

PERSONAL INFORMATION

Edoardo Negri



WORK EXPERIENCE

November 2021 – Today

PhD Student in Information and Communication Technologies (ICT) — Curriculum Applied Electromagnetics

Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome, Rome, Italy

- Research activity on Bessel beams, near-field focusing, leaky waves, metasurfaces, and wireless power transfer.
- Tutor for the Bachelor's Degree course "Electromagnetic Fields".
- Co-Supervisor of Master's Degree students for their thesis in Electronic Engineering.

March – May 2023

Visiting PhD Student at IETR (Institut d'Électronique et des Technologies du numéRique) – Rennes

September – November 2023

Visiting PhD Student at the FBH Institute – Berlin

EDUCATION AND TRAINING

September 2019 – July 2021

Master's Degree in Electronic Engineering

Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome, Rome, Italy

- Final mark: 110/110 cum laude
- Average mark (30/30 cum laude as 31): 30.5/30
- Special mention for the academic curriculum
- "Outstanding Student" scholarship from 2019 to 2021

September 2016 – July 2019

Bachelor's Degree in Electronic Engineering

Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome, Rome, Italy

- Final mark: 110/110 cum laude
- Average mark (30/30 cum laude as 31): 30.14/30
- Special mention for the academic curriculum
- "Outstanding Student" scholarship from 2016 to 2021

2011 – 2016

High School Diploma

Liceo Scientifico "Ettore Majorana" in Orvieto — Final mark: 100/100 cum laude

PERSONAL SKILLS

Mother tongue

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
B1 Level (2014) — Cambridge Certification PET (Preliminary English Test)					
French	A1	A1	A1	A1	A1

Levels: A1/2: Basic User - B1/2: Independent user - C1/2 Proficient user

Communication skills

Good communication and teaching skills thanks to my work experience as a tutor

Job-related skills

Good presentation of research results thanks to experience acquired at conferences

Computer skills	<ul style="list-style-type: none"> ▪ Electromagnetic simulators: CST Microwave Studio, Ansys HFSS, COMSOL Multiphysics ▪ Operative systems: Windows, Linux (basic knowledge) ▪ Good command of Microsoft Office™ tools ▪ Programming languages: C, C++, Arduino, Risc-V ▪ Hardware Description Languages: VHDL ▪ Circuits CAD: LTE Spice, Pspice ▪ Language for technical computing: Mathematica (basic knowledge), MATLAB ▪ Markup Languages: HTML, CSS, LaTeX
Other skills	Ability to 3D print and use relative software
Driving licence	Driving licence category B

ADDITIONAL INFORMATION

Conference Publications	<p>F. Benassi, W. Fuscaldo, E. Negri, G. Paolini, E. Augello, D. Masotti, P. Burghignoli, A. Galli e A. Costanzo, "Comparison between hybrid- and TM-polarized Bessel-beam launchers for wireless power transfer in the radiative near-field at millimeter waves", <i>51st European Microwave Conference (EuMC 2021)</i>, London, United Kingdom, 13–18 Feb. 2022, pp. 1–4.</p> <p>E. Negri, W. Fuscaldo, M. Ettorre, P. Burghignoli e A. Galli, "Analysis of resonant Bessel-beam launchers based on isotropic metasurfaces", <i>16th European Conference on Antennas and Propagation (EuCAP 2022)</i>, Madrid, Spain, 27 Mar.– 01 Apr. 2022, pp. 1–4.</p> <p>E. Negri, F. Benassi, W. Fuscaldo, D. Masotti, P. Burghignoli, A. Costanzo e A. Galli, "Effective TE-polarized Bessel-beam excitation for wireless power transfer near-field links", <i>52nd European Microwave Conference (EuMC 2022)</i>, Milan, Italy, 25–30 Sep. 2022, pp. 1–4.</p> <p>E. Negri, F. Benassi, W. Fuscaldo, D. Masotti, P. Burghignoli, A. Costanzo e A. Galli, "Recent Advances in Beam Focusing through Resonant Bessel-Beam Launchers for Millimeter-Wave WPT Applications", <i>17th European Conference on Antennas and Propagation (EuCAP 2023)</i>, Florence, Italy, 26–31 Mar. 2023, pp. 1–4.</p>
Journal Publications	<p>E. Negri, W. Fuscaldo, P. Burghignoli e A. Galli, "Leaky-Wave Analysis of TM-, TE-, and Hybrid-Polarized Aperture-Fed Bessel-Beam Launchers for Wireless Power Transfer Links", <i>IEEE Transactions on Antennas and Propagation</i>, vol. 71, no. 2, pp. 1424–1436, Feb. 2023.</p> <p>E. Negri, W. Fuscaldo, P. Burghignoli e A. Galli, "A Leaky-Wave Analysis of Resonant Bessel-Beam Launchers: Design Criteria, Practical Examples, and Potential Applications at Microwave and Millimeter-Wave Frequencies", <i>Micromachines</i>, vol. 13, no. 12, p. 2230, Dec. 2022.</p>
Projects	Researcher in the project PRIN 2017-WPT4WID "Wireless Power Transfer for Wearable and Implantable Devices" within the framework of the Research Projects of National Interest, public call n. 3728, financed by the Italian Ministry of University and Research (2021 – Today).
Reviewer Activity	IEEE Transactions on Antennas and Propagation, IEEE Access, Electronics Letters, International Journal of Microwave and Wireless Technologies, IET Microwaves, Antennas and Propagation.
Conferences	<p>16th European Conference on Antennas and Propagation (EuCAP) 2022, Madrid, Spain</p> <p>24th Riunione Nazionale di Elettromagnetismo (RiNEm) 2022, Catania, Italy</p> <p>52nd European Microwave Conference (EuMC) 2022, Milan, Italy</p> <p>17th European Conference on Antennas and Propagation (EuCAP) 2023, Florence, Italy</p>
Awards	<p>2023 IEEE Antennas and Propagation Society Fellowship Award</p> <p>"EuMA Internship Award", hosting institution Leibniz Institute FBH, Berlin, Germany</p> <p>"Antonio Ventura" award as one of the best Engineering students in Sapienza University of Rome</p>
Memberships	Antennas and Propagation Society Member, IEEE Graduate Student Member, EuMA Student Member, and SIEM ("Società Italiana Elettromagnetismo") Member