

Anna Livia Croella

Academic Studies

2018 - present day,

PhD Program in Automatics, Bioengineering and Operations Research
Sapienza University of Rome

2015 - 2017,

Master's Degree in Management Engineering

Sapienza University of Rome

Final degree mark: 110/110 cum laude

Graduation date: 26/10/2017

2012 - 2015,

Bachelor's Degree in Management Engineering

Sapienza University of Rome

Final degree mark: 110/110 cum laude

Graduation date: 23/10/2015

2007-2012,

High School Diploma in Scientific Studies

Scientific High School A. Volta, Foggia

School-leaving examination mark: 100/100

PhD Visiting

Mar - May 2020,

PhD short-term visiting at Department of Mathematics and Cybernetic of SINTEF Digital Unit, Oslo (Norway)

Supervisor: Carlo Mannino

Scholarships

Sep 2020 - present day,

Mentorship activities grant for a.y. 2020-2021

Mathematical Analysis II course, Management Engineering Faculty, Sapienza University of Rome

Mar - Jun 2020,

Mobility grant for abroad joint research projects for PhD students (33rd and 34th cycles)

Sapienza University of Rome

2018 - present day,

PhD Program Scholarship for PhD in Automatics, Bioengineering and Operations Research (ABRO)

Sapienza University of Rome

Work Experience

Sep 2020 - present day,
Mathematical Analysis II course mentorship activities for a.y. 2020-2021

Management Engineering Faculty, Sapienza University of Rome

Sep 02-05 2019,
Organizing Committee Assistant for ISSI 2019

17th International Conference on Scientometrics & Informetrics, Rome

Nov 2017 - Oct 2018,
Management Consulting Analyst at Accenture Strategy, Rome

Consulting for two major world wide Italian utility groups: operated and supported the control of a new process-based model for whole Group, developed on Oracle HFM and Tagetik CPM.

Internal Talent Strategy project: implemented a back end model for an analytics forecasting tool. Managed the use of statistical algorithms and machine learning techniques to better predict the future.

Qualifications and Awards

Jul 2020,
State Exam for Information Engineer (Italian Legislation)

Qualification to practice, Sapienza University of Rome

Jul 2020,
24 CFU for anthropo-psycho-pedagogical disciplines and in teaching methodologies and technologies

CFU acquisition at Telematic University eCampus

16 April 2017, *Post degree recognition prize as one of the 400 outstanding students of Sapienza University of Rome*

Giornata del laureato, VI edition - Sapienza University of Rome

a.y. 2016-2017, **Excellence Path - Master's Degree Program in Management Engineering**

Certificate of completion of additional training activities (disciplinary and inter-disciplinary in-depth study, seminar and internship activities) - Sapienza University of Rome

Personal skills

Foreign language skills

English: C1 / Advanced Level

Spanish: B2 / Intermediate Level

Social skills and competence

I have been playing in women's futsal championships at a competitive level for 8 years: thanks to the sport, and in particular thanks to the need of collaboration and mutual knowledge requested by a group, I have developed a strong inclusion capacity in different contexts and a particular attitude to team working.

Organisational skills and competences

In the university context, I had the opportunity to work in groups for the development of projects related to teaching activities, thus to refine relational and organizational skills in order to achieve the final objective. I express a strong inclination to confrontation and constructive criticism.

Technical skills

Software applications

- AMPLide
- Simulink
- Julia
- Planimate
- Microsoft SQL Server
- LaTeX
- CPLEX Studio IDE
- MATLAB
- Oracle HFM
- R
- Azure ML
- Microsoft Visual Studio
- CCH Tagetik
- Gurobi

Programming languages known

- AMPL
- R
- Python
- Julia
- Java
- SQL
- MATLAB
- Visual Basic

Other skills

Driving licence: A2, B
Assistant coach Under 21 Futsal team (Season 2016-2017)

Interests

Professional

My research is mainly focused on the design and implementation of algorithms for solving time-scheduling problems. I am interested in exploiting combinatorial optimization and dynamic programming tools for network (re-)optimization. I am particularly involved in the train network and health care context.

Personal

I am a passionate, dynamic and curious woman with a strong inclusion capacity in different contexts. I am a very analytic person and I have always had a constant need to challenge my mind and enrich my knowledge. In the last years I realized that my personal fulfilment is long-standing and coupled with learning and research. My hobbies are dancing and reading comics. I have been playing in women's futsal championships at a competitive level for 8 years.

Conferences, Schools and Workshops

Nov 19 2020,

International Conference on Optimization and Decision Science (ODS2020)

AIRO Meeting, Online

May 18 2020,

Mixed Integer Programming Workshop 2020 (MIP2020)

Online Edition

Feb 24-26 2020,

Games, Dynamics and Optimization (GDO2020)

Sapienza University of Rome

Feb 5-7 2020,

4th AIROYoung Workshop on New Advances in Optimization, Machine Learning and Data Science

Bozen (Italy)

Jan 20-24 2020,

9th Winter School on Network Optimization (NetOpt2020)

Estoril (Portugal)

Sep 02-05 2019,

ISSI 2019 - 17th International Conference on Scientometrics & Informetrics

Sapienza University of Rome

Jun 25-28 2019,

1st MINOA PhD School, CNR-IASI

Mixed-Integer Nonlinear Optimization meets Data Science - Hotel Hermitage, Ischia (Italy)

Mar 26-29 2019,

3rd AIROYoung Workshop + PhD School on Advanced Methods in Optimization and Data Science

Rome (Italy)

Jan 21 2019,

Conferenza DIITET - Area Strategica "Matematica Applicata"

Sapienza University of Rome

Jul 25–29,

Tools and techniques for parallel computing, automatic learning and massive data analysis with MATLAB

Certificate of participation (32 h) - University of Palermo in collaboration with The MathWorks

Jul 18–22 2016,

MATLAB and Simulink for scientific calculation

Certificate of participation (32 h) - University of Palermo in collaboration with The MathWorks

Mar 2016,

English for Business and Economics

Certificate of participation (25 h) - Department of Computer Engineering Automatic and Management, Sapienza University of Rome