



Marco Maggiora

WORK EXPERIENCE
RESEARCH


- Oct 2020–Present **Full Professor**
Full Professor in Experimental Physics of the Fundamental Interactions (FIS/01 – 02/A1)
Department of Physics, University of Turin
Turin (IT)
- Jul 2019–Present **Coordinator (PI) of the H2020-MSCA-RISE-2019 Project "FEST"**
European Commission - H2020
Project FEST: "EST – Future Experiments seek Smart Technologies".
Funded by European Commission with 2.1M€ for the years 2020-2023.
- Consortium involving more than 130 researchers from the following Research Institutions, Universities and Industries:
- Research Institutions and Universities:
 - Istituto Nazionale di Fisica Nucleare (INFN), Sections of: Bari, Bologna, Ferrara, Lecce, Laboratori Nazionali di Frascati, Milano, Roma Sapienza, Pavia, Pisa, Torino (IT);
 - CERN, European Organization for Nuclear Research, Geneva (CH);
 - Institute of High Energy Physics (IHEP), Beijing (CN);
 - Johannes Gutenberg Universitaet and Helmholtz Institute Mainz, Mainz (DE);
 - Ruhr-Universitaet Bochum, Bochum (DE);
 - University of Sussex, Brighton (UK);
 - Uppsala Universitet, Uppsala (SE);
 - Westfaelische Wilhelms-Universitaet Muenster, Muenster (DE);
 - Industries:
 - Costruzioni Apparecchiature Elettroniche Nucleari CAEN s.p.a., Viareggio (IT);
 - ELTOS s.p.a., Arezzo (IT);
 - Technology Transfer Agency Techtra Sp. z o.o., Wroclaw (PL), Istituto Nazionale di Fisica Nucleare (INFN), Section of Ferrara (IT).
- Total duration of the Project: 48 months.
- June 2017–Present **Deputy Coordinator of the Industrial PhD Program in "Modeling and Data Science"**
University of Turin
Turin (IT)
- An innovative Industrial PhD Program of University of Turin focused on an interdisciplinary approach, so that the graduates will be able to solve problems using mathematics, physics, high performance computing, and statistics in different contexts such as chemistry, medicine and social sciences.
Refer for more details to the PhD Modeling and Data Science home page:
<http://dottorato-mds.campusnet.unito.it/do/home.pl>.
- Oct 2015–Present **Member - BELLEII Collaboration**
High Energy Accelerator Research Organisation (KEK)
Tsukuba (JP)
- May 2015–Present **Director of the IHEP-INFN Joint Laboratory**
Institute of High Energy Physics (IHEP, People's Republic of China)
National Institute of Nuclear Physics (INFN, Italy)

The INFN-IHEP Joint Laboratory (I2JL) provides a formal cooperation framework between:

- the Institute of High Energy Physics (IHEP) of the Chinese Academy of Sciences (CAS), Beijing, People's Republic of China;
- the Istituto Nazionale di Fisica Nucleare (INFN), Rome, Italy;

in the areas of high energy physics, astroparticle physics, accelerator physics, detector and computing technologies and formation and training of young physicists.

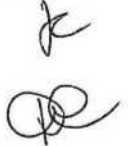
- Sep 2014–Dec 2018 **Coordinator (PI) of the H2020-MSCA-RISE-2014 Project "BESIII CGEM"**
European Commission - H2020
- Project BESIII CGEM: "An innovative Cylindrical Gas Electron Multiplier Inner Tracker for the BESIII Spectrometer".
Funded by European Commission with 1.5M€ for the years 2015-2018.
- Consortium involving more than 100 researchers from the following Research Institutions and Universities:
- Istituto Nazionale di Fisica Nucleare (INFN), Section of Turin (IT);
 - Istituto Nazionale di Fisica Nucleare (INFN), Section of Ferrara (IT);
 - Istituto Nazionale di Fisica Nucleare (INFN), Nazional Laboratory of Frascati (IT);
 - Johannes Gutenberg Universitaet and Helmholtz Institute Mainz, Mainz (DE);
 - Uppsala Universitet, Uppsala (SE);
 - Institute of High Energy Physics, Beijing (CN)
- Total duration of the Project: 48 months.
- Jan 2013–Dec 2015 **Principal Investigator for Italy of the Mobility Project CN13MO3**
Italian Ministry for Foreign Affairs (MAE)
- Mobility Project CN13MO3: "Experimental study of the phase between strong and electromagnetic interactions"
- Involving University of Turin and Istituto Nazionale di Fisica Nucleare, Turin (I), and Institute of High Energy Physics (P.R.C.)
Funded by the Italian Ministry for Foreign Affairs (MAE) and the Chinese Ministry of Science and Technology (MOST) within the Executive Program for Scientific and Technological Cooperation between the Italian Republic and the People's Republic of China for the years 2013-2015.
- Jan 2013–Dec 2014 **Responsabile Nazionale (PI) for BESIII – Italy**
National Institute of Nuclear Physics - INFN
- Jan 2009–Present **Group Leader and Executive Board Member - BESIII Collaboration**
Institute of High Energy Physics - IHEP
Beijing (CN)
- Member of the Executive Board since 2014
 - Member of the Nominating Committee since 2010
 - Member of the Institution Board since 2009
- 2009–Present **Chairman of the Commission of the BA and AM Physics Courses for Stages and Job-Placement**
Department of Physics, University of Turin
Turin (IT)

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- Oct 2007–Sep 2020 Associate Professor
 Department of Physics, University of Turin
 Turin (IT)
 - Feb 2006–Dec 2007 Member of the Council
 ReTe - Centro di Interesse Generale d'Ateneo Reti e Telecomunicazioni, University of Turin
 Turin (IT)
 - 2003–2016 Member - PANDA Collaboration
 Helmholtz Centre for Heavy Ion Research
 Darmstadt (DE)
 - Member of the Collaboration Board from 2007 to 2010
 - Member of the Physics Board from 2010 to 2016
 - Oct 2002–Sep 2007 Researcher
 Department of Physics, University of Turin
 Turin (IT)
 - May 2000–Sep 2002 Postdoc position
 Department of Physics, University of Turin
 Turin (IT)
 - 2000–2008 Member - COMPASS Collaboration
 European Organization for Nuclear Research - CERN
 Geneva (CH)
 - Sep 1996–Present Member - DISTO Collaboration
 Commissariat à l'énergie atomique et aux énergies alternatives (CEA)
 Laboratoire Saturne
 Saclay (FR)
 - Sep 1996–Dec 1997 Visiting PhD Student
 Commissariat à l'énergie atomique et aux énergies alternatives (CEA)
 Laboratoire Saturne
 Saclay (FR)
 - Mar 1996–Present Visiting Scientist
 European Organisation for Nuclear Research - CERN
 EP Division
 Geneva (CH)
 - May 1995–Present Associate Scientist
 National Institute of Nuclear Physics - INFN
 - May 1995–Mar 1996 Visiting Diploma Thesis Student
 European Organisation for Nuclear Research - CERN
 EP Division
 Geneva (CH)

**WORK EXPERIENCE
TEACHING**

- Nov 2019–Present Professor of the Course "Econophysics"
University of Turin - Laurea Degree Course (AM) in "Physics of the Advanced Technologies"
- Nov 2017–October 2018 Professor of the Course "Complements of General Physics"
University of Turin - Laurea Degree Course (AM) in "Physics of the Advanced Technologies"
- Nov 2016–Present Professor of the Course "Medical Physics"
University of Turin - Bachelor's Degree Course (BA) in "Techniques in Medical Radiology, Imaging and Radiotherapy"
- Nov 2014–Present Professor of the Course "Laboratory of Advanced Modeling Techniques: Multi Agent Systems (MAS)"
University of Turin - Laurea Degree Course (AM) in "Physics of the Advanced Technologies"
- Nov 2014–Oct 2015 Professor of the Course "Physics" - Tirocinio Formativo Attivo (TFA)
University of Turin
- Nov 2013–Present Professor of the Course "Physics"
University of Turin - Bachelor's Degree Course (BA) in "Strategic Sciences - SUISS"
- Nov 2013–Oct 2014 Professor of the Course "Physics" - Percorsi Abilitanti Speciali (PAS)
University of Turin
- Nov 2012–Oct 2013 Professor of the Course "Phycis", Tirocinio Formativo Attivo (TFA)
University of Turin
- Nov 2008–Oct 2013 Professor of the Course "Laboratory of Advanced Technologies"
University of Turin - Laurea Degree Course (AM) in "Physics of the Advanced Technologies"
- Nov 2006–Oct 2015 Professor of the Course "Geometrical Optics"
University of Turin - Bachelor's Degree Course (BA) in "Optics and Optometry"
- Nov 2004–Present Professor of the Course "Physics for the Virtual Reality"
University of Turin - Laurea Degree Course (AM) in "Virtual Reality and Multimedia"
- Nov 2002–Oct 2004 Lecturer of the Course "Waves, Fluid Dynamics and Thermodynamics"
University of Turin - Bachelor's Degree Course (BA) in "Physics"
- Nov 2002–Oct 2006 Lecturer of the Course "Mechanics"
University of Turin - Bachelor's Degree Course (BA) in "Physics"
- Jun 2000 Habilitation as High School Teacher of "Mathematics and Physics" – Class A49
Concorso Ordinario Docenti 1999-2000 (competitive state exam), providing Habilitation for and recruiting High School Teachers of "Mathematics and Physics"
- Jun 2000 Habilitation as High School Teacher of "Physics" – Class A38
Concorso Ordinario Docenti 1999-2000 (competitive state exam), providing Habilitation for and recruiting High School Teachers of "Physics"

Jun 2000 Habilitation as High School Teacher of "Mathematics" – Class A47
Concorso Ordinario Docenti 1999-2000 (competitive state exam), providing Habilitation for and recruiting High School Teachers of "Physics"



OUTREACH ACTIVITIES AND TEACHERS TRAINING

Feb 2015–Present

Particle Physics and Quantum Mechanics outreach activities

I.I.S. "Racchetti - da Vinci" | LICEO SCIENTIFICO (Scientific High School), Crema (CR) – Outreach activities with the students of the last year of the Scientific High School in the following a.y.: 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020.

Since the a.y. 2016-2017 specific training interdisciplinary activities have been performed with teachers of: Chemistry, Filosofia, History, Mathematics, Physics, Science.

Feb 2005–Present

Particle Physics and Quantum Mechanics outreach activities

I.I.S. "E. Majorana" | LICEO SCIENTIFICO (Scientific High School), Turin – Outreach activities with the students of the last year of the Scientific High School in the following a.y.: 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018.

Since the a.y. 2016-2017 part of the outreach activities have been delivered in English.

Since the a.y. 2014-2015 specific training interdisciplinary activities have been performed with teachers of: Chemistry, Filosofia, History, Mathematics, Physics, Science.

EDUCATION AND TRAINING

1996–2000	Ph.D. Particle Physics University of Turin	EQF level 8
1990–1996	Master's Degree Physics University of Turin	EQF level 7
1985–1990	Scientific High School Istituto Sociale, Turin (Italy)	EQF level 4
1982–1985	Compulsory education certificate Istituto Agnelli, Turin (Italy)	EQF level 2

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A2	B1	A1	A1	-

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

Communication skills

Excellent communication skills in the following frameworks:

- coaching of students, from diploma to doctoral students, in their research skills building
- teaching: from High School to Academic
- scientific communications: dozens of invited and plenary talks in international Conferences and Workshops
- outreach: from general public to High School and Academic
- teachers' coaching: several years experience in coaching High School professional teachers in delivering Modern Physics lectures

Organisational / managerial skills

Extended experience in coordinating complex research groups involving people from different countries and languages, at National, International and Continental scale.
 Proven ability in fund rising.
 Excellent negotiating skills that lead to the design, discussion, writing and approval of several International Agreements involving INFN and Chinese Institutions (IHEP, CAS)