations of the 2D Ising model performed to study phase transitions using Monte Carlo techniques.

ACADEMIC PROJECTS AND EVENTS

SPRING 2025	Spring College in the Physics of Complex Systems / ICTP, Trieste Spring College Official Website Selected participant for intensive coursework and collaboration with international researchers. Focus: Advanced Statistical Physics.
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WORK EXPERIENCE

SEP 2022 - PRESENT	Teaching Tutor / Politecnico di Torino Project's aim was to assist first-year students with Mathematical Analysis I and Physics I through frontal exercise sessions. Improved communication and mentoring skills.
2018 - PRESENT	Volunteer Work / Torino The hundreds of hours dedicated to community service led to developing teamwork, problem-solving, and leadership abilities.

TECHNICAL SKILLS

PROGRAMMING:	Python (NumPy, Torch, SciPy), Java, MATLAB, \LaTeX , HTML
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LANGUAGES

ITALIAN	Native
ENGLISH	Proficient (C1)
FRENCH	Beginner (A2)
Common European Framework of Reference for Languages	