PERSONAL INFORMATION

Paolo Walter Cattaneo

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ORCID: 0000-0001-6877-6882

Sex M | Date of birth 05/09/1963| Nationality Italian

POSITION
LEVEL OF EDUCATION

Senior Researcher in Istituto Nazionale Fisica Nucleare
Ph.D. in Physics

TEACHING ACTIVITIES

From 01/10/2015– to now

Adjunct Professor
Università di Pavia, Corso di Laurea in fisica, Via Bassi 6, 27100, Pavia

Astroparticle

From 01/10/2014 to 30/09/2015

Adjunct Professor
Università di Pavia, Corso di Laurea in fisica, Via Bassi 6, 27100, Pavia

Astronomia

From 01/01/2013– to now

Abilitazione Scientifica Nazionale as Full Professor in the sector 02/A1

PHD Supervisions

One PHD supervision
Supervisor of five master thesis

WORK EXPERIENCE

From 01/01/2007 to now

Senior Researcher in INFN
INFN Pavia Section, Via Bassi 6, 27100, Pavia

Particle physics

From 01/10/1992 to 30/09/1993

Adjunct Professor
Università di Pavia, Corso di Laurea in fisica, Via Bassi 6, 27100, Pavia

Fisica dei neutroni

From 01/01/2007 to now

Researcher in INFN
INFN Pavia section, Via Bassi 6, 27100, Pavia

Particle physics

From 01/01/1988 to now

CERN unpaid associate
CERN Espl. des Particules 1, 1211 Meyrin, Switzerland

Particle physics

From 01/01/1988 to 15/12/1990	**Ph.D. Student**

Max-Planck-Institut fuer Physik und Astrophysik, Foehringer Ring 6, Muenchen, BRD

Particle physics

EDUCATION AND TRAINING

From 10/1994 to 01/1997 **Laurea in matematica (110/110 Lode)**
Università degli studi Pavia

From 01/1988 to 07/1994 **Dottorato di ricerca in fisica (Magna cum Laude)**
Ludwig Maximilian Universitaet Muenchen, BRD

From 07/1990 to 07/1990 **Certificat d'Etudes de Francais Pratique 1**
Alliance francaise

From 10/1983 to 11/1987 **Laurea in fisica (110/110 Lode)**
Università degli studi Milano

From 09/1977 to 07/1982 **Maturità scientifica (60/60)**
Liceo scientifico Donato Bramante, Magenta (MI)

ACADEMIC AGE 35 years (1988-2023)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C2	C1
	Replace with name of language certificate. Enter level if known.				
German	B1	B2	B2	B1	B1
	Mittlestufe zwei (rilasciato dalla Ludwig Maximilian Universitaet)				
French	B1	C1	A2	A2	A2
	Academie Francaise: Certificat d'Etudes de Francais Pratique 1				

Communication skills

- ■ Good communication and relational skill developed in the research and academic community
- ■ I can speak with ease in public in italian and in english thanks to many conference presentations
- ■ Resilience and excellent ability to adapt thanks to long stays abroad and participation in large collaborations in multicultural environments
- ■ Writing skills in science thanks to the numerous scientific articles written
- ■ Outreach skills gained in various presentations for educational purposes in schools and to citizenship and on the occasion of researchers' nights and other third mission activities

Organisational / managerial skills	
	■ Coordination of scientific acrivities thanks to local responsabilities (up to 10 collaborators)
	■ Coordination of scientific acrivities thanks to responsabilities in international experiments
	■ Management of research budget up to 150000 euro per year

Organisational positions

2001-2004 Local responsible experiment AUGER
2008-now   Local responsible experiment AGILE
2008-now   Local responsible experiment MEG
2013-2015 Local responsible experiment GAMMA400
2013-2016 Local responsible experiment CaloCube
2018-now   Local responsible experiment HERD
2020-now   National and local responsabile experiment SPEye

1994 Representative of the researchers in section council of INFN Pavia
2015 Representative of the researchers in section council of INFN Pavia
2019 Representative of the researchers in section council of INFN Pavia

2015 Contact person of the VQR in the Pavia INFN section

2020-now Local responsible of Technological Transfert

Job-related skills

■   Extensive experience of data analysis with software tools and with deep mathematic/ statistical skills
■   Extensive experience in design of systems of detectors for experimental apparatus both at laboratory level than at large experiment
■   In-depth knowledge of detector physics in particular those semiconductor based
■   In-depth knowledge of detector readout systems

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Proficient user

■   Excellent knowledge of the operating system Linux
■   Good knowledge of the operating system Windows
■   Good knowledge of the tools in the office suite (text processing, electronic sheet, presentation software) both in Linux and Windows environments
■   Excellent skill in programming in Linux with different languages: Fortran, C, C++
■   Excellent skill in managing several programs for data manipulation and visualization (PAW, ROOT)
■   Good knowledge in Data Base management

Other skills

■   2012-now Parents Representative in the classes of my sons from grammar schoold to high school
■   2011-2014 City council member

Driving licence

Driving licence B

Scientific activities	a) Particle physics

a) Particle physics
b) High energy astrophysics
c) Instrumentation for nucler physics: detectors and readout systems
d) Instrumention for health physics

Scientific production

Publications
Presentations

2 Master thesis (one translated in english, with number ISBN)
1 Ph.D. thesis (with number ISBN)
292 papers on journal
36   Presentations to congress

Bibliometry:
Database Scopus al 20/03/2023
- Papers: 312
- H-index 61
Citations total: 15310

Web of Science al 20/03/2023
- Publicaztons: 294
- H-index 59
Citations total:13920

Inspires al 20/03/2023
- Publications: 250
- H-index 78
Citations totals: 22197

Projects

■   2018 submitted at VV3TT Proof of Concept Venture Program 2018 (POC 2018) the project Occhio Bionico (Bionic Eye) that passed the first level evalutation for admission to interview.
■ PI of PRIN 2020 on "Realization of a time of flight PET based on plastic scintillators readout by SiPMs" scored 88.7 (not funded).
■ PI of PRIN 2022 Realization of a time of light PET based on plastic scintillators readout by SiPMs still pending

Prizes and awards

- Corecipient as meber of AGILE team of the prize Bruno Rossi of' the High Energy Astrophysics division of the American Astronomical Society for high energy astrophysics.
- Supervisor of the thesis awarded with the INFN Premio Bruno Rossi 2009 as best Ph.D. thesis in commission II of Dr. Fabrizio Boffelli.

Refereeing activity

Referee of several international journals:
- IEEE Transaction on Nuclear Science
- Vacuum
- Journal of Computational and Applied Mathematics
- Journal of Electromagnetic Waves and Applications
- Sensors
- Journal of King Saud University
- Nuclear Instrument & Methods
- Arabian Journal for Science and Engineering
- The Astrophysical Journal
- Optical Engineering
- Universe
- Instruments

Referee of the following research projects:
- One proposal PRIN of MIUR.
- Two proposal SIR (Scientific Independence of young Researchers) del MIUR. For one of
    these also Rapporteur (with the task of drafting the final evaluation).
- Several European COoperation of Science and Techonlogy(COST) from European Union
- Scientific projects National Center of Science and Technology Evaluation (NCSTE) of Kazakhstan