EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Page 1 - Curriculum vitae of MOSTACCI, Andrea

PROF. ANDREA MOSTACCI Name Physics and Technology of Particle Accelerators, Application of THz radiation, Applied Electromagnetics, Microwave Measurement, RF design 416, source scholar.google.com 4640, source scopus.com **GENERAL RESEARCH INTERESTS** 265, source scopus.com 35, source scopus.com **BIBLIOMETRIC SUMMARY DATA** Total international publications Total citations · Total cited paper Sapienza, University of Rome • H-index Beam physics, Particle Accelerator technology, Microwave Measurements **EDUCATION AND TRAINING** PhD in Applied Electromagnetism and Electro-Physical Science • Dates (1997-2001) Name and type of organization Sapienza, University of Rome providing education and training Principal subjects/occupational Modern Electronic Engineering, Applied Electromagnetics skills covered • Title of qualification awarded Master Degree in Electronic Engineering • Dates (1991-1997) · Name and type of organization providing education and training · Principal subjects/occupational Sapienza, University of Rome (Italy) skills covered 02/A1 - Fis01 · Title of qualification awarded Associate Professor Design of RF devices, Medical accelerators, Plasma based accelerators **PRINCIPAL POSITIONS** • Dates (2018 - today) • Name and address of employer • Type of business or sector • Occupation or position held Main activities and responsibilities

Dates (2006 – 2018)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

Dates (2002 – 2006)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

Dates (2001 – 2002)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

Dates (1999 – 2001)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

Dates (1997 – 1998)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

ADDITIONAL POSITIONS

Dates (2021 – today)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

Dates (2016 – today)
Name and address of employer
Type of business or sector
Occupation or position held

· Main activities and responsibilities

Dates (2011 – today)
Name and address of employer
Type of business or sector
Occupation or position held
Main activities and responsibilities

Dates (2008 – today)
 Name and address of employer

 Type of business or sector
 Occupation or position held

 Main activities and responsibilities

 Page 2 - Curriculum vitae of MOSTACCI, Andrea

Sapienza, University of Rome (Italy) 02/A1 – Fis01 Assistant Professor THz radiation Sources, Physics of High brightness beam, Beam commissioning

Sapienza, University of Rome (Italy) 02/A1 – Fis01 Researcher Medical applications, Hadroterapy, Post-acceleration of Plasma generated protons

CERN, European Organization for Nuclear Research (Genève, Switzerland)

Research Fellowship Microwave measurements

CERN, European Organization for Nuclear Research (Genève, Switzerland)

Doctoral Student Beam wall interaction in the LHC liner

CERN, European Organization for Nuclear Research (Genève, Switzerland)

Technical Student Beam coupling impedance of LHC beam screen pumping slots

Sapienza, University of Rome (Italy)

Member of the Professor Board of Mechanical Engineering Professor of General Physics

Sapienza, University of Rome (Italy)

Member of the Professor Board of PhD Course in Engineering and Applied Science for Energy and Industry

Sapienza, University of Rome (Italy)

Member of the Professor Board of Electronic Engineering Professor of Microwave measurement laboratory and Accelerator Physics

INFN, Istituto Nazionale di Fisica Nucleare

Research appointment renewed yearly on particle accelerators activities R&D of novel particle accelerators, THz radiation sources and manipulation

 Dates (2016 – 2021) Name and address of employer Type of business or sector Occupation or position held Main activities and responsibilities 	Sapienza, University of Rome (Italy) Member of the Professor Board of Electrical Engineering Professor of General Physics
VISITING POSITIONS	
 Dates (2019 – today) Name and address of employer Type of business or sector Occupation or position held Main activities and responsibilities 	CERN, European Organization for Nuclear Research (Genève, Switzerland) Cooperation Associate (COAS) Coupling impedance measurements, Accelerator devices optimization
 Dates (2002 – 2014) Name and address of employer Type of business or sector Occupation or position held 	Various, non-continuative appointments of about 1 month of duration CERN, European Organization for Nuclear Research (Genève, Switzerland) Visiting Scientist
Main activities and responsibilities	Coupling Impedance measurements on LHC device
TEACHING	
• Current	General Physics II (Electromagnetics) for BD in Mechanical Engineering (2021 – today) Multidisciplinary Laboratory of Electronics – RF measurement module for MD in Electronic Engineering (2014 - today) Accelerator Physics and Relativistic Electrodynamics for MD in Electronic Engineering (2017 – today) Course on RF Engineering at the "Science and technology of Particle accelerators" at the Joint Universities Accelerator School (JUAS) of the European Scientific Institute (2017-today)
• Past	General Physics I (Mechanics and thermodynamics) and General Physics II (Electromagnetics) for BD in Transportation Engineering (2002) General Physics II (Electromagnetics) for BD in Environmental Engineering (2003) Laboratory of Experimental physics for BD of Aerospace Engineering (2004 – 2009) High Frequency measurement laboratory for MD in Electronic Engineering (2011 - 2013)
GRANTS & PROJECTS	
 Dates (2022 – today) Name of the project Description Total grant 	INFN – Fifth National Research Committee FLASH radiotherapy with high dose rate particle beams Responsible of Work-package 120k€
• Dates (2019 – today) • Name of the project • Description • Total grant	INFN – Fifth National Research Committee Free electron laser (FEL) radiation from plasma accelerated (PWFA) electron beams Responsible of Unit 40k€
• Dates (2018) • Name of the project • Description • Total grant	Sapienza, Research Project Beam energy measurement in advanced linear particle accelerators for electrons PI 13k€
• Dates (2017) • Name of the project	Sapienza, Research Project Advanced beam position monitors for the Compton Gamma Source of the Extreme Light Infrastructure
Page 3 - Curriculum vitae of MOSTACCI, Andrea	

Description Total grant	PI 38k€
 Dates (2014 – 2016) Name of the project Description Total grant 	INFN – Fifth National Research Committee Plasma based acceleration at SPARC-LAB Responsible of Unit 40k€
 Dates (2013 – 2016) Name of the project Description Total grant 	INFN – Fifth National Research Committee European FEL Design Study (EuroFEL project) Responsible of Unit 300k€
 Dates (2012 – 2015) Name of the project Description Total grant 	RBFR12NK5K_002 - FIRB-Futuro in Ricerca 2012 Generation of high brightness electron beams from plasma-based accelerators Responsible of Unit 180k€
SELECTED PUBLICATIONS AND RESEARCH REPORTS	
(out of more than 260 journal publications)	 R. Pompili et al., "Energy spread minimization in a beam-driven plasma wakefield accelerator", Nature Physics 2021 DOI: 10.1038/s41567-020-01116-9 D.B. Durham, et al., "Plasmonic lenses for tunable ultrafast electron emitters at the nanoscale", Physical Review Applied 2019 DOI: 10.1103/PhysRevApplied.12.054057 V. Shpakov, et al., "Longitudinal phase-space manipulation with beam-driven plasma wakefields. Physical Review Letters 2019 DOI: 10.1103/PhysRevLett.122.114801 R. Pompili, et al., "Ecusing of high-brightness electron beams with active-plasma lenses" Physical Review Letters 2018. DOI: 10.1103/PhysRevLett.122.174801 N. Biancacci, et al., "Impedance simulations and measurements on the LHC collimators with embedded beam position monitors". Physical Review. Accelerators and Beams 2017 DOI: 10.1103/PhysRevLett.121.174801 R. Giorgianni et al., "Strong nonlinear terahertz response induced by Dirac surface states in Bi2Se3 topological insulator", Nature Communications 2016 DOI:10.1103/PhysRevLett.115.014801 A. Petralia, et al. "Two-Color Radiation Generated in a Seeded Free-Electron Laser with Two Electron Beams" Physical Review Letters 2015. DOI: 10.1103/PhysRevLett.115.014801 M. Ferrario et al., "Experimental demonstration of emittance compensation with velocity bunching", Physical Review Letters 2010 DOI: 10.1103/PhysRevLett.104.054801 A. Mostacci, et al, "Beam emittance evolution measurements in a rf photoinjector", Physical Review Special Topics. Accelerators and Beams 2008 DOI: 10.1063/1.2835715 A. Mostacci, et al, "Analysis methodology of movable emittance-meter measurements for low energy electron beams", Review of Scientific Instruments 2008, DOI: 10.1103/PhysRevLat.8.84402 DISPOSITIVO PER IL TRATTAMENTO RADIOTERAPICO DI MALATI ONCOLOGICI, Italian patent for an electron linear accelerator for ultra-high dose rate cancer treatment based on Flash Radiation Therapy, 2

PERSONAL SKILLS

AND COMPETENCES Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

ITALIAN

ENGLISH

excellent

excellent

excellent

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

French basic

basic

basic

- Reading skills
- Writing skills
- Verbal skills

ORGANIZATIONAL SKILLS

AND COMPETENCES Coordination and administration of people, projects and budgets; at work, in voluntary work.

ADDITIONAL INFORMATION

Coordination of the activity in the Accelerator Laboratory at the SBAI Department of Sapienza University of Rome (2002-today)

Coordination of Work Package on "Membership extension strategies" (WP6) of the project "Compact European Plasma Accelerator with superior beam quality – Preparatory Phase" (EUPRAXIA-PP); Horizon Europe Grant Agreement N. 101079773. Member of the Collaboration Board and Sapienza representative. (2022-today)

Steering Committee of the project "Compact European Plasma Accelerator with superior beam quality – Doctoral Network" (EUPRAXIA-DN); Horizon Europe Grant Agreement N. 101073480. Member of the Collaboration Board and Sapienza representative (2022-today)

Coordination of Work Package on "Accelerator prototyping and experiments at Test facilities" (WP12) of the project "Compact European Plasma Accelerator with superior beam quality" (EUPRAXIA); Horizon 2020 grant agreement No 653782. Member of the Collaboration Board and Sapienza representative. (2015-2020).

Coordination of diagnostics group for the linear accelerator of the Compton Gamma Source being built in the Extreme Light Infrastructure for Nuclear Physics (ELI-NP), Magruele (Romania) (2015-2018)

Coordination of the Work Package "Accelerators: Novel compact particle sources" (WP6) of the project "Cluster of Research Infrastructures for Synergies in Physics" (CRISP) in the framework of FP7- INFRASTRUCTURES-2011-1 (2012-2014)

Coordination of the data analysis of all the experiments executed on the SPARC photo injector at the LNF-INFN (2006-2013)

References

Prof. Luigi Palumbo, Prof. Mauro Migliorati, Sapienza, University of Rome Fritz Caspers, I. Papaphilipou, CERN, Geneve

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.

Rome, 13.09.2023 Andrea Mostacci Signature

Research Activity highlights

Keywords	Brief Description
Circular accelerators, Coupling impedance,	The electromagnetic interaction between the beam in a particle accelerator and its surrounding (beam pipe) in a circular accelerator is studied with the coupling impedance. Such interaction can lead to energy losses (longitudinal impedance) or transverse instability (transverse impedance). Applying Electromagnetic theory, A. Mostacci studied several potential impedance sources relevant for modern particle accelerators.
LHC liner	The beam pipe foreseen for the Large Hadron Collider (LHC) is rather unconventional. To shield the magnets cold bore from the synchrotron radiation emitted by 7 TeV protons, a beam screen (the so called "liner") has been introduced practically along all the machine. The design of the liner is a compromise among the beam stability issues, the vacuum requirements, the heat load on the cold bore, the electron cloud effects and the realization constraints.
	Three main potential sources of beam energy losses in the actual LHC liner are important, namely the interaction with the pumping holes, the (saw tooth) surface corrugation and the effect of an azimuthally inhomogeneous metallic beam pipe.
LHC liner Pumping holes	The pumping slots in the beam screen couple the inside of the beam pipe with the external coaxial region, leading to RF power flow with possibly power dissipation on the cold bore. Interference effects between the slots have been studied in details and analytical estimates for the power dissipated in the cold bore as a function of the slot dimensions (hole width and wall thickness) has been given. For the actual slots dimensions, the losses were still within the safe limits. Such studies are being revisited in the context the the Future Circular Collider (FCC) studies where the availability of analytical formulae can simplify the design phase.
LHC liner Surface roughness	The artificial roughness (saw tooth corrugation) of the surface foreseen in the final design of the LHC beam pipe allows the propagation of surface waves synchronous with the beam and thus potentially dangerous for its stability. Using a field matching technique and assuming a periodically rough surface, the frequency of such waves is found to be very high (out of the relevant bunch spectrum): it scales with the inverse of the square root of the depth of the corrugation, that is in the range of microns. The potential dangers have been investigated for the nominal LHC bunch intensity.
LHC liner azimuthally inhomogeneous metallic beam pipe	Based on the Green's function approach, the field excited by a beam traveling in a pipe whose resistivity varies with the azimuth (but is constant in the z-axis direction) can be found (semi)analytically for an ultra-relativistic beam by using some approximated boundary conditions (for conductors).
	Even at relatively low frequencies (in the MHz range) it was found that the image currents do not avoid the low conductivity region (as you would expect in the limit of static solutions), thus implying potentially high power losses due to the longitudinal welding in the LHC beam screen. Infact, the inner part of the beam screen is covered with a layer of copper (very good conductor) but the weldings have approximately the resistivity of stainless steel (bad conductor) which gives a big contribution to the losses.
	Numerical studies using the conventional electromagnetic CAD code confirmed such a conclusion. A prototype has been designed and built to experimentally verify the azimuthal distribution of the image currents, through very accurate Q-factor measurements in a coaxial resonator. The measured data confirmed the theoretical predictions.
Impedance studies	The theoretical environment built to study the LHC liner impedance issues has been subsequently applied to similar problem to give estimations of the impedance contribution in more complicated devices in order to explain unexpected phenomena (e.g. heat load) suffered by the beam, particularly relevant in cryogenic machines.
RF devices, bead	In the "Accelerators" laboratory at the SBAI department, A. Mostacci designed, built
pull measurement, Page 6 - Curr	and maintained a test bench to measure electromagnetic field inside closed RF

	structures (so called "bead-pull" method). Several devices installed in SPARC, the high brightness LINear Accelerator (linac) of Laboratori Nazionali di Frascati (LNF), have been tested in the laboratory. Those measurements were calibrated to measure not only the field shape, but also the accelerating efficiency of the structure. Typical RF devices measured are deflector, electron gun and accelerating sections in the 3 to 12 GHz frequency range. The tuning procedure for 6GHz accelerating structures built at LNF have been defined and applied for the first time in the previously discussed test bench.
	The laboratory is equipped also with codes for electromagnetic CAD used both for designing novel devices and for validating measurements on prototypes. A. Mostacci studied also on the bead-pull measurement theory for non-conventional RF structures.
Coupling impedance, bench measurements, coaxial wire method	Bench measurements nowadays represent an important tool to estimate the coupling impedance of any particle accelerator device. The well-known technique based on the coaxial wire method allows to excite in the device under test a field like the one generated by an ultra-relativistic point charge.
	The field of a relativistic point charge in the free space (or in a perfectly conducting beam pipe) is a Transverse Electric Magnetic (TEM) wave, namely it has only components transverse to the propagation direction. The amplitude scales inversely with the distance from the propagation axis and phase velocity is equal to the speed of light. The fundamental mode of a coaxial wave guide is a TEM wave as well, with the same amplitude dependence and the same propagation constant. Therefore, the excitation due to a relativistic beam in a given Device Under Test (DUT) can be "simulated" by exciting a TEM field by means of a conductor placed along the axis of the structure.
	With the coaxial wire method, A. Mostacci measured the coupling impedance of many particle accelerator devices of interest of CERN machines such as LHC and its injectors. A. Mostacci also performed beam experiments at CERN to compare bench measurement with direct beam measurement on the same devices. The coaxial line approach has also been used to bench measured the effect of coating in the secondary emission yield, relevant for LHC electron cloud issues.
	More recently the new generation of LHC collimators has been bench measured in order to estimate the coupling impedance and look for possible trapped modes in the moving jaws.
SPARC, machine measurements	Since 2006, A. Mostacci joined SPARC commissioning and operation. SPARC is a high brightness linear accelerator initially conceived to drive proof-of-principle experiments in the generation of radiation with Free Electron Laser (FEL). Nowadays the SPARC accelerator has been upgraded to SPARC_LAB with the installation of multi TW class lasers, allowing world-class, ground breaking experiments in accelerator and plasma physics as well as interdisciplinary research.
	Following the time line of the SPARC_LAB upgrades, the activity can be roughly divided in research on physics of high brightness electron beams, on FEL innovative schemes, on the generation of THz radiation, on novel plasma-based particle acceleration techniques and on Compton effect based radiation sources.
Physics of high brightness beam	Concerning the physics of high brightness electron beam, SPARC measured for the first time the emittance oscillation of beams generated by RF photocathodes, assessing the working point used world-wide in all the FELs based on RF guns. Such result has been possible due to a carefully conducted experiments and data analysis. In order to longitudinally compress the electron beam (to increase the bunch current), SPARC introduced and demonstrated the low energy compression (namely "velocity bunching") properly tuning low energy focusing solenoids, for the first time used there. Such velocity bunched beam exhibit non-negligible energy spread that must be considered in beam measurements or exploited in to produce radiation with non-conventional FEL configurations. SPARC high brightness beams are also used to propose and demonstrate novel concepts in beam diagnostics or medical applications in electron-based radiotherapy.

Free Electron Laser	SPARC contributed to develop and test innovative ideas on Free Electron Laser schemes which have been afterword applied in bigger FEL facilities; such results have possible also to extensive benchmarking of code against experiments and innovative diagnostics. For instance, SPARC introduced the undulator tapering to compensate energy spread or demonstrated the generation of a super radiant pulse in the long radiator of a single stage cascaded FEL, by seeding the modulator with an external laser. Seeded FELs can operate either in the amplifier "direct seeding" scheme, or in the high gain harmonic generation configuration, where the seed in a first undulator (modulator) is used to induce an energy-density modulation in the electron beam longitudinal phase space. This bunched beam then emits a higher order harmonic in a following undulator (radiator). This scheme can be repeated in a multiple stage cascade of modulators and radiators, extending the operation wavelength toward a range where seed sources are not available. The versatility of the SPARC linac allowed also to send a train of bunches in the FEL undulator, resulting in a two colour FEL radiation time modulated FEL radiation and seeded two colours radiation. Also, this scheme was pioneered at SPARC and it is now used in several other laboratories for pump-probe FEL experiments.
THz radiation	The generation of THz radiation at SPARC relies on the usage of sub-ps high brightness electron bunches when a broadband radiation is needed, while longitudinally modulated electron beams allow for tunable narrow-band radiation. The generation is quite efficient since the velocity bunching imposes a longitudinal phase space distortion, leading to asymmetric current profiles with sharp rising charge distribution at the bunch head; therefore, high frequency (THz) radiation can be emitted if the bunch goes across a radiator (coherent transition radiation). The resulting THz radiation is more intense than other sources and it has been used for advanced material studies.
Laser-plasma accelerators, CRISP project, FIRB project, Eupraxia project	Plasma-based accelerators represent the new frontier for the acceleration of high quality, i.e. high brightness, electron beams because of their capability to sustain extremely large accelerating gradients. In conventional Radio-Frequency (RF) linear accelerators, accelerating gradients are currently limited to ~100 MV/m, mainly due to breakdown occurring on the metallic walls of the devices. Ionized plasmas, however, can sustain electron plasma waves with electric fields three orders of magnitude higher than those achievable with actual RF technologies. Moreover, the accelerating field strength is tunable by adjusting the plasma density.
	Even though the principle of plasma-based acceleration has been proven by several groups, the so accelerated beams still suffer from large angular divergence, large energy spread, poor reproducibility, which prevent their use as an alternative to conventional RF accelerators which typically provide stable and high quality electron beams.
	A possible solution is to use innovative transport lines based on conventional technology, such quadrupole or solenoid based transport lines arranged in a clever way. Another approach towards plasma-accelerated high-brightness electron beams relies on the use of the plasma only as the active media, injecting electrons into a pre-formed plasma channel. A first scheme consists in injecting a witness electron bunch in a plasma where the plasma wave is excited by a high-power laser pulse, i.e. external injection in a Laser Wake Field Accelerator (LWFA). The second scheme relies on the induction of coherent plasma oscillations with multiple electron bunches, that is a resonant Plasma Wake Field Accelerator (PWFA). Such idea relies on using a comb beam, i.e. a train of equidistant bunches, to increase the accelerating gradient.
	A scheme to produce comb-like beams was conceived at Laboratori Nazionali di Frascati and successfully tested at SPARC for the first time. The additional benefit of resonant PWFA relies on the use of lower charge bunches in the train with respect to traditional PWFA, with the advantage of a better control of acceleration and transport.
	The proof of principle experiments of resonant wake field acceleration triggered improvements in the plasma generation schemes, in active plasma lens for symmetric beam focusing, in the SPARC synchronisation, in standard bunch measurement as

	well as in non-intercepting beam diagnostics; also, the betatron radiation emitted by electron moving in the plamsa channel can be used. Efforts are ongoing also in measurement the plasma channel properties with spectroscopic and opto-acoustic methods.
	Moreover, to support the plasma source commissioning, simplified (but accurate) models are necessary to properly choose the machine working point. Those models, before being used, must be assessed against accurate Particle In Cell simulation.
Compton Sources ELI-NP	High brightness linacs are used also in Gamma ray source based on Compton back scattering between electron and counter-propagating laser pulses. A possible design has been proposed investigating the bam dynamics as well as the issues due to the necessity of multi-bunch operation to increase the luminosity. A single bunch, proof of principle experiment has been done at SPARC_LAB.
	Even if in a smaller sized design, the Gamma Beam Source is being built in Romania under the ELI-NP project supported by EU. One of the most relevant issues is the need of multi-bunch, high charge beams affecting the design and the operation of accelerating structures and diagnostics.
Medical applications FLASH electron accelerators	Radiation Therapy is currently the most utilized technique for the treatment of tumours by means of high-energy beams, either particles (such as electrons, protons and neutrons) or X/gamma rays, depending on the type, size and depth of the cancer mass. Radiation therapy has in general fulfilled the main requirement of targeting thus damaging the malignant cells and sparing the healthy tissues as best as possible. Recently, it has been experimentally demonstrated that ultra-high dose bursts of electrons and X-ray beams augment the differential response between healthy and tumour tissues. This beneficial response is referred to as the FLASH effect.
	A compact S-band linear accelerator (named ElectronFlash) for FLASH radiotherapy has been conceived, design and realised in collaboration with S.I.T. ElectronFlash is fabricated and tuned by following low-cost procedures appropriate for industries and it is mounted on a remote-controlled and light-weight robot system that is perfectly suitable for even small operating rooms. The work done includes RF and beam dynamics design of ElectronFlash as well as the commissioning and high-power RF tests. The results of the dosimetry measurements for the specific application of intraoperative electron radio-therapy (IOeRT) are extremely encouraging. ElectronFlash has been specifically designed dedicated to ultra-high dose rate experiments in order to consolidate the promising radiobiological results given by the FLASH effect; ElectronFlash is now installed in Institut Curie (in Paris).
	Currently, A. Mostacci and his team are facing the next step in this research, i.e. the design of high-gradient RF cavities (e.g. C-band) to provide very High Energy Electrons (VHEE) suitable for FLASH radiotherapy.
Medical applications Hadroterapy, post- acceleration	Hadroterapy protons are typically produced with Radio Frequency quadrupoles and then delivered to the patient with circular accelerators (even if recently hospital proton linacs are under construction). Few tens of MeV protons can also be produced with high energy laser pulse hitting a target; such scheme has interesting feature in terms of beam properties, versatility and compactness. In order to improve the beam properties up to medical requirements proposed a post acceleration scheme based on modified hospital proton linac cavities.
Montecarlo, FLUKA	A. Mostacci has been involved in the design of particle detectors for biomedicine, joining the research on Treatment Planning Systems (TPS) for tumour hadroterapy with carbon ions using Monte Carlo techniques (FLUKA code); he was involved in the FLUKA collaboration on the optics module in order to calibrate the simulations against measurements on Compton chamber for Single Photon Emission Computed Tomography.

FORMATO EUROPEO PER IL CURRICULUM VITAE



INFORMAZIONI PERSONALI

Nome

Indirizzo Residenza

Telefono

E-mail

Nazionalità ITALIANA

ALESSIA CAPITANI

Data di nascita

ESPERIENZA LAVORATIVA

 Aprile 2008 ad oggi
 Nome e indirizzo del datore di lavoro
 Tipo di azienda o settore
 Tipo di impiego

· Principali mansioni e responsabilità

• Altri incarichi

Dipendente a tempo indeterminato Istituto Nazionale di Fisica Nucleare - Servizio di Presidenza

Ente Pubblico di Ricerca Collaboratore di Amministrazione – V Liv.

Segreteria Particolare del Presidente Assistenza ai Componenti della Giunta Esecutiva nelle attività connesse alle loro funzioni Organizzazione eventi e meeting promossi dalla Presidenza Gestione commissioni esaminatrici bandi concorso e procedure selettive Gestione contatti esterni con istituzioni nazionali e internazionali Supporto di segreteria a riunioni di comitati nazionali e internazionali Segreteria commissioni di concorso per la selezione di personale da assumere presso la Presidenza

Referente per la formazione del Personale del Servizio di Presidenza e Ufficio Comunicazione

Referente delle Strutture INFN presenti nella Regione Lazio per il Progetto INPS Valore PA

Componente Gruppo di Lavoro per la valutazione dell'attività formativa INFN (Valutazione corsi nazionali e redazione Report annuale - Valutazione corsi locali come previsto dal Piano della Performance INFN 2020-2022)

Componente Gruppo di Lavoro con il compito di individuare percorsi e metodologie per dotare l'Ente di regole uniformi in materia di Cerimoniale (Disposizione Presidenziale n. 19774 del 12 marzo 2018)

Pagina 1 - Curriculum vitae di [CAPITANI Alessia] Per ulteriori informazioni: www.cedefop.eu.int/transparency www.europa.eu.int/comm/education/index_it.html www.eurescv-search.com

ISTRUZIONE E FORMAZIONE

Giugno 1992 Nome e tipo di istituto di istruzione	Diploma di Maturità Classica Liceo Ginnasio Statale Dante Alighieri di Roma
5-6 Marzo 2019	Corso di formazione per Assistenti di Direzione -CEGOS
26 marzo -13 giugno 2018	Corso perfezionamento "Team building, creatività e risoluzione dei problemi -l livello" -LUISS Business School
Maggio 20 <mark>17</mark> – Febbraio 2018	Corso di Lingua Inglese – Livello Livello B2.2 - The British Institute of Rome conseguito con valutazione: ottimo
Marzo 2017	Master in Cerimoniale delle Pubbliche Amministrazioni, delle Aziende e degli Eventi-CEIDA- conseguito con profitto
Settembre-Dicembre 2014	Corso "La valutazione della Formazione" - 18 ore - Scuola Nazionale dell'Amministrazione- conseguito con elaborazione di Project Work
CAPACITÀ E COMPETENZE PERSONALI	
MADRELINGUA	ITALIANO
ALTRE LINGUA	
 Capacità di lettura Capacità di scrittura Capacità di espressione orale 	INGLESE BUONO BUONO
CAPACITÀ E COMPETENZE RELAZIONALI	Disponibilità ai rapporti interpersonali, naturale propensione atla collaborazione in occasione di lavori di gruppo, buona capacità di negoziazione
CAPACITÀ E COMPETENZE ORGANIZZATIVE	Buona capacità di organizzazione e gestione di gruppi di lavoro, orientamento ai risultati, spirito di iniziativa, capacità di sintesi nella stesura di rapporti e relazioni, analisi e interpretazione di elementi utili alla identificazione di soluzioni efficaci, capacità di innovazione tecnologica e funzionale, competenze tecnico-professionali sviluppate nell'ambito dell'attività lavorativa svolta.
CAPACITÀ E COMPETENZE TECNICHE Con computer, attrezzature specifiche, macchinari, ecc.	Buona padronanza nell'utilizzo dei principali strumenti Microsoft Office, Joomla e Indico (creazione e gestione siti web)
Pagina 2 - Curriculum vitae di [CAPITANI Alessia]	Per ulteriori informazioni: www.cedefop.eu.int/transparency www.europa.eu.int/comm/education/index_it.html www.eurescv-search.com



ESPERIENZA PROFESSIONALE

Dal 27 maggio 2019 lavoro presso l'Ufficio Coordinamento della Formazione dell'AC a seguito dell'esito positivo della partecipazione alla procedura di mobilità interna n.2019/01 del 12/02/2019

Dal 27/05/2019 Collaboratore di Amministrazione VI livello presso l'Ufficio Formazione e Benessere Organizzativo - Direzione Risorse Umane

INFN Amministrazione Centrale, Frascati

- cura degli adempimenti connessi all'attività della Commissione Nazionale per la Formazione in stretta collaborazione con i Referenti Locali per la Formazione (RLF) nominati dal Direttore presso ciascuna Struttura

- cura di tutte le fasi del processo formativo, dalla formulazione delle proposte alla stesura dei piani formativi e alla realizzazione dei diversi eventi formativi e connesse operatività

- costante aggiornamento continuo dei dati relativi ai corsi di formazione che vengono svolti
- cura della realizzazione delle schede di valutazione online tramite software nazionale

- collaborazione nel monitoraggio della gestione del fondo centrale della Formazione e nella distribuzione dei fondi sui capitoli locali della formazione per la realizzazione dei piani formativi approvati

- raccolta e archiviazione dei materiali dei corsi nazionali e invio ai referee delle aree di competenza per opportuna conoscenza e valutazione

02/03/2015-24/05/2019 Collaboratore di Amministrazione VII livello presso la Segreteria di Direzione dei LNF INFN Laboratori Nazionali di Frascati, Frascati

- organizzazione delle riunioni indette dal Direttore, tra le quali il Consiglio di Laboratorio e dei convegni afferenti la Direzione, tra i quali il Comitato Scientifico dei LNF

- stipula e monitoraggio delle convenzioni con gli Atenei nazionali e internazionali
- gestione delle richieste di tirocini curriculari in ambito universitario e cura dell'iter amministrativo

- incarico di collaborazione con l'Ufficio Rendicontazione Fondi Esterni dei LNF per la gestione del rendiconto "H2020 Grant Agreement MUSE" nel quadriennio 2016-2019

- accordi con Istituzioni nazionali e internazionali e rapporti istituzionali con il territorio
- cura degli aspetti amministrativi e organizzativi della squadra GEPS (Gestione Emergenza Primo Soccorso)
- rapporti e gestione delle riunioni del Direttore con le organizzazioni sindacali
- nomina a Componente dell'Ufficio del DEC per la mensa dei LNF (27/01/2016-24/05/2019)
- nomina di Vicario dei RDG e RPI e Protocollatore (incluso prot. riservato) dei LNF (22/12/2015 -24/05/2019)
- nomina a Componente effettivo della Squadra GEPS dei LNF (dal 1 dicembre 2015)

01/06/2011–30/09/2011

Collaboratore di Amministrazione di VII livello - contratto trimestrale INFN Sezione di Roma Tre, Roma

- supporto nella gestione dell'Ufficio di Segreteria di Direzione della Sezione e del protocollo informatico

- aggiornamento e coordinamento delle associazioni della Sezione

FORMAZIONE	
07/02/2013	Master di I livello in Management della Formazione nel Sistema Sanitario LUSPIO - Università degli Studi Internazionali di Roma 110/110 e lode
29/04/2006	Laurea in Scienze della Comunicazione indirizzo Istituzionale e d'Impresa Università degli Studi di Roma "La Sapienza", Roma 103/110
CORSI EFFETTUATI	
12 e 13/11/2015	Dematerializzazione e gestione documentale: il viaggio verso il cambiamento Argomento: la Dematerializzazione e la Gestione Documentale previsti dal Codice della PA digitale Durata: 2 giorni Test: no
14 e 15/04/2016	Gestione, Rendicontazione e audit dei progetti Horizon 2020 – corso avanzato. Esiti e analisi dei risultati di auditing della CE nell'ambito del VII Programma Quadro all'INFN Argomento: analisi delle regole finanziare di Horizon 2020 per una gestione efficace di progetti e processi Durata: 2 giorni Test: no
19-21/10/2016	Processi e metodi per migliorare l'organizzazione delle attività nei servizi di segreteria Come migliorare i risultati del lavoro d'ufficio (Scuola Superiore di Amministrazione Pubblica e degli Enti Locali - CEIDA) Argomento: fornire strumenti per migliorare l'organizzazione dell'ufficio e gestire con competenza la risorsa tempo Durata: 3 giorni Test: si
Dal 7/3 al 8/5/2020	Tecniche di comunicazione efficace, comunicazione sul web (Corsi INPS Progetto Valore PA presso Formel) Argomento: comunicazione pubblica efficace, web, social network, mass media e tecniche di Public Speaking Durata: 40 ore (5 giorni) Test: si
19 e 20/09/2018	Le relazioni sindacali e gli istituti del rapporto di lavoro nel nuovo CCNL. Gli incarichi extra istituzionali. La disciplina dell'accesso agli atti e ai dati dell'INFN Argomento: relazioni sindacali e rapport di lavoro nel nuovo CCNL, accesso agli atti e ai dati dell'INFN Durata: 2 giorni Test: si

Autorizzo al trattamento dei miei dati personali ai sensi del D. Lgs. 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".