Pernié Luca

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CAREER & EDUCATION

POSTDOCTORAL FELLOW
Texas A&M University
2015-present

PH.D. IN HIGH ENERGY PHYSICS
Université Libre de Bruxelles
Universitá di Roma La Sapienza
2011-2015

M.PHIL. IN PARTICLE PHYSICS
Universitá di Roma La Sapienza
2006-2011

SKILLS

COMPUTING:
Phyton • C • C++ • Bash • LaTeX•
Git • SVN

LIBRARIES:
Keras • Theano • numpy • SciPy •
pandas

LANGUAGES:
Italian • English • Spanish •
French (basic)

INTERPERSONAL SKILLS:
Leadership • Management •
Working uder pressure •
Event Planning • Effective
Communication • Public Speaking

INTERESTS

Experimental High Energy Physics
Deep Learning
Software Engineering
Science Education

AWARDS

Distinguished Postdoctoral Flash talk
(Texas A&M)
One year grant as CERN-INFN
associate (fellow position at CERN)
Best group presentation at CMSSDAS
(Hamburg, Germany)

EXPERIENCE

PHYSICS ANALYSIS

PostdoctoraL FeLLow
Coordinator of the Heavy Higgs analysis $Hhh \rightarrow WWbb \rightarrow ll\nu\nu bb$
Contact person for the search for new light bosons in the 4 muons final state

Ph.D.
Measurement of the Z boson pair-production cross section in proton-proton collisions at 7 and 8 TeV, and ECAL timing studies for the phase-2 upgrade of the CMS experiment

DETECTOR CONDITIONS

PostdoctoraL FeLLow
Representative of the Track-Based Muon alignment at the Muon Detector Performance Group Office (DPGO) L2 convener in the Alignemnt, Calibration and Databases group (Alca/DB)

Ph.D.
Intercalibration constant

RESPONSIBILITIES

- Manager of the CMS Physics Performance Detector group in Alca/DB (Alignment Calibration and Database)
- Data Manager for the CERN Tier2
- Muon Alignment responsible in the CMS DPGO (Detector Performance Group Office)
- Organizer of the spring High Energy Physics Experiment Cosmology (HEPEC) seminars at Texas A&M University
- Organizer of the workshop: Machine Learning in Science