

# Gianluca Peri

## Curriculum Vitae

✉ [gianluca.peri@unifi.it](mailto:gianluca.peri@unifi.it)  
🌐 [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*  
*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
- 2021-2024 **Master's Degree in Theoretical Physics**, *University of Florence*  
*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*  
*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

### 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

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

LAST UPDATED ON: December 2, 2025