

Michele Cascella

Curriculum Vitæ

UCL, Gower Street
London WC1E 6BT, UK
☎ +44 743 893 8345
✉ m.cascella@ucl.ac.uk



Current position

since 2013 **Senior Research Associate**, *University College London*.
Detector physicist

Former positions

2011 - 2013 **Postdoctoral research associate**, *Università del Salento*.
2010 - 2011 **Postdoctoral research associate**, *Università di Pisa*.

Academic titles

2011 **Ph. D. in Physics**, *Università di Pisa*.

Research activities

Responsibilities

since 2016 **Review committee for $0\nu 4e$ search in NEMO3**.
since 2015 **AWAKE spectrometer DAQ**.
since 2014 **Construction and commissioning of the SuperNEMO tracker**.
since 2014 **Construction of the SBND UK ultra high voltage feed-through**.
since 2010 **DAQ for DREAM/RD52**.

Past Activities

2010 - 2013 **Construction and beam test of the DREAM/RD52 fiber calorimeter**.
2012 - 2013 **Design of an ultralight wire chamber for MEG II e Mu2e**.
2007 - 2011 **Measurement of the cross section for the associated production of photons and jets at ATLAS and validation of the hadronic calorimeter simulation**.

Awards and honors

2015 **AIDA 2020 Transnational Access**, 'Economic support to participate to the RD52 test beam'.
2014 **Marie Curie Fellowship**, "MEG2 Ultra Light Timing Drift Chamber", not taken up.
2013 **"Best technological breakthrough" award**, "Cluster Counting/Timing Techniques for Drift Chambers".
2010 **Subsistence grant**, ATLAS, CERN.
2007 **Full Ph.D. scholarship**, scuola "G. Galilei" dell'Università di Pisa.
2006 **Master in Particle Physics with honors**, Università di Pisa.
2003 **Summer Student scholarship**, Fermilab.

Scientific activities

Invitation at conferences

2016 **"Time Structure in Dual Readout Calorimeters"**, IAS programme on High Energy Physics.

- 2011 **"Updates on the most recent results in dual readout calorimetry"**, *IFAE2011*.
Selected conferences
- 2015 **"The SuperNEMO tracker construction"**, *IOP2015*.
 2013 **"Ultra Light Drift Chambers for Precision Physics"**, *IEEE NSS2013*, poster.
 2012 **"Detection of electron showers in Dual-Readout crystal calorimeters"**, *Frontier Detectors for Frontier Physics*, poster.
 2011 **"Domino Ring Samplers for Dual Read-out Calorimetry"**, *IEEE NSS2011*.
 2011 **"Jet energy scale calibration using photon-jet events in the ATLAS experiment"**, *IFAE2011*, poster.
 2008 **"Comparison of Monte Carlo simulations based on Geant4 and Fluka and the TileCal test beam data"**, *IFAE2008*.

Academic activities

Teaching

- 2016 – 2017 **Classical Mechanics**, *University College London*, Teaching assistant.
 2015 – 2017 **Scientific communication**, *University College London*, Teaching assistant.
 2014 – 2015 **Scientific programming**, *University College London*, Laboratory assistant.
 2010 – 2011 **Electromagnetism**, *Università di Pisa*, Teaching assistant.
 2009 – 2010 **Physics for natural sciences**, *Università di Pisa*, Teaching assistant.

Conference organization

- 2011 **Organization of "Jet reconstruction and spectroscopy at hadron colliders"**, *Università di Pisa*.

Invited Seminars

- 2013 **"High Precision Drift Chambers for Lepton Flavor Violation Experiments"**, *Università di Modena e Reggio Emilia*.
 2012 **"The Future of Hadronic Calorimeters"**, *Instituto de Física Corpuscular*, Valencia.
 2011 **"Dual Readout Calorimetry"**, *Queen Mary University*, London.

Outreach

- 2016 **"Your Universe Festival"**, *University College London*.
 2013 **"Settimana della cultura scientifica"**, *Università del Salento*.
 2002 **"Imparagiocando"**, *INFN Pisa*.

Editing

- 2016 **Proceedings review**, *IAS program on High Energy Physics*, *International Journal of Modern Physics A*.
 2011 **Proceedings review**, *"Jet Reconstruction and Spectroscopy at Hadron Colliders"*, *Journal of Physics: Conference Series*.

Training

- 2016 **Leadership in Action**, *University College London*.
 2011 **International School of Trigger and Data Acquisition**, *Università La Sapienza*.
 2008 **CERN-Fermilab Hadron Collider Physics Summer Schools**, *Fermilab*.

Other interests

- 2005 – 2006 **Student representative**, *Università di Pisa*.
 2004 – 2006 **First aid volunteer**, *Red Cross*.