

# Gianluca Peri

## Curriculum Vitae

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🌐 [www.gianlucaperi.com](http://www.gianlucaperi.com)  
🔗 [gianluca-peri](https://github.com/gianluca-peri)

### 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
- 2017-2021 **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

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## 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>

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## 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*

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## Languages

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

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## References

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

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