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## Appointments

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Dec 2020 / Dec 2022	<b>Postdoctoral researcher</b> <b>Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany</b> Topics: <i>Theoretical Ecology, Evolutionary Dynamics, Statistical Mechanics, Stochastic Processes</i>
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## Education

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Jan 2021	<b>Ph.D, Physics</b> , University of Salerno, Italy Advisor: Federico Corberi Dissertation title: <i>Out of equilibrium problems in classical spin models of statistical mechanics</i>
Jul 2017	<b>M.S., Theoretical Physics</b> , University of Bologna, Italy 110/110 <i>cum laude</i>
Oct 2014	<b>B.S., Physics</b> , University of Bologna, Italy 110/110

## Publication list

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2022	<b>Onofrio Mazzarisi</b> and Matteo Smerlak. The role of density-dependent predation and self-regulation behind the predator-prey scaling law. <i>In preparation</i> , 2022
2022	Lorenzo Fant, <b>Onofrio Mazzarisi</b> , Emanuele Panizon, and Jacopo Grilli. Stable cooperation emerges in stochastic multiplicative growth. <i>arXiv preprint arXiv:2202.02787</i> , 2022
2021	<b>Onofrio Mazzarisi</b> , Amanda de Azevedo-Lopes, Jeferson J. Arenzon, and Federico Corberi. Maximal diversity and zipf's law. <i>Phys. Rev. Lett.</i> , 127:128301, Sep 2021
2021	Federico Corberi, Leticia F Cugliandolo, Marco Esposito, <b>Onofrio Mazzarisi</b> , and Marco Picco. How many phases nucleate in the bidimensional potts model? <i>arXiv preprint arXiv:2102.01003</i> , 2021
2020	<b>Onofrio Mazzarisi</b> , Federico Corberi, Leticia F Cugliandolo, and Marco Picco. Metastability in the potts model: exact results in the large q limit. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020(6):063214, 2020
2020	Federico Corberi, <b>Onofrio Mazzarisi</b> , and Andrea Gambassi. Dynamics of fluctuations in the gaussian model with dissipative langevin dynamics. In <i>Journal of Physics: Conference Series</i> , volume 1548, page 012027. IOP Publishing, 2020
2019	Federico Corberi, <b>Onofrio Mazzarisi</b> , and Andrea Gambassi. Dynamics of fluctuations in the gaussian model with conserved dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019(10):104001, 2019
2019	Armando Bazzani, <b>Onofrio Mazzarisi</b> , Massimo Giovannozzi, and Ewen Maclean. Diffusion in stochastically perturbed hamiltonian systems with applications to the recent lh dynamic aperture experiments. In <i>Nonlinear Dynamics and Collective Effects in Particle Beam Physics: Proceedings of the International Committee on Future Accelerators Arcidosso Italy 2017</i> , pages 70–85. World Scientific, 2019

## Conference presentations

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2021	Paris Biological Physics Community Day, Paris, France
2021	Young Seminars SIFS, Online
2019	10 <sup>th</sup> Young Researcher Meeting, Rome, Italy

## Teaching experiences

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2018 /	<b>Teaching assistant</b> , University of Salerno
2019	Physics I

## Schools and visiting experiences

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Sept/Dec 2019	Visit: <i>Sorbonne Université, Laboratoire de Physique Théorique et Hautes Energies, Paris, France</i> Host: Leticia Cugliandolo
2019	School: <i>Glasses, Jamming, and Slow Dynamics</i> , Beg Rohu, France
2018	School: <i>Entropy, Information and Order in Soft Matter</i> , ICTS, Bangalore, India
2018	School: <i>Spring College on the Physics of Complex Systems</i> , ICTP, Trieste, Italy
Jan/Dec 2018	Visit: <i>SISSA - International School for Advanced Studies, Trieste, Italy</i> Host: Andrea Gambassi

## Computer skills and languages

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Computer	Julia, C, C++, fortran, Python, sh, L <sup>A</sup> T <sub>E</sub> X
Languages	Italian (native), English (fluent), French (good), German (good), Spanish (basic)

## Journal referee

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Journal of Statistical Mechanics: Theory and Experiments, Physical Review Letters

## References

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### **Dr Matteo Smerlak**

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### **Pr Leticia Cugliandolo**

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### **Pr Federico Corberi**

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