Bernardo Petracchi

bernardopetracchi@gmail.com
Skype: bernardopetracchi

Academic Education

Dottorato di Ricerca (PhD)

Bioengineering, Bioinformatics, and Health Technologies, University of Pavia	2025 (expected)

Laurea Magistrale (MS)

Electronic Engineering, University of Florence	2021

Laurea (BS)

Electronic and Telecommunications Engineering, University of Florence	2018

Other Education

Arduino Unchained	2025
Programmazione ad Oggetti e Ingegneria del Software (course with exam), University of Pavia	2024
Laboratorio di FPGA (course with exam), University of Pavia	2023
Coaching ForDoc (course), University of Pavia	2023
High Performance Computing Summer School, University of Pavia	2023
Cyber Physical Systems Summer School, Pula (Sardinia)	2022
Staphyloxanthin-Targeting Phototherapy Platform to Combat Methicillin-Resistant S. Aureus Infection (seminar), University of Pavia	2022
The Data Driven Approach & Data Intensive Applications: The Data Platform's Paradigm and its Layers (seminar), University of Pavia	2022
Machine Learning Specialization (course), Coursera	2022
Python 3.10 Guida Completa: da Principiante a Esperto (course), Udemy	2022
Machine Learning (course with exam), University of Pavia	2022
Deep Learning (course), MATLAB	2022
Machine Learning (course), MATLAB	2022
Introduction to Simulation and Debug of FPGAs (course), Intel	2021
Introduction to FPGAs and the Intel Quartus Prime Software (course), Intel	2021
Second-Level Sommelier Certificate, FISAR, Prato	2019
First-Level Sommelier Certificate, FISAR, Prato	2018

Scholarships

Erasmus Scholarship, RWTH Aachen University	2018

Work Experience

Engineer (natural language processing models for textual data extraction and management), VesendaS.r.l., Pavia	2024
Engineer (ultrasound systems for railway monitoring), Comesa S.r.l., Prato	2021
High-School Tutor (mathematics, physics, computer science, and electronics)	2016-2021
Grape Harvester, Piandaccoli Farm, Florence	2016

Academic Publications

"Petracchi, B.; Torti, E.; Marenzi, E.; Leporati, F. Acceleration of Hyperspectral Skin Cancer Image Classification through Parallel Machine-Learning Methods, Sensors, 2024."

"Petracchi, B.; Gazzoni, M.; Torti, E.; Marenzi, E.; Leporati, F. Machine Learning-Based Classification of Skin Cancer Hyperspectral Images. In Proceedings of the 27th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems; Athens, September 2023; pp. 1–11."

Skills and Competencies
- English (fluent), Italian (native)
- MATLAB, Simulink, Intel Quartus Prime, VHDL, Vivado Design Suite, C, Cuda C, Open MP, Visual Studio, Python, Pytorch, Anaconda, LabVIEW, Java, Arduino
- Communication Skills
- Attention to Detail
- Flexible and Adaptive
- Time-Management Skills and Punctuality
- Teamwork Skills

Hobbies and Interests

In my spare time, I enjoy playing soccer, cycling, reading, wine tasting, and cooking

Prato, April 2025

SIGNATURE
Bernardo Petracchi