



Curriculum Vitae of Matteo Magnani

Name and Surname **Matteo Magnani**

Citizenship Italian

Date of birth 06/02/1995

Professional Experience

Date 01 October 2023 – Today

Lecturer of the course "Data Science" (30 hours) PCTO, school-work alternation, at the I.I.S. "Blaise Pascal", Reggio Emilia.

Date 01 July 2023 - Today

Esautomotion corporate collaboration, for the search for solutions to bending process optimization for 2D bends on sheets.

Date 01 June 2023 - Today

Participant PRIN2022, on "Numerical Optimization with Adaptive Accuracy and Applications to Machine Learning".

Date 01 April 2022 - Today

Marazzi Group corporate collaboration, for the search for solutions to the problem of 3D Bin Packing.

Date 01 October 2022 – 01 May 2023

Lecturer of the course "Data Science" (30 hours) PCTO, school-work alternation, at the I.I.S. "Blaise Pascal", Reggio Emilia.

Date 01 November 2021 - Today

Ph.D. at Industrial Innovation Engineering of the University of Modena and Reggio Emilia entitled "Causal Analysis of big data for the study of social behaviours", with scholarship.

The research areas fall within Operations Research and Numerical Optimization, Artificial Intelligence and Machine Learning.

Date 01 July 2020 - Today

Collaboration with Professor Mauro Dell'Amico for research activities on the problem of the Distributor's Pallet Loading Problem.

The central themes of the work are the search for mathematical models and algorithms (heuristics and meta-heuristics) for the solution of the problem, with particular focus on the comparison with results obtained by other authors.

Date 01 April 2021 – 31 October 2021

Holder of a research grant "Data analysis for the Italian pilot" of the European project "Monetizing car & mobility data for new Entrants, Technologies and Actors" 5GMETA — G.A. 957360." - S.S.D. MAT/09 (Operations Research); MAT/08 (Numerical Analysis) - at the Department of Engineering Sciences and Methods.

Date 28 February 2021 – 28 March 2021

Teacher of mathematics at the Galvani Iodi high school, Reggio Emilia. Grades from first to fifth.

Date 16 April 2020 – 16 October 2020

Business Analyst Trainee at Eletttric80, Via Guglielmo Marconi 23, Viano, Reggio nell'Emilia. Design and creation of an algorithm for Bin Packing in 3D, with mathematical model.

Date 26 June 2019 – 05 July 2019

Teacher of mathematics, at the Matilde di Canossa high school, Reggio nell'Emilia.

Education

Date September 2018 - December 2020

LM-40, Master's Degree in Mathematics

University of Modena and Reggio Emilia - Department of Physical, Computer and Mathematical Sciences

Graduation grade 110 out of 110 summa cum laude

Date September 2014 - April 2018

LM-35, Bachelor of Science in Mathematical Sciences

University of Modena and Reggio Emilia - Department of Physical, Computer and Mathematical Sciences

Research product

Paper Conference Proceedings M. Magnani, M. Dell'Amico, G. Franchini, L. Zanni (Giugno 2023). A machine learning approach to speed up the solution of distributor's loading problems, Numerical Computations: Theory And Algorithms (NUMTA2023), Italia.

Presentation at international conference M. Magnani, M. Dell'Amico, L. Zanni (Settembre2021). A MathHeuristic for a real-life Pallet Loading Problem, annual conference of Operations Research Societies of Switzerland (SVOR), Germany (GOR e.V.) and Austria (OGOR), OR2021. Operation Research Proceedings, SPRINGER.

Journal paper Dell'Amico M., Magnani M. Solving a Real-Life Distributor's Pallet Loading Problem. Mathematical and Computational Applications. 2021; 26(3):53.

Language Skills

ITALIAN: mother tongue

ENGLISH: written (B2), spoken (B2)

SPANISH: written (A2), spoken (A1)

Skills

OFFICE AUTOMATION

LaTeX (Advanced), Microsoft Word (Advanced)

Microsoft Excel (Intermediate)

Microsoft PowerPoint (Intermediate)

APPLICATION SOFTWARE

MATLAB (Intermediate), Pycharm (Intermediate)

PROGRAMMING LANGUAGES

C (Basic), C++(Basic), Python (Advanced)

Other experiences

Date 01 June 2021 - Today

Activity President of the Association of Social Promotion "Lazzaroni – APS", Scandiano, Reggio Emilia.

Date 01 September 2016 - Today

Activity AGESCI Scout Chief.

What is stated in this curriculum vitae is true, pursuant to articles 46 and 47 of Presidential Decree 445/2000. I authorize the processing of my personal data in my CV pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and art. 13 of the GDPR (EU Regulation 2016/679).

01/01/2024

Signature