

Tommaso Rosati

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Born: 1993—Wuppertal, Germany

Academic positions

- 2020 - **Harrison early career assistant professor** at the *University of Warwick*.
- 2020-2022 **Research associate (postdoc)** in the group of Martin Hairer, *Imperial College London*.

INTERESTS • Probability, stochastic analysis, long-time properties of stochastic PDEs.

Education

- 2017-2020 **PhD** in mathematics, *Freie Universität Berlin*.
PhD thesis “Singular SPDEs and Fluctuations of Particle Systems”. Supervisor: Nicolas Perkowski.
Final grade: Summa cum laude.
- 2015-2017 **Master** in mathematics, *Humboldt Universität zu Berlin*.
Master thesis on “The KPZ Equation on the Real Line”. Supervisor: Nicolas Perkowski.
Final grade: 1.0.
- 2012-2015 **Bachelor** in mathematics, *Università di Roma Tor Vergata*.
Bachelor thesis on “Tropical Conics”. Supervisor: Ciro Ciliberto.
Final grade: 110/110 summa cum laude.

Publications (All articles can be found on arxiv.org)

- 2022
- “Synchronisation for scalar conservation laws via Dirichlet boundary”, with A. Djurdjevac.
Submitted to Annales de l'Institut Henri Poincaré.
 - “The wave speed of an FKPP equation with jumps via coordinated branching”, with A. Tobias.
Under revision at Electronic Journal of Probability.
 - “The Allen–Cahn equation with generic initial datum”, with M. Hairer and K. Le.
Submitted to Probability Theory and Related Fields.
 - “Synchronization for KPZ”.
Stochastics and Dynamics 22 (2022) No. 04, 2250010 (2022).
- 2021
- “Lyapunov exponents in a slow environment”.
Under revision at Stochastic Processes and their Applications.
 - “A rough super-Brownian motion” with N. Perkowski.
The Annals of Probability 49.2 (2021): 908-943.
- 2020
- “The spatial Λ -Fleming-Viot process in a random environment”, with A. Klimek.
To appear in Annals of Applied Probability.
 - “Killed rough super-Brownian motion”.
Electronic Communications in Probability 25 (2020): 1-12.
 - “Modelled Distributions of Triebel-Lizorkin Type”, with S. Hensel.
Studia Mathematica 252 (2020), 251-297.
- 2019
- “The KPZ Equation on the Real Line”, with N. Perkowski.
Electronic Journal of Probability 24 (2019): 1-56. Won the EHS and the Huboldt prize.

Scholarships & Co.

- 2018 Humboldt Prize for master theses.
- 2017 Joined the BMS (Berlin Mathematical School) for my doctorate (Phase II).
- 2017 Erhard Höpfner Stiftung prize for master theses in the natural sciences at the Berlin universities.
- 2015-2017 Teaching assistant at Humboldt University.
- 2016-2017 DAAD scholarship for students of all scientific subjects, 2016/17.
- 2013-2015 Scholarship for talented students, granted by Tor Vergata University.

Refereeing Activity

• *I periodically referee for:* Trans. Amer. Math. Soc.; Comm. Math. Phys.; Stoch. Dyn.; Probab. Theory Related Fields.; Math. Nachr.; Electron. J. Probab.; Ann. Probab.; Ann. Appl. Probab.; J. Math. Anal. Appl.; SIAM J. Math. Anal..

Selected invited Talks

- 2022
 - Probability seminar Konstanz.
 - Stochastic analysis seminar Bielefeld.
 - Probability seminar Warwick.
 - Webinar on stochastic analysis, Beijing Institute of Technology.
 - Conference “DMV Tagung”, Berlin.
 - Workshop “SPDEvent”, Bielefeld.
 - Conference “SRA Meeting”, Berlin.
 - Conference “SPA”, Wuhan.
 - Workshop “Stochastic Dynamics for Complex Systems”, Vienna.
 - MFO meeting “Regularization by Noise”, Oberwolfach.
- 2021
 - Oberseminar dynamics, TUM Munich.
 - Vienna probability seminar (VPS), TU Wien.
 - Research seminar stochastic analysis, TU Berlin.
 - Workshop “Stochastic Dynamics for Complex Systems”, Vienna.
 - Conference “German Stochastic Days”, Mannheim.
 - Research seminar of the group of Alison Etheridge, Oxford.
- 2020
 - Oxford stochastic analysis seminar.
 - Imperial College stochastic analysis seminar.
- 2019
 - Workshop “Berlin-Leipzig workshop in analysis and stochastics”, MPI Leipzig.
 - Workshop “11th Annual Berlin-Oxford young researchers meeting”, WIAS Berlin.
 - Conference “Random partial differential equations” CIRM Luminy, Marseille.
 - Conference “BMS - BGSMath junior meeting”, TU/FU Berlin.
 - Conference “Stochastic analysis and applications”, Risør, Norway.
 - Yearly conference of the IRTG₁₇₄₀ research group.
 - Conference “SPDE day - recent progress on quasilinear equations”, HIM Bonn.
- 2018
 - Probability research seminar of the University of Campinas, Brazil.
 - Yearly conference of the IRTG 1740, Cachoeira Paulista, Brazil.
 - Conference “VI Encontro da Pós-Graduação”, University of Bahia, Brazil.
 - Workshop “8th Oxford-Berlin young researchers meeting”, Oxford.

Teaching & Organization

- 2023 Brownian motion module (ST403, University of Warwick).
- 2022 UROP project supervision, master thesis co-supervisor, tutoring of students (pastoral activity).
- 2017-2021 Organization of reading groups (approximately one a year).
- 2019-2020 Weekly advanced math (& problem solving) classes with high-school students (MSG Zirkel).

- 2019 Co-organization and planning of the IRTG 1740 yearly school and conference.
2018 Co-organization of the BMS “What is ...?” seminar.
2015-2017 Teaching assistant: homework correction and exercise classes in “Stochastic analysis”, “Differential equations” (physics master), “Analysis I” (informatics bachelor).

Research Stays

- 2022
- Sam Punshon-Smith, at Tulane University ~ 1 week.
 - Alexandra Neamtu, at University of Konstanz ~ 1 week.
 - Martina Hofmanova, at University of Bielefeld ~ 1 week.
 - Ana Djurdjevac, at FU Berlin ~ 2 weeks.
- 2018
- Paulo Ruffino, 6 Months stay at UNICAMP (University of Campinas, Brazil).

PROGRAMMING: C, Python, Cython, \LaTeX , Vim.

LANGUAGES: Italian, German (ZOP C2), English (TOEFL 115/120), French (B1), Portuguese (B1).