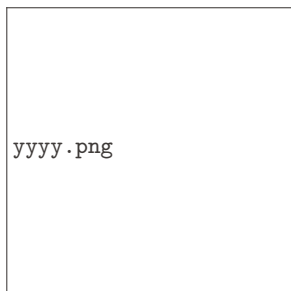


PERSONAL INFORMATION




MARCO BATTAGLIERI

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Gender Male | Date of birth 29-04-1968 | Nationality Italian

EPR Senior Researcher

WORK EXPERIENCE

- 2009 – Present **Primo Ricercatore**
Istituto Nazionale di Fisica Nucleare , Sezione di Genova, Genova, (Italy)
- 2019 –2021 **Senior Staff Scientist**
Thomas Jefferson National Laboratory, Newport News, VA, (US)
– Experimental Hall-B Team Leader
- 2015 –2016 **Visiting Scientist**
Thomas Jefferson National Laboratory, Newport News, VA, (US)
– Coordinator of CLAS12 Forward Tagger project
- 1997 – 2008 **Researcher**
Istituto Nazionale di Fisica Nucleare , Sezione di Genova, Genova, (Italy)

EDUCATION

- 2014 – present **Abilitazione Scientifica Nazionale Prof. Prima Fascia 02/A1, MIUR, Italy**
- 2014 – present **Abilitazione Scientifica Nazionale Prof. Seconda Fascia 02/A1, MIUR, Italy**
- 1993 – 1997 **PhD in Physics,- Genova University, Genova, IT**
– Asymmetries in Rho0 meson electroproduction, (G.Ricco and M.Taiuti)
- 1987 – 1993 **Master Degree in Physics,- Genova University, Genova, IT**
– Pi0 meson photoproduction at GRAAL (G.Ricco)

PROJECTS - LEADERSHIP ROLE
(LAST FIVE YEARS)

- 2021 – today **Senior Personnel, Machine Learning-based Physics Event Generators, proposal submitted to , Cyber-infrastructure for Sustained Scientific Innovation (CSSI) - NSF, US, \$250k**
- 2019 – today **Co-PI Hadron Spectroscopy (HaSp): Building a common analysis framework with artificial intelligence, STRONG-2020, Horizon2020 EU, €430k**

- 2018 – today Co-PI A triggerless DAQ for EIC, Ministero degli Esteri (MAECI) Italy, €150k
- 2019 – 2021 Team Leader Experimental Hall-B Jefferson Lab, Department of Energy, US \$2.5M
- 2018 – 2020 Co-PI, EIC eRD23 Streaming RO, Department of Energy, US, \$60k
- 2018 – 2020 Local responsible, EIC Scintillating glass development, Department of Energy, US, \$60k
- 2019 – 2020 Local responsible, JRA5WP23 Generalized Parton Distribution (GPD-ACT) in STRONG-2020, Horizon2020 EU, €4k
- 2016 – 2018 Co-PI LiQuHaS - Cooperazione Scientifica e Tecnologica Italia-Polonia, MAECI PO16MO01, €6k

 PROJECTS - REVIEWER (LAST 5 YEARS)

- 2019 – today Member of extended panel pool of experts of Flander Research Foundation, Belgique
- 2015 – today Reviewer of Science and Technology Facilities Council (STFC) UK, including Rutherford Fellowship
- 2014 – today Reviewer of Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2013 – today Reviewer of Fund for Scientific Research - FNRS Belgique

 COMMITTEES AND RESPONSIBILITIES (LAST 5 YEARS)

- 2018 – present Member of EIC-NET Executive Board, INFN, Italy
- 2018 – present Member of Basic Reserach Needs: study on DM initiatives, Department of Energy, US
- 2018 – present Responsible for detector simulations in EEE Collaboration, INFN/CentroFermi, Italy
- 2019 – 2021 Experimental Hall-B team leader, Jefferson Lab, US
- 2018 –2021 Member of CLAS Coordinating Committee, Jefferson Lab, US
- 2018 –2020 Member of HPS-ECAL Coordinating Committee, Jefferson Lab, US
- 2013 –2018 Chairman of the CLAS Hadron Spectroscopy Working Group, Jefferson Lab, US

- 2012 – 2018 Spokesperson of JLAB12 Collaboration, INFN, Italy
- 2018 Spokesperson of Physics with Positron Beams at Jefferson Lab 12 GeV, Lol, JLab, US
- 2016 Spokesperson of Dark matter search in a Dump eXperiment (BDX), Experiment, JLab, US

TEACHING (LAST 5 YEARS)

- 2015 – 2019 Adjunt Professor, Detector in particle physics, PhD School Genova University
- 2011 – 2019 Adjunt Professor, Fundamental Interaction and Astrophysics Lab, Master Degree, Genova University

TUTORING (LAST 5 YEARS)

- 2021 – present PhD Thesis, Light Dark Matter search at Jefferson Lab, M.Spreafico, University of Genova, Italy
- 2020 – present PhD Thesis, Spettroscopia adronica con CLAS12 at JLab, L.Biondo, University of Messina, Italy
- 2020 PhD committee member, Exotic spectroscopy with GLUEX, A.Foda University of Regina, Canada
- 2020 Master Thesis, The BDX-MINI experiment, M.Spreafico, University of Genova, Italy
- 2020 Master Thesis, Light Dark Matter search with positron beams at JLab, P.Bisio University of Genova, Italy
- 2019 – present PhD Thesis, Ricerca di fisica BSM con muoni di alta energ, S.Grazzi, University of Messina, Italy
- 2017 – 2020 PhD Thesis, Light Dark Matter search in a beam dump experiment, L.Marsicano, University of Genova, Italy
- 2017 Master Thesis, Sviluppo di un sistema di controllo per rivelatore di raggi cosmici, C.Cardile, University of Genova, Italy
- 2017 Master Thesis, A detectopr prototype for the BDX experiment, L.Marsicano University of Genova, Italy
- 2017 PhD committee member, The HPS experiment, A.Symonian University Paris Sud and Orsay, France

SCHOOLS

- 2021 Co-organizer, Machine Learning in High Energy Physics, INFN School, LNF, Italy

- 2019 Co-organizer, Machine Learning in High Energy Physics, INFN School, Camogli, Italy
- 2019 Lecturer, Hadron physics and prospects for the Electron Ion Collider, INFN PhD School, Otranto, Italy
- 2018 Lecturer, Hadron spectroscopy and the search for unconventional states: glueballs, hybrids, multi quark states, Rolandseck/Rhine PhD School, Germany
- 2015 Lecturer, Light Dark Matter search at accelerators, Ferrara University, Ferrara, Italy
- 2015 Lecturer, Physics at Jefferson Lab, GGI, Firenze, Italy

DISSEMINATION AND OUTREACH

- 2019 – present Member of Dissemination Board of STRONG2020 (DISCO), EU
- 2019 – present Member of OCRA experiment INFN, Italy
- 2016 – present Member of EEE experiment INFN/CentroFermi, Italy
- 2012 – present Member of Editorial Board ScienzaxTutti INFN, Italy

SELECTED PUBLICATIONS

- Evaluation metrics
- H-index (WebOfScience): 58
 - Citations (WebOfScience): 12323
 - Indexed products in the last 10 years (WebOfScience): 325
- 1 Y.Alanazi et al. Machine learning-based event generator for electron-proton scattering, arXiv:2008.03151 [hep-ph], submitted to PRD
 - 2 Y.Alanazi et al. A survey of machine learning-based physics event generation, Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI 2021), Survey Track, p. 4286 (2021), arXiv:2106.00643 [hep-ph].
 - 3 M. Khachatryan et al. (CLAS Collaboration) Electron-beam energy reconstruction for neutrino oscillation measurements, Nature, <https://doi.org/10.1038/s41586-021-04046-5>, 2021
 - 4 M. Abbrescia et al. (EEE Collaboration) The cosmic muon and detector simulation framework of the extreme energy events (EEE) experiment, Eur.Phys.J.C 81 (2021) 5, 464
 - 5 M. Battaglieri et al. The BDX-MINI detector for Light Dark Matter search at JLab, EPJC 81, 164, 2021
 - 6 A. Schmidt et al. (CLAS Collaboration) Probing the core of the strong nuclear interaction, Nature 578, 7796, 540-544 2020
 - 7 A. Acker et al. The CLAS12 Forward Tagger Nucl.Instrum.Meth.A959.163475, 2020
 - 8 M. Ungaro et al. The CLAS12 Geant4 simulation, ucl.Instrum.Meth.A959.163422, 2020
 - 9 M. Marsicano et al. Novel Way to Search for Light Dark Matter in Lepton Beam-Dump Experiments Phys.Rev.Lett.121.041802, 2018
 - 10 M. Battaglieri et al. US Cosmic Visions: New Ideas in Dark Matter 2017: Community Report, arXiv:1707.04591

SELECTED INVITED TALKS AT
CONFERENCES

- 1 Present and future of JLab CLAS12 physics program, DIS2021, 12-16 April 2021 Stony Brook, NYI
- 2 Dark Sectors with Electron Beam Dumps and Positron Beams (on fixed targets), Snowmass, RF6 Kickoff meeting, (virtual) Aug. 12 -13, 2020
- 3 Light and heavy quark spectroscopy at EIC, Snowmass, American Physical Society, GHP 2019, Denver, US, Apr 10-12 2019
- 4 The BDX experiment: light dark matter search at accelerators, New Probes for Physics Beyond the Standard Model, Santa Barbara CA US, Apr. 9-12 2018
- 5 The BDX experiment, International workshop on e+e- collisions from Phi to Psi 2017, Mainz, Germany, 26-29 June 2017

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

Date, Signature

4/7/2022

Marco Battaglieri

