

William Colombini

Master's Degree in Condensed Matter Physics – Data Analysis and AI

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Profile

Master's graduate in Physics with expertise in data analysis, machine learning, and coding. Experience in developing predictive models and handling complex data, gained in academic settings. Strong interest in coding, software development, and application of digital technologies. Solid communication skills, problem-solving ability, and a strong attitude towards continuous learning.

Education

- 2021 – 2024 **M.Sc. in Condensed Matter Physics**, *University of Milano-Bicocca*, Milan, Italy
Final grade: 110/110
Thesis: "*Hyperspectral image analysis for plant disease identification*"
Project focused on multivariate analysis and machine learning, implemented in **MATLAB**.
- 2017 – 2021 **B.Sc. in Physics**, *University of Pavia*, Pavia, Italy
Final grade: 100/110
Thesis: "*Raman spectroscopy applied to the analysis of Lucio Fontana's inks*"

Work Experience

- Sep 2024 – **Teacher in Mathematics and Physics**, *Liceo Statale B. Cairoli*, Vigevano, Italy
Jun 2025 Designed and implemented teaching activities with digital tools.
- Jun 2024 – **Software Developer**, *Sant'Ambrogio Servizi Industriali Srl*, Milan, Italy
Jul 2024 Introduction to *design patterns* and *testing* in the context of OOP using C#.
- Oct 2022 – **Teacher in Mathematics and Physics**, *Istituto Magistrale "A. Cairoli"*, Pavia, Italy
Dec 2022 Enhanced communication and organizational skills while managing complex student groups.
- Jan 2022 – **Teacher in Mathematics and Financial Mathematics**, *IIS "Italo Calvino"*, Opera, Italy
Jul 2022 Introduction to basic financial mathematics and classroom management.

Technical Skills

- Data Analysis Python, MATLAB, Excel
- ML Supervised and unsupervised models, optimization, cross-validation
- Coding C++, C#, HTML/CSS, JavaScript, SQL, LaTeX
- Other Git, Linux, process automation, PowerPoint

Soft Skills

- Key Competencies Critical thinking, problem solving, communication, teamwork, adaptability, curiosity
- Languages Italian (native), English (intermediate)

Career Goals

- Fields Data analysis, process automation, EdTech, energy, finance
- Roles Data analyst, software developer