

RESEARCH INTERESTS	<ul style="list-style-type: none"> • Stochastic Partial Differential Equations • Fluid Dynamics • Mean field limit • Neural SPDEs
EDUCATION	<p>Imperial College London London, UK <i>PhD in Stochastic Analysis</i> December 2023 – ongoing</p> <ul style="list-style-type: none"> • Supervised by Prof. Dan Crisan • Affiliated with the Mathematics for our Future Climate CDT • Working on approximations of SPDEs with interacting particle systems. To see more about it, visit https://filippogiovagnini.github.io/. <p>University of Pisa Pisa, Italy <i>Master of Mathematics</i> September 2021 – October 2023</p> <ul style="list-style-type: none"> • GPA: 30/30, Graduation score: 110/110 cum laude. <p>ETH Zurich Zurich, Switzerland <i>Exchange Program</i> February 2023 - August 2023</p> <ul style="list-style-type: none"> • Awardee of the Only Scholarship for the University of Pisa. • Optimal Transport applied to Finance, Quantitative Risk Management, Applied Stochastic Processes, Economic Theory of Financial Markets. <p>University of Pisa Pisa, Italy <i>Bachelor of Mathematics</i> 2018 - 2021</p> <ul style="list-style-type: none"> • GPA: 29.85/30, Graduation score: 110/110 cum laude. • Courses: Stochastic Calculus, Sobolev Spaces, Differential Topology, BV Spaces, Mathematical Finance.
PREPRINTS	<p>A uniform point vortex approximation for the solution of the two-dimensional Navier Stokes equation with transport noise Filippo Giovagnini, Dan Crisan</p> <ul style="list-style-type: none"> • Submitted to Journal • https://arxiv.org/abs/2410.23163
EXPERIENCES	<p>Imperial College Business School London, UK September 2024 - Ongoing</p> <ul style="list-style-type: none"> • Teaching Assistant for the "Stochastic Calculus for Finance" module of the Risk Management Msc <p>University of Bologna Bologna, IT December 2024 (to start)</p> <ul style="list-style-type: none"> • Talk about particles systems for the ASK Conference 2024 • See the official website here . <p>Stony Brook New York, US January 2025 (to start)</p> <ul style="list-style-type: none"> • One-week-long probability winter school • Grant for fully funded travels and lodging <p>Alhambra PDE Days Granada, Spain July 2024</p> <p>BCAM, Bilbao Bilbao, Spain March 2024 - April 2024</p> <ul style="list-style-type: none"> • Fully funded by BCAM <p>Scuola Normale Superiore Pisa, Italy February 2024</p> <ul style="list-style-type: none"> • Workshop on Fluid Dynamics with lectures and seminars.

Imperial College Business School | London, UK

December 2023 - January 2024

- Marking exams.

University of Pisa | Pisa, Italy

January 2023 - June 2023

- Writing official notes for Analysis 2 and Istituzioni di Analisi.

Junior Math Days, SISSA | Trieste, Italy

December 2022

Teaching Assistant | University of Pisa

July 2022 - September 2022

- Conducted a one-week course and tutorials for first-year students.

SKILLS

Languages: Italian (Native), English (Fluent), Spanish (Conversational).

Mathematical Tools: Stochastic Analysis, PDEs, Fluid Dynamics, Numerical Analysis.

Technical Skills: Python, Pytorch, MATLAB, LaTeX.