

CURRICULUM VITAE - LORENZO MARGOTTI

Education and Work Experience

- Jul 2026 – Present **INFN Bologna, Italy**
Research Contract (CSN5) - P.I. of PHASE- γ project
- Dec 2024 – Jun 2026 **University of Bologna Bologna, Italy**
Post-doctoral researcher
- Nov 2021 – Nov 2024 **University of Bologna Bologna, Italy**
PhD in Condensed Matter Physics
Thesis title: *2D-Hybrid Perovskite Thin Films for High Energy Radiation Detection*
- Sep 2023 – Mar 2024 **University of Surrey Guildford, UK**
Visiting Researcher
- Sep 2018 – Oct 2021 **University of Bologna Bologna, Italy**
Master Degree in Material Physics and Nanoscience
Thesis work: *"On the Fabrication of a Synthetic Voltage-Gated Ion Channel based on Organic Mixed Ion-Electron Conductors"*
- Sep 2015 – Oct 2018 **University of Bologna Bologna, Italy**
Bachelor Degree in Fisica (*Physics*)
Thesis Title: *BEC e superfluidi: analogie e differenze*
- Sep 2010 – Jul 2015 **Liceo Scientifico Gregorio Ricci Curbastro Lugo (RA)**
Scientific studies

Teaching activities

- a.y. 2025/26 Tutor for the *Physics* course of Material Science and Geophysics
- a.y. 2022/23 Supporting Tutor for the Master Degree in Material Physics and Nanoscience
- a.y. 2020/21 Tutor for the *Electronic Laboratory* course (3rd year course of Bachelor degree in physics)
2021/22 at DIFA

Scientific Contribution and Prizes

- 2025 Grant Giovani Ricercatori CSN5 INFN - *Project PHASE-G*
- 2025 N. Franke, L. Fabbri, L. Margotti, et al. " Probing the DOS Band Tail in Amorphous Thin-Film Transistors via Capacitance–Voltage Analysis." *Adv. Electron. Mater.* (2025): e00527. <https://doi.org/10.1002/aelm.202500527>
- 2024 IAC proceeding, IRIS project, *Wearable, lightweight and flexible ionizing radiation dosimeters for real-time crew personal monitoring*
- 2024 Ilaria Fratelli et al. ,A wearable tool for real-time dose monitoring during cancer radiation therapies.*Sci. Adv.*11,eadt7633(2025).DOI:10.1126/sciadv.adt7633
- 2024 IEEE RTSD, *Tampa, FL*, Oral presentation entitled *2D Hybrid Perovskites for Alpha Particle Spectroscopy: from Single Crystals to Thin Films*
- 2024 I. Fratelli, L. Basiricò, A. Ciavatti, L. Margotti, S. Cepić, M. Chiari, B. Fraboni, Real-Time Radiation Beam Monitoring by Flexible Perovskite Thin Film Arrays. *Adv. Sci.* 2024, 2401124. <https://doi.org/10.1002/advs.202401124>
- 2024 L. Basiricò, M. Verdi, A. Ciavatti, L. Piergallini, E. Grassi, F. Fioroni, L. Margotti, N. Tosi, V. Cicero, A. Montanari, M. Iori, B. Fraboni, Wearable Perovskite Films for On-Line Monitoring of Radiotracers in Nuclear Medicine. *Adv. Mater. Technol.* 2024, 2401111. <https://doi.org/10.1002/admt.202401111>

- 2024 C. Zhang, L. Margotti, F. Decataldo, A. Piccioni, H. Wang, B. Fraboni, Y. Li, T. Cramer, Organic Mixed Ionic Electronic Conductor Nanochannels for Vertical Electrochemical and Ionic Transistors. *Adv. Electron. Mater.* 2024, 10, 2300762. <https://doi.org/10.1002/aelm.202300762>
- 2024 Winner of Three Minutes Thesis (3MT) for the University of Bologna
- 2024 SIF conference, talk entitled "Long-Range Signal Recording in Perovskite Materials"
- 2023 P-RAD conference, Poster on "Perovskite Thin Films for Space-Related Applications"
- 2022 NRDA2022, Poster on "2D-Layered Perovskite Films as Active Layers for Flexible and Pixelated Radiation Detectors"