



Surname: Caricato  
Name: Paolo  
Date of  
birth: **16/07/1993**

### Personal Information

Nationality	<b>Italian</b>
Driving licence	category B

### Education and Training

Date	2019 - 2022
Name and type of educational institution	Università degli Studi di Milano Scuola di Specializzazione in Fisica Medica
Thesis title	Comprehensive dosimetric and clinical evaluation of lexicographic optimization-based planning for cervical cancer
Supervisors	Dr Sara Trivellato, Dr Roberto Pellegrini
Keywords	Automated planning, lexicographic optimization
Duration	3 years
Final grade	70/70 cum laude
Award date	10/11/2022
Qualification	<b>Specialista in Fisica Medica</b>

Date	2016-2018
Name and type of educational institution	Università degli Studi di Milano Facoltà di Scienze e Tecnologie: LM-17-Laurea Magistrale in Fisica
Thesis title	Implementazione e studio di un nuovo modello di calcolo della dose in brachiterapia oncologica
Supervisors	Dr Mauro Carrara, Prof Alessandro Lascialfari, Dr Tommaso Giandini
Duration	2 years
Final grade	110/110
Award date	28/09/2018
Qualification	<b>Dottore Magistrale in Fisica</b>

Date	2012-2016
Name and type of educational institution	Università del Salento Dipartimento di Matematica e Fisica: L-30-Laurea in Scienze e Tecnologie Fisiche
Thesis title	Caratterizzazione dell'acceleratore lineare "VERSA HD"
Supervisors	Dr Anna Paola Caricato, Dr Caterina Capomolla
Duration	3 years
Final grade	106/110

Award date	26/02/2016
Qualification	<b>Dottore in Fisica</b>

Date	2007-2012
Name and type of educational institution	Maturità Scientifica Liceo Scientifico 'Banzi'- Lecce
Final grade	100/100

### Work Experience

Jan 2023 - Present	Medical Physicist (permanent position), Medical Physics Unit (UOC Fisica Sanitaria), Istituto Oncologico Veneto IOV-IRCCS. Main duties in Radiation Oncology / Radiotherapy
Feb 2019 – Nov 2019	Traineeship for Qualified Expert in radiation protection (Esperto Qualificato), Medical Physics Department, ASST Monza.
Jan 2019 – Nov 2022	Medical Physics activities, Medical Physics Department, ASST Monza, with focus on: <ul style="list-style-type: none"> <li>• Radiotherapy treatment planning using Masterplan (Elekta) and Monaco (Elekta)</li> <li>• Routine QA/measurements on Elekta Versa HD and Synergy linear accelerators</li> <li>• Routine QA/measurements on Nuclear Medicine equipment, PET/CT Discovery MI and Discovery IQ (GE Healthcare)</li> <li>• Acceptance testing of SPECT/CT NM/CT 870 (GE Healthcare)</li> <li>• Research projects on the implementation of automated radiotherapy planning systems</li> </ul>
Jun 2018	Tutor for work-based learning (school-work alternance), IIS Curie Sraffa, Milan.
Mar 2018 – Sep 2018	Implementation of ACE within the Medical Physics Department, Fondazione IRCCS – Istituto Nazionale dei Tumori, Milan.

### Computer Skills

Operating systems	Windows
Programming languages	C/C++ - basic
Software / tools	MATLAB, Microft Office, ImageJ

### Publications and Scientific Awards

Sapignoli S. et al., “Bladder surface-based analysis proves the advantages of online adaptive radiotherapy over plan of the day”, <i>Physica Medica</i> 140:105677 (2025)
Cavinato S. et al., “Exploring plan quality: using plan complexity to quantitatively analyse the tradeoff between clinical suitability and dosimetric accuracy”, <i>Physica Medica</i> 136:105026 (2025)
Caricato P. et al., “Critical assessment of knowledge-based models for craniospinal irradiation of paediatric patients”, <i>Physics and Imaging in Radiation Oncology</i> 33,100703 (2025)
Trivellato et al., “Lexicographic optimization-based planning for stereotactic radiosurgery of brain metastases”, <i>Radiotherapy and Oncology</i> , 196,110308 (2024)
Caricato P. et al., “Updating approach for lexicographic optimization-based planning to improve cervical cancer plan quality”, <i>Discov Oncol.</i> 30;14:180. (2023)
Members in Training Research Achievement Award (RSS 2023) – Best abstract: “Validation of Lexicographic Optimization-Based Planning for Brain Metastasis Radiosurgery with Coplanar Arcs” (RadioSurgery Society Scientific Meeting, Orlando, 23–25 March 2023).
Trivellato S. et al., “Comprehensive dosimetric and clinical evaluation of lexicographic optimization-based planning for cervical cancer”, <i>Front. Oncol.</i> 12:1041839 (2022)

Panizza D. et al., "Intrafraction Prostate Motion Management During Dose- Escalated Linac-Based Stereotactic Body Radiation Therapy", Front. Oncol. 12:883725, <b>12</b> , (2022)
Oral presentation (ESTRO 2022): P. Caricato et al., "MO-0297 Atlas based auto-segmentation in the delineation of rectum and bladder in intrauterine brachytherapy" (2022)
W. Chanta, R. Montezuma, P. Caricato, "Status of Medical Physics in Central America", MPI, <b>7(1)</b> , 17-24 (2019)

**Personal Interests**

Volunteering	Youth leader at the parish oratory since 2005 to 2022
Sports	Team sports, especially football (soccer); Formula 1.
Other	Interest in financial market analysis.

**Personal Skills**

Native language: Italian	written - excellent, spoken - excellent
Other languages: English	written - intermediate, spoken - intermediate
Soft skills (self-assessment)	Planning and organization: 8/10 Continuous learning: 8/10 Goal orientation: 8/10 Initiative / proactiveness: 9/10 Problem solving: 8/10 Teamwork: 9/10 Leadership: 8/10
Interpersonal skills	Team spirit, good interpersonal and networking skills, initiative, dynamism and adaptability, developed through volunteering activities and team sports
Organizational skills	Good leadership (responsible for a volunteer group of 25 people); experience in managing projects and teams both in academia and in volunteering; strong organizational skills
<b>Additional information</b>	Available for business trips, including frequent travel

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