europass

Giacomo Feliciani

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WORK EXPERIENCE

31/10/2020 – CURRENT – Bologna, Italy
PHD CANDIDATE PHYSICS – UNIVERSITY OF BOLOGNA

12/02/2017 – CURRENT
MEDICAL PHYSICIST – ISTITUTO SCIENTIFICO ROMAGNOLO PER LO STUDIO E LA CURA DEI TUMORI (IRST), IRCCS

- Radiotherapy and brachytherapy planning
- Diffusing alpha emission radiation therapy: participation to the international first in man clinical trial N.CTP-SCC-00
- Research in predictive models based on machine learning techniques

Address Meldola

14/03/2016 – 31/10/2016
JUNIOR RESEARCHER – MAASTRO CLINIC

- Research on radiation treatment outcome on head and neck cancer patients through Radiomics analysis
- Horizon 2020 - PHC-30-2015 BD2DECIDE Big Data and models for personalized Head and Neck Cancer Decision support
- Research and develop of a dedicated phantom for Radiomics Research
- Commissioning of Varian TrueBeam

Address Maastricht, Netherlands

16/12/2010 – 29/09/2011
MEDICAL PHYSICIST – UNIVERSITY OF BOLOGNA

-Hemodynamics measurements (strain gauge plethysmography)
-Angiography imaging Quality Assurance
-Dose assessment in interventional cardiology
Corazza et al*, Mechanical aspects of CO2 angiograph*y, Physica Medica (2013) 29, 33-38
Bianchini et al *Carbon dioxide angiography simulation of operative conditions for diagnostic image optimization J. Mech. Med. Biol.* (2015) 15

Address Bologna, Italy

02/11/2015 – 14/03/2016
MEDICAL PHYSICIST - VOLOUTARY FREQUENCY – IRST - ISTITUTO ROMAGNOLO PER LO STUDIO E LA CURA DEI TUMORI

- Radiomics implementation in research for head and neck and glioblastoma multiforme
- Development of a phantom for quality assurance for an MR guided High Focused Ultrasound System

Address Meldola, Italy

30/09/2011 – 01/10/2015

SCHOOL OF SPECIALIZATION IN MEDICAL PHYSICS (INTERNSHIP IN HOSPITAL) – UNIVERSITY OF BOLOGNA

-Research in Radiomics field: phantom studies (CT and PET) and clinical application (Head and Neck cancer, Hodgkin Lymphoma, Glyoblastoma - MRI)
-Research and quality assurance in CT (dose modulation protocols, quality assurance measurement, Monte Carlo FLUKA code simulations for dose assessment) and MRI (DWI, Phase Contrast-MRI) techniques,
-Dose assessment in radiomethabolic therapy (SPECT/CT based)
-Nuclear Medicine quality assurance procedures
- Radiotherapy treatment planning: external beams (Varian TrueBeam, Tomotherapy) and brachytherapy (Nucleotron)

Address Bologna, Italy

04/08/2013 – 04/12/2013

MEDICAL PHYSICIST – ACADEMISCH MEDISCH CENTRUM (AMC) - INTERNSHIP

- Research on the hemodynamics of intracranial aneurysms
Feliciani et al, *Multi-scale 3D+t Intracranial Aneurysmal Flow Vortex Detection,* IEEE Trans. Biomed. Eng. (2015) *62, 1355-62*

Address Amsterdam, Netherlands

ESPERTO QUALIFICATO II GRADO

EDUCATION AND TRAINING

30/09/2011 – 09/09/2015 – Bologna, Italy

MEDICAL PHYSICS EXPERT – University of Bologna

Address Bologna, Italy | **Level in EQF** EQF level 8

16/10/2008 – 16/12/2010 – Bologna, Italy

MASTER DEGREE IN MEDICAL PHYSICS – University of Bologna

Final Score 110/110 with Honours

Address Bologna, Italy | **Level in EQF** EQF level 7

31/08/2005 – 16/10/2008 – Bologna, Italy

BACHELOR DEGREE IN PHYSICS – University of Bologna

Final Score 110/110 with Honours

Address Bologna, Italy | **Level in EQF** EQF level 6

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	B1	B2	B1	B1	B1
DUTCH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Publications

- Feliciani et al, *The Role of a DirectDensity® CT Reconstruction in a Radiotherapy Workflow: A Phantom Study, Appl Sci (2022)*
- Feliciani et al, *Radiomics Analysis on [68Ga]Ga-PSMA-11 PET and MRI-ADC for the Prediction of Prostate Cancer ISUP Grades: Preliminary Results of the BIOPSTAGE Trial, Cancers (2022)*
- Feliciani et al, *A New Approach for a Safe and Reproducible Seeds Positioning for Diffusing Alpha-Emitters Radiation Therapy of Squamous Cell Skin Cancer: A Feasibility Study, Cancers (2022)*
- Sarnelli et al*, Modelling a new approach for radio-ablation after resection of breast ductal carcinoma in-situ based on the BAT-90 medical device. Sci Rep (2022)*
- Feliciani et al, *An annotated T2-weighted magnetic resonance image collection of testicular germ and non-germ cell tumors,* Sci. Data. (2021)
- Felciiani et al, *The potential role of MR based radiomic biomarkers in the characterization of focal testicular lesions*, Sci Rep (2021)
- Popovtzer et al, *Initial Safety and Tumor Control Results From a "First-in-Human" Multicenter Prospective Trial Evaluating a Novel Alpha-Emitting Radionuclide for the Treatment of Locally Advanced Recurrent Squamous Cell Carcinomas of the Skin and Head and Neck, November 2019 International journal of radiation oncology, biology, physics 106(3)*

- *Bellia, S.R., Feliciani et al, Clinical evidence of abscopal effect in cutaneous squamous cell carcinoma treated with diffusing alpha emitters radiation therapy: a case report, September 2019 Journal of Contemporary Brachytherapy 11(5):1-9*

- Feliciani et al*, Radiomic Profiling of Head and Neck Cancer: 18 F-FDG PET Texture Analysis as Predictor of Patient Survival, September 2018 Contrast Media & Molecular Imaging 2018*
- Sarnelli et al, *Efficiency and calibration factors for continuous monitoring systems of airborne radioactivity in ducts: Monte Carlo, analytical and experimental approaches compared*, May 2018 Radiation Physics and Chemistry 151
- Larue et al, *Influence of gray level discretization on radiomic feature stability for different CT scanners, tube currents and slice thicknesses: a comprehensive phantom study, September 2017 Acta oncologica (Stockholm, Sweden) 56(11):1-10*
- Feliciani et al, *Cold pressor test using strain-gauge plethysmography,* September 2016 AJP Advances in Physiology Education 40(3):410-417

- Feliciani et al, *Multi-scale 3D+t Intracranial Aneurysmal Flow Vortex Detection,* IEEE Trans. Biomed. Eng. (2015) *62, 1355-62*

- Bianchini et al *Carbon dioxide angiography simulation of operative conditions for diagnostic image optimization J. Mech. Med. Biol.* (2015) 15

- Corazza et al*, Mechanical aspects of CO2 angiograph*y, Physica Medica (2013) 29, 33-38

JOB-RELATED SKILLS

Job-related skills

-Expert of Brachytherapy and external beam TPS
-Expert MATLAB programmer in particular for medical imaging manipulation and advanced statistical tools.
-Expert in medical imaging CT, NMR, PET techniques.
-Expert in quality assurance in radiological (EQ I grado) and nuclear medicine environment
-Expert in Monte Carlo simulations (FLUKA) for dose assessment in radiology.
-Expert in standard Dose Assessment procedures both in Radiology and Nuclear Medicine
-Good knownledge of basic electronics and circuitery (OP-amp , acquisition systems)