

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name	Ravaglia Valentina
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E-mail	valentina.ravaglia@auslromagna.it
Nationality	Italian
Date of birth	[07/07/1980]

## WORK EXPERIENCE

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Dates (from – to)</li> <li>• Name and address of employer</li> <li>• Type of business or sector</li> <li>• Occupation or position held</li> <li>• Main activities and responsibilities</li> </ul> | <p>01/06/2018-today<br/> AUSL Romagna (Ravenna, Italy)<br/> Medical Physics<br/> Medical Physics Expert (MPE)</p> <ul style="list-style-type: none"> <li>- Radiotherapy: treatments plans for external radiotherapy 3D, IMRT and VMAT; use of TPS Xio; Pre-treatment QA, LINAC commissioning and CQ, including CBCT;</li> <li>- Radiology: CQ for digital mammography and tomosynthesis, angiography systems, traditional x-ray systems and CT, optimization of protocols in CT, interventional radiology and pediatric radiology;</li> <li>- Teacher for internal courses for technicians and physicians;</li> <li>- Consultant for EFOMP (European Federation of Organizations for Medical Physics) Working Group on Digital Breast Tomosynthesis.</li> </ul> <p>From 01/06/17 to 31/05/2018<br/> IRST (Meldola (FC), Italy)<br/> Medical Physics<br/> Medical Physics Expert (MPE)</p> <ul style="list-style-type: none"> <li>- Radiotherapy: treatments plans for external radiotherapy 3D, IMRT, VMAT, Tomotherapy and Brachytherapy LDR and HDR; use of TPS Pinnacle, Raystation, Tomotherapy, Oncentra Brachy e Variseed; fusion imaging of PET/CT, RM, MVCT, Cone Beam (rigid or deformable) with software MIM Vista; Pre-treatment QA and LINAC and Tomotherapy CQ;</li> <li>- Radiology: CQ for digital mammography and tomosynthesis;</li> <li>- Texture analysis of images</li> </ul> <p>From 01/03/2010 to 31/05/2017<br/> USL Toscana Nord Ovest (Lucca, Italy)<br/> Medical Physics<br/> Medical Physics Expert (MPE)</p> <ul style="list-style-type: none"> <li>- Radiotherapy: treatments plans for external radiotherapy 3D, IMRT, VMAT, Tomotherapy and Brachytherapy LDR and HDR; use of TPS Pinnacle, Monaco, Tomotherapy, Oncentra Brachy e Variseed; fusion imaging of PET/CT, RM, MVCT, Cone Beam (rigid or deformable) with software MIM Vista; Pre-treatment QA and LINAC and Tomotherapy CQ;</li> <li>- Radiology: CQ for digital mammography and tomosynthesis, angiography systems, traditional x-ray systems, CT and monitor, optimization of protocols in CT, interventional radiology and pediatric radiology, monitor;</li> <li>- Nuclear Medicine: CQ for PET/CT and SPECT/CT</li> <li>- Radioprotection: Radioprotection Expert of III degree for Lucca Hospitals Area, radioprotection</li> </ul> |
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measurements for X-ray systems, LINAC, Tomotherapy, Ir-192 source for Brachytherapy HDR, I-125 for brachytherapy LDR and Nuclear Medicine Department (waste management, PET/TC and SPECT/TC), dose estimation for hospital workers with personal dosimetry (about 350 workers);  
 - Teacher for internal courses for technicians and physicians in Radiotherapy, Radiology and Radioprotection fields.

From 01/08/2008 to 28/2/2010

Referenzzentrum Mammographie Berlin (Berlin, Deutschland)

Medical Physics

Medical Physics Expert (MPE)

- CQ for digital mammography in the area of Berlin, Brandenburg, Sachsen, Sachsen-Anhalt and Mecklenburg-Vorpommern

- Teacher for courses for technicians and physicians in mammography fields.

From 01/05/2006 to 31/07/2007

ISPO (Florence, Italy)

Medical Physics

Medical Physicist

- CQ for digital mammography systems, monitors and printers;

- Teacher for courses for technicians and physicians in mammography fields;

- PACS.

## EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
  - Title of qualification awarded
- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
  - Title of qualification awarded

From February 2005 to 06/06/2008

University of Florence

Medical Physics (radiotherapy, nuclear medicine, radiology, radioprotection)

Medical Physics Expert (MPE) (PhD)

From September 1999 to 17/12/2004

University of Bologna

Physics

Master Degree in Physics

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

C1

GERMAN

B2

DRIVING LICENCE(S)

B

## PUBLICATIONS

### *Book*

- R. E. van Engen et Al. "EFOMP protocol: Quality control in digital breast tomosynthesis" (2023)

### *Peer-reviewed journal articles*

- Savini A, et Al., "The Role of Acquisition Angle in Digital Breast Tomosynthesis: A Texture Analysis Study", *Appl. Sci.*, 10, 6047 (2020)
- Paoluzzi, A. Losa, V. Cerboneschi, C. Colosimo, N. Fontana, P. Mangili, M. Mignogna, L. Nava, V. Ravaglia, "Prostate-specific antigen percentage: An early predictive tool after iodine-125 interstitial brachytherapy for prostate cancer", *Brachytherapy*, 16(5):1000-1006 (2017)
- Fellin et Al., "Low dose rate brachytherapy (LDR-BT) as monotherapy for early stage prostate cancer in Italy: practice and outcome analysis in a series of 2237 patients from 11 institutions", *Br J Radiol*, Sep;89(1065), (2016)
- R. Bouwman, K. Young, B. Lazzari, V. Ravaglia, et Al. "An alternative method for noise analysis using pixel variance as part of quality control procedures on digital mammography systems.", *Phys Med Biol.*, Nov 21;54(22):6809-22 (2009)

### *Abstract e proceedings*

- V. Ravaglia, C. Cecchelli, S. Farnedi, D. Palmarini, N. Pannacci, N. Scrittori, G. Venturi, "Dose optimization in percutaneous endovascular embolization of male varicocele", *Physica Medica*, Volume 104, Supplement, S9 (2022)
- V. Ravaglia, C. Dengo, S. Farnedi, E. Giampalma, N. Scrittori, G. Venturi, "Dose reduction in multiphase contrast enhanced thorax-abdomen clinical CT protocol using novel True Fidelity reconstruction algorithm", *Physica Medica*, Volume 104, Supplement, S84 (2022)
- G. Venturi, E. Giampalma, A. Vizzuso, S. Farnedi, V. Ravaglia, N. Scrittori, "Patient dose in prostatic artery embolization: state of art at Morgagni Pierantoni hospital", *Physica Medica*, Volume 104, Supplement, S84-S85 (2022)
- G. Venturi, S. Farnedi, S. Lappi, L. Angelini, V. Ravaglia, N. Scrittori, "Cardiac angiographic protocols: a figure of merit approach", *Physica Medica*, Volume 104, Supplement, S134 (2022)
- V. Ravaglia, L. Angelini, M. Bertolini, G. Della Gala, C. Fabbri, S. Fabbri, S. Farnedi, I. Vacchieri, P. Golinelli, G. Guerra, O. Ortenzia, L. Pagan, A. Savini, N. Scrittori, G. Venturi, "Small-size details detection performance of digital breast tomosynthesis, synthetic 2D and conventional full-field digital mammography images for different mammography systems: a multicenter study", *Physica Medica*, Volume 92, Supplement, S113-S114 (2021)
- V. Ravaglia, L. Angelini, M. Bertolini, G. Della Gala, C. Fabbri, S. Fabbri, S. Farnedi, I. Vacchieri, G. Guerra, E. Lorenzini, S. Mazzocchi, A. Niespolo, O. Ortenzia, L. Pagan, M. Quattrocchi, A. Savini, N. Scrittori, G. Venturi, P. Golinelli, "Average glandular dose in digital breast tomosynthesis systems: a multicenter study", *Physica Medica*, Volume 92, Supplement, S112-S113 (2021)
- G. Guerra, V. Ravaglia, N. Scrittori, "The effect of modern radiotherapy techniques using flattening filter-free beams (6 MV) on cardiac implantable electronic devices (CIEDs)", *Physica Medica*, Volume 92, Supplement, S5 (2021)
- G. Guerra, V. Ravaglia, R. Pozzi, P. Cenni, N. Scrittori, "Characterizing iron deposition in healthy and multiple sclerosis patients using susceptibility weighted imaging in MR", *Physica Medica*, Volume 92, Supplement, S218 (2021)
- G. Venturi, L. Angelini, G. Guerra, V. Ravaglia, N. Scrittori, "Cardiac angiographic protocols: a figure of merit approach", *Physica Medica*, Volume 92, Supplement, S230 (2021)
- A. Barbareschi, M.D. Falco, R. Consorti, V. Ravaglia, S. Lappi, A. Delana, "Treatment planning system calculation accuracy in the out of field dose region and their consequences in pacemaker dose estimation", *Physica Medica*, Volume 92, Supplement, S58 (2021)
- A. Savini et Al., "161. A crowd-knowledge-based analysis of DVHs in SBRT: First steps towards a national virtual audit", *Physica Medica* 56:163-164 (2018)
- A. Savini et Al., "14. Commissioning of the RayStation treatment planning system and dosimetric comparison with Pinnacle", *Physica Medica* 56:69 (2018)
- P. Golinelli et Al., "74. Mean glandular dose survey in the Emilia-Romagna region breast screening program", *Physica Medica* 56:108-109 (2018)
- E. Mezzenga et al., "194. Retrospective analysis of daily Tomotherapy output check performed by means of statistical process control: A helpful way for preventive maintenance interventions?", *Physica Medica* 56:180-181 (2018)
- V. Ravaglia, A. Giuliano, "128. Effect of the thermoplastic mask on patient skin dose in tomotherapy", *Physica Medica* 56:143-144 (2018)

- A. Giuliano, V. Ravaglia, "149. Skin dose in radiotherapy: Results of in vivo measurements with Gafchromic EBT3 films", *Physica Medica* 56:156-157 (2018)
- M. Quattrocchi et al., "231. Adaptive iterative dose reduction in 3D (AIDR 3D) algorithm: Quality image and dose to the patient", *Physica Medica* 56:205 (2018)
- A. Savini et al., "232. Implementation of an edited-PRESS sequence for the detection of the 2-Hydroxyglutarate metabolite", *Physica Medica* 56:206 (2018)
- G. Feliciani, et al., "[OA089] Diffusing Alpha-Emitters Radiation Therapy: Template Based TPS for Brachytherapy of Squamous Cell Skin Cancer", *Physica Medica* 52:35 (2018)
- G. Feliciani, et al., "Diffusing Alpha-Emitters Radiation Therapy: Template Based TPS for Brachytherapy of Squamous Cell Skin Cancer", *International Journal of Radiation Oncology Biology Physics* 102(3):e491 (2018)
- E. Menghi et Al., "[OA045] Robustness of textural features in ADC magnetic resonance imaging maps among different contouring for prostate cancer patients", *Physica Medica* 52:19 (2018)
- G. Feliciani, et al., "EP-1995: Robustness of textural features in ADC maps with different contouring for prostate cancer patients", *Radiotherapy and Oncology* 127:S1085 (2018)
- V. Ravaglia et Al., "EP-1888: A retrospective comparison of the new commercial algorithm ACE and TG43 for brachytherapy treatments", *Radiotherapy and Oncology* 127:S1022-S1023 (2018)
- A. Giuliano, V. Ravaglia, "EP-1468: Skin dose in radiotherapy: results of in vivo measurements with gafchromic EBT3 films", *Radiotherapy and Oncology*, Volume 123, Supplement 1, Pages 784 (2017)
- A. Giuliano, V. Ravaglia, "EP-1489: Effect of the thermoplastic mask on patient skin dose in tomotherapy", *Radiotherapy and Oncology*, Volume 123, Supplement 1, Pages 797-798 (2017)
- V. Cerboneschi, V. Ravaglia, M. Paoluzzi, M. Mignogna, M. Mignogna "PO-0978: Image-guided impact on the brachytherapy prostate treatment quality", *Radiotherapy and Oncology*, Volume 119, Supplement 1, Pages 475-476 (2016)
- M. Quattrocchi, V. Ravaglia, A. Lazzari, "Evaluation of diagnostic reference levels for angiography system using a radiation dose monitoring system", *Physica Medica: European Journal of Medical Physics*, Volume 32, 88 (2016)
- F.R.Giglioli, et Al. "EP-1471: Lung SABR: radiobiological multi planning comparison in a perspective of a multi-institutional study", *Radiotherapy and Oncology*, Volume 115, Supplement 1, April 2015, Pages S798-S799 (2015)

#### *Conference Paper*

- V. Ravaglia et al., "A homemade phantom for image quality evaluation in contrast enhanced spectral mammography (CESM)", *Proc. of SPIE*, Vol.12286 (2022), Sixteenth International Workshop on Breast Imaging
- V. Ravaglia et al., "The small-size details detection performance of digital breast tomosynthesis, synthetic 2D, and conventional full-field digital mammography images for different mammography systems: a multicenter study", *Proc. of SPIE*, Vol. 11513 (2020), Fifteenth International Workshop on Breast Imaging
- S. Linsalata et Al., "203. Patient specific pre-treatment Quality Assurance in multiple lesions lung SBRT VMAT plans", *Physica Medica* 56:185 (2018), X Congresso AIFM
- V. Ravaglia, M. Quattrocchi, S. Linsalata, V. Reggioli, "A comparison between static and helical calibration of the new Octavius Detector 729 in tomotherapy", *Physica Medica: European Journal of Medical Physics*, Volume 32, 56 (2016), IX Congresso AIFM
- S. Linsalata, V. Ravaglia, A. Lazzari, "Experimental validation of a iBEAM® evo Elekta couch model in Philips Pinnacle3 TPS", *Physica Medica: European Journal of Medical Physics*, Volume 32, 35 (2016), IX Congresso AIFM
- V. Ravaglia, M. Quattrocchi, G. Zatelli, S. Busoni, B. Lazzari, "Quantitative comparison among different CDMAM phantoms", *Congresso AIFM* (2013)
- V. Ravaglia, M. Quattrocchi, E. Lorenzini, V. Cerboneschi, M. Paoluzzi, M. Mignogna, "Image-guided impact on the brachytherapy prostate treatment quality", *Congresso AIFM* (2013)
- M. Quattrocchi, V. Ravaglia, "Monitoring patient dose through PACS tracking system", *Congresso AIFM* (2013)
- M. Quattrocchi, V. Ravaglia, "Delivery Quality Assurance (DQA) of tomotherapy plans: does pitch and modulation factor affect the result?", *Congresso AIFM* (2013)
- V. Ravaglia, M. Quattrocchi, A. Lazzari, "Distribuzione di dose e analisi del rischio nel programma di screening mammografico di Lucca", *GISMa* (2010)
- V. Ravaglia, M. Quattrocchi, B. Lazzari, V. Marzulli, M. Fedi, A. Vaiano, E. Busatti, S. Mazzocchi, S. Busoni, A. Niespolo, "Risk/benefit ratio of the breast screening program in Tuscany (Italy) for the years 2004-2008", *IAEA* (2010)

- V. Ravaglia, R. Bouwman, K. Young, et Al. "Noise analysis of full field digital mammography systems", SPIE Conference Proceedings (2009)
- G. Belli, S. Mazzocchi, I. Menchi, V. Ravaglia, A. Taddeucci, G. Zatelli, "Utilizzo di uno schermo protettivo di bismuto con tecnica di modulazione della corrente in una CT multislice: aspetti dosimetrici e di qualità", 42° congresso SIRM 2006

## TEACHING AND INVITED LECTURES

- "Radiologia e radioprotezione del paziente", Scuola di specializzazione di Fisica Medica, University of Tor Vergata (Rome), academic year 2022/23, 10 hours
- "Stato dell'arte delle tecniche mammografiche", invited lecture AIFM 2023, Florence, 09/06/2023
- "Assicurazione di qualità in mammografia 2D e Tomosintesi", Scuola Caldirola "Fisica Medica in Radiologia Diagnostica e interventistica: dosimetria e assicurazione di qualità", Napoli, 08/11/2022
- "EFOMP Digital Breast Tomosynthesis QC protocol feedback session", ESMPE European School for Medical Physics Experts, Dublin, 17/08/2022
- Corso per TSRM. "Ruolo del Fisico Medico in un trial di tomo sintesi", GISMA, Roma (2018)
- "Informatica nell'imaging: Teleradiologia e dintorni", 05/03/15-07/03/15, AITASIT, Lucca
- "Aspetti fisici e tecnici della nuova mammografia digitale", GISMA, Salerno (2014)
- "La mammografia digitale", Firenze (2012)
- "La mammografia digitale", Milano (2012)
- "Detectori Flat-panel per Diagnostica Mobile", AITASIT, Bari (2012)
- "L'immagine radiologica: dalla formazione all'elaborazione", "Stima del rapporto rischio/beneficio nello screening mammografico", AITASIT, Lucca (2012)

Date 21/09/2023

