



# Paolo SABATINI

Physicist / Data scientist

Born in 1991, I am an experimental particle physicist and an active member of the ATLAS Experiment Collaboration at CERN since 2016. My expertise is data analysis with cutting-edge techniques, such as machine learning (ML/AI) algorithms.

I am a curious, motivated and goal-oriented scientist, able to work either in a team or individually. Keen to learn, enthusiast of new ideas.

## CONTACTS

### Address

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06000, Nice (France)

### E-Mail

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### Mobile

+39 3385968853

Nationality Italian

Driving licence B

### Site

www.pasaba.eu

## LANGUAGES

Italian mother tongue



English fluent



Spanish intermediate



French beginner



## SKILLS

Excellent communication

Good academic writing

Great teamwork attitude

Proactive and curious

Solid math and statistics knowledge

Great problem solving and planning skills

Multidisciplinarity lover

Committed and efficient

## WORK EXPERIENCE

### ○ 2020 - present

Istituto de Física Corpuscolar (CSIC/UV), València (Spain)

#### Post-doctoral researcher

- Member with leading role of several data analysis (Agile) teams using ATLAS experiment data to search for new physics.
- Conduct complex analyses employing ML/AI with rigorous statistical interpretations aimed at publications in high-profile high-energy physics journals.
- Responsible of the sub-group that maintains, develops and monitors the performance of the software that delivers on-line detector alignment data.

## EDUCATION

### ○ 2016 - 2020

Georg-August-Universität Göttingen (Germany)

#### Ph.D. in Physics

Thesis defended by a vote of *magna cum laude*.

- Data analysis from the ATLAS experiment aimed at the first statistical evidence of ultra-rare events.
- Teaching assistant for experimental physics lectures. Responsible of two laboratory courses on data analysis.

### ○ 2013 - 2016

Università di Pisa (Italy)

#### MSc in Physics

### ○ 2010 - 2013

Università di Pisa (Italy)

#### BSc in Physics

## COMPETENCES

### Software development

- Expert (5+ years) in code development in multiple languages (C++, Python, bash). Experience in Java, javascript, PHP, and HTML.
- Expert in procedures (CI/CD, docker...) and good-practices for software development, testing and maintainance on distributed computing resources.
- Proficient database management (SQL) and data handling.

### Machine Learning / AI

- Expert in data preparation and design of ML algorithms via main libraries (SciKit, Keras, TensorFlow).
- Expert in classification and regression problems with a wide range of techniques, from BDT to DNN. Experience in anomaly detection and clustering algorithms. Interested in CV and GNN.