

Curriculum Vitae



General Information

Name	Pavol Szomolanyi, PhD.
Address	Skolska 8/A, SK-90028 Ivanka pri Dunaji
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E-mail	pavol.szomolanyi@meduniwien.ac.at
Nationality	Slovak
Year and place of birth	1966 in Bratislava, Slovakia

Education

Dates	February 2007
Occupational skills covered	IDEA Sequence Programming
Name of educational organization	Siemens A.G., Vienna, Austria
Dates	1991-1996
Title of qualification awarded	PhD
Principal occupational skills covered	Doctoral studies in the field of MRI
Dissertation thesis	Contribution to the evaluation of static magnetic field homogeneity in the experimental NMR tomography
Name of educational organization	Faculty of Electrotechnics and Informatics, Slovak Technical University
Dates	1985-1990
Title of qualification awarded	Dipl. Ing.
Principal occupational skills covered	Faculty of Electrotechnic
Dissertation thesis	Post-processing of EEG signal
Name of educational organization	Slovak technical University, Faculty of Electrotechnics, Department of Radioelectronics, Specialization: Medical Electronics
Dates	1981-1985
Title of qualification awarded	High school education
Name of educational organization	Gymnasium Vazovova, Bratislava, Slovakia

Work experience

Dates	2016 - presence
Occupation	MR researcher
Main activities and responsibilities	Development of novel MRI diagnostic techniques
Name and address of employer	High Field MR Center, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Austria
Head	Univ. Prof. Dr. Siegfried Trattnig
Sector	Research in Human Healthcare
Dates	May 2012- Dec 2015

Occupation	MR researcher
Main activities and responsibilities	Testing of novel MRI diagnostic techniques in cartilage transplant tissue evaluation
Name and address of employer	Siemens Austria, AG., Siemensstraße, Vienna,
Head	Dr. Fauland
Sector	Cartilage transplants in human medicine
Dates	Nov. 2004-April 2012
Occupation	MR researcher
Main activities and responsibilities	Human knee cartilage - MRI biochemical and biomechanical quantitative techniques
Name and address of employer	High Field MR Center, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Austria
Head	Univ. Prof. Dr. Siegfried Trattnig
Sector	Research in Human Healthcare
Dates	2002-2004
Occupation	MR researcher
Main activities and responsibilities	Subchondral bone and cartilage MR imaging using high-resolution morphological techniques
Name and address of employer	Università degli studi di Trieste, Dipartimento di biophysica, biochimica e chimica delle macromolecole, Laboratory of High Field MR
Head	Prof. Franco Vittur, Dr. Renato Toffanin
Sector	Ex-vivo bone-cartilage plugs of OA patients
Dates	2000-2002
Occupation	MR researcher
Main activities and responsibilities	SPRITE technique applied to material science
Name and address of employer	Department of Physics, University of New Brunswick, Fredericton, New Brunswick, Canada
Head	Prof. Dr. Bruce J. Balcom
Sector	Material science by MRI
Dates	1997-2000
Occupation	MR researcher
Main activities and responsibilities	Subchondral bone and cartilage MR imaging using high-resolution morphological techniques
Name and address of employer	Università degli studi di Trieste, Dipartimento di Biophysica, Biochimica e Chimica delle macromolecole, Department of High Field MRI
Head	Prof. Franco Vittur, Dr. Renato Toffanin
Sector	Ex-vivo bone-cartilage plugs of OA patients
Dates	1991-1996
Occupation	External doctoral student
Main activities and responsibilities	Design and construction of low field (0.1Tesla) MR scanner
Name and address of employer	Institute of measurement Science, Slovak Academy of Sciences, Dubravská cesta 9, 84104 Bratislava, Slovakia
Head	Prof. Ivan Frollo, DrSc.
Sector	MR diagnostic technique development

Personal skills

Mother tongue Slovak

Other Languages: Self-assessment

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production		Writing	
English	C1	expert	C1	expert	C1	expert	C1	advanced	B2	expert
German	A1	basic	A1	basic	A1	basic	A1	basic	A1	basic
Italian	A1	basic	A1	basic	A1	basic	A1	basic	A1	basic
Russian	C1	expert	C1	expert	C1	expert	C1	advanced	B2	expert

Social skills and competences Daily interaction in multicultural scientific environment

Technical skills and competences Advances users skills of Siemens MR scanners
Active participation in the "laboratory build" low field (0.1 Tesla) MR scanner development

Computer skills and competences MS Windows (administration level) , Apple (user level), Linux (user level) , IDL programming, DICOM processing - JiveX, ImageJ, MS Office.

Teaching activities Teaching at the Medical University of Vienna (Journal Club)
Teaching at the Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia (basic course of MR imaging and spectroscopy)

Membership in organizations Member of International Society for Magnetic Resonance Medicine
Member of International Cartilage repair Society
Member of European Society of Radiology

Review for Journals Osteoarthritis and Cartilage
Investigative Radiology
European Radiology
Journal of Magnetic Resonance Imaging
magma - Magnetic Resonance Materials in Physics, Biology and Medicine