

## PERSONAL INFORMATION

**Andrea Caliciotti**

📍 Via Igino Giordani 2, 00159 Rome (Italy)

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Sex Male | Date of birth 21 Nov 1990 | Nationality Italian

## WORK EXPERIENCE

1 Nov 2014–Present

**PhD Student in Operations Research**

Department of Computer, Control and Management Engineering "A. Ruberti" of the University of Rome "La Sapienza", Rome (Italy)

Operations Research (SSD: MAT/09)

## EDUCATION AND TRAINING

17 Sep 2004–13 Jul 2009

**Diploma**

Scientific High School "Benedetto Croce", Rome (Italy)

Scientific P.N.I - Literally National Plan of Computer Studies

28 Sep 2009–27 Sep 2012

**Bachelor's Degree in Industrial Engineering**

University of Rome "La Sapienza", Rome (Italy)

Final mark: 110/110 (with Honors)

Thesis Title: "Un Modello di Simulazione per una Segheria Industriale"

Advisor: Prof. Massimo Roma

Main Topics: Queueing Theory, Simulations, Arena Rockwell Software

## Main exams:

MATHEMATICAL ANALYSIS I (SSD: MAT/05)

MATHEMATICAL ANALYSIS II (SSD: MAT/05)

GEOMETRY (SSD: MAT/03)

PHYSICS (SSD: FIS/01)

PROBABILITY THEORY (SSD: MAT/06)

PROGRAMMING LANGUAGE - JAVA (SSD: ING-INF/05)

CHEMISTRY (SSD: CHIM/01)

OPERATIONS RESEARCH (SSD: MAT/09)

ELECTROTECHNICAL (SSD: ING-IND/31)

AUTOMATIC CONTROLS (SSD: ING-INF/04)

TELECOMMUNICATIONS (SSD: ING-INF/03)

QUEUEING THEORY AND SIMULATIONS (SSD: MAT/09)

COMBINATORIAL OPTIMIZATION I (SSD: MAT/09)

INDUSTRIAL PLANTS I (SSD: ING-IND/17)

ELECTRONICS (SSD: ING-INF/01)

DATABASE - MySQL (SSD: ING-INF/05)

1 Oct 2012–31 Oct 2014

**Master's Degree in Industrial Engineering**

University of Rome "La Sapienza", Rome (Italy)  
 Curriculum: "Technical Decision and Data Mining" ("Tecniche Decisionali e Data Mining")  
 Final mark: 110/110 (with Honors)  
 Thesis title: "Modello di Ottimizzazione per Procedure di Forex Trading"  
 Advisor: Prof. Alberto De Santis  
 Main topics: Data Analysis, Operations Research, Forex Trading, Fortran

Excellence Program:

Ranking within the best ten students of my faculty I had access to a training program for outstanding students which consists of additional educational activities taught by teachers from foreign universities and professionals.

Main exams:

COMBINATORIAL OPTIMIZATION II (SSD: MAT/09)  
 GAMES AND EQUILIBRIA (SSD: MAT/09)  
 MODELING AND IDENTIFICATION - STATISTICS (SSD: ING-INF/04)  
 NONLINEAR OPTIMIZATION (SSD: MAT/09)  
 PERVASIVE SYSTEMS (SSD: ING-IND/31)  
 INDUSTRIAL PLANTS II (SSD: ING-IND/17)  
 GLOBAL OPTIMIZATION (SSD: MAT/09)  
 ALGORITHMS FOR UNCONSTRAINED OPTIMIZATION (SSD: MAT/09)  
 OPTIMIZATION METHODS FOR MACHINE LEARNING (SSD: MAT/09)

1 Nov 2014–Present    **PhD Student in Operations Research**  
 Department of Computer, Control and Management Engineering "A. Ruberti" of the University of Rome "La Sapienza", Rome (Italy)  
 Winner of the competition for admission in the PhD Program in Operations Research with scholarship.  
 Operations Research (SSD: MAT/09)

PERSONAL SKILLS

Mother tongue(s)    Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

- Job-related skills
- Operations Research
  - Unconstrained Optimization
  - Constrained Optimization
  - Global Optimization
  - Derivative-Free Optimization
  - Mathematical Programming

- Queueing Theory
- Simulations
- Game Theory
- Machine Learning
- Artificial Neural Networks
- SVM
- Clustering
- User Profiling
- Fuzzy Logic
- Data Analysis
- Statistical Modeling
- Forex Trading

Digital competence ECDL - European Computer Driving Licence - AICA  
License Number: IT 1101394  
Date of granting: 31/05/2007

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- Arena Simulation Software
- Matlab
- Fortran
- AMPL
- GLPK
- Java
- MySQL
- Weka
- CUTEst
- Microsoft Excel
- Microsoft Office
- Windows
- Ubuntu

Driving licence A, B

#### ADDITIONAL INFORMATION

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- Sport praticati
- Swimming (1996 to 2000, 2001 to 2004, 2008 to present)
  - Amateur Basket (2000 to 2001)
  - Gym (2005 to 2006, 2007 to 2008)
  - Amateur Cycling (2004 to present)

- Hobbies
- Computer assembly, repair software and hardware installation
  - Listening music (Heavy and Trash Metal)

- Cycling
- Riding motorcycle
- Riding car
- Swimming
- Playing billiards
- Playing bowling
- Collecting coins and stamps

Honours and awards	<p>Excellence Program - A.Y. 2013-2014</p> <p>Ranking within the best ten students of my faculty I had access to a training program for outstanding students which consists of additional educational activities taught by teachers from foreign universities and professionals.</p>
Seminars	<p>"Preconditioners for higher order methods in big data optimization", Prof. J. Gondzio. Florence University, Italy. Period: from the 20th to the 20th of March, 2015.</p>
Courses	<p>"Introduction to Modern Fortran", Cineca. Rome, Italy. Period: from the 19th to the 22th of January, 2015.</p> <hr/> <p>"Introduction to Parallel Computing with MPI and OpenMP", Cineca. Rome, Italy. Period: from the 23th to the 25th of February, 2015.</p> <hr/> <p>"Spring School on Mixed Integer Nonlinear Optimization and Applications". Tilburg University, The Netherlands. Period: from the 10th to the 13th of March, 2015.</p> <hr/> <p>"Debugging and Optimization of Scientific Applications", Cineca. Rome, Italy. Period: from the 20th to the 22th of April, 2015.</p> <hr/> <p>"Parallel IO and Management of Large Scientific Data", Cineca. Rome, Italy. Period: from the 14th to the 15th of May, 2015.</p>