CURRICULUM VITAE EUROPEO

CONTACT INFORMATION	**Name** Simona Marzi
PERSONAL INFORMATION	[redacted]
FOREIGN LANGUAGES	English very good Spanish good
COMPUTER EXPERTISE	Programming in Matlab languages Knowledge of the Office Microsoft Package
ACCADEMIC EDUCATION	
June 1992	High School graduation "Liceo Classico Padre Alberto Guglielmotti" with full marks (60/60), Civitavecchia (Rome)
September 1998	Degree in Physics with full marks (110/110), Università degli Studi di Pisa, Pisa Thesis: Characterization and applications of a laser-plasma X-ray source. Supervisor: Prof. Danilo Giulietti
December 2000	PhD in Medical Physics with full marks (50/50), Università La Sapienza, Rome Thesis: "Study and Applications of an optimization algorithm for IMRT (intensity-modulated radiation therapy) treatment planning. Supervisor: Prof. Maurizio Pellicioni
PROFESSIONAL EXPERIENCE	
Since March 2001	Present position held since March 2001: Medical Physicist at the Medical Physics Laboratory, Regina Elena National Cancer Institute, IFO, Rome

PROFESSIONAL EXPERIENCE DIAGNOSTIC IMAGING AND RADIOTHERAPY PHYSICS	• Research in the field of treatment planning, software development of optimization algorithm, radiobiological predictive models; • Quality assurance on Diagnostic Magnetic Resonance and Computed Tomography; • Physical research and software development in the field of quantitative image analysis (CT, MR, US).
PUBBLICATIONS ON INDEXED JOURNALS (of the last 5 years)	1. Sanguineti G, Faiella A, Farneti A, D'Urso P, Fuga V, Olivieri M, Giannarelli D, Marzi S, Iaccarino G, Landoni V. Refinement & validation of rectal wall dose volume objectives for prostate hypofractionation in 20 fractions. Clin Transl Radiat Oncol. 2020;21:91-97. 2. Vidiri A, Marzi S, Gangemi E, Benevolo M, Rollo F, Farneti A, Marucci L, Spasiano F, Sperati F, Di Giuliano F, Pellini R, Sanguineti G. Intravoxel incoherent motion diffusion-weighted imaging for oropharyngeal squamous cell carcinoma: Correlation with human papillomavirus Status. Eur J Radiol. 2019;119:108640. 3. Vidiri A, Panfili M, Boellis A, Cristalli G, Gangemi E, Pellini R, Marzi S, Covello R. The role of MRI-derived depth of invasion in staging oral tongue squamous cell carcinoma: inter-reader and radiological-pathological agreement. Acta Radiol. 2019 Jul 18:284185119862946. 4. Fedeli L et al., Italian Association of Physics in Medicine (AIFM) Working Group on MR Intercomparison. Dependence of apparent diffusion coefficient measurement on diffusion gradient direction and spatial position - A quality assurance intercomparison study of forty-four scanners for quantitative diffusion-weighted imaging. Phys Med. 2018 Oct 17. pii: S1120-1797(18)31169-4. doi: 10.1016/j.ejmp.2018.09.007. 5. Marzi S, Minosse S, Vidiri A, Piludu F, Giannelli M. Diffusional kurtosis imaging in head and neck cancer: On the use of trace-weighted images to estimate indices of non-Gaussian water diffusion. Med Phys. 2018. doi: 10.1002/mp.13238. 6. Marzi S, Farneti A, Vidiri A, Di Giuliano F, Marucci L, Spasiano F, Terrenato I, Sanguineti G. Radiation-induced parotid changes in oropharyngeal cancer patients: the role of early functional imaging and patient-/treatment-related factors. Radiat Oncol. 2018;13(1):189. doi: 10.1186/s13014-018-1137-4. PubMed PMID: 30285893; 7. Vidiri A, Minosse S, Piludu F, Pellini R, Cristalli G, Kayal R, Carlino G, Renzi D, Covello R, Marzi S. Cervical lymphadenopathy: can the histogram analysis of apparent diffusion coefficient help to differentiate between lymphoma and squamous cell carcinoma in patients with unknown clinical primary tumor? Radiol Med. 2018. doi: 10.1007/s11547-018-0940-1. 8. Rengo M, Picchia S, Marzi S, Bellini D, Caruso D, Caterino M, Ciolina M, DeSantis D, Musio D, Tombolini V, Laghi A. Magnetic resonance tumor regression grade (MR-TRG) to assess pathological complete response following neoadjuvant radiochemotherapy in locally advanced rectal cancer. Oncotarget. 2017;8(70):114746-114755. doi:

	10.18632/oncotarget.21778. 9. Minosse S, Marzi S, Piludu F, Vidiri A. Correlation study between DKI and conventional DWI in brain and head and neck tumors. Magn Reson Imaging. 2017;42:114-122. doi: 10.1016/j.mri.2017.06.006. 10. Marzi S, Piludu F, Sanguineti G, Marucci L, Farneti A, Terrenato I, Pellini R,Benevolo M, Covello R, Vidiri A. The prediction of the treatment response of cervical nodes using intravoxel incoherent motion diffusion-weighted imaging. Eur J Radiol. 2017;92:93-102. doi: 10.1016/j.ejrad.2017.05.002. 11. Marzi S, Piludu F, Forina C, Sanguineti G, Covello R, Spriano G, Vidiri A. Correlation study between intravoxel incoherent motion MRI and dynamic contrast-enhanced MRI in head and neck squamous cell carcinoma: Evaluation in primary tumors and metastatic nodes. Magn Reson Imaging. 2017 Apr;37:1-8. doi: 10.1016/j.mri.2016.10.004. 12. Scalco E, Marzi S, Sanguineti G, Vidiri A, Rizzo G. Characterization of cervical lymph-nodes using a multi-parametric and multi-modal approach for an early prediction of tumor response to chemo-radiotherapy. Phys Med. 2016 Dec;32(12):1672-1680. doi: 10.1016/j.ejmp.2016.09.003. 13. Vidiri A, Minosse S, Piludu F, Curione D, Pichi B, Spriano G, Marzi S. Feasibility study of reduced field of view diffusion-weighted magnetic resonance imaging in head and neck tumors. Acta Radiol. 2017 Mar;58(3):292-300. doi: 10.1177/0284185116652014. 14. Marzi S, Stefanetti L, Sperati F, Anelli V. Relationship between diffusion parameters derived from intravoxel incoherent motion MRI and perfusion measured by dynamic contrast-enhanced MRI of soft tissue tumors. NMR Biomed. 2016;29(1):6-14. doi: 10.1002/nbm.3446. 15. Piludu F, Marzi S, Pace A, Villani V, Fabi A, Carapella CM, Terrenato I, Antenucci A, Vidiri A. Early biomarkers from dynamic contrast-enhanced magnetic resonance imaging to predict the response to antiangiogenic therapy in high-grade gliomas. Neuroradiology. 2015;57(12):1269-80. doi: 10.1007/s00234-015-1582-9. 16. Marzi S, Forina C, Marucci L, Giovinazzo G, Giordano C, Piludu F, Landoni V, Spriano G, Vidiri A. Early radiation-induced changes evaluated by intravoxel incoherent motion in the major salivary glands. J Magn Reson Imaging. 2015;41(4):974-82. doi: 10.1002/jmri.24626. 17. Villani V, Carapella CM, Chiaravalloti A, Terrenato I, Piludu F, Vidiri A, Schillaci O, Floris R, Marzi S, Fabi A, Pace A. The Role of PET [18F]FDOPA in Evaluating Low-grade Glioma. Anticancer Res. 2015;35(9):5117-22.
PROFESSIONAL MEMBERSHIPS	Member of AIFM- Associazione Italiana di Fisica Medica

Date

28/02/2020

Signature