Annalisa Perasso

Work experience

01/2019 – Present **Data Scientist**, Axpo Italia S.p.A., Genoa.

- *Main topics:* Energy consumption forecast based on Statistical and Machine Learning models (retail and smb consumption units); Energy production forecast (renewable production units); Price forecast for Italian Electricity Balancing Market; Energy retail optimization; Customer segmentation analysis; Customer journey analysis.
- *Sector:* Energy – Power & Gas.

09/2016 – 01/2019 **Junior Risk Analyst**, Axpo Italia S.p.A., Genoa.

- *Main topics:* Development and control of instruments for market risk management; Predictive modeling of insolvency risk.
- *Sector:* Energy – Power & Gas.

03/2016 – 08/2016 **Business Intelligence & Analytics Consultant**, Altran Italia S.p.A., Milan.

- *Main topics:* Data mining and machine learning; KPI definition and analysis; Customer experience management.
- *Fields of application:* Energy – Power & Gas, Telecommunications.

03/2015 – 02/2016 **Postdoctoral fellow**, National Research Council, Italy, Institute SPIN.

- *Machine learning methods for the analysis of time series with applications to magnetic field data*: development of a fully automated forecasting system for solar-flare prediction (FLARECAST home).

02/2013 – 01/2015 **Postdoctoral fellow**, Università degli Studi di Genova, DiMa.

- *Extension of the Hough transform and applications to the imaging of the hematopoietic system*: development and implementation of a computational tool for the assessment of the intra-bone volume, with application to oncologic and neurological diseases.

Visits at foreign science labs

13 – 16/01/2016 **School of Physics**, *Trinity College Dublin*, Dublin, IE.

27 – 30/10/2015 **Institute of 4D Technologies**, *School of Engineering*, University of Applied Sciences and Arts Northwestern Switzerland FHNW, Windisch, CH.

21 – 25/07/2014 **Centre for Computational Statistics and Machine Learning**, *Department of Computer Science*, University College London, London, GB.

22/07 – 09/08/2013 **Institute for Pure and Applied Mathematics**, *University of California*, Los Angeles, USA.

02/2010 – 04/2012 **Consultoria Mario Zadra**, *in collaboration with* Ansaldo Nucleare S.p.A., Malaga, SP.

Education and training

01/2010 – 12/2012 **PhD in Mathematics and Applications**, *Università degli Studi di Genova*, Dipartimento di Matematica in collaboration with Ansaldo Nucleare S.p.A., Genoa.

- *Soft computing methods for the analysis of nuclear power plant data*: formulation and implementation of computational methods for the analysis of nuclear power plant data via clustering techniques and neural networks.

A.Y. 2006 – 2009 **MSc degree in Mathematics**, *Università degli Studi di Genova*, Dipartimento di Matematica.

A.Y. 2003 – 2006 **BSc degree in Mathematics**, *Università degli Studi di Genova*, Dipartimento di Matematica.

Schools and courses

- *Regularization Methods for Machine Learning - REGML 2017*: Simula Research Laboratory, Oslo, Norway, 02 – 06/05/2017.
- *Machine Learning Crash Course - MLCC 2015*: Università degli Studi di Genova, Center for Brain Mind and Machine, Istituto Italiano di Tecnologia (PhD program in Computer Science and Systems Engineering, Phd program in Bioengineering and Robotics), 22 – 26/06/2015.
- *Introduction to Python Programming*: Università degli Studi di Genova, Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi, 5 – 6/06/2014.
- *Graduate Summer School: Computer Vision*: Institute for Pure and Applied Mathematics, University of California, Los Angeles, 22/07 – 9/08/2013 (with grant support from IPAM).
- *Regularization Methods for High Dimensional Learning*: Università degli Studi di Genova, Dipartimento di Informatica (PhD Program in Computer Science - School in Sciences and Technologies for Information and Knowledge), 6 – 10/06/2011.

Awards

2011 *Innovation Award 2011* from Ansaldo Energia S.p.A. for the project "Topological method applied to Nuclear Power Station monitoring and performance optimization".

Computer skills

Advanced Python; MatLab; R; SQL (Oracle, Microsoft SQL Server); Microsoft application softwares; Operative systems:Windows, Macintosh, Linux.

Intermediate Azure: DevOps, ML, Storage Explorer, ADF; SAS; html; IDL; VBA.

Linguistic skills

Italian **Mother tongue**

English **Intermediate** *First Certificate in English – Council of Europe Level B2*

Spanish **Intermediate**

Organizational and communicationskills

Good team-leading skills gained through my research activity in the MIDA group (MIDA group home). Excellent communication skills gained through experiences in academic and foreign science labs.

Additional information

Driving license B.

Hobbies and interests Travels, outdoor sports, music.

Privacy

In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document

Genoa, September 2026.

Annalisa Perasso

