

# Curriculum Vitae Europass

## Personal information

Name **ROBERTA MATHEOUD**  
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Nationality Italian  
Date of birth 18/7/68

## 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 2002-2013  
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 physicist for nuclear medicine  
Main activities and responsibilities Responsibility for 'Quality controls in Nuclear Medicine' and 'Safety in Magnetic Resonance'

Date 2005-2013  
Teaching in "Quality controls in Nuclear Medicine", graduate course for Medical Radiology Technologists, University of Eastern Piedmont "A.Avogadro"

Date 2009-2013  
Teaching in "Health instrumentation and biomedical technologies I" Specialization school for Medical Physics, University of Turin

Reviewer activity for Medical Physics, Radiotherapy and Oncology, Journal of Nuclear Medicine

## 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 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
<b>English</b>	C1	C1	C1
<b>French</b>	A1	A1	A1

**ADDITIONAL INFORMATION** | Main author/coauthor of 34 articles, coauthor of textbooks, author of 30 lectures

**HOBBY** | Water colors, diy and crafts, trekking

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. 2016 May 27.

Stecco A, Buemi F, Cassarà A, Matheoud R, Sacchetti GM, Arnulfo A, Brambilla M, Carriero A. Comparison of retrospective PET and MRI-DWI (PET/MRI-DWI) image fusion with PET/CT and MRI-DWI in detection of cervical and endometrial cancer lymph node metastases. Radiol Med. 2016 Jul;121(7):537-45.

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Zoccarato O, Lizio D, Savi A, Indovina L, Scabbio C, Leva L, Del Sole A, Marcassa C, Matheoud R, Lecchi M, Brambilla M. Comparative analysis of cadmium-zincum-telluride cameras dedicated to myocardial perfusion SPECT: A phantom study. J Nucl Cardiol. 2016 Aug;23(4):885-93.

Brambilla M, Matheoud R, Basile C, Bracco C, Castiglioni I, Cavedon C, Cremonesi M, Morzenti S, Fioroni F, Giri M, Botta F, Gallivanone F, Grassi E, Pacilio M, De Ponti E, Stasi M, Pasetto S, Valzano S, Zanni D., An Adaptive Thresholding Method for BTV Estimation Incorporating PET Reconstruction Parameters: A Multicenter Study of the Robustness and the Reliability. Comput Math Methods Med. 2015;2015:571473.

Matheoud R, Ferrando O, Valzano S, Lizio D, Sacchetti G, Ciarmiello A, Foppiano F, Brambilla M. Performance comparison of two resolution modeling PET reconstruction algorithms in terms of physical figures of merit used in quantitative imaging. Phys Med. 2015 Jul;31(5):468-75.

Brambilla M, De Mauri A, Lizio D, Matheoud R, De Leo M, Carriero A. Estimated radiation risk of cancer from medical imaging in haemodialysis patients. Nephrol Dial Transplant. 2014 Sep;29(9):1680-6.

Matheoud R, Giorgione R, Valzano S, Sacchetti G, Colombo E, Brambilla M. Minimum acceptable sensitivity of intraoperative gamma probes used for sentinel lymph node detection in melanoma patients. Phys Med. 2014 Nov;30(7):822-6.

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.

Magnani A, Matheoud R, Brambilla M, Valzano S, Occhetta E, Marino P, Balbo P. In vitro tests of electromagnetic interference of electromagnetic navigational bronchoscopy to implantable cardioverter defibrillators. *Europace*. 2012 Jul;14(7):1054-9. doi: 10.1093/eupace/eur417. Epub 2012 Jan 25. PubMed PMID: 22277644.

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.

Matheoud R, Leva L, Secco C, Sacchetti G, Monica PD, Brambilla M, Inglese E. Small lesions detectability with the Biograph 16 Hi-Rez PET/CT scanner and fast imaging protocols: performance evaluation using an anthropomorphic thoracic phantom and ROC analyses. *Ann Nucl Med*. 2011 Apr;25(3):179-88. doi: 10.1007/s12149-010-0437-z. PubMed PMID: 21061189.

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Matheoud R, Della Monica P, Secco C, Loi G, Krengli M, Inglese E, Brambilla M. Influence of different contributions of scatter and attenuation on the threshold values in contrast-based algorithms for volume segmentation. *Phys Med*. 2011 Jan;27(1):44-51. doi: 10.1016/j.ejmp.2010.02.003. Epub 2010 Apr 15. PubMed PMID: 20399128.

Matheoud R, Secco C, Della Monica P, Leva L, Sacchetti G, Inglese E, Brambilla M. The effect of activity outside the field of view on image quality for a 3D LSO-based whole body PET/CT scanner. *Phys Med Biol*. 2009 Oct 7;54(19):5861-72. doi: 10.1088/0031-9155/54/19/013. Epub 2009 Sep 17. PubMed PMID: 19759405.

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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.

Brambilla M, Matheoud R, Secco C, Sacchetti G, Comi S, Rudoni M, Carriero A, Inglese E. Impact of target-to-background ratio, target size, emission scan duration, and activity on physical figures of merit for a 3D LSO-based whole body PET/CT scanner. *Med Phys*. 2007 Oct;34(10):3854-65. PubMed PMID: 17985631.

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.

Reschini E, Ferrari C, Castellani M, Matheoud R, Paracchi A, Marotta G, Gerundini P. The trapping-only nodules of the thyroid gland: prevalence study. *Thyroid*. 2006 Aug;16(8):757-62. PubMed PMID: 16910877.

Brambilla M, Secco C, Dominiotto M, Matheoud R, Sacchetti G, Inglese E. Performance characteristics obtained for a new 3-dimensional lutetium oxyorthosilicate-based whole-body PET/CT scanner with the National Electrical Manufacturers Association NU 2-2001 standard. *J Nucl Med*. 2005 Dec;46(12):2083-91. PubMed PMID: 16330574.

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Tissue-specific dosimetry for radioiodine therapy of the autonomous thyroid nodule. *Med Phys*. 2003 May;30(5):791-8. PubMed PMID: 12772986.

Reschini E, Matheoud R, Canzi C, Castellani M, Galelli M, Ferrari C, Paracchi

A, Gerundini P. Dosimetry study in patients with autonomous thyroid nodule who are candidates for radioiodine therapy. *J Nucl Med*. 1999 Nov;40(11):1928-34. PubMed PMID: 10565791.

Matheoud R, Zito F, Canzi C, Voltini F, Gerundini P.

Changes in the energy response of a dedicated gamma camera after exposure to a high-flux irradiation. *Phys Med Biol*. 1999 Jun;44(6):N129-35. PubMed PMID: 10498509.

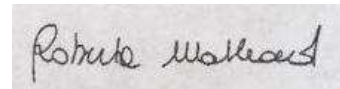
Bonetti R, Chiesa C, Guglielmetti A, Matheoud R, Poli G, Mikheev VL,

Tretyakova SP. First observation of spontaneous fission and search for cluster decay of  $^{232}\text{Th}$ . *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  $^{23}\text{F}$  and  $^{24}\text{Ne}$  in cluster radioactivity of  $^{231}\text{Pa}$ . *Phys Rev C Nucl Phys*. 1992 Nov;46(5):1939-1945. PubMed PMID: 9968312

Novara, October 26th 2016

A rectangular box containing a handwritten signature in black ink. The signature appears to read "Roberto Matheoud".