

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname	SERIANNI Gianluigi
Indirizzo/Address	10/4, vicolo Carlo Goldoni, I-35020, Albignasego (PD), Italy (home)
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Nazionalità/Nationality	Italian
Luogo e data di nascita/ Place and Date of birth	Catanzaro, Italy; 16 September 1968
Affiliazione / Affiliation	Institute of Plasma Science and Technology of Consiglio Nazionale delle Ricerche; Consorzio RFX 4, Corso Stati Uniti, I-35127, Padova, Italy

ESPERIENZA PROFESSIONALE/ WORK EXPERIENCE

In ordine di data /Dates (from – to)	from: 01 / 1999 to: (ongoing)
Nome e indirizzo del datore di lavoro / Name and address of employer	Istituto Gas Ionizzati del Consiglio Nazionale delle Ricerche, corso Stati Uniti, 4, I-35127, Padova, Italy
Tipo o settore di attività / Type of business or sector	Research on thermonuclear fusion plasmas, particularly by reversed field pinch experiments. Design and realisation of high power neutral beam injectors for the ITER experiment.
Funzione o posto occupato / Occupation or position held	Researcher up to 17 November 2019; Senior Researcher from 18 November 2019
Principali mansioni e responsabilità / Main activities and responsibilities	study of the boundary region of a plasma in the Reversed Field Pinch configuration; development of electrostatic and magnetic sensors; investigation of partially ionised plasmas produced by magnetron sources; characterisation of magnetoplasmadynamic thrusters for primary space propulsion; design and realisation of the integrated system of sensors inside the vacuum vessel of the RFX experiment; in charge of the diagnostic system for the boundary region of the RFX experiment (up to Dec 2008); in charge of the technical personnel dedicated to measurement systems of the RFX experiment (from January 2002 to September 2009); coordination of the integrated design of diagnostics for the ITER first neutral beam injector (MITICA) and for the Ion Source Test Facility (SPIDER) under contract Contract EFDA/06-1499 (2006-'07); member of the Programme Advisory Committee of the ELISE experiment (IPP, Garching bei München, Germany), November 2012 – November 2014; design of a diagnostic calorimeter for SPIDER, the ion source test facility at 100keV of the ITER neutral beam injector (since 2008);

deputy responsible of the programme line dedicated to the physics of neutral beam injection at Consorzio RFX (from January 2009 to July 2017);
 deputy coordinator of the Physics activities devoted to the design of the neutral beam injectors for ITER and for ITER neutral beam test facility (from January 2009 to July 2017);
 project leader and deputy responsible of the programme line “Source Physics and Experiments” at the ITER Neutral Beam Test Facility with responsibility of the scientific programme of the SPIDER experiment (from 1 August 2017 to 31 December 2019);
 Deputy responsible of design, realisation, installation and operation of the NIO1 experiment, which is a negative ion source (from 2011 to 2019);
 Project Leader for the Scientific Exploitation at the ITER Neutral Beam Test Facility (since 10 January 2020).

In ordine di data /Dates (from – to)	from: 02 / 1997 to: 01 / 1999
Nome e indirizzo del datore di lavoro / Name and address of employer	Consorzio RFX, corso Stati Uniti, 4, I-35127, Padova, Italy
Tipo o settore di attività / Type of business or sector	Research on thermonuclear fusion plasmas, particularly by reversed field pinch experiments
Funzione o posto occupato / Occupation or position held	Researcher
Principali mansioni e responsabilità / Main activities and responsibilities	study of the boundary region of a plasma in the Reversed Field Pinch configuration; development of electrostatic and magnetic sensors; investigation of partially ionised plasmas produced by magnetron sources; in charge of the diagnostic system for the boundary region of the RFX experiment
Produzione scientifica / Scientific activity	<ul style="list-style-type: none"> - H-index: 39 (Google Scholar, 8 September 2020), 30 (ISI Web of Knowledge 8 September 2020), 32 (Scopus, 28 January 2020). - Co-author of 278 articles in international refereed journals and of 3 articles in national refereed journals; contribution to over 120 papers in proceedings of international conferences. - Participation in 60 international conferences and workshops and to 7 national conferences. - Invited presentations at international conferences and workshops: 7 - Patents: three (between 2006 and 2011)
Attività didattica / Teaching activity	<ul style="list-style-type: none"> - Tutor or co-tutor of 41 Bachelor theses (3 in progress); of 24 Master theses (2 in progress), of 5 PhD theses (2 in progress) at Padova University (department of Physics or faculty of Engineering) - Lessons on “Plasma Physics” (20 hours) and corresponding laboratory course (4 hours) in the course Industrial Plasma Technology for the Master degree in Electrical Engineering at Padova University: for 8 years in the period 2005-2015 - Responsible for the course “Basics of Plasma Physics” (48 hours) for the Bachelor degree in Physics at Padova University: on-going since 2011 - In 2015-2016 academic year, invited lecture on “Optics of a negative beam for fusion reactors within the course on “Plasma Heating and Current Drive for ITER Operation and DEMO Needs: Design Technology and Diagnostics” at the International School of Fusion Reactor Technology, Erice (Italy), 24–31/05/2015