

PERSONAL INFORMATION **Marco Pozza**

 [ORCID 0000-0002-4974-9966](https://orcid.org/0000-0002-4974-9966)

EDUCATION

2016 – 2020 **Ph.D. in Mathematics**

University of Rome “La Sapienza” – Department of Mathematics “Guido Castelnuovo”, Rome (Italy)

Thesis title: Stochastic Representation Formulas for Viscosity Solutions to Nonlinear PDEs

Advisor: Antonio Siconolfi

2016 **Master’s degree in Applied Mathematics**

University of Rome “La Sapienza” – Department of Mathematics “Guido Castelnuovo”, Rome (Italy)

Evaluation: 110 cum laude/110

2013 **Bachelor’s degree in Mathematics**

University of Rome “La Sapienza” – Department of Mathematics “Guido Castelnuovo”, Rome (Italy)

Evaluation: 110/110

OTHER SKILLS

Driving license: B

Mother tongue: Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Cambridge English: First (FCE) B2					

Programming languages: C/C++, Fortran, Python, LaTeX

WORK EXPERIENCE

Apr 2024 – Today **Assistant Professor (Ricercatore) in Mathematical Analysis**

University of Rome “Link Campus University”

Dec 2022 – Apr 2024 **Postdoctoral fellow**

University of Rome “Tor Vergata” – Department of Mathematics, Rome (Italy)

Advisor: Alfonso Sorrentino

Dec 2021 – Nov 2022 **Postdoctoral fellow**

University of Rome “La Sapienza” – Department of Mathematics “Guido Castelnuovo”, Rome (Italy)

Advisor: Antonio Siconolfi

Jan 2021 – Nov 2021 **Postdoctoral fellow**

University of Rome “La Sapienza” – Department of Mathematics “Guido Castelnuovo”, Rome (Italy)

Advisor: Filomena Pacella

Nov 2020 – Sept 2021 **Lecturer**

“Differential Calculus” for the degree course in Computer Science, A.Y. 2020/2021
University of Rome “La Sapienza” – Department of Computer Science, Rome (Italy)

INVITED TALKS

03/06/2024 – 07/06/2024 **9th European Congress on Computational Methods in Applied Sciences and Engineering**

City: Lisbon (Portugal)

Presentation title: Convergence Analysis of an Algorithm for the Critical Value of Eikonal Equations Posed on Networks

18/04/2024 **P(n)/N(p): Nonlinear differential problems**

University of Rome “La Sapienza” – Department of Mathematics, Rome (Italy)

Presentation title: Homogenization of Hamilton–Jacobi Equations posed on Networks

04/04/2023 **Differential equations seminar**

University of Rome “Tor Vergata” – Department of Mathematics, Rome (Italy)

Presentation title: Large Time Behavior of Solutions to HJ Equations on Networks

18/01/2023 – 20/01/2023 **First order problems on networks and applications**

City: Rome (Italy)

Presentation title: Large Time Behavior of Solutions to HJ Equations on Networks

05/05/2022 – 06/05/2022 **The Hamilton-Jacobi equation in nonlinear PDEs, dynamics and optimal control**

City: Rome (Italy)

Presentation title: Lax–Oleinik Formula on Networks

25/11/2019 **Seminar of Mathematical Analysis**

University of Rome “La Sapienza” – Department of Mathematics, Rome (Italy)

Presentation title: A representation formula for viscosity solutions to PDE problems with sublinear operators

RESEARCH GROUPS

Progetto GNAMPA 2022

Title: Optimization, Hamilton–Jacobi equations and Mean Field games

Coordinator: dott. A. Mendico

Progetto Ateneo "Roma La Sapienza" 2021

Title: Evolutionary problems: analysis techniques and construction of numerical solutions

Coordinator: prof. G. Puppo

Progetto Ateneo "Roma La Sapienza" 2020

Title: Evolutive PDEs in heterogeneous media

Coordinator: prof. C. Mascia

Progetto GNAMPA 2020

Title: Problemi asintotici per EDP non lineari e Mean Field games
Coordinator: prof. A. Davini

Progetto Ateneo "Roma La Sapienza" 2018

Title: Analisi qualitativa e asintotica di EDP nonlineari
Coordinator: prof. A. Davini

Progetto Ateneo "Roma La Sapienza" 2017

Title: Flussi di misure ed equazioni alle derivate parziali associate
Coordinator: prof. A. Siconolfi

PUBLICATIONS

- June 2023** (with A. Siconolfi). “Lax–Oleinik Formula on Networks.” In: *SIAM Journal on Mathematical Analysis* 55.3, pp. 2211–2237. ISSN: 1095-7154. DOI: 10.1137/21m1448677.
- 2021** (with A. Siconolfi). “Discounted Hamilton–Jacobi equations on networks and asymptotic analysis.” In: *Indiana University Mathematics Journal* 70.3, pp. 1103–1129. ISSN: 0022-2518. DOI: 10.1512/iumj.2021.70.8435.
- Feb. 2021**. “Representation formula for viscosity solution to a PDE problem involving Pucci’s extremal operator.” In: *Nonlinear Analysis: Real World Applications* 57, p. 103199. ISSN: 1468-1218. DOI: 10.1016/j.nonrwa.2020.103199.
- Apr. 2020**. “Stochastic Representation Formulas for Viscosity Solutions to Nonlinear Partial Differential Equations.” PhD thesis. Università di Roma “La Sapienza”.