



data di nascita: [redacted] | Nazionalità: [redacted] | Sesso: [redacted] |
numero di telefono: [redacted] | Indirizzo e-mail: [redacted]
Indirizzo: [redacted]

ISTRUZIONE E FORMAZIONE

14/09/2009 – 03/02/2014 Pisa, Italia

LAUREA TRIENNALE IN MATEMATICA Università di Pisa

Sito Internet <https://www.unipi.it/>

04/02/2014 – 14/10/2016 Pisa, Italia

LAUREA MAGISTRALE IN MATEMATICA Università di Pisa

Sito Internet <https://www.unipi.it/> | **Voto finale** 110L

01/11/2016 – 31/10/2019 Firenze, Italia

DOTTORATO DI RICERCA IN MATEMATICA Università di Firenze

Sito Internet <https://www.unifi.it/> | **Tesi** Interacting Diffusion Models: Scaling Limit and Numerical Analysis

ESPERIENZA LAVORATIVA

01/11/2019 – 31/10/2020 Pisa, Italia

ASSEGNISTA DI RICERCA SCUOLA NORMALE SUPERIORE

Titolo del progetto: Stochastic Analysis tools for Extreme Event Probabilities in Climate Change.

Responsabile del progetto: [redacted]

01/11/2020 – ATTUALE Pisa, Italia

ASSEGNISTA DI RICERCA UNIVERSITÀ DI PISA, DIPARTIMENTO DI ECONOMIA E MANAGEMENT

Titolo del progetto: The Time-Space Evolution of Economic Activities: Mathematical Models and Empirical Applications. Responsabile del progetto: [redacted]

COMPETENZE LINGUISTICHE

Lingua madre: **ITALIANO**

Altre lingue:

	COMPRESIONE		ESPRESSIONE ORALE		SCRITTURA
	Ascolto	Lettura	Produzione orale	Interazione orale	
INGLESE	C2	C2	C2	C2	C2

Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato

● **COMPETENZE DIGITALI**

Programming Language: Julia, Matlab, R: Proficient | Programming Language: Fortran, Python: Advanced | Programming: HPC: (C++,Fortran) openMP API: Intermediate | Programming Language: Bash: Intermediate | Operating systems: Linux: Proficient | Operating systems: Mac OSX, Windows: Advanced

● **ULTERIORI INFORMAZIONI**

TEACHING ACTIVITY

01/10/2017 – 31/10/2017

Teaching assistant - 10 hours - Calcolo delle probabilità - Corso di laurea triennale in matematica, University of Florence.



01/10/2018 – 31/10/2018

Teaching assistant - 6 hours - Calcolo delle probabilità - Corso di laurea triennale in matematica, University of Florence.

01/10/2019 – 31/12/2019

Teaching assistant - 10 hours - Calcolo delle probabilità e statistica - Corso di laurea triennale in informatica, University of Pisa.

01/02/2021 – 31/05/2021

Teacher - 10 hours/1.5 CFU - Economia politica I - Corso di laurea triennale in Economia, University of Pisa.

01/09/2021 – 01/09/2022

Teaching assistant - Mathematics - Management and computer science, LUISS University.

01/09/2021 – 01/09/2022

Teaching assistant - Mathematics II - Economics and business, LUISS University.

01/09/2021 – 01/09/2022

Teacher - 20 hours/3 CFU - Mathematical methods for economics - Corso di laurea magistrale in Economics, University of Pisa.

01/09/2022 – 01/09/2023

Teaching assistant - Mathematics II - Economics and business, LUISS University.

01/09/2022 – 01/09/2023

Teacher - 60 hours/8 CFU - Mathematics I - Economics and business, LUISS University.

PUBBLICAZIONI

Houssam AlRachid, Mireille Bossy, Cristiano Ricci, and Lukasz Szpruch. New particle representations for ergodic mckean-vlasov sdes. ESAIM: ProcS, 65:68–83, 2019.

Rémi Catellier, Yves D'angelo, and Cristiano Ricci. A mean-field approach to self-interacting networks, convergence and regularity. Mathematical Models and Methods in Applied Sciences, 31(13):2597–2641, 2021.

Andy Dobson, Cristiano Ricci, Raouf Boucekkine, Fausto Gozzi, Giorgio Fabbri, Ted Loch- Temzelides, and Mercedes Pascual. Balancing economic and epidemiological interventions in the early stages of pathogen emergence. Science Advances, 9(21):eade6169, 2023.

Franco Flandoli, Francesco Grotto, Andrea Papini, and Cristiano Ricci. Epidemic models as scaling limits of individual dynamics. arXiv preprint arXiv:2007.05855, 2020.

Franco Flandoli, Marta Leocata, and Cristiano Ricci. The vlasov-navier-stokes equations as a mean field limit. Discrete & Continuous Dynamical Systems - B, 24:3741, 2019.

Franco Flandoli, Marta Leocata, and Cristiano Ricci. On the macroscopic limit of brownian particles with local interaction. Stochastics and Dynamics, 20(06):2040007, 2020.

Franco Flandoli, Marta Leocata, and Cristiano Ricci. The navier-stokes-vlasov-fokker-planck system as a scaling limit of particles in a fluid. *Journal of Mathematical Fluid Mechanics*, 23:40, 2021.

Franco Flandoli, Marta Leocata, and Cristiano Ricci. The mathematical modeling of cancer growth and angiogenesis by an individual based interacting system. *Journal of Theoretical Biology*, 562:111432, 2023.

Franco Flandoli, Dejun Luo, and Cristiano Ricci. A numerical approach to kolmogorov equation in high dimension based on gaussian analysis. *Journal of Mathematical Analysis and Applications*, 493(1):124505, 2021.

Franco Flandoli, Dejun Luo, and Cristiano Ricci. On the relation between the girsanov transform and the kolmogorov equations for spdes. *Potential Analysis*, pages 1–28, 2021.

Franco Flandoli, Dejun Luo, and Cristiano Ricci. Numerical computation of probabilities for nonlinear sdes in high dimension using kolmogorov equation. *Applied Mathematics and Computation*, 436:127520, 2023.

Daria Ghilli, Cristiano Ricci, and Giovanni Zanco. A mean field game model for covid-19 with human capital accumulation. to appear into *Economic theory*, 2023.

CONFERENZE E SEMINARI

11/2017

A mathematical model for the dynamics of the hypahl network of P. Anserina - Nice, Workshop DENA

08/2017

Long time simulations of interacting stochastic particle system - CEMRACS 2017

07/2019

The Navier-Stokes-Vlasov-Fokker-Planck system as a scaling limit of particles in a fluid - Recent Trends in Stochastic Analysis and SPDEs, Pisa

11/2019

The Kolmogorov equation associated to SPDEs: theoretical and numerical problems - IUSS Scuola Universitaria Superiore Pavia, Pavia

07/2020

Numerical experiments with Kolmogorov equation associated to SPDEs - Mathematics of Planet Earth Webinars: Analysis and Modelling

11/2020

Scaling limit for interating diffusion models - Dipartimento di economia e management, Università di Pisa

07/2022

Numerical applications of Kolmogorov equations and Girsanov trasformation for SPDEs - Third italian probability meeting, Bologna

07/2022

The micro-foundation of cities: a mean-field approach - Workshop on "The Time-Space Evolution of Economic Activities: Mathematical Models and Empirical Applications", Pisa

07/2022

Numerical methods for a Mean Field Game model for human capital - 15th Viennese Conference on Optimal Control and Dynamic Games, Vienna

08/2022

The evolution of economic activities over space and time, the use of nightlights - 61st ERSA congress, European Regional Science Association, Pécs

12/2023

An agent-based approach to the spatial dynamics of population and income: theory and estimation, - YETI meeting, IMT Lucca

08/2023

Nightlights as a measure of local development: the case of Italy - ERSA 2023, Alicante

A dynamical taxonomy of population density: moving around in the Moran scatterplot - ERSA 2023, Alicante

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

