

EDUCATION AND TRAINING

11/2020 – CURRENT – Rome, Italy **PHD PROGRAM IN AUTOMATIC CONTROL, BIOENGINEERING AND OPERATIONS RESEARCH (ABRO)** – Sapienza University of Rome

Mixed Integer Programming, Combinatorial Optimization, Interpretable Machine Learning, Game Theory **Address** Rome, Italy | **Field of study** Operations Research

1/2022 – 7/2022 – New York City (NY), United States **VISITING RESEARCHER –** Columbia University

Research activity on Incremental Knapsack problems with Submodular Profits with prof. Yuri Faenza **Address** New York City (NY), United States

9/2018 – 10/2020 – Rome, Italy MSC IN MANAGEMENT ENGINEERING – Sapienza University of Rome

Optimization Methods for Machine Learning, Business Process Management, Combinatorial Optimization, Probabilistic Models for Finance, Games and Equilibria.

Address Rome, Italy | Field of study Business Intelligence and Analytics | Final grade 110/110 cum laude |

Thesis Polyhedral Methods for Stable Set Congestion Games

2/2020 – 4/2020 – Madison (WI), United States VISITING SCHOLAR – University of Wisconsin-Madison

Research activity for my Master's thesis under the supervision of professor Carla Michini

Address Madison (WI), United States

9/2015 – 10/2018 – Rome, Italy BSC IN MANAGEMENT ENGINEERING – Sapienza University of Rome

Statistics, Linear Programming, Combinatorial Optimization, Production Systems and Supply Chain Management Address Rome, Italy | Final grade 110/110 cum laude

9/2010 – 6/2015 – Rome, Italy CLASSICAL HIGH SCHOOL – Liceo Classico-Linguistico Tito Lucrezio Caro

Address Rome, Italy | Final grade 100/100

PUBLICATIONS

Margin Optimal Classification Trees

2022 F.D'Onofrio, G. Grani, M. Monaci, L. Palagi Under review 2022 F. D'Onofrio, C. Michini Under review

CONFERENCES AND SEMINARS

5/2022 – New Brunswick (NJ), United States MIP 2022 - Mixed Integer Programming Workshop

Poster session presentation: Margin Optimal Classification Trees

9/2021

ODS 2021 - International Conference on Optimization and Decision Science

Conference presentation: Feature Selection in the diagnosis of complex diseases: an SVM Mixed Integer approach versus a SHAP driven model

9/2021 - Firenze, Italy

ODS 2022 - International Conference on Optimization and Decision Science

Conference presentation: Margin Optimal Classification Trees

5/2021 MIP 2021 - Mixed Integer Programming Workshop

Poster presentation: Stable Set Congestion Games on Chordal Graphs

5/2021

IPCO 2021 - Conference on Integer Programming and Combinatorial Optimization

Poster presentation: Stable Set Congestion Games on Chordal Graphs

TEACHING ACTIVITIES

9/2022 – 2/2023 **Teaching Assistant**

Teaching Assistant for the "Analisi Matematica" course of the BsC in Management Engineering at Sapienza Università di Roma (A.Y. 2022/2023)

9/2021 – 2/2022 **Teaching assistant**

Teaching Assistant for the "Analisi Matematica" course of the BsC in Management Engineering at Sapienza Università di Roma (A.Y. 2021/2022)

HONOURS AND AWARDS

9/2021

International research mobility grant - Sapienza University of Rome

9/2019

International thesis scolarship - Sapienza University of Rome

9/2015

Merit scolarship - Sapienza University of Rome

DIGITAL SKILLS

My Digital Skills

Python | Microsoft Office | LaTeX | Gurobi | IBM CPLEX | Bizagi | AMPL

Python Libraries

Numpy | Pandas | Matplotlib | Scikit-learn

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN** Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production Spoken interaction		1
ENGLISH	C2	C2	C1	C1	C1
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user