

**EUROPEAN
CURRICULUM VITAE
FORMAT**

Sergio Lo Meo



WORK EXPERIENCE

- Dates (from - to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

Since 17/12/2012

ENEA, Research Centre "E. Clementel", Via Martiri di Monte Sole 4, I-40127 Bologna (Italy)
Scientific Research
Physics Researcher
Monte Carlo Simulations (Geant4) for High Energy Physics, Nuclear Physics and Medical Physics

From 01/02/2006 to 17/12/2012

ISPESL (now INAIL) Via Fontana Candida 1, I-00040 Monte Porzio Catone, Rome (Italy)
Scientific Research
Contract Physics Researcher
Monte Carlo Simulations (Geant4) for Medical Physics

From 01/10/1999 to 01/02/2006

Liceo Linguistico Europeo "Immacolata" Via Ardea 16, I-00183 Rome (Italy)
High School
Mathematics and Physics Teacher

EDUCATION AND TRAINING

- Date
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

21/05/2009

Alma Mater Studiorum – University of Bologna, Bologna (Italy)

Monte Carlo Simulations (Geant4), Nuclear Physics, Medical Physics

Ph. D.

Thesis: "Monte Carlo Simulations of Novel Scintillator Detectors and Dosimetry Calculations"

18/04/2005

"Sapienza" University of Rome, Rome (Italy)

Monte Carlo Simulations (Geant4, EGS4, EGSnrc), Medical Physics

Specialist in Medical Physics

63/70

15/07/1999

"Sapienza" University of Rome, Rome (Italy)

Nuclear Physics

Graduated in Physics

109/110

MOTHER TONGUE	Italian
OTHER LANGUAGES	
<ul style="list-style-type: none"> • Reading skills • Writing skills • Verbal skills 	English B2 B2 B2
ORGANIZATIONAL SKILLS AND COMPETENCES	Since 01/01/2019 Contact Person for Monte Carlo (Geant4) Geometry of the Muon System, CMS Collaboration @CERN 01/01/2013 - 31/12/2015 and 01/01/2017 - 31/12/2017 Local Coordinator (Bologna) of the n_TOF experiment @ CERN https://ntof-exp.web.cern.ch/ntof-exp/
TECHNICAL SKILLS AND COMPETENCES	Ubuntu 18.04, Windows 10, macOS 10.14.5 C++, Fortran 77, Python, root (CERN) Monte Carlo Simulations (Geant4)
DRIVING LICENSE	B
ADDITIONAL INFORMATION	
Publications	http://orcid.org/0000-0003-3249-9208
Knowledge Exchange Program	Since 05/06/2019 Knowledge Exchange Officer ENEA (https://www.kep.enea.it/keo.html) for “High Technology Medical Tools”
European Projects	Since 03/06/2019 H2020 Project, “Measurement and Instrumentation for Cleaning And Decommissioning Operations” (MICADO), call NFRP-2018-10, grant agreement No. 847641, work package number 7, task number 7.1 e 72.) (https://www.micado-project.eu)
Italian National Institute of Nuclear Physics (INFN) Projects	Since 2018 INFN-E Since 2017 CMS 2014 - 2017 n_TOF 2013 MC-INFN 2010 - 2011 BCT 2008 - 2011 ECORAD

Reviewer activity	<p>Since 19/10/2011</p> <p>Journal of Biomedical Optics (SPIE) Radiation Measurements (Elsevier) Physica Medica (Elsevier) Journal of Biophotonics (WILEY) Nuclear Science and Techniques (Springer) Journal of Instrumentation (SISSA)</p>
University activities	<p>https://www.unibo.it/sitoweb/sergio.lomeo</p> <p>05/12/2017 - 05/12/2023 Enabled as Associate Professor of Applied Physics (02/D1 – FIS/07)</p> <p>05/10/2018 – 05/10/2024 Enabled as Associate Professor of Nuclear Physics (02/A1 – FIS/04)</p> <p>2019/2020 Prof. of Physics, University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (30 hours) Prof. of Physics, University of Bologna, School of Pharmacy and Biotechnology, Bologna (32 hours)</p> <p>2018/2019 Prof. of Physics , University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (30 hours)</p> <p>2017/2018 Prof. of Physics, University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (30 hours)</p> <p>2016/2017 Prof. of Physics, University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (30 hours)</p> <p>2015/2016 Prof. of Physics, University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (30 hours)</p> <p>2014/2015 Prof. of Physics, University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (20 hours)</p> <p>2013/2014 Prof. of Physics, University of Bologna, School of Agriculture and Veterinary Medicine, Bologna (20 hours)</p> <p>2012/2013 Prof. of Mathematics, University of Bologna, Faculty of Pharmacy, Bologna (64 hours) Prof. of Physics, University of Bologna, Faculty of Agriculture, Bologna (20 hours) Prof. of Physics, University of Bologna, Faculty of Pharmacy, Imola (24 hours)</p> <p>2011/2012 Prof. of Physics, University of Bologna, Faculty of Pharmacy, Bologna (64 hours) Prof. of Physics, University of Bologna, Faculty of Agriculture, Bologna (20 hours) Tutor of Maths, University of Bologna, Faculty of Pharmacy, Bologna (20 hours) Tutor of Physics, University of Bologna, Faculty of Agriculture, Bologna (40 hours) Tutor of Physics, University of Bologna, Faculty of Agriculture, Cesena (25 hours)</p> <p>2010/2011 Prof. of Physics, University of Bologna, Faculty of Agriculture, Bologna (20 hours) Tutor of Physics, University of Bologna, Faculty of Agriculture, Bologna (40 hours)</p>

Tutor of Physics, University of Bologna, Faculty of Agriculture, Cesena (25 hours)
2009/2010

Tutor of Physics, University of Bologna, Faculty of Agriculture, Bologna (40 hours)
Tutor of Physics, University of Bologna, Faculty of Agriculture, Cesena (25 hours)

2010/2011

Prof. of Physics, University of Bologna, Faculty of Agriculture, Bologna (20 hours)
Tutor of Physics, University of Bologna, Faculty of Agriculture, Bologna (40 hours)
Tutor of Physics, University of Bologna, Faculty of Agriculture, Cesena (25 hours)

Co-tutor of the dissertation (Laurea Triennale) in Energetic Engineering: "*Utilizzo della Tomografia Muonica mobile per la caratterizzazione di rifiuti radioattivi eterogenei in matrice cementizia*" presented by Jacopo Stablum (**03/10/2019**) at School of Engineering and Architecture – University of Bologna

Co-tutor of the dissertation (Laurea Triennale) in Energetic Engineering: "*Il monitoraggio dei Cask per i rifiuti radioattivi: la Tomografia Muonica*" presented by Valeria Gallerani (**05/10/2018**) at School of Engineering and Architecture – University of Bologna

Co-tutor of the dissertation (Laurea Magistrale) in Physics: "Prototipo di un rivelatore per la misura di flusso di neutroni di alta energia" presented by Alice Manna (**31/03/2017**) at Physics Dept. – University of Bologna.

Co-tutor of the dissertation (Laurea Magistrale) in Physics: "Prima misura simultanea delle reazioni $^{235}\text{U}(n, f)$, $^6\text{Li}(n, t)$ e $^{10}\text{B}(n, \alpha)$ " presented by Simone Amaducci (**31/03/2017**) at Physics Dept. – University of Bologna

Co-tutor of the dissertation (Laurea Triennale) in Physics: "Simulazioni Monte Carlo delle proprietà ottiche di un rivelatore per misure di flusso di neutroni ad alta energia" presented by Pietro Paolo Cecchini (**28/10/2016**) at Physics Dept. – University of Bologna.

Co-tutor of the dissertation (Laurea Triennale) in Energetic Engineering: "Il monitoraggio dei Cask per i rifiuti radioattivi: utilizzo di sistemi innovativi portatili per la misura della radioattività" presented by Eleonora Gala (**06/10/2016**) at School of Engineering and Architecture – University of Bologna

Co-tutor of the dissertation (Laurea Triennale) in Physics: "Studio della funzione di risoluzione dell'esperimento n_TOF e conversione del tempo di volo in energia" presented by Devis Comandini (**23/09/2016**) at Physics Dept. – University of Bologna.

Co-tutor of the dissertation (Laurea Triennale) in Physics: "Studio della funzione di risoluzione dell'esperimento n_TOF e conversione del tempo di volo in energia" presented by Devis Comandini (**23/09/2016**) at Physics Dept. – University of Bologna.

Co-tutor of the dissertation (Laurea Triennale) in Physics: "Fattibilità della misura di cattura neutronica sugli isotopi dispari del Gadolinio", presented by Melinda J. Sirio Li Calzi (**18/03/2016**) at Physics Dept. – University of Bologna.

Talk "Study of Silicon + ^6LiF thermal neutron detectors: Geant4 simulations versus real data." 103° Congresso Nazionale della Società Italiana di Fisica, Trento 11 – 15 September 2017.

"Influence of secondary pions in spallation sources for neutrons and photons prompt production." 102° Congresso Nazionale della Società Italiana di Fisica, Padova (Italy) 26 – 30 September 2016.

"Fission at Intermediate Nucleon Energies" XIV Convegno sui Problemi di Fisica Teorica Nucleare, Cortona (AR) 29-31 October 2013

“Le esposizioni mediche e la dose agli operatori “ XXII Congresso Nazionale AIRM, Torino (Italy) 21 – 24 June 2011

“Applicazione di codici Monte Carlo alle problematiche di radioprotezione connesse alle metodiche di imaging diagnostico (PET-SPECT)” Giornata di Studio INPRAT, 10/11/2010 Sala Guglielmo Marconi – CNR - P.le Aldo Moro 7 Roma (Italy)

“Introduction to the use of C++ for Monte Carlo simulations in the Economic Sciences” Corso di Alta Formazione in Finanza Matematica, Dipartimento di Matematica, Alma Mater Studiorum – Università di Bologna (Italy) 10/3/2010 (invited talk)

“Imaging Performace evaluation of LaBr3:Ce scintillation crystals by GEANT4”, Workshop On Developments of new Scintillator Detectors for Gamma Spectroscopy and Imaging 16 – 17 November 2009, Milano (Italy)

“Le tecniche Monte Carlo contribuiscono allo sviluppo della ricerca e della pratica in radioprotezione“, XXXIV Congresso Nazionale di Radioprotezione 28 – 30 October 2009 Frascati (Roma) - Italy

Scientific Grants

From 01/08/2019 to 30/09/2019

CERN Scientific Grant supported by the CMS Muon group and CMS Offline and computing group