



Personal information

Surname(s) / First name(s) Nationality(-ies) Gender

Education and training

Place and Date Title of qualification awarded Mark

Details

Place and Date Title of qualification awarded Details Università La Sapienza, Rome, Italy, September 2020 – January 2021 *Quantum Information and Computation (single exam)* 30/30 cum laude

Single course on quantum computing, part of the master degree in physics. Final exam on Quantum Support Vector Machine.

Università degli studi Roma Tre, Rome, Italy, 2012 – 2015

Ph.D in Particle Physics

Picca, Eleonora

Italian Female

Research activity in theoretical particle physics within an European collaboration.

- Data analysis: data preparation (jacknife, bootstrap) and statistical analysis of data coming from Monte Carlo numerical simulations.
- Interpretation and presentation of the results.
- Acquisition of programming knowledge and skills (Fortan, C, bash scripting).
- International conferences and schools.
- International presentations of scientific results. Oral presentation at the "31st International Symposium on Lattice Field Theory" in Mainz, Germany in 2013 about the work done in my first year as a Phd student.
- Several publications (Publication list 1, Publication list 2)

Università degli studi Roma Tre, Rome, Italy, 2010 - 2012

Place and Date Title of qualification awarded Mark

Place and Date Title of qualification awarded Mark Details Università degli studi Roma Tre, Rome, Italy, 2007 – 2010 *Bachelor's Degree in Physics* 110/110 cum laude *Theoretical lessons and practical laboratory programming classes:*

– C, C++.

110/110 cum laude

Master's Degree in Physics

– Fortran.

Place and DateLiceo Scientifico Ettore Majorana, Rome, Italy, 2002 – 2007Title of qualification awarded
MarkHigh School Scientific Diploma100/100 cum laude100/100 cum laudeDetailsPNI (Piano Nazionale Informatico) class with Turbo Pascal laboratory class.

Work experience

Place and Date Occupation or position held Details

Place and Date Occupation or position held Details

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IBM, Rome, Italy, 1st June 2019 – in progress

Data Scientist - IBM Quantum Ambassador and Qiskit Advocate

Activity as a data scientist within an IBM Cloud pre-sale group. The group aims to create valuable MVPs (Minimal Viable Products) for clients of several industries. I am also very active as a Quantum Ambassador and Qiskit Advocate (https://qiskit.org/advocates/) in the quantum computing field, organizing lessons at universities and high schools and workshops with clients.

IBM, Rome, Italy, 1st October 2017 – 1st June 2019

Big Data Business Analytics and IoT Consultant

Activity as a senior Big Data and IoT consultant.

IBM, Rome, Italy, 13th April 2015 –1st October 2017

Junior Big Data Business Analytics and Strategy Consultant

Activity as a consultant within the IBM European CbD (Consultant by Degree) careeraccelerating program.

I had the chance to work with different clients and using innovative technologies:

 Experience in a "Big Data transformation" project in the telecommunication sector.

Creation of a DataLake, a modern, flexible and scalable data platform in order to leverage the business value of emerging technologies in the areas of Big Data, Advanced Analytics and Cognitive Computing, in which we are collecting different types of data coming from various sources.

Starting from the DataLake we are building several use cases of business interest manipulation data using Apache Spark (Scala).

Activity af the developer team coordinator and as one of the main responsible of the mechanism of the data ingestion in the Hadoop file system. I also have the responsibility of the costumer–facing aspects of the project.

During this work experience I developed skills in the following fields:

- * Data warehouse ETL processes;
- * Data Ingestion in the DataLake;
- * Data normalization and preparation for data scientists;
- * Python;
- * Bash scripting;
- * Hadoop file system, hadoop scripting (bash);
- * Big Data developer using Apache Spark (Scala) for data transformations and Apache Hive;
- * Functional analysis and client facing;
- * Activity organization;
- * Leadership and mentoring;
- * Team building
- Work in a IoT project with a major assurance company as part of the Big Data analytic team, responsible of collecting and analyzing the new IoT data, in order to create new business values.

Università degli studi Roma Tre, Rome, Italy, 2012 – 2015 *PhD student in theoretical particle physics (statistical data analysis)*

Place and Date Occupation or position held

Details	During my experience as a PhD student I had the possibility to develop skills in:
	 Data preparation.
	I analyzed data coming from Monte Carlo numerical simulations which had to be prepared in order to perform the analysis. In particular I used re-sampling methods like jackknife and bootstrap.
	 Statistical methods and data analysis.
	I applied fitting methods to the data sets, using custom and original Fortran and C programs with proper fitting libraries, choosing and testing different fit results.
	- Results presentation.
	In many occasions I presented my results to both experts and non-experts odi- ence.
Personal skills and competencies	
Mother tongue(s)	Italian
Other language(s) Social skills and competencies	English, level C1
	 Good team working attitude, coming from both research and consulting experi- ences.
	 I acquired good communicational skills during seminars, international confer- ences and schools around Europe. Fluent english conversations.
	 Mentoring attitude acquired both from my teaching experience as a Graduate Teaching Assistant (GTA) and from guiding new hired colleagues in the project.
	 I developed leadership skills being both the coordinator and leader of the devel- oper team and also the lead consultant in the project.
	 Sharing and teaching activities in the quantum computing field, in universities, high schools and workshop with clients.
Organizational skills and	
competencies	 Good organizational skills developed to fulfill the requested duties and to coor- dinate the work of the team members.
	 Good problem-solving attitude acquired both during my scientific research ac- tivity and my experience as a consultant where I had to deal with and resolve daily problems and issues.
	 Attitude for innovation in front of new challenges in order to find the most efficient solutions using new technologies.

Computer skills and	During my research activity and my work experiences I acquired several informatics
competencies	competencies.
	 Programming languages:
	* C: intermediate
	* Fortran: intermediate
	* Bash scripting: intermediate
	 * LaTeX, Beamer * SQL
	Scala Spark: advanced
	* Hive: intermediate
	* Python (Pandas, SciPy, NumPy): intermediate
	 A Qiskit (quantum computing): intermediate
	 Data warehouse developer (ETL) using IBM Infosphere Datastage
	 Big data programmer on Hadoop environment using Scala / Apache Spark
	 Good knowledge of IBM Infosphere Datastage, Aginity Workbench for IBM Netezza
	 Good knowledge of UNIX environments.
	 Good knowledge of Windows, Linux and Mac OS operation systems.
	 Basic knowledge of Wolfram Alpha Mathematica and XmGrace.
	 Good knowledge of Microsoft Office (Excel, Word, Power Point, Access). ECDL european license in 2007.
Driving licence(s)	В
Additional information	
	Scientific Publications
	Several scientific publications within the European Twisted Mass (ETM) collaboration.
	Personal interests Technology (in particular quantum computing), travel, sport, running, social networks, music, cinema. I always try to improve myself personally and professionally. What I like the most is to learn and to face new challenges. Never stop learning and experimenting . I also really love to travel so I would really like to have new experiences abroad. I also like working with other people.
	Certifications
	IBM Data Science Professional Certificate.
	 License number: U8QKLLPRKLBU.
	 Certification authority: Coursera.
	Qiskit Advocate

Autorizzo al trattamento dei miei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003.