

INFORMAZIONI PERSONALI Mariagrazia Cairo**POSIZIONE RICOPERTA** PhD student in methodological statistics
University of Rome, Sapienza**ESPERIENZA
PROFESSIONALE**From November 2023 PhD student in methodological statistics
University of Rome, Sapienza
(From November 2023)**ISTRUZIONE E FORMAZIONE**October 2020 - January 2023 Master Degree in Statistical Sciences
curriculum Data Analyst

University of Rome, Sapienza

Grade: 110/110 cum laude

Supervisor: Prof. Umberto Ferraro Petrillo

Title of the thesis: "A distributed approach to normalization of large-scale single-cell RNA-seq data."

The project of the thesis involved the conception, development and testing in Java using Apache Spark of a distributed normalisation algorithm based on the Psinorm normalisation method implemented by M. Borella, G. Martello et al., in PsiNorm: a scalable normalisation for single-cell RNA-seq data.

September 2017 - July 2020 Bachelor Degree in Mathematics

University of Salento

Grade: 110/110 cum laude

Supervisor: Prof. Anna Maria Cherubini

Title of the thesis: "The mathematics of contagion: mathematical models applied to an infection."

The project of the thesis involved a comparison of the best-known models in the literature for studying and predicting the development of infectious diseases. The study of models was accompanied by a graphical study with the aid of Matlab.

September 2012 - June 2017 Scientific Diploma

Liceo scientifico Cosimo De Giorgi (LE)

Grade: 100/100 e lode

COMPETENZE PERSONALI

Lingua madre Italiano

Altre lingue

Inglese

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
B2	B2	B2	B2	B2
First (B2)				
Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato				
Quadro Comune Europeo di Riferimento delle Lingue				

Competenze digitali

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Avanzato	Avanzato	Avanzato	Avanzato	Avanzato
Livelli: Utente base - Utente intermedio - Utente avanzato				
Competenze digitali - Scheda per l'autovalutazione				

COMPUTERSKILLS

- Microsoft Office Package.
- C.
- Java.
- R.
- IBM ILOG CPLEX Optimization Studio.
- AMPL.
- Wolfram Mathematica.
- Matlab
- SQL.
- Apache Spark.
- .NET e C#.
- Latex.

Patente di guida

B

PARTICIPATION IN EXHIBITIONS

Participation in exhibitions

- Recent Advances in Multi-Objective Optimization (RAMOO), Rome, September 14, 2023.
- StaTalk 2023, Rome, September 15, 2023.
- 8th AIRO Young workshop,
- "Emerging technologies for decision support systems and innovative" optimization paradigm, Rende, 14-16 February 2024.
- 33rd European Conference on Operational Research (EURO 33rd) Copenhagen, Denmark, June 30 – July 3, 2024.
- ODS2024, INTERNATIONAL CONFERENCE on OPTIMIZATION and DECISION SCIENCE, Badesi - Sardinia (Italy) September 8th - September 12th - 2024
- EURO PhD School on Multiple Criteria Decision Making: Methodologies and Applications to the Sustainable Development Goals 4 November - 15 November 2024.

Some academic responsibilities

- Collaborator in the organisation of the RAMOO Workshop 2023, Rome, September 14, 2023 organized by Lavinia Amorosi (University of Rome) and Marianna De Santis (University of Florence).
- Organiser of the XI PhD-Day, at University of Rome, Sapienza, Rome, 6 June 2024.
- Tutor for course exercises in Operational Research, University of Rome, Sapienza, February-June 2024.
- Tutor of the master Data Intelligence and Decision Strategies, University of Rome, Sapienza from February 2024.

Dati personali Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

La sottoscritta dichiara di essere consapevole che il presente *curriculum vitae* sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.