

Davide Paolino

PhD Candidate Active Matter Physics

BIRTH: Italy, 15 October 2001
CURRENT CITY: Paris, France
PERSONAL PAGE: paolinodavide.github.io
EMAIL: davide.paolino@espci.fr

EDUCATION

Oct 2025 - PRESENT	PhD Candidate in Physics (Active Matter) / 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	Master of Science in Physics of Complex Systems / 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	Bachelor of Science in Physical Engineering / Politecnico di Torino Final Grade: 107/110, Thesis "Monte Carlo Simulations of 2D Ising Model"

RESEARCH EXPERIENCE

MARCH 2025 - JUL 2025	Research Intern 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	Bachelor Thesis Research 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	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 - SEP 2024	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.
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TECHNICAL SKILLS

PROGRAMMING: Python (NumPy, Torch, SciPy), Julia, Java, MATLAB, L^AT_EX, HTML

LANGUAGES

ITALIAN	Native
ENGLISH	Proficient (C1)
FRENCH	Intermediate (B1)

[Common European Framework of Reference for Languages](#)