

Davide Pagano, PhD

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Education

February 2010 **PhD in Physics** – Università degli Studi di Pavia – Italy
supervisor: P. Vitulo

March 2006 **Degree in Physics** – Università degli Studi di Pavia – Italy
supervisors: S.P. Ratti and P. Vitulo

Professional Experience

Jun 2020 - present **Associate Professor**
Università degli Studi di Brescia – Italy

Jun 2017 - Jun 2020 **Ricercatore RTDb** (Assistant Professor)
Università degli Studi di Brescia – Italy

Oct 2014 - present **Association to the Italian National Institute for Nuclear Physics (INFN)**
Pavia – Italy

Oct 2014 - Jun 2017 **Research Fellow**
Università degli Studi di Brescia – Italy

Oct 2011 - Sept 2014 **Chargé de recherches FNRS** (Research Fellow)
Université catholique de Louvain – Belgium

Jan 2010 - Sept 2011 **Research Fellow**
Université catholique de Louvain – Belgium

Teaching Activity

A.Y. 17/18 - present **Professor of "Experimental Physics (Optics and Waves)"**
(*Fisica Sperimentale (Optica Onde)*) - Università degli Studi di Brescia

A.Y. 19/20 **Professor of "Experimental Physics (Mechanics and Electromagnetism)"**

(*Fisica Sperimentale (Mecc. Elettrom.)*) - Università degli Studi di Brescia

- A.Y. 17/18 - 18/19 **Professor of "Statistical Learning"** (for PhD students)
Università degli Studi di Brescia
- A.Y. 15/16 - 16/17 **Teaching support for "Experimental Physics (Optics and Waves)"**
(*Fisica Sperimentale (Ottica Onde)*) - Università degli Studi di Brescia
- A.Y. 07/08 **Teaching support for "Physics with Lab"**
(*Fisica con Laboratorio*) - Università degli Studi di Pavia
- A.Y. 06/07 **Teaching support for "Thermodynamics"**
(*Termodinamica*) - Università degli Studi di Pavia

Roles and Responsibilities

- 2023 **Referee for funding agency**
Swiss National Science Foundation
- 2022 - present **Editorial Board Member**
Journal: *Scientific Reports - Nature*, ISSN: 2045-2322
- 2022 **Referee for funding agency**
Swiss National Science Foundation
- 2022 - present **Member of Doctoral College**
Title: *National Doctoral Research in Space Science and Technology*
Proposing university: *Università degli Studi di Trento*
- 2022 - present **Head of laboratory**
ANPLab: Laboratory of Applied Nuclear Physics – <https://anplab.unibs.it/>
Dipartimento di Ingegneria Meccanica e Industriale
Università degli Studi di Brescia
- 2021 - present **Guest Editor**
Special Issue: *Cosmic Rays: From Fundamental Symmetry Tests to Civil Applications*
Journal: *Symmetry* – Journal: *Symmetry*, ISSN: 2073-8994
- 2021 - present **Editorial Board Member**
Journal: *Symmetry*, ISSN: 2073-8994
- 2021 - present **Chair of the Statistical Group**
ALICE experiment – CERN
- 2020 - 2024 **INFN Local Representative**
ALICE experiment – CERN

- 2020 - present **Principal Investigator – project "COMMAND"**
"COMMAND: COmpact and Multi-purpose Muon And Neutron Detector",
PRD2020 – Università degli Studi di Brescia
- 2019 - 2020 **Chair of the Publication and Talk Board**
AEGIS experiment – CERN
- 2019 - 2020 **Working group leader in research project**
"Ottimizzazione delle performance del processo produttivo anche attraverso sistemi di analisi e simulazione con sviluppo di modelli di gestione della manutenzione" – Università degli Studi di Brescia
- 2019 - present **Member of Doctoral College**
Title: *Doctoral Research in Mechanical and Industrial Engineering*
Proposing university: *Università degli Studi di Brescia*
- 2018 - 2019 **Member of the Publication and Talk Board**
AEGIS experiment – CERN
- 2016 - 2020 **Online Software Manager**
AEGIS experiment – CERN
- 2016 **Member of the organizing committee of "EINSTEIN 1916-2016"**
Università degli Studi di Brescia
- 2015 - 2017 **Member of the EU-funded project "Mu-Blast"**
RFSR-CT-2014-00027
- 2013 - 2014 **Muon RECO contact**
CMS experiment – CERN
- 2012 - 2013 **EXOTICA Muon trigger contact**
CMS experiment – CERN
- 2011 - 2012 **Coordinator of the invited seminars on experimental physics**
Université catholique de Louvain
- 2008 - 2010 **RPC database coordinator**
CMS experiment – CERN

Research Interests

- Particle physics
 - Searches for physics beyond the Standard Model
 - Production of exotic bound states
- Cosmic-ray physics and applications

- Muon tomography and radiography
- Cosmic-ray neutron sensing
- Interplay between cosmic rays and climate
- Application of Machine Learning techniques to scientific and industrial data

Publications

Documents	710
Citations	53768
h-index	103

[Full list of publications \(SCOPUS\)](#)