



Elisabetta Giulia Parozzi

Data Scientist - Quantitative Analyst

Profile

- **Professional Expertise:** 7 years of experience in **data analysis**, specializing in experimental particle physics, Python, and Linux.
- **International Experience:** Studied and lived in Italy, France, and the United States, offering a diverse perspective.
- **Key Strength:** Passionate about problem-solving and tackling complex challenges.
- **Linguistic Skills:** Fluent in English, French, Italian, and currently learning Japanese.
- **Collaborative Approach:** Enthusiastic about learning from colleagues and sharing personal insights.

Work Experience

Feb 2023– Present
CERN

Senior Fellow Researcher

Responsible for operations at one of CERN's experimental areas and perform Monte Carlo simulations via Fortran and C++-based software. I then perform thorough data analysis in Python using Root, matplotlib, and Scipy libraries for future experiments to optimize efficiency and reduce production costs.

Key expertise: Python, C++, Scipy, Optimization

2020 – 2023
CERN

Doctoral Research Assistant

Design and development of a new model of the beamline for a future experiment based at CERN. Monte-Carlo simulations and data analysis via Python of results presented to the group and at international conferences. This project set the foundations for real life implementations of the machine with realistic technology.

Key expertise: Python, C++, Scipy, Geant4

2017 – 2019
Università degli Studi Milano–Bicocca

Professor Assistant

Teaching how to solve basic exercises to first-year students at the Physics Department on Mechanical Physics, Thermodynamics, and Basic Gravitational Physics. Provide help and instructions to second-year students at the Physics department at the Milano-Bicocca University Laboratory on Optical Physics.

Key expertise: Communication, organization

Languages

Italian



C2

English



C1

French



B2

Japanese



A2

Contact

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Education

• **Università degli Studi Milano-Bicocca**
Ph.D. Particle Physics cum Laude
Completed in 2023

• **Università degli Studi Milano-Bicocca**
Master in Particle Physics *cum Laude*
Completed in 2019

Certificates & Trainings

- INFN: **School of Statistics**
- IBM: **Databases and SQL for Data Science with Python**
- U. Penn: **Decision-Making and Scenarios**
- U. Penn: **Fundamentals of Quant. Modeling**
- U. Penn: **Modeling Risk and Realities**
- U. Honk Kong: **Python and Statistics for Financial Analysis**
- U. Penn: **Introduction to Spreadsheets and Models**

Skills

Organizing Skills	●●●●
Communication	●●●●
Python	●●●○
Excel – Office	●●●○
C++, SQL, C, Fortran	●●○○
Root, FLUKA, BDSIM	●●●○
Machine Learning	●●○○

Interests

Photography
Climbing

Travelling
Chess