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Leonardo Gasperini

Date of birth: 05/09/1994 | **Nationality:** Italian | **Gender:** Male | **Phone number:** (+39) 3400052557 (Mobile) | **Email address:** leonardo.gasperini@unibo.it |

Address: Via Giovanni Paolo Martini, 35, 40134, Bologna, Italy (Home)

WORK EXPERIENCE

01/2022 – CURRENT BOLOGNA, Italy

STUDENTE DI DOTTORATO ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

Comunità di energia rinnovabile e sistemi di accumulo: sviluppo di separatori elettrofilati nanofibrosi per batterie Litio-ione.

04/2021 – 12/2021 BOLOGNA, Italy

BORSISTA DI RICERCA ARCES - UNIVERSITÀ DI BOLOGNA

Ottimizzazione del processo di polarizzazione per le nanofibre piezoelettriche in PVDF e PZT, al fine di massimizzare il coefficiente d33 e quindi l'energia meccanica convertita.

10/2020 – 02/2021 Bologna, Italy

CURRICULAR INTERNSHIP UNIVERSITY OF BOLOGNA

Participation in the EU project "MyLeg", aimed at the developement of a smart and intuitive osseointegrated transfemoral prostheses.
Production of piezoelectric ceramic nanofibers films.

EDUCATION AND TRAINING

01/2022 – CURRENT

DOTTORATO IN INGEGNERIA BIOMEDICA ELETTRICA E DEI SISTEMI - CURRICULUM ELETTRICA ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

09/2018 – 03/2021 Bologna, Italy

2ND CYCLE DEGREE/TWO YEAR MASTER IN ENERGY ENGENEERING University of Bologna

Level in EQF EQF level 7 |

Thesis Ottimizzazione della risposta elettromeccanica di provini piezoelettrici ceramici nanofibrosi

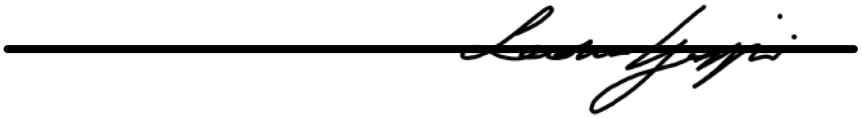
09/2013 – 06/2018 Pisa, Italy

1ST LEVEL-CYCLE DEGREE/BACHELOR IN ENERGY ENGENEERING University of Pisa

Level in EQF EQF level 6 | **Thesis** Dimensionamento di massima di un impianto fotovoltaico stand-alone

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**



Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

ThermoFlex | Microsoft Office: Word, Excel, Access, Power Point, Outlook. | MATLAB&Simulink | COMSOL Multi-Physics

ADDITIONAL INFORMATION

PUBLICATIONS

[1] G. Selleri et al., "Study on the polarization process for piezoelectric nanofibrous layers," in Annual Report - Conference on Electrical Insulation and Dielectric Phenomena, CEIDP, 2021, vol. 2021-Decem, pp. 61–64. doi: 10.1109/CEIDP50766.2021.9705470.

– 2021

[2] G. Selleri, L. Gasperini, L. Piddiu, and D. Fabiani, "Comparison between AC and DC polarization methods of piezoelectric nanofibrous layers," in 2022 IEEE 4th International Conference on Dielectrics (ICD), Jul. 2022, pp. 90–93. doi: 10.1109/ICD53806.2022.9863546.

– 2022

[3] A. Bužarovska et al., "PVDF/BaTiO3 composite foams with high content of β phase by thermally induced phase separation (TIPS)," J. Polym. Res., vol. 29, no. 7, 2022, doi: 10.1007/s10965-022-03133-z.

– 2022

[4] L. Gasperini, G. Selleri, D. Pegoraro, and D. Fabiani, "Corona poling for polarization of nanofibrous mats advantages and open issues," Annu. Rep. - Conf. Electr. Insul. Dielectr. Phenomena, CEIDP, pp. 479–482, 2022, doi: 10.1109/CEIDP55452.2022.9985267.

– 2022

[5] G. Selleri, L. Gasperini, M. Zanoni, F. Depalma, C. Gualandi, and D. Fabiani, "Characterization of piezoelectric nanofibers for energy harvesting applications," Annu. Rep. - Conf. Electr. Insul. Dielectr. Phenomena, CEIDP, pp. 270–273, 2022, doi: 10.1109/CEIDP55452.2022.9985262.

– 2022

[6] G. Selleri et al., "Energy harvesting and storage with ceramic piezoelectric transducers coupled with an ionic liquid-based supercapacitor," J. Energy Storage, vol. 60, no. April 2023, p. 9, 2023, doi: 10.1016/j.est.2023.106660.

– 2023

[7] M. Kubin et al., "Effects of nano-sized BaTiO3 on microstructural, thermal, mechanical and piezoelectric behavior of electrospun PVDF/BaTiO3 nanocomposite mats," Polym. Test., vol. 126, p. 108158, Sep. 2023, doi: 10.1016/j.polymertesting.2023.108158.

– 2023

[8] M. Kubin, P. Makreski, M. Zanoni, and G. Selleri, "Piezoelectric properties of PVDF-TrFE / BaTiO 3 composite foams with different contents of TrFE units," Polym. Compos., vol. 44, no. 8, pp. 1–13, 2023, doi: https://doi.org/10.1002/pc.27667.

– 2023

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

Bologna, 10/10/2023