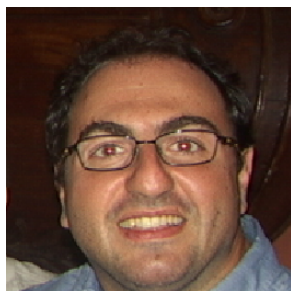


PERSONAL INFORMATION

Nicola De Filippis



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 **ORCID** [0000-0002-0625-6811](https://orcid.org/0000-0002-0625-6811)

Gender Male | **Date of birth** 22nd August 1975 | **Nationality** Italian

EPR Associate Professorr

WORK EXPERIENCE

2018 – Present Associate Professor at the Physics Department of “Politecnico di Bari”

Politecnico di Bari in Bari; Via Amendola 126/b , 70126 Bari (ITALY). <http://www.poliba.it>

- Research activities**
- discovery of the Higgs boson and measurement of its properties with the CMS experiment at the LHC
 - search for double Higgs production and BSM resonances
 - development and test of a prototype of a multiwire drift chamber for the IDEA experiment at a future electron-positron collider (FCC-ee, CepC, SCT).
- Responsibilities**
- 2021-2022: Responsible of the beam test at CERN aimed to test the performance of cluster counting technique for particle identification by using drift tubes..
 - 2020-2022: Co-Editor of the paper ‘Non-Resonant HH combination (full Run2) within the CMS Higgs Group.
 - September 2020-2022: Convener of the group “HH analyses” within the CMS Higgs Group
 - September 2018-2020: Convener of the “Higgs Future Analysis group” within the CMS Higgs Group
 - I2017-2021: Co-chairman of the official CMS School Committee
 - 2016-2019: Member of the official CMS Thesis Award committee
 - November 2008-2010: Convener of the CMS $H \rightarrow ZZ$ group within the CMS Higgs Group and the LHC Higgs Cross-section Working Group

2018 – 2019 CMS LPC Distinguished Researcher at the LHC Physics Centre (LPC)

Fermilab, Batavia, US

2018-2023 Visiting Courtesy Professor

Florida State University, Tallahassee, US

2009-2018: Research staff & Assistant Professor and Research Scientist at Physics Department of “Politecnico di Bari”, Bari (Italy)

2011: Associate fellow grant by INFN and CERN to work at CERN

2007-2009: Researcher with a *contrat a duree determinee* financed by the CNRS at “Laboratoire Leprince-Ringuet”, “Ecole Polytechnique” (Palaiseau, France)

2020-present Project funding

2020- 2023: Responsible of the unit Physics Department of “Politecnico di Bari” for the national program PON ARS01 00876 “Sviluppo di biomarcatori diagnostici per la medicina di precisione e la terapia personalizzata (BIO-D)” financed globally with a budget of 7.9 million Euro for 30 months

- 2020- 2024: Responsible of the INFN-Bari unit taking part to the international program H2020-INFRA-SUPP-2018-2020, "Connecting Russian and European Measures for Large-scale Research Infrastructures (CREMLINplus)" financed globally with a budget of 25 million Euro for 4 years
- 2020- 2024: Responsible of the INFN-Bari unit taking part to the international program H2020-MSCA-RISE-2019, "Future Experiments seek Smart Technologies (FEST)" financed globally with a budget of 2.1 million Euro for 4 years

EDUCATION AND TRAINING

1999 – 2002 PhD in Experimental Physics

h. D. diploma in Physics at the University of Bari with a thesis with title "Search for charginos nearly mass-degenerate with the lightest neutralino with the ALEPH experiment". Supervisors: M. De Palma and M. Maggi.

1993 – 1998 Master in Physics

Universita' degli studi di Bari, Bari (ITALY). 110/110 cum Laude. Thesis on search for gluinos with the ALEPH experiment. Prof. M. De Palma and M. Maggi

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
French	B2	B2	B1	B1	A2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Digital skills – Expert in programming techniques (C++, Python, Perl, Scripts)
 – Expert in data analysis

Evaluation metrics – H-index (Scopus): 114
 – Citations (Scopus): 75841
 – Indexed products in the last 10 years (Scopus): 1005

SELECTED PUBLICATIONS

- 1 Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV, CMS Coll., JHEP 2003 (2020) 025 A, doi:10.1007/JHEP03(2020)025
- 2 Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data, CMS Coll., Phys. Lett. B 768 (2017) 57-80 A, doi:10.1016/j.physletb.2017.02.010
- 3 Measurements of properties of the Higgs boson decaying into the four-lepton Final state in pp collisions at $\sqrt{s} = 13$ TeV, CMS Coll., JHEP 11 (2017) 047 A, doi:10.1007/JHEP11(2017)047
- 3 Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC, Phys. Lett. B, 716 (2012), p. 3061, doi:10.1016/j.physletb.2012.08.021
- 5 Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV, CMS Coll., Eur. Phys. J. C 75 (2015) 212, doi:10.1140/epjc/s10052-015-3351-7

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Nicola De Filippis

Signature

