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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

MASTER'S DEGREE IN PARTICLE PHYSICS

Universitá di Roma La Sapienza 2006-2011

SKILLS

COMPUTING:

Phyton • C • C++ • Bash • LEX• Git • SVN

LIBRARIES:

Keras • Theano • numpy • SciPy • pandas

LANGUAGES:

Italian • English • Spanish • French (basic)

INTERPERSONAL SKILLS:

Leadership • Management • Working under 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 $H\to hh\to WWbb\to ll\nu\nu bb$ 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 Alignment, Calibration and Databases group (Alca/DB)

PH.D.

Inter-calibration constant

RESPONSIBILITIES

- Manager of the CMS Physics Performance Detector group in Alca/DB (Alignment Calibration and Database)
- Data Manager for the CERN Tier 2
- Muon Alignment responsible in the CMS 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
- Organizer of the virtual Large Hadron Collider tour at Texas A&M Physics and Engineering festival