

Christos Lazaridis | Physics PhD

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Profile

Physicist with extensive programming and data analysis experience, passionate about new technologies and excellent presentation and science communication skills.

Key Competencies

- Strong programming background in collaborative and solo projects using C++, Python and code versioning tools (SVN, Git); good shell scripting, some Java expertise
- Experienced Linux user (Redhat/Debian) with system administration know-how
- Practical databases knowledge using Oracle/MySQL, some grasp of big data tools (Hadoop/PySpark)
- Familiarity with Web technologies (HTML/CSS, Javascript, Node.js, SOAP, JSON)
- Fluency in data analysis software and libraries (ROOT, Mathematica, Matlab, numpy/matplotlib)
- Capacity to manage self, solve problems and work under time constraints and pressure
- Experience in coordinating a diverse team of software developers
- Excellent communications, outreach and public speaking skills

Work Experience

- **CMS Experiment** **CERN**
Level-1 Trigger Software Developer *December 2013–Present*
 - Maintainer of the online framework handling the configuration and monitoring of the VME/uTCA trigger hardware
 - Developed Python toolkit for nightly builds and automatic testing
 - Maintainer of a Java servlet application running under an Apache Tomcat server
 - Responsible for software integration, commissioning and subsystem support
 - Release preparation, testing, and deployment
 - Expert on-call duties
 - Trigger online software team co-coordinator and student supervisor
- **LAGUNA-LBNO Neutrino Beamline Design Study** **CERN**
CERN Fellow *January 2012–November 2013*
 - Designed and implemented analysis packages for the optimization of a magnetic horn shape and for beam stability studies using C++/Python

○ CMS Experiment

University of Wisconsin-Madison

○ *Research Assistant*

2006 - 2011

- Applied analytic techniques for the statistical processing of LHC collision data
- CMS Regional Calorimeter Trigger configuration and monitoring software
- Developed CMS Level-1 trigger alerts infrastructure

Education

Academic Qualifications.....

○ University of Wisconsin-Madison

Madison, WI, USA

○ *Physics PhD*

August 2011

Thesis: Jets produced in association with Z-bosons in CMS at the LHC

○ University of Wisconsin-Madison

Madison, WI, USA

○ *Physics MSc*

December 2007

○ Aristotle University of Thessaloniki

Thessaloniki, Greece

○ *Ptychion in Physics*

July 2005

Other training.....

○ Thematic CERN School of Computing

Split, Croatia

○ *Efficient and Parallel Processing of Scientific Data*

May 2016

○ CERN School of Computing

Nicosia, Cyprus

○ *CSC Diploma*

August 2013

○ CERN Accelerator School

Granada, Spain

○ *Introduction to Accelerator Physics*

October 2012

Languages

- **Greek:** Mother tongue
- **English:** C2
- **French:** B1

Education, outreach and volunteer activities

- CERN Spring Campus lecturer (April 2015, April 2016)
- CERN & CMS visits guide and conferencier since 2008
- TEDxCERN 2015 & 2016 volunteer coordinator
- CERN FameLab 2015: Audience award winner