

# Julien Donini

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## Career

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2011-now	Professor at the University Clermont Auvergne, Clermont-Ferrand (France).
2008-2011	Post-Doctorate, Laboratory of Subatomic Physics & Cosmology, Grenoble (France).
2003-2008	Fellowship, University of Padova, Physics department, Padova (Italy).
2002-2003	Postdoctoral research and teaching associate, Claude Bernard University, Lyon (France).
1999-2002	Ph.D. in Particle Physics, Claude Bernard University, Lyon (France)

## Research interests and activities

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Experimental particle physics on large particle colliders (Fermilab, CERN).

Data analysis: machine learning, data mining, advanced statistics.

2020	Founding member of the <b>MODE</b> Machine Learning collaboration.
2015-2019	Principal Investigator of EU-funded Innovative Training Network <b>AMVA4NewPhysics</b> : development of advanced statistical learning tools for particle physics.
2008-now	<b>ATLAS</b> experiment at the Large Hadron Collider (CERN): Search for new phenomena, measurements in the top-quark physics, machine learning.
2003-2008	<b>CDF</b> experiment at the Tevatron (Fermilab): Higgs boson search, top-quark physics, jet calibration and heavy resonances (Z).
2002-2003	<b>D0</b> experiment at the Tevatron (Fermilab): detector calorimetry.
1999-2002	<b>CMS</b> experiment at the Large Hadron Collider: detector calorimetry.

## Scientific responsibilities (since 2012)

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- Author and editor of 5 peer reviewed articles, and 6 conference notes for the ATLAS experiment.
- Member of 5 editorial boards in the ATLAS collaboration.
- Referee for the several reviews (NIMA, Review in Physics, Review of Particle Physics)
- Member of the organizing committee of the IN2P3 School of Statistics (<http://sos.in2p3.fr>)
- Supervised 7 Ph.D thesis and 3 Postdoctoral researcher in particle physics

## University and teaching

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Head of the master's degree in fundamental physics. Responsible of a Data Scientist degree.

Lectures in Physics and Mathematics in each of the five years of the University training. Lecture in nuclear physics, particle physics, relativity, astrophysics, mathematics, statistics and machine learning.