

Gianluca Peri

Curriculum Vitae

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Education

- 2024-present **PhD in Machine Learning and Complex Systems' Physics**, *University of Florence*, Italy
Supervisor: Prof. Duccio Fanelli
Co-Supervisor: Prof. Francesco Piazza
In collaboration with: Tecnolink S.r.l.
Research Group: CSDC: Center for the Study of Complex Dynamics
- 2025-present **Long Research Stay**, *University of Namur*, Belgium
Supervisor: Prof. Timoteo Carletti
Project: Hypergraph Neural Networks & Random Walks on Loss Landscapes
- 2021-2024 **Master's Degree in Theoretical Physics**, *University of Florence*, Italy
Supervisor: Prof. Duccio Fanelli
Thesis: Generalized Spectral Formalism for Neural Networks
Grade: 110/110
- 2016-2021 **Bachelor's Degree in Physics and Astronomy**, *University of Florence*, Italy
Supervisor: Prof. Simone Landi
Thesis: Fluid Models of Supersonic Winds from Stellar Coronae
- 2011-2016 **Scientific High School Diploma**, *Liceo Scientifico A. M. Enriques Agnoletti*, Sesto Fiorentino, Italy

Employment

- 2025-present **Science Communicator**, OpenLab, Sesto Fiorentino
- 2025-present **Academic Tutor**, University of Florence, Florence
- 2021-2024 **High School Teacher**, Istituto Giovanni Dupré, Florence
- 2018-2019 **Customer Relations**, Dalle Nostre Mani, Florence

Publications

- 2025 **G. Peri, L. Chicchi, D. Fanelli, L. Giambagli**, *SPectral ARchiteCture Search for neural network models*, npj Artificial Intelligence, <https://doi.org/10.1038/s44387-025-00039-1>

Conference and Workshop Contributions

- 12/2025 **Poster**, *BeNet 2025*, 11th Edition of the Belgian Network Research Meeting, Ghent
Title of the contribution: *Spectral Architecture Search for Neural Networks*
- 07/2025 **Talk**, *Nordita*, Fluctuations in Self-Interacting and Learning Processes, Stockholm
Title of the contribution: *Training Walkers with Reinforcement Learning*
- 07/2025 **Poster**, *StatPhys29*, 29th International Conference on Statistical Physics, Florence
Title of the contribution: *Spectral Architecture Search for Neural Networks*
- 07/2024 **Talk**, *COMPENG 2024*, IEEE Workshop on Complexity in Engineering, Florence
Title of the contribution: *Generalized Spectral Formalism for Neural Networks*

Languages

- Italian Mother tongue
- English Advanced, level C1
- French Basic, level A2

References

- Prof. Duccio Full Professor - *Università degli Studi di Firenze*
Fanelli
- Dr. Lorenzo Postdoc - *Free University of Berlin*
Giambagli

LAST UPDATED ON: January 12, 2026