



Jessica Prisciandaro, Ph.D.

Skilled data analyst with over nine years of experience, comfortable with big, complex data - effective team leader, supervisor, and mentor - strong multi-cultural attitude - excellent communication skills, addressing both experts and general public.

PERSONAL INFO

Home address: 169 rue des battoirs, 01710 Thoiry FRANCE

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email: jessica.prisciandaro@gmail.com

Nationality: Italian, Swiss carte de légitimation P

Date Of Birth: 22/12/1986

GitHub: <https://github.com/jpriscia>

Website: <https://jpriscia.github.io/>

SKILLS

OS: Linux, OSX, Windows.

Programming languages: Python, C++, basic knowledge of SQL.

Scientific/ML tools: XGboost, scikit-learn, pandas, ROOT, RooFit .

Development tools: Regular user of version control softwares like SVN and GIT.

Office suites: Apple iWork, MS Office, Open Office, Tex/LaTeX.

Statistics: master of statistical modelling through ansatz fitting. Deep understanding of complex data.

Able to perform reliable measurements in noisy environments and effectively assess its uncertainties.

Miscellanea:

- Experienced in processing huge datasets of several billion of events, for tens of Peta Bytes worth of storage, on hundreds of machines spread in tens of sites distributed across the world.
- Excellent analytical and organisational skills.
- Able to produce quality results in reduced amount of time, meeting agreed schedules. Short time to insight.
- Excellent communication skills, speaker at several international Physics conferences.
- Extensive experience as mentor and supervisor of master and Ph.D. students.

WORKING EXPERIENCE

Research scientist (high energy physics) / Data Analyst @ CERN

2010 - Present

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| - FNRS Chargé de recherches @ UCLouvain, CMS Experiment | Jan 2018 - Present |
| - Post-doc @ Universidade de Santiago de Compostela, LHCb Experiment | Jul 2015 - Dec 2017 |
| - Post-doc @ EPFL, LHCb Experiment | May 2015 - Jun 2015 |
| - PhD candidate @ EPFL, LHCb Experiment | Nov 2010 - Apr 2015 |

Management, coordination, and mentoring:

- **Group manager:** coordination and supervision of a group of 40 people working on data analyses.
- Inter-group liaison: responsible of the connection between different groups of the experiment.
- Mentor of two Ph.D candidates.

Software and hardware:

- **Big data analysis:** data processing and reduction, machine learning, frequentist and bayesian statistical analysis. Analysis of extremely rare and exotic processes (as low as one in ten billion) swamped in huge backgrounds.
- Trigger expert: designing algorithms able to take decisions with sub-milliseconds latency.

- Silicon Strip Tracker operations: taking care of a huge camera sensor of 200 m² with 10 million channels.

Scientific writing and public presentations:

- Experiment-internal reviewer of data analyses for publication.
- **Editor of peer-reviewed papers** and experiment-internal documentation.
- Speaker at several international conferences and workshops.

EDUCATION

Ph.D in High Energy Physics, EPFL (Switzerland) Jan. 2015
Thesis topic: Studies of charmless B decays at LHCb

Master in Particle Physics, Università di Torino (Italy) Jul. 2010
Thesis topic: Studies of Drell-Yan processes at Compass Experiment
Grade 110 cum laude / 110

Bachelor in Physics, Università di Torino (Italy) Jul. 2008
Thesis topic: Muon radiography for high Z materials identification
Grade 110 / 110

LANGUAGES

Italian: mother tongue

English: fluent (C1)

French: intermediate (B2)

PERSONAL INTERESTS / HOBBIES

I am a passionate traveller, loving to discover new cultures and cuisines, which I try to replicate at home. I like hiking in the wilderness.