

CURRICULUM VITAE

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HIGHER EDUCATION:

1987-1992: HTL for Electrical Engineering
1992-1998: Study of Technical Physics at the University of Technology Vienna
03/1995-2002: Study of Medicine at the University of Vienna
25.09.1998: M.Sc.-Degree (Dipl.-Ing.) in Technical Physics
10.10.2001: Ph.D.-Degree (Dr. techn.), University of Technology Vienna
Foreign language: English (fluent), German (native)
Computer Knowledge: Unix, Linux, Windows, MacOSX and various applications
Programming: C, C++, IDEA, IDL, Matlab, bash, Basic, Pascal, Fortran

EMPLOYMENT HISTORY:

06/1996-12/2003: Research assistant at the Institute for Medical Physics at the University of Vienna
08/1996: Employed at the department of Medical Engineering of
SIEMENS Program- and System development, Vienna
1996-1998: Tutor at the Institute of Anatomy at the University of Vienna
1998-1999: Tutor at the Institute of Medical Physics at the University of Vienna
1999-2000: Lecturer at the Institute of Medical Physics at the University of Vienna
02/2003-01/2004: Civil service at the ENT-department, General Hospital Vienna
since 2004: Lecturer at the Center for Biomedical Engineering and Physics at the Medical
University of Vienna
since 2004: Lecturer for functional MRI at the “Applied MR Course, Advanced Techniques” of
the ESMRMB School of MRI courses
08/2004-09/2005: Research assistant at the Center for Biomedical Engineering and Physics, Medical
University of Vienna
10/2005-11/2006: Research assistant at the Department of Psychiatry, Medical University of Vienna
12/2006-10/2007: Research assistant at the Center for Biomedical Engineering and Physics, Medical
University of Vienna
11/2007-6/2008: Assistant Professor at the Center for Biomedical Engineering and Physics, Medical
University of Vienna
since 7/2008: Habilitation in “Medical Physics”; Associate Professor for Medical Physics at the
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BIBLIOMETRICS (OCTOBER 6, 2014)

Overall Impact Factor sum (Research Gate):	<u>561.86</u>
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EDITORIAL BOARD

Brain Connectivity
Frontiers in Brain Imaging Methods (Review Editor)
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PUBLICATIONS:

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- P2) Sedivy R, Windischberger C: Fractal analysis of a breast carcinoma – presentation of a modern morphometric method. Wien Med Wochenschr 148(14):335-337, 1998
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- P5) Erdler M, Beisteiner R, Mayer D, Kaindl T, Edward M, Windischberger C, Lindinger G, Deecke L: Supplementary motor activation preceding voluntary movement is detectable with a whole-scalp magnetoencephalography system. Neuroimage 11:697-707, 2000

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- P7) Edward V, Windischberger C, Cunnington R, Erdler M, Mayer D, Endl W, Beisteiner R: Quantification of fMRI artifact reduction by a novel plaster cast head holder. *Human Brain Mapping* 11(3): 207-213, 2000
- P8) Windischberger C, Moser E, Barth M: Fuzzy Cluster Analysis of Functional MRI Data. in Adlassnig K-P (ed.) "Fuzzy Diagnostic and Therapeutic Decision Support", 2000
- P9) Alexander ME, Baumgartner R, Summers AR, Windischberger C, Klarhöfer M, Moser E, Somorjai RL: A Wavelet-Based Method for Improving Signal-to-Noise Ratio in MR Images. *Magn Reson Imaging* 18:169-180, 2000
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- P11) Alexander ME, Baumgartner R, Windischberger C, Moser E, Somorjai RL: Wavelet Domain De-Noising in MR Image Sequences. *Magn Reson Imaging* 18:1129-1134, 2000
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- P13) Beisteiner R, Windischberger C, Lanzenberger R, Edward V, Cunnington R, Erdler M, Gartus A, Streibl B, Moser E, Deecke L: Finger Somatotopy in Human Motor Cortex. *Neuroimage* 13:1016-1026, 2001
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- P31) Cunnington R, Windischberger C, Moser E: Premovement activity of the pre-supplementary motor area and the readiness for action: studies of time-resolved event-related functional MRI. *Hum Mov Sci*, 24:644-56, 2005
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- P33) Lamm C, Windischberger C, Moser E, Bauer H: The functional role of premotor areas during mental rotation – an event-related functional magnetic resonance imaging study. *Neuroimage*, 36:1374-1386, 2007
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- P57) Sladky R, Baldinger P, Kranz GS, Tröstl J, Höflich A, Lanzenberger R, Moser E, Windischberger C. High-resolution functional MRI of the human amygdala at 7T. *Eur J Radiol*, in press

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- P72) Votinov M, Pripfl J, Windischberger C, Kalcher K, Zimprich A, Zimprich F, Moser E, Lamm C, Sailer U. A genetic polymorphism of the endogenous opioid dynorphin modulates monetary reward anticipation in the corticostriatal loop. *PLoS One*. 2014 Feb 25;9(2):e89954.

- P73) Scharinger C, Rabl U, Kasess CH, Meyer BM, Hofmaier T, Diers K, Bartova L, Pail G, Huf W, Uzelac Z, Hartinger B, Kalcher K, Perkmann T, Haslacher H, Meyer-Lindenberg A, Kasper S, Freissmuth M, Windischberger C, Willeit M, Lanzenberger R, Esterbauer H, Brocke B, Moser E, Sitte HH, Pezawas L. Platelet serotonin transporter function predicts default-mode network activity. *PLoS One*. 2014 Mar 25;9(3):e92543.
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- P78) Kranz GS, Hahn A, Kaufmann U, Küblböck M, Hummer A, Ganger S, Seiger R, Winkler D, Swaab D, Windischberger C, Kasper S, Lanzenberger R. White matter microstructure in transsexuals and controls investigated by diffusion tensor imaging. *Journal of Neuroscience* 2014 [2013, IF: 6.747]; in press

INVITED PRESENTATIONS:

- I1) Metabolische Bildgebung. MR-Symposion - Vienna, 1999
- I2) Funktionelle Magnetresonanz bei 3 Tesla. Atomic Institute, University of Vienna – Vienna, 2000
- I3) EPI-BOLD based fMRI at 3 Tesla. Scientific Retreat – Gössing, 2002
- I4) Acquisition and Analysis of fMRI at 3 Tesla. University of Melbourne – Melbourne, 2003
- I5) “Movies” of human motor cortex activity. Brain Research Institute, University of Vienna – Vienna, 2004
- I6) Brain Activity Movies (BAM): Dynamische funktionelle MRT bei 3 Tesla. 4th Austrian fMRT-Symposium, Medical University of Vienna – Vienna, 2004
- I7) Functional MRI in deep brain regions. University of Melbourne – Melbourne, 2005
- I8) High-field MR methodology in psychiatric applications. DGPPN – Berlin, 2005
- I9) Emotion processing and the amygdala: influencing factors and clinical implications: 5th Austrian fMRT-Symposium – Salzburg, 2005
- I10) Hochfeld-MR Methoden in der Psychiatrie. Winter Seminar on Biological Psychiatry – Oberlech, 2006
- I11) High-field high-resolution fMRI in Vienna – the first decade. 214th PTB seminar on the occasion of the 10th anniversary of 3-T MR at PTB – Berlin, 2006
- I12) Pharmacological fMRI: CoE scientific retreat – Semmering, 2006
- I13) Konnektivitätsanalyse mittels DCM im kortikalen Motorsystem. 6th Austrian fMRT-Symposium – Innsbruck, 2006
- I14) Pharmacological fMRI of the limbic system comparing escitalopram and Citalopram. Winter Seminar on Biological Psychiatry – Oberlech, 2007
- I15) Functional MRI. Neurobiologie der Psychotherapie – Munich, 2007
- I16) Slice-timing correction revisited – WTCN, London, 2010
- I17) High-Resolution Resting-State Connectivity at 7 Tesla – 2nd Biennial Conference on Resting-state Brain Connectivity, Milwaukee, 2010

- I18) Differences in the modulatory role of escitalopram and citalopram revealed by effective connectivity analysis – Oberlech, 2011
- I19) Intersubject variability in BOLD-response amplitude is predicted by local low-frequency fluctuations – 3rd Biennial Conference on Resting-state Brain Connectivity, Magdeburg, 2012
- I20) Novel coil concepts for high-field and multimodal MR imaging – Danish Centre for Magnetic Resonance, Hvidovre Hospital, Copenhagen, 2013
- I21) RESCALE revisited – 4th Biennial Conference on Resting-state Brain Connectivity, Boston, 2014

BOOK CHAPTERS

- B1) Lamm C, Windischberger C, Moser E, Bauer H: “Functional relevance of motor areas during mental rotation” in Chen FJ “Trends in Brain Mapping Research”, Nova Publishers, 2006
- B2) Hoheisel B, Habel U, Windischberger C, Robinson S, Kryspin-Exner I, Gur RC: “Die Rolle der Amygdala für die Emotionserkennung in Gesichtern“ in Gula B, Alexandrowicz R, Strauß S, Brunner E, Jenull-Schiefer B, Vitouch O “Perspektiven psychologischer Forschung in Österreich”, Lengerich: Pabst, 2006
- B3) Windischberger C, Bogner W, Gruber S, Moser E: „Funktionelle und metabolische Bildgebung: Physikalische Grundlagen, Auswertung und Analyse“ in Schiepek G „Neurobiologie der Psychotherapie“, Schattauer, 2011

PUBLISHED SCIENTIFIC PRESENTATIONS:

- A1) Windischberger C, Barth M, Moser E: Dreidimensionale funktionelle Magnetresonanz-Bildgebung des Gehirns bei 3 Tesla. *Meeting of the Austrian Society for Medical Physics, ÖPG - Vienna, 1997*
- A2) Berg A, Windischberger C, Moser E: Quality assessment for MRI on a high magnetic field whole body imaging system. *World Congress on Medical Physics and Biomedical Engineering - Nice, 1997*
- A3) Sedivy R, Windischberger C, Kohlberger P, Svolzil K, Breitenacker G: Fractal Dimension - a new mathematical tool for the characterization of cervical epithelium. *Fakultätsvorlesung AKH Wien, 1998*
- A4) Windischberger C, Beisteiner R, Edward V, Kaindl T, Erdler M, Moser E: Resolution enhanced Echo Planar Imaging at 3 Tesla. *Biomag - Sendai, 1998*
- A5) Beisteiner R, Windischberger C, Edward V, Kaindl T, Erdler M, Moser E: How do data analysis techniques influence neuronal localization with fMRI? A comparison of Fuzzy Cluster and Correlation Analysis regarding hand motor somatotopy. *Biomag - Sendai, 1998*
- A6) Edward V, Beisteiner R, Langenberger W, Barth M, Windischberger C, Kaindl T, Erdler M, Moser E: Analysis of visual stimulation data obtained during high resolution functional MR Imaging (HIFI) using Fuzzy Cluster Analysis (FCA) and a nonlinear motion-artifact reduction algorithm. *Biomag - Sendai, 1998*
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