

Matteo Savasta

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PROFILE

PhD candidate in stochastic analysis making a deliberate move into **research engineering**. Doctoral work sits on stochastic PDEs and the SDE, sampling, and Monte Carlo machinery that also underpins generative modelling and stochastic optimisation; **MSc in theoretical physics** before that. The engineering side is current rather than aspirational — shipping **agentic LLM systems** into industrial production at Perspective AI, and building **mathematical-reasoning training data** for frontier models at Handshake AI. Most useful where mathematical rigour and fast empirical iteration are both load-bearing: designing experiments, reading results honestly, and writing the code that produces them.

EXPERIENCE

- AI Engineer**, [Perspective AI](#) 2026 – present
- Research and develop **agentic AI systems** for industrial applications, taking problems from scoping and prototyping through to production deployment.
 - Design evaluation procedures for agent behaviour on domain-specific industrial tasks, where correctness is expensive to verify and failure modes are long-tailed.
 - Translate client domain constraints into system requirements, working directly with non-technical stakeholders.
- Part-time Fellow**, [Handshake AI](#) 2025 – present
- Build a **labelled dataset of mathematical proofs** used to train and evaluate **large language models** on graduate-level reasoning.
 - Author and review step-level correctness annotations, identifying the subtle failure modes that distinguish a plausible proof sketch from a valid argument.
- Graduate Teaching Assistant**, Heriot-Watt Univ., Univ. of Milan, Univ. of Pavia 2020 – present
- Tutor across **5 university courses** in physics and mathematics at three institutions.

EDUCATION

- 2024 – present **PhD in Mathematics** (Stochastic Analysis), **Heriot-Watt University** and **University of Milan**
- 2022 – 2024 **MSc in Theoretical Physics**, **University of Pavia** (110/110, average 29.3/30)
- 2019 – 2022 **BSc in Physics**, **University of Pavia** (107/110, average 27.6/30)
- 2019 – 2024 Resident scholar, **Almo Collegio Borromeo** (selective merit-based residential college)

PUBLICATIONS & PREPRINTS

- B. Costeri, C. Dappiaggi, P. Rinaldi, **M. Savasta**. *Schauder estimates for germs of distributions on smooth manifolds*. Preprint, [arXiv:2602.19593](#) (2026).
- M. Capoferri, M. Cherdantsev, **M. Savasta**, I. Velčić. *Stochastic homogenization of high contrast random systems with partial degeneracy*. In preparation.

TECHNICAL SKILLS

- Programming** **Python** (fluent), **L^AT_EX** (advanced), C++ (beginner)
- Mathematics** Stochastic analysis, stochastic PDEs, probability theory, statistical mechanics, quantum field theory
- Languages** **Italian** (native), **English** (fluent), French (intermediate), Spanish (beginner)

PROJECTS

- Team Lead** [Clean Tech Academy](#) — led a team of 5 PhD students and postdocs to build a clean-energy startup proposal; selected as a winning team (2025)

AWARDS & HONOURS

- Winner (top 5 teams), [Clean Tech Academy](#) 2025
- London Mathematical Society** mini grant (£500) for a [two-week research event](#) at Sorbonne Université, Paris 2025
- Merit scholarship (2000€), **Collegio Borromeo Alumni Association** 2024
- Bronze medal, **Italian Physics Olympiad** (national competition) 2019

ACADEMIC SERVICE & OUTREACH

- Organiser** [PhD seminar series](#) in Mathematics and Computer Science, Heriot-Watt University (2024 – present)
- Organiser** Reading course on singular stochastic PDEs (4 PhD students, 1 postdoc), supervised by Prof. [Tadahiro Oh](#), University of Edinburgh (2024 – 2025)
- Outreach** Science communication guide, [Dire l'indicibile](#), [Italian Quantum Week](#) — **2,000+** attendees over two weeks (2023); trained in [public speaking](#) and theatre, lead role in [Ridere con Chechov](#) (2019 – 2024)