



Istituto Nazionale di Fisica Nucleare

SEZIONE DI PAVIA
Il Direttore



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AOO_PV-2017-0000624
del 02-11-2017 10:03

*Al Presidente INFN
Chiar.mo Prof. F. Ferroni*

*Alla
Direzione Affari del Personale
SAC INFN*

Oggetto: *selezione di personale da assumere con contratto a termine – Riferimento PV/C7/717*

Facendo seguito alla pubblicazione della selezione di cui all'oggetto relativa all'assunzione di una unità di personale con profilo di Collaboratore di Amministrazione - VII° livello professionale, propongo una rosa di nominativi di personale esperto nelle materie oggetto delle prove di esame quali membri della Commissione:

- Dott.ssa Silva Bortolussi – Presidente – Ricercatrice UNIPV
- Sig. Marco Pavan – Commissario – Funz. Amm. IV° livello INFN GE
- Sig. Tiziano Ferro – Commissario – Coll.Amm. V° livello INFN LNF
- Sig.ra Marina Ventura - Segretaria – Coll.Amm. V° livello INFN Pavia

Come previsto dalla normativa vigente, in allegato si trasmettono i CV e le dichiarazioni attestanti l'assenza di condanne penali per reati riconducibili ai delitti contro la PA di tutti i componenti proposti.

Cordiali saluti.

Il Direttore

Dr. Valerio Vercesi

All/c.s.d.








Istituto Nazionale di Fisica
Nucleare
codice fiscale 84001850589

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PEC: pavia@pec.it

PERSONAL INFORMATION

Silva Bortolussi



 Via Colombarolo 7, 27100 Pavia, Italy
 +39 0382 98 76 35  +39 320 921 50 01
 silva.bortolussi@pv.infn.it
 <http://www.bnct.it>

Sex Female | Date of birth 08/11/1978 | Nationality Italian

WORK EXPERIENCE

From 16/11/2016 to today

Senior Researcher

University of Pavia, Department of Physics

- Research in Boron Neutron Capture Therapy
- Chair of University Courses "Experimental Physics" for the BSc in Biotechnology and "Simulations in biomedical physics" for the MSc in Physics
- Supervisor and co-supervisor of MSc, BSc and PhD students (also International)
- Principal Investigator of the INFN project BEAT_PRO
- Visiting researcher at National Commission of Atomic Energy (Argentina)
- Management of international collaborations
- Fund raising activities
- Dissemination activities: talks in national and international congresses, workshops and seminars.
- Public Engagement: Organizer of the European Researcher Night, project DREAMS 2016-2017
- Secretary General of International Society for Neutron Capture Therapy
- Delegate at Latin America Working Group, COIMBRA Group

Business or sector Applied Nuclear Physics

From 16/06/2014 to 5/11/2016

Fixed Term Researcher

Istituto Nazionale di Fisica Nucleare, Pavia

- Local responsible of the INFN experiment NeTTuNO and Neutargs
- Local responsible of a project funded in the scheme "Ricerca Finalizzata"
- Experimental measurements of boron concentration in tissues and Monte Carlo calculations of neutron dosimetry and treatment planning
- Tailoring of a neutron beam from an accelerator source
- Supervisor and co-supervisor of MSc, BSc and PhD students (also International)
- Visiting researcher at National Commission of Atomic Energy (Argentina)
- Management of international collaborations
- Fund raising activities
- Dissemination activities: talks in national and international congresses, workshops and seminars.
- President of the Organizing Committee of 8th Young Researchers BNCT Meeting
- Public Engagement: Organizer of the European Researcher Night, project DREAMS 2014-2015
- Member of the Executive Board of International Society for Neutron Capture Therapy
- Chair of the course "Experimental Physics" for the BSc in Biotechnology, 2014-2015 University of Pavia
- Chair of the course "Simulations in biomedical physics" for the MSc in Physics, 2015-2016 University of Pavia
- Visiting professor at University of Campinas, Brasil, to give the intensive Course "Monte Carlo Simulations in medical physics"

Business or sector Applied Nuclear Physics

From 1/12/2013 to 31/05/2014

Post Doc Position
 University of Pavia and INFN, Pavia

- Local responsible of the INFN experiment NeTTuNO and Neutargs
- Local responsible of a project funded in the scheme "Ricerca Finalizzata"
- Experimental measurements of boron concentration in tissues and Monte Carlo calculations of neutron dosimetry and treatment planning
- Supervisor and co-supervisor of MSc, BSc and PhD students (also International)
- Management of international collaborations
- Fund raising activities
- Dissemination activities: talks in national and international congresses, workshops and seminars
- Member of the Executive Board of International Society for Neutron Capture Therapy

Business or sector Applied Nuclear Physics

From 1/12/2010 to 30/11/2013

Junior University Researcher
 University of Pavia

- Principal Investigator of a research project funded by Italian Ministry of University and Education (scheme FIRB-Futuro in Ricerca 2008), dedicated to Boron Neutron Capture Therapy (BNCT) of Osteosarcoma
- Experimental measurements of boron concentration in tissues and Monte Carlo calculations of neutron dosimetry and treatment planning
- Chair of the course "Simulations in bio-sanitary field" for the Master of Science in Physics (University of Pavia)
- Supervisor and co-supervisor of MSc, BSc and PhD students (also International)
- Visiting researcher at National Commission of Atomic Energy (Argentina) – 4 periods of 2 to 3 months (see below)
- Management of international collaborations
- Fund raising activities
- Dissemination activities: talks in national and international congresses, workshops and seminars
- Member of the Executive Board of International Society for Neutron Capture Therapy
- **National Scientific Qualification, for the position of associate professor.**

Business or sector Applied Nuclear Physics

From 1/12/2007 to 30/11/2009

Post Doc Position
 University of Pavia

- Experimental measurements of boron concentration in tissues and Monte Carlo calculations of neutron dosimetry and treatment planning
- Tutor for the University Courses of "Simulations in bio-sanitary field" and "Physics of Ionizing Radiation" for the Master of Science in Physics and "Physics with experiments" for the Bachelor of Science in Biotechnologies (University of Pavia)
- Co-supervisor of MSc students
- International Congress Organization (organizing committee of 13th ICNCT, Florence, November 2008)

Business or sector Applied Nuclear Physics

EDUCATION AND TRAINING

From Dec 2013 to Jun 2015

Master Executive in Open Innovation and Knowledge Transfer (110/110 cum laude)
 MIP, Milan Polytechnic
 II level Master
 Thesis "A Successful External Funds Service", 19 June 2015

From 1/11/2004 to 31/10/2007

Ph.D.

University of Pavia, Italy

- Studies for the application of neutron capture therapy to disseminated tumours
- Nuclear methods to measure boron concentration in biological samples
- Monte Carlo techniques for radiation transport in matter (MCNP-MCNPX-SRIM)
- Experimental and computational neutron dosimetry
- Participation to national and international congresses
- Participation to national and international PhD schools
- Thesis "Boron Neutron Capture Therapy of Disseminated Tumours", supervisor Dr S.Altieri (University of Pavia), Referee Dr R.Moss (JRC, Petten, The Netherlands)

From 1997 to 2004 **Master of Science in Physics (110/110 cum laude)**

University of Trieste, Italy

- Nuclear physics applied to medicine
- Thesis on BNCT of explanted organs at the TRIGA Mark II reactor of Pavia, ("Una originale configurazione del campo neutronico per una migliore uniformità della dose nell'organo espantato", supervisor prof L.Bertocchi, University of Trieste, co-supervisors, prof. T.Pinelli and Dr S.Altieri, University of Pavia)

From 1992 to 1997 **Secondary School degree (60/60)**

Liceo Scientifico E.Majorana, San Vito al Tagliamento, Pordenone, Italy

- Scientific secondary studies

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
Spanish	C1	C2	C2	C2	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

Common European Framework of Reference for Languages

- Communication skills**
- Excellent communication skills, gained through the management of many international collaborations, the organization of an International congress and other activities involving international partners (research, seminars, workshops). Experience in communication was also increased by giving oral presentations in many International Congresses. The activity of tutoring MSc and PhD students also gave the opportunity to establish and maintaining contacts with research groups of foreign Institutions.
 - Excellent networking skills. In 2007 she started a collaboration with the BNCT group working at Comisión Nacional de Energía Atómica (CNEA), Argentina: this collaboration has grown in the years, producing many scientific results and a regular inter-change of researcher and students, MSc and PhD thesis shared by the two groups, contracts and invitations from both sides. Participated in the creation of other collaborations such as with the Birmingham (UK) and Helsinki (Finland) BNCT groups.
 - These skills and the International visibility led S.B. to be elected in the Executive Board of the International Society for Neutron Capture Therapy at the 15th International congress of neutron capture therapy in Japan, role that will last for 4 years.

- Organisational / managerial skills**
- **Leadership:** Principal Investigator of a project funded by the Italian Ministry of University and Research under the scheme FIRB-Futuro in Ricerca 2008 (project RBF086M46 "Neutron capture therapy: a new perspective for the treatment of osteosarcoma") and local responsible of two INFN experiments. Capacity to take decisions and to direct the working group. Supervisor of MSc theses; co-supervisor of two PhD students (one in Italy, one in Argentina).
 - **Management:** S.B. developed various management capabilities such as designing projects, managing the timelines, the resources and the costs, evaluating the advancements of projects and producing reports and documentation. These skills have been enlarged and optimized with the II level Master in management attended at Polytechnic of Milan.
 - **Work in team:** the BNCT group is formed by three researchers, one post-doc, one PhD student and different collaborators from other fields: biologists, chemists, medical doctors. Being BNCT an intrinsic multi-disciplinary discipline, it is absolutely necessary to cooperate with the different components, to share the knowledge and the results, and to coordinate the experiments.
 - Good knowledge of Horizon 2020, and national funding schemes such as SIR and "Ricerca Finalizzata" (Ministry of Health). Good knowledge of CARIPO foundation research funding schemes. Excellent knowledge of INFN mission, structure and funding modalities.
 - **Events Organization:** S.B. played a major role in the organization of 13th International Congress on Neutron Capture Therapy, held in Florence, Italy, in November 2008. President of the Organizing Committee of 8th Young Researchers BNCT meeting, Pavia, September 2015. She is part of the Organizing Committee of European Researchers Night in Pavia.

Job-related skills S.B. acquired both experimental and computational skills in BNCT field of research. In particular:

- Simulations of neutron flux distribution and radiation dose through the employ of specific Monte Carlo codes, in particular MCNP, MCNPX and SRIM.
- Design of neutron irradiation facilities for BNCT
- Treatment Planning calculations for BNCT with specific software as NCTPlan to test the dosimetric performance of neutron beams.
- Charged particle spectrometry for boron concentration measurements in biological tissues
- Neutron autoradiography techniques for imaging and quantification of boron in solid and liquid samples
- Neutron dosimetry

The possibility to work in a research reactor laboratory gave S.B. the possibility to work in collaboration of many groups, both Italian and International, for the test of new boronated formulations by measurement of boron concentration in cell cultures, and in animal and human tissues.

- Computer skills**
- advanced user of Monte Carlo codes MCNP and MCNPX
 - user of Monte Carlo code SRIM
 - programming languages: C, fortran, basic level, user of PAW and ROOT
 - good command of Microsoft Office™ tools
 - basic user of Microsoft Project
 - good knowledge of Windows and Linux OS.
 -

Driving licence driving licence category B

Thesis Supervision and
Co-supervision

- November 2008 – MSc – Nicoletta Protti (University of Pavia) "Studio della distribuzione della dose in polmone di ratto irraggiato al reattore TRIGA Mark II di Pavia" (Summa cum Laude)
- February 2012 - MSc – Ian Postuma (University of Pavia) "A neutron autoradiography method to measure ¹⁰B in biological samples applied to BNCT of osteosarcoma" (109/110)
- April 2013 – MSc – Luca Reversi (University of Pavia) "Studio computazionale per la realizzazione di un fascio di diffrattometria neutronica presso il reattore TRIGA di Pavia" (106/110)
- April 2014 – MSc – Matteo Ferrari (University of Pavia), computational and experimental dosimetry for cell cultures irradiation in the thermal column of TRIGA reactor (Summa cum Laude).
- April 2015 – MSc – Jacopo Valsecchi (University of Pavia), design of a thermal and epithermal neutron facility from proton accelerator
- April 2015 – MSc – Serena Marta Valle (University of Pavia), Helium ion beams for the eye treatment: an in-silico investigation
- January 2016 – PhD – Ian Postuma (University of Pavia), Clinical application of accelerator-based BNCT: optimization of procedures, tailoring of a neutron beam and evaluation of its dosimetric performance
- April 2017 – BSc – Sara Lazzarin, Treatment Planning Systems per la terapia per cattura neutronica sul boro (BNCT)
- Ongoing: MSc -Chiara Magni, Neutron activation and dosimetry studies for the design of an accelerator-based BNCT clinical facility at CNAO
- Co-supervisor of a PhD thesis (Lucas Provenzano) in collaboration between University of San Martin (Buenos Aires, Argentina), CNEA (Buenos Aires, Argentina), and University of Pavia, Dep. of Physics.
- March 2014: Member of the PhD commission, Universidad de San Martin, Istituto Sabato, Buenos Aires, Argentina

Publications

- 56 Publications in peer reviewed International Journals and 16 Proceedings of National and International Congresses h-index 10 - 377 citations (Scopus)
- Guest Editor of the Special Issue of Applied Radiation and Isotopes dedicated to 13th ICNCT, 67(7-8), 2009
- Reviewer for Medical Physics, Applied Radiation and Isotopes and other International Journals on the effects of radiation in biological tissues.

Presentations

- 12 oral presentations in national and international congresses,
- 16 invited talks-seminars-conferences (see Annex 1)
- 1 invited talk in a plenary session (International Congress on Neutron Capture Therapy, 2016)

Abroad Research Experience

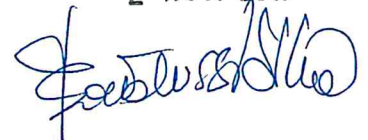
- May-June 2007 *Host:* Dr Marcelo Miller, Department of Instrumentation and Control – National Commission for Atomic Energy, Buenos Aires, Argentina
- August-October 2009 *Host:* Dr Marcelo Miller, Department of Instrumentation and Control – National Commission for Atomic Energy, Buenos Aires, Argentina
- September-October 2010 *Host:* Dr Sara J. Gonzalez, Group of Computational Dosimetry and Treatment Planning – National Commission for Atomic Energy, Buenos Aires, Argentina
- August-September 2011 *Host:* Dr Sara J. Gonzalez, Group of Computational Dosimetry and Treatment Planning – National Commission for Atomic Energy, Buenos Aires, Argentina
- March 2014 *Host:* Dr Sara J. Gonzalez, Group of Computational Dosimetry and Treatment Planning – National Commission for Atomic Energy, Buenos Aires, Argentina
- August 2014 *Host:* Dr Sara J. Gonzalez, Group of Computational Dosimetry and Treatment Planning – National Commission for Atomic Energy, Buenos Aires, Argentina
- October 2015 *Host:* Dr Sara J. Gonzalez, Group of Computational Dosimetry and Treatment Planning – National Commission for Atomic Energy, Buenos Aires, Argentina
- November 2015: *Host:* Prof. Sandro Guedes, University of Campinas, Brasil

Training Courses

- 2011 IAEA Workshop: "Monte Carlo Radiation Transport and Associated Needs for Medical Applications", ICTP, Trieste, Italy
- 2010 MatLab Course, Universidad Tecnológica Nacional, Buenos Aires, Argentina
- 2006 MCNPX workshop (Training Course on MCNPX, Intermediate Level), at ENEA, Italy.
- 2006 Nuclear Physics Software Course, Alghero, Italy
- 2005 Nuclear Physics School Course, Otranto, Italy

- Honors and awards**
- Fairchild Award for young researchers, at 11th International Congress of Neutron Capture Therapy (ICNCT), Japan, 2006
 - Award for young researchers in the field of tumours of young age "Giovanni Carcea", Crotone, 2012
 - Organizing Committee of 13th ICNCT, November 2008, Florence, Italy
 - Scientific Committee of 14th, 15th and 16th ICNCT (2010 Argentina, 2012 Japan and 2014 Finland, respectively).
 - Scientific Committee of 7th Young researcher BNCT meeting, 2013, Granada, Spain.
 - President of Organizing Committee of 8th YBNCT, September 2015, Pavia, Italy
- Memberships**
- Secretary General of International Society for Neutron Capture Therapy (ISNCT)
 - Member of Executive Board of International Society for Neutron Capture Therapy (ISNCT) (2012-2016)
 - Member of Executive Board of Italian Society of Research in Radiation (SIRR)
 - Councillor of ISNCT (2010-2016)
- Funded Projects**
- Participant in Project Italy-China – Executive Program of Scientific and Technological Collaboration 2016-2018: NEU BEAT (NEUtron BEAms for cancer Treatment)
 - 2014-2016: participant in Project PIP, CONICET, Argentina.
 - 2014-2016: participant in Project PICT "Terapia por Captura Neutrónica en Boro (BNCT) para un tratamiento novel de metástasis múltiples en pulmón: estudio de BNCT ex-situ en oveja y estudio de BNCT in-situ en rata", CONICET, Argentina.
 - 2011-2013 : P.I. of project funded in the call FIRB-Futuro in Ricerca 2008 "La terapia per cattura neutronica: una nuova prospettiva per il trattamento dell'osteosarcoma"
 - 2013-2015 : local responsible of the INFN experiments NeTTuNO and NeuTargs
 - 2013-2015: participant in INFN "progetto premiale" MUNES "Multidisciplinary Neutron Source"
 - 2012-2014 : local responsible of a project funded by Italian Ministry of Health in the scheme "ricerca finalizzata 2010". BORON NEUTRON CAPTURE THERAPY (BNCT) IN CUTANEOUS RECURRENCES OF BREAST CANCER: THE DIAGNOSTIC AND THERAPEUTIC UTILITY OF 18F-FBPA PET/CT
 - 2011-2012: participant in CARIPLO project "Characterization of boron carrying magnetic nanoparticles for MRI assisted BNCT (Boron Neutron Capture Therapy)"
 - 2011-2012: participant in INFN experiment MIMO-BRAGG
 - 2011-2013: participant in INFN experiment ARCO
 - 2009-2012: participant in INFN experiment Widest1
 - 2007-2008 participant in INFN experiment Widest
 - 2007-2008: participant in PRIN 2006 "Trattamento metastasi polmonari mediante cattura neutronica: studi preliminari"
 - 2007-2008: participant in INFN experiment ELBA
 - 2005-2006 : participant in PRIN 2004 "Misura di assorbimento del boro in tessuto polmonare di ratto affetto da tumore"
 - 2006-2010 : participant in an International FIRB project 2004 "Studi proteomici e farmacocinetici in relazione alla terapia antitumorale BNCT
 - 2004-2006: participant in INFN experiment TAORMINA3

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CURRICULUM VITAE DI MARCO PAVAN

Data di nascita: 4 novembre 1956

Luogo di nascita: Genova

Email: pavan@infn.it

STUDI E FORMAZIONE

Diploma di Ragioniere – Perito Commerciale conseguito nel 1976 presso l'Istituto "Vittorio Emanuele II" di Genova con la votazione di 39/60.

ATTIVITA' LAVORATIVE

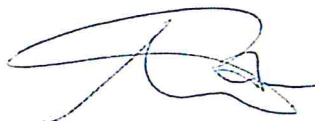
Dipendente a tempo indeterminato dell'Istituto Nazionale di Fisica Nucleare della Sezione di Genova dal 1.3.1979 con la qualifica di Funzionario di Amministrazione IV livello seconda fascia ho svolto fino al 31 maggio 2003, nell'ambito del Servizio di Amministrazione, le seguenti mansioni:

ordinativi di acquisto, missioni, cassa, inventario.

Dal 1° giugno 2003 sono stato nominato Responsabile Amministrativo della Sezione di Genova, carica che ricopro tutt'oggi, con anche la responsabilità della gestione del personale.

Durante questi anni ho frequentato diversi corsi di formazione sia interni che esterni riguardanti praticamente tutti i settori del Servizio.

Autorizzo il trattamento dei dati personali ai sensi del Decreto Legislativo 30 giugno 2003 n. 196.



- 2 NOV. 2017

INFORMAZIONI PERSONALI

Tiziano Ferro



📍 Roma, Italia
☎ +390694032237
✉ tiziano.ferro@Inf.infn.it

Maschio | 13/01/1962 | Italiana

ESPERIENZA
PROFESSIONALE

Dal 01 Febbraio 2015

INFN – Laboratori Nazionali di Frascati
Responsabile del Servizio di Amministrazione

Via E. Fermi 40, 00044 FRASCATI (ROMA)

Incarico di Responsabile Amministrativo ed organizzazione delle attività amministrative dei Laboratori e del Gruppo Collegato di Cosenza
Gestione di un bilancio di circa € 25.000.000
Responsabile di un team di 15 persone, distribuite in 6 Uffici ed interazioni con circa 500 persone tra dipendenti e personale associato

Dal 01 Settembre 2013 al 31 Gennaio 2015

INFN – SEZIONE DI BOLOGNA e CNAF
Responsabile del Servizio di Amministrazione delle due Strutture INFN

Viale C. B. Pichat 6/2. 40127 BOLOGNA

Incarico di Responsabile Amministrativo ed organizzazione delle attività amministrative della Sezione di Bologna e del CNAF
Gestione di un bilancio di circa € 9.000.000
Responsabile di un team 8 persone ed interazioni con circa 350 persone tra dipendenti e personale associato

Dal 01 Giugno 1995 al 31 Agosto 2013

INFN – SEZIONE DI BOLOGNA
Responsabile del Servizio di Amministrazione della Sezione di Bologna

Viale C. B. Pichat 6/2. 40127 BOLOGNA

Incarico di Responsabile Amministrativo ed organizzazione delle attività amministrative della Sezione di Bologna
Gestione di un bilancio di circa € 5.000.000
Responsabile di un team 6 persone ed interazioni con circa 300 persone tra dipendenti e personale associato

Riorganizzazione del lavoro all'interno del Servizio di Amministrazione, con l'inserimento della rotazione del lavoro tra il personale del Servizio, garantendo così la continuità delle

attività, in periodi di ferie o di assenze.

Dal 15 giugno 1999 al 31 agosto 2005 Rappresentate Nazionale del Personale Tecnologo, Tecnico ed Amministrativo nel Consiglio Direttivo dell'INFN

Attività nel Consiglio di Amministrazione dell'INFN

Dal 2003 al 2004

Ho collaborato, su richiesta del Prof. Antonino Zichichi, Presidente del Museo Storico della Fisica e Centro Studi e Ricerche "Enrico Fermi" ed autorizzato dal Presidente dell'INFN, Prof. Enzo Iarocci, per la riorganizzazione, lo sviluppo e la gestione amministrativa del Centro Fermi

Dal 1993

Inquadrato nel Profilo di Collaboratore di Amministrazione V livello

Dal 26 aprile 1993

Assunto nell'INFN presso l'Amministrazione Centrale nella Direzione Affari Generali ed Ordinamento – Servizio Affari Assicurativi e Sociali

ISTRUZIONE E FORMAZIONE

1980

Diploma di Maturità Scientifica presso l'Istituto Gian Battista Vico – Roma

21 aprile 2006

Conseguito il Patentino Europeo Informatico ECDL

COMPETENZE PERSONALI

Lingua madre

Italiano

Altre lingue

Buona conoscenza della lingua inglese

Competenze comunicative

possiedo ottime competenze comunicative acquisite durante la mia esperienza di Responsabile dei Servizi di Amministrazione e di Rappresentante Nazionale del Personale TTA

Competenze organizzative e gestionali

Leadership: attualmente responsabile di un team di 15 persone, distribuite in 6 Uffici ed interazioni con circa 500 persone tra dipendenti e personale associato. Ho riorganizzato i flussi di lavoro tra i vari uffici e informatizzato molte procedure, cercando di ridurre al minimo l'utilizzo di carta e stampe, semplificato l'iter di procedure di acquisto e missioni, razionalizzando l'organizzazione.
Gestione di fondi Istituzionali e fondi esterni (UE, MIUR, MAE, PRIN etc) e Financial Officer di tutti i fondi gestiti nei Laboratori Nazionali di Frascati e del Gruppo Collegato