

PERSONAL INFORMATION	Paola Ceroni
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WORK EXPERIENCE	
	<p>Current Position: Medical Physicist, Medical Physics Department, Az. Ospedaliero Universitaria di Modena, Italy since 11/2022</p> <p>Responsibilities: Use of 3DCRT, IMRT / VMAT and Tomotherapy planning tools, Brachytherapy HDR (Eclipse, RayStation, Oncentra, Tomotherapy), photon and electron beam dosimetry, pre-treatment quality assurance on patients treated with IMRT / VMAT and Tomotherapy technique. Use of IGRT techniques, Mega Voltage Computed Tomography, kilo Voltage cone beam, 4D Computer Tomography. Technical knowledge of stereotactic radiosurgery. Validation and use of automated system for daily patient QA using logfiles and EPID.</p> <p>Previous Positions:</p> <p>05/2017 to 10/2022. Medical Physicist, Medical Physics Department, Az. Ospedaliero Universitaria di Modena, Italy.</p> <p>Responsibilities: Beam modeling and beam commissioning of Flattening Filter and Flattening Filter Free Photon Beams. Applicator commissioning in 3D-image-based in treatment planning of cervix cancer brachytherapy. Use of 3DCRT, IMRT / VMAT and Tomotherapy planning tools, Brachytherapy HDR (Pinnacle, Monaco, RayStation, Oncentra, Tomotherapy), photon and electron beam dosimetry, photon beam characterization under TBI conditions in static and volumetric arc therapy, pre-treatment quality assurance on patients treated with IMRT / VMAT and Tomotherapy technique, in vivo dosimetry with diodes for patients undergoing total body irradiation. Use of IGRT techniques, Mega Voltage Computed Tomography, kilo Voltage cone beam, 4D Computer Tomography. Technical knowledge of stereotactic radiosurgery. Validation and use of automated system for daily patient QA using logfiles and EPID</p> <p>02/2012 to 05/2017. Fixed term contract as Medical Physicist. Medical Physics Department, Az. Ospedaliero Universitaria di Modena.</p> <p>Responsibilities: Use of 3DCRT, IMRT / VMAT and Tomotherapy planning tools, Brachytherapy HDR (Pinnacle, Monaco, RayStation, Oncentra, Tomotherapy), photon and electron beam dosimetry, photon beam characterization under TBI conditions in static and volumetric arc therapy, pre-treatment quality assurance on patients treated with IMRT / VMAT and Tomotherapy technique, in vivo dosimetry with diodes for patients undergoing total body irradiation. Use of IGRT techniques, Mega Voltage Computed Tomography, kilo Voltage cone beam, 4D Computer Tomography. Technical knowledge of stereotactic radiosurgery.</p> <p>02/2011 to 12/2011. Fixed term contract as Medical Physicist, Medical Physics Department, Polo Oncologico Aosta-Ivrea, supported by Tecnologie Avanzate S.r.l.</p> <p>Responsibilities: Quality Assurance on Equipment and photon and electron beam dosimetry, TPS Quality Assurance, Using 3DCRT, IMRT and Tomotherapy planning tools, BrachHerapy HDR (Pinnacle, Monaco, RayStation, Oncentra, Tomotherapy). Development of new instrumentation for the dosimetry of treatment plans.</p> <p>02/2010 to 02/2011. Fixed term contract as Medical Physicist, Medical Physics Department, Az. Ospedaliero Universitaria di Modena, supported by Tecnologie Avanzate S.r.l.</p> <p>Responsibilities: Implementation of Quality Assurance software and independent calculation for 3DCRT and IMRT radiotherapy treatment plan. Data and multimedia integration in multimodal clinical field through DICOMRT network development</p> <p>03/2008 to 10/2009. Fixed term contract as Physicist enrolled in a residency program in Medical Physics, Medical Physics Department, Az. Ospedaliero Universitaria di Modena</p>

	<p>Responsibilities: Organizational support and preparation of educational material and scientific documentation for the management of training events related to the project "Competences, methods and organization for the management of technological research programs" under the 2007-2009 Regional-University Research Program, Medical Physics Department, Az. Ospedaliero Universitaria di Modena.</p> <p>01/2007 to 11/2009. Redidency Thesis at the Medical Physics Department, Az. Ospedaliero Universitaria di Modena</p> <p>06/2006 to 12/2006. Training at the Department of Medical Physics, Hospital Maggiore (Bologna)</p>
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EDUCATION AND TRAINING	
• Date	16/05/2018 to 25/05/2018
	Training at the Department of Radiotherapy, Medical University of Vienna / Vienna General Hospital. Preplanning, countouring and planning with Image Guided Adaptive Brachytherapy
• Date	14/05/2018 to 15/05/2018
	BrachyAcademy Clinical Workshop presso Department of Radiotherapy, Medical University of Vienna / Vienna General Hospital. Image-guided adaptive brachytherapy for gynecology.
• Date	08/01/2017
	Training at the Department of Radiation Oncology University Medical Center Mannheim Heidelberg University, Germany for Total Body Irradiation with large field modulated arc therapy
• Date	14/03/2007 to 16/03/2007
	Course on Security of laser sources in medical applications. University of Florence, Biomedical And Technological Department
• Date	09/1998 - 10/2005
	Masters Degree in Physics. University of Bologna: 70/70 cum laude. Thesis title: Evaluation methods of the radiologic risk associated with cardiovascular XR procedures. Final score: 107/110

Mother tongue(s)	Italian				
Other language(s) Self-evaluation	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	A2
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages					

Job-related skills	<p>Ability to work in group together with people of different cultures and backgrounds. Experience as volunteer in No-Profit Associations.</p> <p>Ability to work multitasking and to meet deadlines.</p> <p>Programming in Fortran and Assembler. Advanced knowledge of Windows and Office.</p>
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Driving licence	European class B driving license (Issuing country: Italy)
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Publications Presentations Projects Conferences Seminars Honours and awards Memberships References	<p>Manuscripts.</p> <ol style="list-style-type: none"> Alberto Ciarmatori, Nicola Maffei, Grazia Maria Mistretta, Paola Ceroni, Annalisa Bernabei, Bruno Meduri, Elisa D'Angelo, Alessio Bruni, Patrizia Giacobazzi, Frank Lohr, Gabriele Guidi, Evaluation of the effectiveness of novel single-intervention adaptive radiotherapy strategies based on daily dose accumulation, March 2019, Medical Dosimetry 44(4), http://dx.doi.org/10.1016/j.meddos.2019.02.002 (https://www.meddos.org/article/S0958-3947(19)30027-5/fulltext)
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2. G. Guidi, N. Maffei, B. Meduri, E. D'Angelo, G.M. Mistretta, P. Ceroni, A. Ciarnatori, A. Bernabei, S. Maggi, M. Cardinali, V.E. Morabito, F. Rosica, S. Malara, A. Savini, G. Orlandi, C. D'Ugo, F. Bunkheila, M. Bono, S. Lappi, C. Blasi, F. Lohr, T. Costi, A machine learning tool for re-planning and adaptive RT: A multicenter cohort investigation, *Physica Medica*, Available online 17 October 2016, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.10.005>. (<http://www.sciencedirect.com/science/article/pii/S1120179716309450>)
3. Review of the results of the in vivo dosimetry during total skin electron beam therapy, *March 2014, Reports of Practical Oncology and Radiotherapy* 19(2):144–150, <http://dx.doi.org/10.1016/j.rpor.2013.07.011> (<https://www.ncbi.nlm.nih.gov/pubmed/24936333>)
4. Pierfrancesco Franco, Gianmauro Numico, Fernanda Migliaccio, Paola Catuzzo, Domenico Cante, Paola Ceroni, Piera Sciacero, Pierpaolo Carassai, Paolo Canzi, Maria Rosa La Porta, Giuseppe Girelli, Valeria Casanova Borca, Massimo Pasquino, Santi Tofani, Franca Ozzello, Umberto Ricardi: Head and neck region consolidation radiotherapy and prophylactic cranial irradiation with hippocampal avoidance delivered with helical tomotherapy after induction chemotherapy for non-sinonasal neuroendocrine carcinoma of the upper airways. *Radiation Oncology* 02/2012; 7(1):21, <http://dx.doi.org/DOI:10.1186/1748-717X-7-21> (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3306202/pdf/1748-717X-7-21.pdf>)

Poster presentations.

1. P. Antognoni, P. Barbieri, A. Bruni, E. Cenacchi, P. Ceroni, P. Giacobazzi, G. Guidi, B. Lanfranchi, E. Mazzeo, B. Meduri, M. Parmiggiani, G. Tolento, E. Turco, T. Costi, F. Bertoni, 1264 poster 4D CT-BASED PTV DEFINITION FOR LUNG TUMOURS: COMPARISON WITH CONVENTIONAL 3D-CRT USING INDIVIDUAL MARGINS, *Radiotherapy and Oncology*, Volume 99, Supplement 1, May 2011, Page S471, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(11\)71386-X](http://dx.doi.org/10.1016/S0167-8140(11)71386-X). (<http://www.sciencedirect.com/science/article/pii/S016781401171386X>)
2. P. Antognoni, P. Barbieri, A. Bruni, E. Cenacchi, P. Ceroni, G. Guidi, B. Lanfranchi, E. Mazzeo, B. Meduri, M. Parmiggiani, S. Pratissoli, G. Tolento, E. Turco, T. Costi, F. Bertoni, 1245 poster FINE VS COARSE MVCT: EVALUATION OF INTER-FRACTION ERRORS IN PATIENTS TREATED WITH TOMOTHERAPY®, *Radiotherapy and Oncology*, Volume 99, Supplement 1, May 2011, Pages S463-S464, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(11\)71367-6](http://dx.doi.org/10.1016/S0167-8140(11)71367-6). (<http://www.sciencedirect.com/science/article/pii/S0167814011713676>)
3. P. Antognoni, P. Barbieri, A. Bruni, E. Cenacchi, P. Ceroni, G. Guidi, B. Lanfranchi, E. Mazzeo, B. Meduri, M. Parmiggiani, S. Pratissoli, G. Tolento, E. Turco, T. Costi, F. Bertoni, 1233 poster AUTOMATIC +/- MANUAL CORRECTION FOR INTER-FRACTION ERRORS DETECTION IN PATIENTS TREATED WITH TOMOTHERAPY®, *Radiotherapy and Oncology*, Volume 99, Supplement 1, May 2011, Pages S459-S460, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(11\)71355-X](http://dx.doi.org/10.1016/S0167-8140(11)71355-X). (<http://www.sciencedirect.com/science/article/pii/S016781401171355X>)
4. G. Guidi, N. Maffei, B. Meduri, S. Maggi, M. Cardinali, V.M. Morabito, F. Rosica, S. Malara, A. Savini, G. Orlandi, C.D. Ugo, F. Bunkheila, M. Bono, S. Lappi, C. Blasi, G.M. Mistretta, P. Ceroni, A. Ciarnatori, A. Bernabei, P. Giacobazzi, T. Costi, OC-0367: A Neural Network analysis to support Adaptive RT strategies: a multicenter retrospective study, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Pages S170-S171, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)31616-4](http://dx.doi.org/10.1016/S0167-8140(16)31616-4). (<http://www.sciencedirect.com/science/article/pii/S0167814016316164>)
5. Ciarnatori, G. Gabriele, N. Maffei, C. Vecchi, M.G. Mistretta, P. Ceroni, B. Meduri, P. Giacobazzi, T. Costi, EP-1807: Replanning effects in Tomotherapy treatment using dose accumulation and dose deformation strategies, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Pages S847-S848, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)33058-4](http://dx.doi.org/10.1016/S0167-8140(16)33058-4). (<http://www.sciencedirect.com/science/article/pii/S0167814016330584>)
6. G. Guidi, N. Maffei, F. Itta, E. D'angelo, B. Meduri, P. Ceroni, G. Mistretta, A. Ciarnatori, G. Gottardi, P. Giacobazzi, T. Costi, EP-1616: Secondary cancer induction of VMAT technique in breast irradiation: organ equivalent dose estimation, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Page S752, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)32867-5](http://dx.doi.org/10.1016/S0167-8140(16)32867-5). (<http://www.sciencedirect.com/science/article/pii/S0167814016328675>)
7. N. Maffei, G. Guidi, E. D'angelo, B. Meduri, P. Ceroni, G. Mistretta, A. Ciarnatori, G. Gottardi,

- P. Giacobazzi, T. Costi, EP-1715: A Neural Network predictions and follow-up toxicity correlation to validate re-planning during RT, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Pages S801-S802, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)32966-8](http://dx.doi.org/10.1016/S0167-8140(16)32966-8).
<http://www.sciencedirect.com/science/article/pii/S0167814016329668>)
8. Ciarmatori, G. Guidi, A. Bruni, N. Maffei, C. Vecchi, M.G. Mistretta, P. Ceroni, S. Gaito, P. Giacobazzi, T. Costi, EP-1686: Frameless radiosurgery in brain metastasis with Tomotherapy: a comparison toward dosimetric index, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Pages S787-S788, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)32937-1](http://dx.doi.org/10.1016/S0167-8140(16)32937-1).
 (<http://www.sciencedirect.com/science/article/pii/S0167814016329371>)
 9. N. Maffei, G. Guidi, C. Vecchi, A. Ciarmatori, G. Mistretta, P. Ceroni, B. Meduri, P. Giacobazzi, T. Costi, EP-1806: A novel predictive approach to quantify parotids warping using SIS epidemic model, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Pages S846-S847, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)33057-2](http://dx.doi.org/10.1016/S0167-8140(16)33057-2).
 (<http://www.sciencedirect.com/science/article/pii/S0167814016330572>)
 10. G. Guidi, N. Maffei, G.M. Mistretta, P. Ceroni, A. Ciarmatori, L. Morini, A. Bernabei, P. Giacobazzi, T. Costi, EP-1529: A real-time monitor system for QA and VMAT: sensitivity analysis in clinical practice, *Radiotherapy and Oncology*, Volume 119, Supplement 1, April 2016, Page S708, ISSN 0167-8140, [http://dx.doi.org/10.1016/S0167-8140\(16\)32779-7](http://dx.doi.org/10.1016/S0167-8140(16)32779-7).
 (<http://www.sciencedirect.com/science/article/pii/S0167814016327797>)
 11. N. Maffei, G. Guidi, E. D'Angelo, B. Meduri, E. Mazzeo, A. Ciarmatori, G.M. Mistretta, P. Ceroni, G. Gottardi, P. Giacobazzi, T. Costi, A.128 - Forecasting algorithm to predict re-planning in tomotherapy: Follow-up toxicity correlation, *Physica Medica*, Volume 32, Supplement 1, February 2016, Page 38, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.01.132>.
 (<http://www.sciencedirect.com/science/article/pii/S1120179716001344>)
 12. G. Guidi, N. Maffei, G.M. Mistretta, P. Ceroni, A. Ciarmatori, L. Morini, A. Bernabei, P. Giacobazzi, G. Baldazzi, T. Costi, A.105 - New era for QA and VMAT: Real-time monitor system in clinical practice, *Physica Medica*, Volume 32, Supplement 1, February 2016, Page 31, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.01.109>.
 (<http://www.sciencedirect.com/science/article/pii/S1120179716001113>)
 13. N. Maffei, G. Guidi, C. Vecchi, A. Ciarmatori, G.M. Mistretta, P. Ceroni, B. Meduri, P. Giacobazzi, G. Baldazzi, T. Costi, A.130 - Susceptible-infected-susceptible model applied to RT to predict parotid glands shrinkage during 6 weeks of therapy, *Physica Medica*, Volume 32, Supplement 1, February 2016, Pages 38-39, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.01.134>.
 (<http://www.sciencedirect.com/science/article/pii/S1120179716001368>)
 14. N. Maffei, G. Guidi, A. Ciarmatori, G.M. Mistretta, P. Ceroni, A. Bruni, G. Zambelli, P. Giacobazzi, G. Baldazzi, T. Costi, A.129 - Intra-fraction motion in IMRT, VMAT and helical tomotherapy: In vivo dosimetry using TLD and LEGO phantom, *Physica Medica*, Volume 32, Supplement 1, February 2016, Page 38, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.01.133>.
 (<http://www.sciencedirect.com/science/article/pii/S1120179716001356>)
 15. G. Guidi, N. Maffei, F. Itta, E. D'angelo, B. Meduri, P. Ceroni, G.M. Mistretta, A. Ciarmatori, G. Gottardi, P. Giacobazzi, G. Baldazzi, T. Costi, A.103 - The organ equivalent dose to quantify secondary cancer induction in breast after VMAT treatments, *Physica Medica*, Volume 32, Supplement 1, February 2016, Page 31, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.01.107>.
 (<http://www.sciencedirect.com/science/article/pii/S1120179716001095>)
 16. Ciarmatori, G. Guidi, N. Maffei, C. Vecchi, A. Bernabei, M.G. Mistretta, P. Ceroni, B. Meduri, P. Giacobazzi, T. Costi, A.39 - Dose accumulation and replanning in H&N patient: A step toward implementation of art in clinical practice, *Physica Medica*, Volume 32, Supplement 1, February 2016, Page 12, ISSN 1120-1797, <http://dx.doi.org/10.1016/j.ejmp.2016.01.043>.
 (<http://www.sciencedirect.com/science/article/pii/S1120179716000454>)

Teaching

20/01/2017, Azienda Ospedaliero Universitaria Policlinico di Modena: Total Body Irradiation with large field modulated arc therapy.

27/11/2015, Azienda Ospedaliero Universitaria Policlinico di Modena: CT studies and 4D planning for radiotherapy treatments: state of the art and new perspectives.

Date 06/2023

Paula Leoni