

GIULIA PUCCI

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🌐 [giulia-pucci](https://giulia-pucci.github.io)

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EDUCATION

KTH - Royal Institute of Technology

PhD Student - Department of Mathematics - Division of Mathematical Statistics.

09 2022 – current

Stockholm, Sweden

- Supervisor: Associate Professor Nacira Agram
- Teaching Assistant for courses in *Financial Mathematics* and *Linear Regression Analysis*.

Sapienza University of Rome

Master of Science - Final Grade : 110/110 with honors

09 2020 – 07 2022

Rome, Italy

- Thesis in Control Theory: "Optimal strategies for a debt management problem." Supervisor: Prof. Graziano Crasta

Sapienza University of Rome

Bachelor of Science - Final Grade : 110/110 with honors

09 2017 – 07 2020

Rome, Italy

- Thesis: "Calculus of Variations: an application to the protein structure." Supervisor: Prof. Annalisa Malusa
- **Erasmus exchange program** at Stockholm University during the first semester of the academic year 2019-2020

PUBLICATIONS

- * Agram N., Pucci G., & Øksendal B. (2024) **Impulse Control of Conditional McKean-Vlasov Jump Diffusions** 
Journal of Optimization Theory and Applications, 1 – 31

PREPRINTS

- * Gozzi, F., Leocata, M., & Pucci, G., **Network-Based Optimal Control of Pollution Growth**  arXiv preprint

RESEARCH VISITS

University of Oslo

Research visit to collaborate with Prof. Bernt Øksendal and Prof. Fred Benth

06 2023

Oslo, Norway

Luiss Guido Carli

One-semester project collaborating with Prof. Fausto Gozzi and Marta Leocata.

08 2023 – 12 2023

Rome, Italy

TALKS

- * LUWSNA Linnaeus University **Workshop** on S(P)DEs, their numerics and applications in Växjö, Sweden 23/12/06-08
- * Algerian **Conference** on Stochastic Analysis with Applications to Finance, Energy and Insurance, 24/03/06
- * Insurance Data Science **Conference**, Stockholm University, 24/06/17-18

POSTER PRESENTATIONS

- * European **Summer School** in Financial Mathematics "Mathematics of FinTech" - TU Delft, Netherlands 23/09/04-08
- * Machine Learning and Optimal Control **Summer School**, Gaeta, Italy 24/05/27-31

ATTENDANCE

- * **Conference** in memory of Tomas Björk - Swedish House of Finance, Stockholm, Sweden 22/10/10-11.
- * Linnaeus-Maghreb **Workshop** in Stochastic Analysis - Linnaeus University, Växjö, Sweden 22/11/16.
- * **Workshop** on Stochastic Control Theory, KTH, Stockholm 23/10/25-26
- * **Workshop** "Mean Field Games in Economics 2023" - Luiss University, Rome Italy 23/11/09-10
- * Some Mathematical Approaches to Climate Change and its Impacts **Conference**, Pisa, Italy 24/04/22-23

TEACHING AND SUPERVISION

Teaching Assistant

SF2701 Financial Mathematics, Basic Course 7.5 credits, KTH P4 2023, P4 2024

Master’s Thesis Supervision

SF291X Degree Project in Financial Mathematics, Second Cycle (60528) Spring 2024

Teaching Assistant

SF2930 Regression Analysis 7.5 credits, KTH P3 2024

Bachelor Thesis Supervision

SF100X Degree Project in Applied Mathematics (Regression Analysis) Spring 2023

RELEVANT COURSEWORK

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|------------------------|--------------------------|------------------------|----------------------|
| • Control Theory | • ML and Neural Networks | • Mathematical Finance | • Numerical Modeling |
| • Stochastic Processes | | • Stochastic Calculus | • Pollution Control |

PROGRAMMING SKILLS

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|----------|----------|-----------------------|
| • Python | • Matlab | • Wolfram Mathematica |
| • C | • Julia | • R |