

VIRGINIA MARCELLI

 Department of Computer, Control, and Management Engineering Antonio Ruberti (DIAG), Rome, Italy

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EDUCATION

PhD Program in Automatic Control, Bioengineering and Operations Research Nov 2025 – Present
Sapienza University of Rome, Italy
Curriculum: Operations Research, Supervisor: Prof. Laura Palagi

Research interests: Mixed-Integer Programming, Optimal Decision Trees and Interpretable Machine Learning

MSc in Management Engineering Oct 2023 – Oct 2025
Sapienza University of Rome, Italy
Curriculum: Business Intelligence and Analytics

Thesis: *Tailored Heuristics for Margin Optimal Regression Trees: Greedy and Random Forest Driven Approach*
Advisors: Prof. Laura Palagi

Grade: 110/110 cum laude

Main subjects: Operations Research, Optimization Methods for Machine Learning,
Game Theory, Combinatorial Optimization, Machine Learning for Industrial Engineering

BSc in Management Engineering Oct 2020 – Oct 2023
Sapienza University of Rome, Italy
Grade: 110/110

Erasmus+ exchange semester Sep 2022 – Feb 2023
Instituto Superior de Engenharia do Porto (ISEP), Porto, Portugal

Scientific High School 2015–2020
Liceo Scientifico Statale Camillo Cavour, Rome, Italy
Grade: 100/100

EXPERIENCE

Student Collaboration Scholarship – Library Services Jan 2024 – July 2025
Department of Computer, Control, and Management Engineering Antonio Ruberti (DIAG), Rome, Italy
Assisted with library services, including user support, management of study spaces and organization of bibliographic resources

CONFERENCES & WORKSHOPS

10th AIROYoung workshop on “Optimization between determinism and uncertainty” Feb 10th-13th 2026
University of Padova, Padova, Italy
Delivered a talk titled “*Tailored Heuristics for Margin Optimal Regression Tree*” published in the 10AYW - Book of Abstracts.

CNR-IASI, 2nd ROMA CUTE workshop May 29th 2026
Consiglio Nazionale delle Ricerche (CNR), Rome, Italy
Delivered a talk titled “*Tailored Heuristics for Margin Optimal Regression Tree*”

SIAM Conference on Optimization (OP26)
The University of Edinburgh, Edinburgh, United Kingdom

Jun 2nd - Jun 5th 2026

EUROPT 2026 - 23rd EUROPT Conference on Advances in Continuous Optimization Jul 8th - Jul 10th 2026

Johannes Kepler University Linz, Linz, Austria

Delivered a talk titled “*Margin Optimal Trees for Nonlinear Regression*” published in the 23rd EUROPT - Book of Abstracts.

PhD SCHOOLS

10th AIROYoung Summer School on Optimization Between Determinism and Uncertainty Feb 9th 2026

University of Padova, Padova, Italy

Lecturer: Matteo Fischetti, Marco Di Summa, Francesco Rinaldi, Domenico Salvagnin

EUROPT 2026 – 6th Summer School on Continuous Optimization

Jul 6th-7th 2026

Johannes Kepler University Linz, Linz, Austria

Lecturer: Martin Schmidt, Etienne de Klerk

PUBLICATIONS

- I. Ciocci, V. Marcelli, M. Monaci, L. Palagi *Random Forest-driven Heuristic for Margin Optimal Regression Trees*. Department of Computer, Control and Management Engineering Library [Technical Report]

CERTIFICATES

IELTS Certificate in English – Level C1

Jul 2023

Spanish Language Certificate - Level B1

Dec 2025

SKILLS

Core Competencies	Operations Research, Data Analysis
Computer skills	Python, CPLEX, Gurobi, R, L ^A T _E X, Microsoft Office
Python Libraries	Numpy, Pandas, Scipy
Languages	Italian: mother tongue, English: fluent, Spanish: basic

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