

Curriculum Vitae Europass

Personal information

Name **ROBERTA MATHEOUD**
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Nationality Italian
Date of birth [REDACTED]

WORK EXPERIENCE

Date	1994-2002
Name and address of employer	OSPEDALE MAGGIORE POLICLINICO – V.Sforza, 28 MILAN, Italy
Type of business or sector	Healthcare
Occupation or position held	Medical physicist for nuclear medicine
Main activities and responsibilities	Quality Controls in Nuclear Medicine and Radiology, Dosimetry in radiometabolic therapy
Date	2002-2025
Name and address of employer	AOU Maggiore della Carità, C.so Mazzini, 18 - Novara
Type of business or sector	Healthcare
Occupation or position held	Medical physics expert for nuclear medicine: Quality Controls and radionuclide internal dosimetry for I131 and Y90-microsphere radiometabolic treatments
Main activities and responsibilities	Medical physics expert with responsibility for 'Quality controls in Nuclear Medicine', Medical physics expert with responsibility for 'Safety in Magnetic Resonance' for the following MR sites: - University Hospital Maggiore della Carità, Ingenia Philips 3T and Ingenia 1.5T - ASL Novara, Ambition Philips 1.5T - ASL VCO, Siemens Aera 1.5T Radiation Protection Expert for Nuclear Medicine and Medical Physics Departments of University Hospital Maggiore della Carità, Novara, Italy Radiation Protection Expert for ASL Novara, Novara Italy
Date	2005-2025
	Teaching in "Quality controls in Nuclear Medicine", graduate course for Medical Radiology Technologists, University of Eastern Piedmont "A.Avogadro", Novara
Date	2015-2017
	Teaching in "Physics in magnetic resonance instrumentation", graduate course for Medical Radiology Technologists, University of Eastern Piedmont "A.Avogadro", Novara
Date	2009-2025
	Teaching in "Quality controls and clinical dosimetry in nuclear medicine" Specialization School for Medical Physics, University of Turin
Date	2021-2025
	Teaching in "Radiation protection II" Master in Medical Physics at ICTP, University of Trieste Teaching in "Physics in Nuclear Medicine III" Master in Medical Physics at ICTP, University of Trieste

Reviewer activity for the European Journal of Medical Physics, Journal of Nuclear Cardiology
Associate Editor for the European Journal of Medical Physics from 1/1/2018
Associate Editor for the British Journal of Radiology from 2025

EDUCATION AND TRAINING

Date 1992-1995
Name and type of organisation providing education and training Università degli Studi di Milano, Milan, Italy
Principal subjects/occupational skills covered Specialization school in Medical physics
Title of qualification awarded Medical physicist

Date 1987-1992
Name and type of organisation providing education and training Università degli Studi di Milano, Milan, Italy
Principal subjects/occupational skills covered Nuclear Physics
Title of qualification awarded Physicist

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE **Italian**

OTHER LANGUAGES **English, French**

Skills	Reading	Verbal	Writing
English	C1	C1	C1
French	A1	A1	A1

ADDITIONAL INFORMATION Main author/coauthor of 61 articles, coauthor of textbooks
Author of more than 50 lectures

HOBBY Water colors, diy and crafts, trekking, travels

Publications

Coupling motor evoked potentials and brain [¹⁸F]FDG-PET in Amyotrophic Lateral Sclerosis: preliminary findings on disease severity. Tondo G, Mazzini L, Caminiti SP, Gallo C, **Matheoud R**, Comi C, Sacchetti GM, Perani D, De Marchi F. Neurobiol Dis. 2024 Jun 25;199:106579. doi: 10.1016/j.nbd.2024.106579. Online ahead of print. PMID: 38936435

Effective and organ doses in patient undergoing interventional neuroradiology procedures: A multicentre study. D'Alessio A, Stocchi S, Dalmaso F, Cannillo B, **Matheoud R**, Ponzetti A, Aimonetto S, Cernigliaro M, Azzalin G, Giorgianni A, Natrella M, Carriero A, Guzzardi G, Brambilla M. Phys Med. 2024 Jun;122:103383. doi: 10.1016/j.ejmp.2024.103383. Epub 2024 May 28. PMID: 38810393

Role of Flex-Dose Delivery Program in Patients Affected by HCC: Advantages in Management of Tare in Our Experience. Paladini A, Spinetta M, **Matheoud R**, D'Alessio A, Sassone M, Di Fiore R, Coda C, Carriero S, Biondetti P, Laganà D, Minici R, Semeraro V, Sacchetti GM, Carrafiello G, Guzzardi G. J Clin Med. 2024 Apr 10;13(8):2188. doi: 10.3390/jcm13082188. PMID: 38673461

Optimisation of protection in the medical exposure of recurrent adult patients due to computed tomography procedures: development of recurrent exposures reference levels.

Bramilla M, Berton L, Balzano RF, Cannillo B, Carriero A, Chauvie S, Gallo T, Cornacchia S, Cutaia C, D'Alessio A, Emanuele R, Fonio P, **Matheoud R**, Stasi M, Talenti A, Rampado O. *Eur Radiol.* 2024 Jul;34(7):4475-4483. doi: 10.1007/s00330-023-10520-7. Epub 2023 Dec 21. PMID: 38127075

Cumulative radiation exposure from radiological imaging in patients with Hodgkin and diffuse large b-cell lymphoma not submitted to radiotherapy.

Brambilla M, **Matheoud R**, Margiotta-Casaluci G, Cannillo B, D'Alessio A, Siciliano C, Carriero A, Gaidano G. *Br J Radiol.* 2023 Sep;96(1149):20230106. doi: 10.1259/bjr.20230106. Epub 2023 Jul 26. PMID: 37493259

Evaluation of operator eye exposure and eye protective devices in interventional radiology: Results on clinical staff and phantom.

D'Alessio A, **Matheoud R**, Cannillo B, Guzzardi G, Galbani F, Galbiati A, Spinetta M, Stanca C, Tettoni SM, Carriero A, Brambilla M. *Phys Med.* 2023 Jun;110:102603. doi: 10.1016/j.ejmp.2023.102603. Epub 2023 May 11. PMID: 37178623

Impact of patient's habitus on image quality and quantitative metrics in 18F-FDG PET/CT images.

Zorz A, D'Alessio A, Guida F, Ramadan RM, Richetta E, Cuppari L, Pellerito R, Sacchetti GM, Brambilla M, Paiusco M, Stasi M, **Matheoud R**. *Phys Med.* 2023 Apr 13;109:102584. doi: 10.1016/j.ejmp.2023.102584. Online ahead of print.

EFOMP's protocol quality controls in PET/CT and PET/MR.

Matheoud R, Boellaard R, Pike L, Ptacek J, Reynés-Llompart G, Soret M, Vandenberghe S, Zorz A, Julyan P, Rausch I, Sattler B, Manuel SG, Tosi G, Dalianis K, Almeida PMD, Fabbri C, Gawel J, Hadjitheodorou P, Kotzasarlidou M, Viana Miranda Lima T, O'Doherty J, Skovorodko K, Sutov D, Taher A, Valenti M, Vanzi E. *Phys Med.* 2023 Jan;105:102506. doi: 10.1016/j.ejmp.2022.11.010. Epub 2022 Dec 18. PMID: 36538846

Clinical relevance of single-subject brain metabolism patterns in amyotrophic lateral sclerosis mutation carriers.

Tondo G, Mazzini L, Caminiti SP, Sarnelli MF, Corrado L, **Matheoud R**, D'Alfonso S, Cantello R, Sacchetti GM, Perani D, Comi C, De Marchi F. *Neuroimage Clin.* 2022 Oct 5;36:103222. doi: 10.1016/j.nicl.2022.103222. Online ahead of print. PMID: 36223668

Quality control in PET/CT and PET/MRI: Results of a survey amongst European countries.

Reynés-Llompart G, Zorz A, Boellaard R, Ptáček J, Pike L, Soret M, Vandenberghe S, **Matheoud R**. *Phys Med.* 2022 Jul;99:16-21. doi: 10.1016/j.ejmp.2022.05.004. Epub 2022 May 20. PMID: 35598481

Application of a smart [18F] FDG-PET adaptive threshold segmentation algorithm for the biological target volume delineation in head and neck cancer.

Deantonio L, Vigna L, Paolini M, **Matheoud R**, Sacchetti GM, Masini L, Loi G, Brambilla M, Krengli M. *Q J Nucl Med Mol Imaging.* 2022 Mar 3. doi: 10.23736/S1824-4785.22.03405-7. Online ahead of print. PMID: 35238518

Cumulative radiation doses due to nuclear medicine examinations: a systematic review. Brambilla M, Kuchcinska A, **Matheoud R**, Muni A, *BJR* 2021; 94:20210444, <https://doi.org/10.1259/bjr.20210444>

The role of activity, scan duration and patient's body mass index in the optimization of FDG imaging protocols on a TOF-PET/CT scanner.

Matheoud R, Al-Maymani N, Oldani A, Sacchetti GM, Brambilla M, Carriero A. *EJNMMI Phys.* 2021 Apr 6;8(1):35. doi: 10.1186/s40658-021-00380-9.

Ionizing radiation exposure from dialysis tunneled catheters procedures: European directive and legal implications.

De Mauri A, **Matheoud R**, Guzzardi G, Vaccarone V, David P, Brambilla M, Chiarinotti D. *J Vasc Access.* 2021 Mar 14;11297298211001141. doi: 10.1177/11297298211001141. Online ahead of print.

Patients undergoing multiphase CT scans and receiving a cumulative effective dose of ≥ 100 mSv in a single episode of care.

Brambilla M, Cannillo B, D'Alessio A, **Matheoud R**, Agliata MF, Carriero A. *Eur Radiol.* 2021 Jan 15. doi: 10.1007/s00330-020-07665-0. Online ahead of print.

Optimal ^{99m}Tc activity ratio in the single-day stress-rest myocardial perfusion imaging protocol: A multi-SPECT phantom study.

Zoccarato O, **Matheoud R**, Lecchi M, Scabbio C, Claudio M, Brambilla M. *J Nucl Cardiol.* 2021 Feb;28(1):338-349. doi: 10.1007/s12350-020-02290-2. Epub 2020 Jul 27.

Chauvie S, Bergesio F, De Ponti E, Morzenti S, De Maggi A, Ragazzoni M, Chiesa C, **Matheoud R**. The impact of time-of-flight, resolution recovery, and noise modelling in reconstruction algorithms in non-solid-state detectors PET/CT scanners: - multi-centric comparison of activity recovery in a ^{68}Ge phantom. *Phys Med* 2020 Jul;75:85-91. doi: 10.1016/j.ejmp.2020.06.002. Epub 2020 Jun 16.

Brambilla M, Cannillo B, Guzzardi G, D'Alessio A, Galbiati A, **Matheoud R**, Carriero A. Conversion factors for effective dose and organ doses with the air kerma area product in patients undergoing percutaneous transhepatic biliary drainage and trans arterial chemoembolization. *Phys Med.* 2020 Mar 13;72:7-15. doi: 10.1016/j.ejmp.2020.03.003. [Epub ahead of print]

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- Zoccarato O, Marcassa C, Lizio D, Leva L, Lucignani G, Savi A, Scabbio C, **Matheoud R**, Lecchi M, Brambilla M. Differences in polar-map patterns using the novel technologies for myocardial perfusion imaging. *J Nucl Cardiol.* 2017 Oct;24(5):1626-1636. doi: 10.1007/s12350-016-0500-9. Epub 2016 May 27. PMID: 27233252
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- Zoccarato O, Scabbio C, De Ponti E, Matheoud R, et al Comparative analysis of iterative reconstruction algorithms with resolution recovery for cardiac SPECT studies. A multi-center phantom study. *J Nucl Cardiol.* 2014 Feb;21(1):135-48. doi: 10.1007/s12350-013-9821-0. Epub 2013 Nov 23.
- Ridone S, Matheoud R, Valzano S, Di Martino R, Vigna L, Brambilla M. Permeability of gloves used in nuclear medicine departments to [(99m)Tc]-pertechnetate and [(18)F]-fluorodeoxyglucose: Radiation protection considerations. *Phys Med.* 2013 Sep;29(5):545-8. doi: 10.1016/j.ejmp.2013.01.005. Epub 2013 Feb 15. PubMed PMID: 23419926.
- Leva L, Brambilla M, Matheoud R, Vigna L, Marino P, Inglese E. The relationship between quantitative perfusion and functional results and acquisition time with reduced administered activity for 99mTc tetrofosmin myocardial gated-SPECT. *Clin Nucl Med.* 2012 Jul;37(7):e162-9. doi: 10.1097/RLU.0b013e31823ea42c. PubMed PMID: 22691526.
- De Mauri A, Brambilla M, Izzo C, Matheoud R, Chiarinotti D, Carriero A, Stratta P, De Leo M. Cumulative radiation dose from medical imaging in kidney transplant patients. *Nephrol Dial Transplant.* 2012 Sep;27(9):3645-51. doi: 10.1093/ndt/gfs145. Epub 2012 May 22. PubMed PMID: 22619314.
- Leva L, Brambilla M, Cavallino C, Matheoud R, Occhetta E, Marino P, Inglese E. Reproducibility and variability of global and regional dyssynchrony parameters derived from phase analysis of gated myocardial perfusion SPECT. *Q J Nucl Med Mol Imaging.* 2012 Apr;56(2):209-17. Epub 2012 Mar 9. PubMed PMID: 22402788.
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- Matheoud R, Goertzen AL, Vigna L, Ducharme J, Sacchetti G, Brambilla M. Five-year experience of quality control for a 3D LSO-based whole-body PET scanner: results and considerations. *Phys Med.* 2012 Jul;28(3):210-20. doi: 10.1016/j.ejmp.2011.07.002. Epub 2011 Jul 23. PubMed PMID: 21784686.
- Matheoud R, Della Monica P, Loi G, Vigna L, Krengli M, Inglese E, Brambilla M. Influence of reconstruction settings on the performance of adaptive thresholding algorithms for FDG-PET image segmentation in radiotherapy planning. *J Appl Clin Med Phys.* 2011 Jan 30;12(2):3363. PubMed PMID: 21587182.
- De Mauri A, Brambilla M, Chiarinotti D, Matheoud R, Carriero A, De Leo M. Estimated radiation exposure from medical imaging in hemodialysis patients. *J Am Soc Nephrol.* 2011 Mar;22(3):571-8. doi: 10.1681/ASN.2010070784. Epub 2011 Feb 25. PubMed PMID: 21355057; PubMed Central PMCID: PMC3060450.
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Matheoud R, Secco C, Ridone S, Inglese E, Brambilla M. The use of molecular sieves to simulate hot lesions in (18)F-fluorodeoxyglucose--positron emission tomography imaging. *Phys Med Biol.* 2008 Apr 21;53(8):N137-48. doi: 10.1088/0031-9155/53/8/N03. Epub 2008 Apr 1. PubMed PMID: 18379022.

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Inglese E, Leva L, Matheoud R, Sacchetti G, Secco C, Gandolfo P, Brambilla M, Sambuceti G. Spatial and temporal heterogeneity of regional myocardial uptake in patients without heart disease under fasting conditions on repeated whole-body 18F-FDG PET/CT. *J Nucl Med.* 2007 Oct;48(10):1662-9. Epub 2007 Sep 14. PubMed PMID: 17873124.

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Matheoud R, Reschini E, Canzi C, Voltini F, Gerundini P. Potential third-party radiation exposure from outpatients treated with 131I for hyperthyroidism. *Med Phys.* 2004 Dec;31(12):3194-200. PubMed PMID: 15651602.

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Bonetti R, Chiesa C, Guglielmetti A, Matheoud R, Poli G, Mikheev VL, Tretyakova SP. First observation of spontaneous fission and search for cluster decay of 232Th. *Phys Rev C Nucl Phys.* 1995 May;51(5):2530-2533. PubMed PMID: 9970335.

Price PB, Bonetti R, Guglielmetti A, Chiesa C, Matheoud R, Migliorino C, Moody KJ. Emission of 23F and 24Ne in cluster radioactivity of 231Pa. *Phys Rev C Nucl Phys.* 1992 Nov;46(5):1939-1945. PubMed PMID: 9968312

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del DLgs 193/2003 e all'art. 13 del GDPR 679/16.

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