

Domenico Mergoni Cecchelli

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EMPLOYMENT

2026-Present: Assistant Professor on Tenure Track, Dept. of Quantitative Methods, CUNEF Universidad, Madrid

2025-Present: Visiting Fellow of the Dept. of Mathematics, London School of Economics, London

2020-2025: Teaching Assistant for the Dept. of Mathematics, Statistics, Finance, Management, London School of Economics, London

EDUCATION

2020-2025: PhD in Mathematics with a focus on Graph Theory and Game Theory. London School of Economics, London

2018-2020: MSc in Mathematics with a focus on Graph Theory. ETH Zurich, Zurich

2015-2018: BSc in Mathematics. University of Pisa

FIELDS OF INTEREST

Graph Theory; Game Theory; Multiagent Learning Dynamics

PUBLICATIONS

“Dirac's theorem for graphs of bounded bandwidth”, with A Espuny Díaz, P Gupta, O Parczyk, A Sgueglia. (2026).

“On product Schur triples in the integers”, with L Mattos, O Parczyk. SIAM Journal on Discrete Mathematics 39 (2), 1082-1095. (2025).

“The Ramsey numbers of squares of paths and cycles”, with P Allen, B Roberts, J Skokan. The Electronic Journal of Combinatorics, P2. 11-P2. 11. (2024).

WORKING PAPERS

“Reinforcement learning, collusion, and the folk theorem”, with G Askenazi-Golan, and E Plumb.

“Graphs with large minimum degree and no small odd cycles are 3-colourable”, with J Böttcher, N Frankl, O Parczyk, J Skokan

“Simultaneous best-response dynamics in random potential games”, with G Ashkenazi-Golan, E Plumb

“A Transference Principle and a Counting Lemma for Sparse Hypergraphs”, with P Allen, J Bottcher, J Lada

SELECTED ACADEMIC HONOURS AND GRANTS

- Heilbronn Institute; LMS Conference Grant for PCC 2024
- LMS Computer Science Small Grant; London Mathematical Society
- LSE Contribution Award; London School of Economics

SELECTED PRESENTATIONS

SEMINARS

- Sobre las tríplas producto-Schur en $[n]$; Universidad de los Andes. (2025)
- Ramsey number of P_n^2 ; Deutsche Mathematiker-Vereinigung (DMV). (2024)
- Hypergraph partition universality; European Conference on Combinatorics, Graph Theory and Applications. (2023)
- Chromatic profile of C_{2k-1} ; Random Structures & Algorithms. (2022)

PROFESSIONAL ACTIVITIES

- Applied Scientist Intern at Amazon
- Research Assistant for LSE Management department