Valeria Amato
PhD Candidate for Energy Transition

About me

I'm a Computer Science and Engineering graduate with a specialization in Machine Learning and Data Science. I have a strong background in entrepreneurial projects from my time in university.
I'm excited to continue my education with a Ph.D. and working to become a business owner.

Contact

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Github
https://github.com/ValeMTo

LinkedIn
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Based in
Milan, Italy

Willing to travel

Extra activities

Growth hacker - Italia's Growth Talent 2023
Martech solutions: measure the performance of online and offline content, campaigns for customers, and sponsor acquisition.

New Generation Mentor - InnoVits
Junior mentoring in five-month startup acceleration program

Mentee - Lead The Future
Italian STEM mentorship program for young talents

Languages

Italian ◆◆◆◆◆◆◆◆
English ◆◆◆◆◆◆◆
Spanish ◆◆◆◆◆

Education

December 2024 - Expected graduation in January 2028
Politecnico di Milano
PhD Candidate in Information Technology (area: System & Control)

September 2022- October 2024
Politecnico di Milano | Aalto-University
EIT Digital Data Science Double Master's degree - 110L/110 | Pass with Honours

December 2022- September 2024
Politecnico di Torino | Politecnico di Milano
Alta Scuola Politecnica
An elite Italian academy for 150 top university talents, shaping versatile leaders for multidisciplinary fields.
Project: Structural Health Monitoring for Bridges
Ended with grade "Excellent" - https://www.asp-poli.it/ambrose/

September 2019 - September 2022
Politecnico di Milano
Computer Science Engineering Bachelor's degree - 109/110

Experience

January 2025 - Ongoing
CMCC Foundation - TCT Division
Researcher in energy systems modelling

Researching energy systems modelling, focusing on the energy nexus to improve infrastructure realism. Developing advanced modelling techniques to improve decision-making for sustainable energy transition and climate resilience.

December 2023 - November 2024
InterGrid Oy
Machine Learning Engineer

Working in the analytics department and I am currently also doing my Master's Thesis, named "Forecast-driven bidding strategies in the finnish day-ahead and capacity reserve electricity markets". My responsibilities come across forecasting the electricity market or related variable, despite the volatility of the market.

February 2023 - October 2023
Osservatori.net Digital Innovation | PoliMi GSOM
Business Data Analyst

Conducting market research analysis within the Artificial Intelligence, Big Data, and Business Analytics departments. Focusing on clustering and pattern analysis within the tech market to gain deeper insights into market dynamics.

November 2020 - September 2023
Entrepreneurship Club Polimi | Politecnico di Milano
President & IT Team Head

Largest student entrepreneurship club in Milan. Following four months as an IT specialist, I assumed the role of IT team leader, ultimately concluding my tenure as the organization's president. Throughout my term, we orchestrated a weekly event, conducted a university startup challenge, administered a PoliMi course, and organized four trips around Europe. The position will be ended in late September.

Last Relevant Projects & Works

Tu Delft Honours Programme
September 2023

Leadership course for **engineers**.
One week of intensive course with 30 selected students. Improving communication, networking, and negotiation skills.

Korean TV RecSys
October 2022 - January 2023

Position: **13th** out of 90 teams
PoliMi's competition to develop a **recommender system** for a Korean television company.

The Digital Hub
November 2022

Performing market research analysis to grasp the **Dublin startup ecosystem's dynamics**, with the goal of **automating** the process for future comparisons.

Arduino for children
June 2022

Volunteer teaching Arduino to children, **fostering creativity** and STEM skills in a hands-on, engaging way, igniting their passion for technology.

Zero Knowledge Proof
March 2023 - July 2023

Tool designed to convert **ONNX** models into **Circom circuits** using the library onnx2circom, implemented by me, which calculates the hash with the Poseidon formula and computes witness of the given circuit for **blockchain** uses.

Computer Vision
October 2022 - December 2022

Implementation of a Neural Network to **classify** 8 different plant species from photos.

Awake alerting system
March 2022 - June 2022

A data analytics project aimed at crafting a **sensor** capable of alerting caregivers when a person leaves their bed, **enhancing safety** and support for individuals in need.

Software Engineering
Febraury 2022 - June 2022

Developed the Eriantys **board game in Java**, featuring both command-line interface (CLI) and graphical user interface (GUI) options for enhanced gaming experiences.