

EMPLOYMENT	<ul style="list-style-type: none"> • PhD candidate in Stochastic Analysis at Imperial College London. • Working part-time for Aleta Index as a Machine Learning Engineer. • Affiliated with the Mathematics for our Future Climate CDT.
EDUCATION	<p>Imperial College London London, UK PhD in Pure Mathematics December 2023 – ongoing</p> <ul style="list-style-type: none"> • Supervised by Prof. Dan Crisan • Find more about my research: https://filippogiovagnini.github.io/research.html. <p>University of Pisa Pisa, Italy Master of Mathematics 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 Exchange Program 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 Bachelor of Mathematics 2018 - 2021</p> <ul style="list-style-type: none"> • GPA: 29.85/30, Graduation score: 110/110 cum laude.
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 <p>A uniform particle approximation to the Navier-Stokes-alpha models in three dimensions with advection noise Filippo Giovagnini, Dan Crisan</p> <ul style="list-style-type: none"> • https://arxiv.org/abs/2504.12960
TEACHING ASSISTANT ROLES	<p>Imperial College Business School London, UK September 2025 - January 2026</p> <ul style="list-style-type: none"> • "Stochastic Calculus for Finance" module of the Risk Management MSc <p>Imperial College Business School London, UK September 2024 - January 2025</p> <ul style="list-style-type: none"> • "Stochastic Calculus for Finance" module of the Risk Management MSc <p>Imperial College Business School London, UK December 2023 - January 2024</p> <ul style="list-style-type: none"> • Marking exams. <p>University of Pisa Pisa, Italy January 2023 - June 2023</p> <ul style="list-style-type: none"> • Writing official notes for Analysis 2 and Higher Analysis. <p>Teaching Assistant University of Pisa July 2022 - September 2022</p> <ul style="list-style-type: none"> • Conducted a one-week course and tutorials for first-year students.

EXPERIENCES	University of Padova Padova, Italy	September 2025
	<ul style="list-style-type: none"> • Invited speaker at https://www.yamc.it/ • To happen soon. 	
	Scuola Normale Superiore Pisa, Italy	February 2025
	<ul style="list-style-type: none"> • Workshop on Fluid Dynamics with lectures and seminars. 	
	University of Bologna Bologna, IT	December 2024
	<ul style="list-style-type: none"> • Given a short talk • See the website here. 	
	Stony Brook New York, US	January 2025
	<ul style="list-style-type: none"> • Given a short talk + one-week-long winter school • Grant for fully funded travels and lodging • See the website here. 	
	Alhambra PDE Days Granada, Spain	July 2024
	BCAM, Bilbao Bilbao, Spain	March 2024 - April 2024
SKILLS	<ul style="list-style-type: none"> • Two-months long - Fully funded by BCAM 	
	Scuola Normale Superiore Pisa, Italy	February 2024
	<ul style="list-style-type: none"> • Workshop on Fluid Dynamics with lectures and seminars. 	
	Junior Math Days, SISSA Trieste, Italy	December 2022
Languages: Italian (Native), English (Fluent), Spanish (Conversational).		
Mathematical Tools: Stochastic Analysis, PDEs, Fluid Dynamics, Numerical Analysis.		
Technical Skills: Python, TensorFlow, PyTorch, Pandas, Numpy, Jax, MATLAB, LaTeX.		