

PERSONAL INFORMATION

Nicola Belcari



(work) Dipartimento di Fisica "E. Fermi", Largo B. Pontecorvo, 3 – 56127 Pisa,

Italy



Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

01/11/2016 - present

Associate Professor (SSD FIS/07)

Università di PISA - Dipartimento di FISICA "E.Fermi"

▪ Medical physics / Molecular imaging

01/11/2010 – 30/10/2016

Researcher

Università di PISA - Dipartimento di FISICA "E.Fermi"

▪ Medical physics / Molecular imaging

01/02/2007 – 31/01/2010

Researcher (art. 1 del D.Lgs 368/01) (Ricercatore in Formazione)

Università di PISA - Dipartimento di FISICA "E.Fermi"

▪ Medical physics / Molecular imaging

EDUCATION AND TRAINING

December 2003

PhD in Applied Physics

Scuola di Dottorato "Galileo Galilei" – Università di Pisa, Pisa, Italy

Thesis title: Development of a Positron Emission Mammography scanner for breast cancer detection

March 1999

Laurea in Physics

Università degli Studi di Pisa, Facoltà di Scienze Matematiche, Fisiche e Naturali, Pisa, Italy

Thesis title: Stati Collettivi e Pairing Isoscalare nei Nuclei con $N \approx Z$ Studiati con lo Spettrometro γ EUROBALL

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English (fluent)

LEADERSHIP IN INTERNATIONAL PROJECTS (last 5 years)

Project	UTOPET: Ultra-Time-of-Flight Positron Emission Tomography
Funded by	EU (ERANET-Cofund PhotonicSensing Consortium)
Years	2018-2021
Role	Principal Investigator
Project	TRIMAGE: A combined trimodality (PET/MR/EEG) imaging tool for schizophrenia
Funded by	European Community - FP7 Framework Program
Years	2013-2018
Role	Work package leader

LEADERSHIP IN NATIONAL PROJECTS (last 5 years)

Project	JRU Multi-sited Multi-Modal Molecular Imaging (MMMI)
Funded by	MIUR (FOE)
Years	2015-present
Role	Local responsible for the Physics Department and member of the General Assembly of the JRU

Job-related skills	His activity has been mainly focused on the development of new radiation detectors and their application to in-vivo molecular imaging. These applications have been focused on the construction of positron emission tomography (PET) systems dedicated to pre-clinical imaging (PET/CT), brain imaging (PET/MR) and monitoring of hadrontherapy treatments. One of his major research achievements is the development of the PET component of the TRIMAGE PET/MR/EEG brain scanner which will be installed at the AOUP Cisanello in Pisa in 2021 under his responsibility.
Digital skills	Radiation detectors and data acquisition electronics
Other skills	Technology transfer. He is responsible of 2 contracts for the development of small animal PET/CT scanners now commercially distributed. He holds three patents in the field of PET & CT imaging.

ADDITIONAL INFORMATION

Publications >150 (H-index = 25)

Publications (peer-reviewed, selected as being relevant to the proposed project, last 5 years)	<p>Monte Carlo Characterization of the Trimage Brain PET System L Masturzo, P Carra, PA Erba, M Morrocchi, A Pilleri, G Sportelli, N Belcari Journal of Imaging 8 (2), 21 (2022)</p> <p>Design and Detector Performance of the PET Component of the TRIMAGE PET/MR/EEG Scanner Camarlinghi N, Sportelli G, Del Guerra A, Belcari N Physics in Medicine and Biology 63 (19) (2018)</p> <p>Cerenkov luminescence imaging: physics principles and potential applications in biomedical sciences Clarrochi E, Belcari N EJNMMI Physics 4 (11) (2017)</p> <p>Medical applications of silicon photomultipliers Bisogni MG; Del Guerra A; Belcari N Nucl. Instr. Meth. Phys. Res. A 926 118-128 (2019)</p> <p>NEMA NU-4 performance evaluation of the IRIS PET/CT preclinical scanner N Belcari et al. IEEE Transactions on Radiation and Plasma Medical Sciences 1 (4), 301-309 (2017)</p>
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