

Giulio Scarponi

EDUCATION AND TRAINING

PhD in Operations Research

Sapienza University of Rome

Since 11/2022 - Rome, Italy

Master's Degree in Management Engineering/ Ingegneria Gestionale

Sapienza University of Rome

09/2020 – 10/2022 - Rome, Italy

- **Graduation vote:** 110 cum laude/ 110
- **Curriculum:** Decision-making models for management engineering
- **Participation in Management Engineering Excellence Program**
- **Master thesis:**
 - **Title:** Pianificazione ottima del lavoro ibrido: un caso reale di studio
 - **Abstract:** Analysis and resolution through modeling and optimization of a real scheduling problem of a Bank's department. The process included the creation of the model, its implementation in Python and tests in many different scenarios, both real and fictitious.
 - **Thesis supervisor:** Prof. Marco Sciandrone

Bachelor's Degree in Management Engineering/ Ingegneria Gestionale

Sapienza University of Rome

09/2017 – 30/10/2020 - Rome, Italy

- **Graduation vote:** 110 cum laude / 110
- **Bachelor Thesis:**
 - **Title:** Laboratorio di ricerca operativa
 - **Abstract:** Modeling and solving a mathematical programming problem aimed at optimizing production, shipping, purchasing and sales of a case company (AMPL)
 - **Thesis supervisor:** Dr. Giorgio Grani

Scientific High School Diploma

Ettore Majorana Scientific High School

Rome, Italy

- **Final score:** 100/100

RELEVANT PROJECTS

Master Thesis

Implementation of a mixed-integer linear programming model to solve a real scheduling problem aimed at organizing the presence of employees in the office, while respecting needs and constraints and taking into account goals and preferences (Python).

Bachelor Thesis

Implementation of a mixed linear programming model to optimize production, purchasing, shipment and sales of a case company (AMPL).

Implementation of Optimization Algorithms

Implementation of algorithms for local and global unconstrained nonlinear optimization in the "Ottimizzazione Continua" (Continuous Optimization) course and methods for solving multi-objective optimization problems (optimization of a stock portfolio) (Python).

Implementation of Shallow Neural Networks

Implementation of Multilayer Perceptron, Radial Basis Function and Support Vector Machines neural networks for solving regression and classification problems during the course "Optimization Methods for Machine Learning" (Python).

Algorithmic Trading

Implementation of an algorithm for trading within a course part of Management Engineering Excellence Program (Python).

OTHER EXPERIENCES

- Participation in **the Management Engineering Excellence Program**
- Attendance at **Summer School on Optimization, Big Data and Applications**, OBA 2022, Third Edition
- National Finalist at "**University Management Competition**" 2020 | 2021
- **Scout** AGESCI 2006 | 2019

LANGUAGE SKILLS

Mother tongue: Italian

Foreign languages: English (Intermediate)

DIGITAL SKILLS

Programming Languages: Python, LaTeX, AMPL, R, SQL

Popular applications and programs: Microsoft Office (Word, Excel, PowerPoint), MySQL, Bizagi Studio, Bizagi Modeler, BPMN

CONTACT INFORMATIONS

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