



# Edoardo Cesaroni

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## ● ESPERIENZA LAVORATIVA

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**JUNIOR IT CONSULTANT – JUNIOR ENTERPRISE OF SAPIENZA UNIVERSITY OF ROME (JESAP CONSULTING) –**  
01/03/2023 – 01/03/2024 – ROMA, ITALIA

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Created productivity-focused digital solutions for the **Junior Enterprise** and external clients, including applications for **inventory and sales management** and mathematical models for **personnel scheduling**. The personnel management software I developed was awarded **Best Project** by JE Italy.

## ● ISTRUZIONE E FORMAZIONE

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01/11/2023 – ATTUALE Roma, Italia

**ABRO PH.D. PROGRAM IN OPERATIONS RESEARCH** La Sapienza Università di Roma

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- Research on continuous optimization and machine learning, particularly emphasizing **derivative-free** methods.
- Among the **projects** carried out:
  - Optimizing electric accumulator sizing to support railway transportation.
  - Applied advanced feature selection methods to analyze an imbalanced dataset, identifying key predictors of gastric neoplastic lesions.
- Participated and won the **Synthetic Data Hackathon 2024** organized by Aindo. Contributed to developing AI models for innovative smart home applications using synthetic datasets.
- Conducted teaching activities in **Linear Algebra, Analysis, and Optimization Methods for Machine Learning** for bachelor's and master's engineering students.
- Successfully completed the "**CO@WORK 2024**" doctoral school, passing the final examination.
- Visiting research period at **NOVA Math** in Lisbon, focusing on multi-objective derivative-free algorithms for bilevel optimization problems. Delivered a seminar entitled "Derivative-Free Optimization for Bilevel Programming".

**Sito Internet** <https://www.uniroma1.it/it/pagina-strutturale/home>

**Link** <https://co-at-work.zib.de/> | <https://www.aindo.com/news/hackaton/> | <https://novamath.fct.unl.pt/>

25/09/2021 – 21/07/2023 Roma, Italia

**MASTER OF SCIENCE IN DECISION-MAKING MODELS FOR MANAGEMENT ENGINEERING** La Sapienza Università di Roma

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- Equipped with the necessary theoretical, modeling and methodological skills for the **formulation and solution of decision-making problems** in complex systems.
- Among the **projects** carried out: implemented Truncated Newton for **unconstrained optimization**, Penalty and Augmented Lagrangian method for **constrained optimization**, and developed an FNN for function approximation and an SVM for script recognition in **machine learning**.
- Attended the Sapienza **Honours Programme**: selected as one of the top 15 students in the course enabled attendance at seminars led by distinguished professors and experienced managers from prominent enterprises, offering valuable insights into contemporary topics.
- **Thesis Project**: "Formulation of an ML-based Model for the Assessment of Maximum Sprint Capability in Elite Soccer Players"

**Sito Internet** <https://www.uniroma1.it/it/pagina-strutturale/home> | **Voto finale** 110 Cum laude

•Comprehensive education integrating physical-mathematical principles with information sector disciplines, emphasizing economic analysis, organizational comprehension, and rigorous mathematical **problem-solving**.

**Sito Internet** <https://www.uniroma1.it/it/pagina-strutturale/home> | **Voto finale** 110 Cum laude

Roma, Italia

**CEFR LEVEL B2** Cambridge Institute

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**Sito Internet** <https://www.cambridgeenglish.org/exams-and-tests/first/>

## ● **COMPETENZE LINGUISTICHE**

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Lingua madre: **ITALIANO**

Altre lingue:

	COMPRESIONE		ESPRESSIONE ORALE		SCRITTURA
	Ascolto	Lettura	Produzione orale	Interazione orale	
<b>INGLESE</b>	C1	C1	C1	C1	B2

*Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato*

## ● **COMPETENZE**

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Social Network | Conoscenza avanzata di Python e delle principali librerie (NumPy, Pandas, scikit-learn, Matplotlib) | Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) | Windows

## ● **CONFERENZE E SEMINARI**

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14/02/2024 – 16/02/2024 Università della Calabria, Rende, Italia

### **AIROYoung Workshop**

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Presented my master's thesis work, *Formulation of an ML-based Model for the Assessment of Maximum Sprint Capability in Elite Soccer Players*

**Link** <https://www.unical.it/ayw2024/>

24/06/2024 – 28/06/2024 Lund University, Lund, Svezia

### **EUROPT 2024**

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Presented my master's thesis work, *Formulation of an ML-based Model for the Assessment of Maximum Sprint Capability in Elite Soccer Players*

**Link** <https://europt2024.event.lu.se/>

29/06/2025 – 02/07/2025 University of Southampton, Southampton, UK

### **EUROPT 2025**

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Presented the research work entitled *Derivative-Free Bilevel Optimization with Inexact Lower-Level Solutions*

**Link** <https://europt2025.org/>

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Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".  
Autorizzo alla pubblicazione