

# Davide Paolino

PhD Candidate

Active Matter Physics

BIRTH: Italy, 15 October 2001  
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## EDUCATION

OCT 2025 - PRESENT	<b>PhD Candidate in Physics (Active Matter)</b> / Gulliver Lab, ESPCI-Paris PSL <i>Supervisor: Prof. Ludovic Berthier</i> Investigating the statistical physics of active and disordered systems using numerical simulations and analytical methods. Focus on glassy dynamics, non-equilibrium phase transitions, and novel collective phenomena.
SEP 2023 - OCT 2025	<b>Master of Science in Physics of Complex Systems</b> / Politecnico di Torino, SISSA/ICTP (Trieste), Université Paris Cité (Paris) <i>Final Grade: 110 cum laude /110, Thesis "Boltzmann Inversion and force inference"</i> 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 <i>Final Grade: 107/110, Thesis "Monte Carlo Simulations of 2D Ising Model"</i>

## RESEARCH EXPERIENCE

MARCH 2025 - JUL 2025	<b>Research Intern</b> under Prof. L. Berthier / Gulliver Lab, ESPCI-Paris PSL 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. L. F. 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 - SEP 2024	<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.
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## TECHNICAL SKILLS

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

ITALIAN	Native
ENGLISH	Proficient (C1)
FRENCH	Intermediate (B1)
<a href="#">Common European Framework of Reference for Languages</a>	