

Mattia Mengozzi

Ricercatore Post-Doc in Ingegneria Elettronica



Informazioni Personali



2 Novembre, 1995



Via Fratelli Bandiera 12, 48018, Faenza (RA), Italia



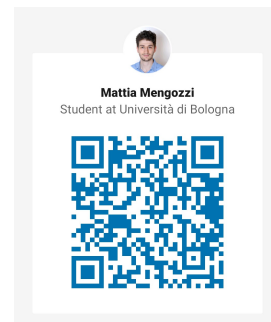
+39 3393612889



mattia.mengozzi@outlook.it



linkedin.com/in/mattia-mengozzi



Esperienza Scientifica

- 2024-Ora Ricercatore Post-Doc**, *Advanced Research Center on Electronic System (ARCES), University of Bologna*, Bologna, IT.
- Progetto: R-PODID - Reliable Powerdown for Industrial Drives
- 2020-2024 Studente di Dottorato**, *Department of Electrical, Electronic, and information Engineering (DEI), University of Bologna*, Bologna, IT.
- 2022-2023 Gastwissenschaftler (Visiting Researcher)**, *Ferdinand-Braun-Institut gGmbH*, Berlin, DE.
- Progetto: "Behavioral Modeling and DPD Techniques for Multiple-Input Multiple-Output Transmitters"
 - Descrizione (ENG): the focus was on optimizing device parameters for multiple-input power amplifiers, utilizing nonlinear optimization algorithms. An automated measurement setup was created to characterize multiple-input microwave devices using wideband modulated signals. The project involved validating and characterizing microwave integrated circuits performance, assessing output power, efficiency, and linearity.
- 2019-2020 Tirocinio per Tesi Magistrale**, *EDM-LAB (Electronic Design and Measurement Lab for RF and Industrial Applications)*, Bologna, IT.
- Progetto: "PA digital Predistortion for Maximum RF Output Power by Global Constrained Optimization"

Esperienza Didattica

- 2024-Ora Professore a Contratto**, *University of Bologna*, Bologna, IT.
- Corso: "B0039 - Laboratorio di Elettrotecnica e Misure P-LU"
- 2024-Ora Tutor Didattico**, *University of Bologna*, Bologna, IT.
- Corso: "88150 - Strumentazione di Misura P" (ING-INF/07)
- 2023 Tutor Didattico**, *University of Bologna*, Bologna, IT.
- Corso: "37063 - Principles of Electronics for Automation T" (ING-INF/01)
 - Corso: "97454 - Laboratorio di Elettrotecnica e Misure P (Modulo 2)" (ING-INF/07)

Istruzione

- 2020-2024 Ph.D. in Electronic Engineering**, *University of Bologna*, Bologna, IT.
- Progetto: "Performance Optimization Methods for Multiple-Input 5G Transmitters"
- 2017-2020 Laurea Magistrale in Ingegneria Elettronica**, *University of Bologna*, Bologna, IT.
- Voto: 110/110 with honours
 - Tesi: "Direct Learning Power Amplifier Digital Predistortion using Multi-Objective Optimization"
 - Supervisor: Prof. A. Santarelli
- 2014-2017 Laurea in Ingegneria Informatica**, *University of Bologna*, Bologna, IT.
- Voto: 110/110 with honours
 - Tesi: "Estensione Deterministica del simulatore di Delay-Tolerant Network TheONE"
 - Supervisor: Prof. C. Caini

Pubblicazioni

Lista Completa: [Google Scholar Link](#)

Contributi a Congressi e Workshops

- 2023 European Microwave Week:** speaker at the EuMIC technical sessions (finalist for the EuMIC best paper award) and at the short course "Wideband Microwave Measurements of Multi-Port Devices on VNA-Type Measurement Systems" and the workshop "Design, Linearization, and Optimization Techniques for Multiple-Input Power Amplifiers." Berlin, DE.
- 2023 International Microwave Symposium:** speaker at IMS 2023 and at the 101st ARFTG Conference technical sessions. San Diego, CA.
- 2022 IEEE Young Professional Workshop on Modeling and Optimization for Active Devices,** Virtual.
- 2022 International Microwave Symposium:** speaker at IMS 2022 technical sessions. Denver, CO.
- 2020 Asia-Pacific Microwave Conference:** speaker at APMC 2020 technical sessions. Virtual.

Awards

- 2022 MTT-S Graduate Fellowship** (Project: "Multiple-Input RF PAs Digital Predistortion by Machine Learning Optimization")
- 2021 EuMA Internship Award** (Project: "Behavioral Modeling and DPD Techniques for Multiple-Input Multiple-Output Transmitters")
- 2019 MTT-S Undergraduate Scholarship** (Project: "Performance Optimization of GaN HEMTs by Combined RF and LF Wideband Load-Pull")

Competenze

- Lingue
- o **Italiano** - Native speaker
 - o **Inglese** - Full Professional Proficiency
 - o **Tedesco** - A2 level obtained at University of Bologna

Generali	Digital signal processing, RF measurements, instrument control (VISA API)
Programmazione	Java, C, C++, VHDL, .NET, software engineering basics
Software	MatLab, Eclipse, Visual Studio, Git, Keysight ADS, Quartus, LTspice, Cadence Virtuoso
Sistemi Operativi	Linux (Debian/Ubuntu system administration skills), Windows
Produttività	LaTeX, MS Office