

# Davide Paolino

## M.Sc. Physics of Complex Systems

BIRTH: Italy, 15 October 2001  
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### EDUCATION

SEP 2023 - JUL 2025 (EXPECTED)	<b>Master of Science in Physics of Complex Systems</b> / 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	<b>Bachelor of Science in Physical Engineering</b> / Politecnico di Torino Final Grade: 107/110, Thesis "Monte Carlo Simulations of 2D Ising Model"
2020	<b>Maturità Scientifica</b> / I.I.S. Copernico-Luxemburg, Torino Final Grade: 100/100

### RESEARCH EXPERIENCE

MARCH 2025 - JUL 2025	<b>Research Intern</b> 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	<b>Bachelor Thesis Research</b> 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	<b>Spring College in the Physics of Complex Systems</b> / ICTP, Trieste <a href="#">Spring College Official Website</a> Selected participant for intensive coursework and collaboration with international researchers. Focus: Advanced Statistical Physics.
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### WORK EXPERIENCE

SEP 2022 - PRESENT	<b>Teaching Tutor</b> / 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	<b>Volunteer Work</b> / 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)
<a href="#">Common European Framework of Reference for Languages</a>	