

Dr. Peter Sörös

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Current position

2008 - Assistant Professor in Neuroimaging (Tenure-Track) — Department of Communication Sciences & Disorders, University of South Carolina, SC, U.S.A.

Education

1995 M.D. — Hannover Medical School, Hannover, Germany

Professional License & Qualifications

2002 Certified Neurologist — German Board of Physicians.

2001 Certificate in electromyography — German Society for Clinical Neurophysiology and Functional Imaging.

1995 Doctoral Thesis (Dr. med.) — Department of Gastroenterology, Hepatology, and Endocrinology, Hannover Medical School, Hannover, Germany. Supervisor: Professor Dr. M. J. Müller. Published as: Sörös P, Böttcher J, Maschek H, Selberg O, Müller MJ. Lipoprotein-X in patients with cirrhosis: its relationship to cholestasis and hypercholesterolemia. *HEPATOLOGY* 1998;28:1199-1205.

Appointments

2008 - University of South Carolina, SC, U.S.A. — Assistant Professor in Neuroimaging (Tenure-Track), Department of Communication Sciences & Disorders.

2008 University of Western Ontario, London, ON, Canada — Appointment as Assistant Professor (Tenure-track) at the School of Communication Sciences & Disorders (declined).

2007 - 2008 University of Western Ontario, London, ON, Canada — Postdoctoral Fellow with Dr. R. Martin, School of Communication Sciences & Disorders. Investigating swallowing-related brain activity in younger and older adults and in patients with stroke using fMRI (*HUMAN BRAIN MAPPING* 2009; *NEUROSCIENCE* 2008;153: 1300-1308), in cooperation with the Imaging Research Laboratories at the Robarts Research Institute (Dr. R.

Menon) and the Clinical Neurological Sciences, University of Western Ontario (Dr. V. Hachinski).

- 2004 - 2006 Sunnybrook Health Sciences Centre, Toronto, ON, Canada — Postdoctoral Fellow with Dr. S. Graham, Department of Imaging Research and Centre for Stroke Recovery. Working on the neural basis of speech production and vibrotactile processing (BMC NEUROSCIENCE 2007;8:48).
- 2002 - 2004 The Rotman Research Institute, Toronto, ON, Canada — Postdoctoral Fellow with Dr. D. Stuss and Dr. C. Pantev. Investigating the neural basis of speech production using fMRI (NEUROIMAGE 2006;32: 376-387). Working on cortical auditory processing and the cortical control of swallowing using MEG (NEUROIMAGE 2003;20:135-144).
- 2001 University of Münster, Department of Psychiatry, Münster, Germany — Resident. Working at an acute care unit and the outpatient clinic. Investigating auditory processing in healthy individuals and in patients with depression using MEG and MR spectroscopy (BMC BIOLOGY 2006;4:25).
- 1999 Helsinki University of Technology, Brain Research Unit, Low Temperature Laboratory, Helsinki, Finland — Research Fellow with Dr. Riitta Hari and Dr. Riitta Salmelin. Investigating the cortical processing of nouns and verbs in healthy individuals and in stroke patients using MEG (NEUROIMAGE 2003;19:1787-1801).
- 1996 - 2000 University of Münster, Department of Neurology, Münster, Germany — Resident. Working at acute care units, the stroke unit, the intensive care unit, the clinical electrophysiology / EEG lab, and in the headache outpatient clinic (NEUROLOGY 2003;60:1542-1543). Collaboration with the Institute for Experimental Audiology (Dr. B. Lütkenhöner), investigating somatosensory and auditory processing with MEG (NEUROLOGY 2006;67:1059-1061).
- 1995 - 1996 University of Erlangen, Department of Neurology, Erlangen, Germany — Research Fellow with Dr. J. Vieth. Using magnetoencephalography to study evoked magnetic fields (in comparison with fMRI) and spontaneous brain activity.

Grants & Awards

ONGOING GRANTS

- 2009 Research Opportunity Program, University of South Carolina — Principal Investigator, "Neural plasticity in healthy aging", University of South Carolina, Columbia, SC, U.S.A. (Grant # 11560-09-21444)

COMPLETED GRANTS AND AWARDS

- 2009 German Academic Exchange Service, Germany — Travel award
- 2002 - 2007 Heart and Stroke Foundation of Ontario, Toronto, ON, Canada — Research Fellowship at the Centre for Stroke Recovery, Rotman Research Institute and Sunnybrook Health Sciences Centre.

- 2004 -2007 National Alliance for Medical Image Computing (NARMIC) — Co-investigator, fMRI of anxiety disorder (together with Dr. J. Kennedy, Centre for Addiction and Mental Health, Toronto, ON, Canada).
- 2003 Baycrest Centre, Toronto, ON, Canada — Jack and Rita Catherall Award.
- 2002 German Research Foundation (DFG) — Co-investigator, infrastructure grant for installing a whole-head MEG system at the University of Münster (together with Dr. C. Pantev, Institute for Experimental Audiology, University of Münster, Germany)
- 1999 European Union, Neuro-BIRCH Large-Scale Facility Programme — Visiting Scientist, Brain Research Unit, Low Temperature Laboratory, Helsinki, Finland.
- 1997 Innovative Medical Research, Faculty of Medicine, University of Münster, Germany — Principal investigator, "Chronifizierung von Schmerzen durch cerebrale Plastizität", Department of Neurology and Biomagnetism Centre, University of Münster, Germany (Grant # Sö-1-1-I/97-8).
- 1997 Heart and Stroke Centre Münster — Travel award for visiting the MGH NMR Center in Boston, MA, U.S.A.
- 1988 - 1994 German National Merit Foundation (Studienstiftung des Deutschen Volkes) — University Scholarship.

Clinical Experience

NEUROLOGY

General neurological units
 General outpatient clinic (6 months full-time)
 Headache outpatient clinic (9 months full time and 24 months in addition to other clinical duties)

CLINICAL NEUROPHYSIOLOGY

EMG / NCS / EP laboratory (9 months full-time), EEG laboratory (12 months part-time, more than 1000 EEGs read)

INTENSIVE CARE

ICU (9 months full-time) and Stroke Unit (9 months full-time), performing
 Invasive and non-invasive ventilation
 Cardiopulmonary reanimation
 Central vein cannulation, femoral vein and artery access
 Carotid, vertebral and transcranial ultrasound

PSYCHIATRY

Psychiatric unit for acute psychotic patients (12 months full-time), electroconvulsive therapy (more than 80)

Research Skills

MAGNETIC RESONANCE IMAGING

Experience with 3 Tesla Siemens and General Electrics systems, including implementation of experimental paradigms and data acquisition.

Software used for the analysis of functional and structural MRI: FSL (fMRI), AFNI (fMRI), BrainVoyager, (fMRI), FreeSurfer (structural MRI), PLS (analysis of connectivity), GingerALE (quantitative meta-analysis of neurofunctional data), MRIcron (lesion symptom mapping).

- 2007 - Participation in the Advanced BrainVoyager Course, London, ON, Canada.
- 2006 - Participation in the FSL Course, Siena, Italy.
- 2006 - Participation in the PLS Workshop, Toronto, ON, Canada.
- 1997 - Participation in the fMRI Visiting Fellowship, MGH NMR Center, Boston, MA, U.S.A.

MAGNETOENCEPHALOGRAPHY

Experience with all major MEG systems (Neuromag, CTF, BTi), including implementation of experimental paradigms and data acquisition.

Software used for the analysis of MEG data: programs provided by Neuromag and CTF (including synthetic aperture magnetometry - SAM).

OPERATING SYSTEMS & PROGRAMMING

Operating Systems: Mac OS X, Unix, Linux, Windows.

Software: Statistical language R, Matlab, Unix shell scripting, AppleScript, LaTeX

LANGUAGES

German (native language), English (fluent), French, Spanish, Latin, Greek.

Societies

- 2009 - European Neurological Society, member of the Cerebrovascular Disorders and Higher Cortical Functions subcommittees.
- 2009 - Dysphagia Research Society.
- 2006 - Organization for Human Brain Mapping.
- 2000 - Society for Neuroscience.
- 2000 - German Society for Clinical Neurophysiology and Functional Imaging.
- 1999 - German Society for Neurology.

Patent Application

- 2008 - Swallowing Air-Pulse Therapy (SWAPT) - Effects of Air-Pulse Stimulation on Brain Activation (with Dr. R. Martin, Department of Communication Sciences & Disorders, University of Western Ontario, London, ON, Canada).

Publications & Talks

JOURNAL ARTICLES (42 PAPERS; 38 LISTED IN PUBMED)

- 2009 Sörös P, Bose A, Sokoloff LG, Graham SJ, Stuss DT. Age-related changes in the functional neuroanatomy of overt speech production. *Neurobiology of Aging* 2009 (in press). *IF* = 5.96
- 2009 Sörös P, Teismann IK, Manemann E, Lütkenhöner B. Auditory temporal processing in healthy aging: a magnetoencephalographic study. *BMC NEUROSCIENCE* 2009;10:34. [Abstract](#) *IF* = 2.85
- 2009 Sörös P, Inamoto Y, Martin RE. Functional brain imaging of swallowing: An activation likelihood estimation meta-analysis. *HUMAN BRAIN MAPPING* 2009;30:2426-39. [Abstract](#) *IF* = 5.4
- 2008 Sörös P. Tourette syndrome, ADHD, and the limbic system: investigating the pathophysiology. *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY* 2008;50:486. *IF* = 2.56
- 2008 Sörös P, Lalone E, Smith R, Stevens T, Theurer J, Menon R, Martin R. Functional MRI of oropharyngeal air-pulse stimulation. *NEUROSCIENCE* 2008;153:1300-1308. [Abstract](#) *IF* = 3.56
- Artwork from this publication was selected as [cover image](#) for volume 153, issue 4 (2nd of June 2008) of *NEUROSCIENCE*.
- 2008 Sörös P, Böttcher J, Weissenborn K, Selberg O, Müller MJ. Malnutrition and hypermetabolism are not risk factors for the presence of hepatic encephalopathy: a cross-sectional study. *JOURNAL OF GASTROENTEROLOGY AND HEPATOLOGY* 2008;23:606-610. [Abstract](#) *IF* = 2.28
- 2007 Sörös P, Marmurek J, Tam F, Baker N, Staines WR, Graham SJ. Functional MRI of working memory and selective attention in vibrotactile frequency discrimination. *BMC NEUROSCIENCE* 2007; 8:48. [Abstract](#) *IF* = 2.85
- 2006 Sörös P, Dzielwas R, Manemann E, Teismann IK, Lütkenhöner B. No indication of brain reorganization after unilateral ischemic lesions of the auditory cortex. *NEUROLOGY* 2006;67:1059-1061. [Abstract](#) *IF* = 7.04
- 2006 Sörös P, Michael N, Tollkötter M, Pfeiderer B. The neurochemical basis of human cortical auditory processing: Combining proton magnetic resonance spectroscopy and magnetoencephalography. *BMC BIOLOGY* 2006;4:25. [Abstract](#) *IF* = 4.73
- 2006 Sörös P, Sokoloff LG, Bose A, McIntosh AR, Graham SJ, Stuss DT. Clustered functional MRI of overt speech production. *NEUROIMAGE* 2006;32:376-387. [Abstract](#) *IF* = 5.69
- 2006 Tollkötter M, Pfeiderer B, Sörös P, Michael N. Effects of antidepressive therapy on auditory processing in severely depressed patients: A combined MRS and MEG study. *JOURNAL OF PSYCHIATRIC RESEARCH* 2006;40:293-306. [Abstract](#) *IF* = 4.68
- 2005 Sörös P, Vo O, Gerding H, Husstedt IW, Evers S. Enucleation and development of cluster headache: a retrospective study. *BMC NEUROLOGY* 2005;5:6. [Abstract](#) *IF* = 2.78
- 2005 Dzielwas R, Sörös P, Ishii R, Chau W, Henningsen H, Ringelstein EB, Knecht S, Pantev C. Cortical processing of esophageal sensation is related to the representation of swallowing. *NEUROREPORT* 2005;16:439-443. [Abstract](#) *IF* = 1.9

- 2004 Böttcher J, Petrovitch A, Sörös P, Malich A, Hussein S, Kaiser WA. Conjoined lumbosacral nerve roots: current aspects of diagnosis. *EUROPEAN SPINE JOURNAL* 2004;13: 147-151. [Abstract](#) *IF* = 2.51
- 2004 Michael N, Ostermann J, Sörös P, Schwindt W, Pfeleiderer B. Altered habituation in the auditory cortex in a subgroup of depressed patients by functional magnetic resonance imaging. *NEUROPSYCHOBIOLOGY* 2004;49:5-9. [Abstract](#) *IF* = 1.75
- 2004 Teismann IK, Sörös P, Manemann E, Ross B, Pantev C, Knecht S. Responsiveness to repeated speech stimuli persists in left but not right auditory cortex. *NEUROREPORT* 2004;15:1267-1270. [Abstract](#) *IF* = 1.9
- 2004 Ishii R, Dziewas R, Chau W, Sörös P, Okamoto H, Gunji A, Pantev C. The generator of MEG sleep spindle. *BRAIN AND COGNITION* 2004;54:157-159. *IF* = 2.44
- 2003 Sörös P, Vo O, Husstedt IW, Evers S, Gerding H. Phantom eye syndrome: Its prevalence, phenomenology, and putative mechanisms. *NEUROLOGY* 2003;60:1542-1543. [Abstract](#) *IF* = 7.04
- 2003 Sörös P, Cornelissen K, Laine M, Salmelin R. Naming actions and objects: cortical dynamics in healthy adults and in an amonic patient with a dissociation in action/object naming. *NEUROIMAGE* 2003;19:1787-1801. [Abstract](#) *IF* = 5.69
- 2003 Dziewas R, Kellinghaus C, Sörös P. The principle of double-effect in a clinical context. *POIESIS & PRAXIS* 2003;1:211-218.
- 2003 Ishii R, Dziewas R, Chau W, Sörös P, Okamoto H, Gunji A, Pantev C. Current source density distribution of sleep spindles in humans as found by synthetic aperture magnetometry. *NEUROSCIENCE LETTERS* 2003;340:25-28. [Abstract](#) *IF* = 2.2
- 2003 Dziewas R, Sörös P, Ishii R, Chau W, Henningsen H, Ringelstein EB, Knecht S, Pantev C. Neuroimaging evidence for cortical involvement in the preparation and in the act of swallowing. *NEUROIMAGE* 2003;20:135-144. [Abstract](#) *IF* = 5.69
- 2003 Dziewas R, Sörös P, Konrad C, Stögbauer F, Lüdemann P. Placing nasogastric tubes and intracranial pressure. *JOURNAL OF NEUROSURGICAL ANESTHESIOLOGY* 2003;15:55-56. [Abstract](#) *IF* = 2.33
- 2003 Gerding H, Vo O, Husstedt IW, Evers S, Sörös P. Phantomschmerz nach Enucleatio bulbi. *OPHTHALMOLOGE* 2003;100:943-949. [Abstract](#) *IF* = 1.13
- 2002 Dziewas R, Sörös P, Henningsen H. Informed Consent im klinischen Alltag - eine pragmatische Interpretation. *ETHIK IN DER MEDIZIN* 2002;14:151-159.
- 2002 Dziewas R, Lüdemann P, Sörös P, Henningsen H. Neue Wege in der Diagnostik der schlaganfall-assoziierten Dysphagie. *KLINISCHE NEUROPHYSIOLOGIE* 2002;33:84-87.
- 2001 Sörös P, Frese A, Husstedt IW, Evers S. Cluster headache after dental extraction: implications for the pathogenesis of cluster headache? *CEPHALALGIA* 2001;2:619-622. *IF* = 3.69
- 2001 Sörös P, Evers S. Symptomatischer Clusterkopfschmerz – Klinik, Diagnostik und mögliche Pathogenese. *NERVENHEILKUNDE* 2001;20:370-374.

- 2001 Sörös P, Knecht S, Bantel C, Imai T, Wüsten R, Pantev C, Lütkenhöner B, Bürkle H, Henningsen H. Functional reorganization of the human primary somatosensory cortex after acute pain demonstrated by magnetoencephalography. *NEUROSCIENCE LETTERS* 2001;298:195-198. [Abstract](#) *IF* = 2.2
- 2001 Lüdemann P, Dziewas R, Sörös P, Happe S, Frese A. Axonal polyneuropathy in obstructive sleep apnoea. *JOURNAL OF NEUROLOGY, NEUROSURGERY, AND PSYCHIATRY* 2001;70:685-687. [Abstract](#) *IF* = 4.62
- 2001 Dziewas R, Sörös P. Einwilligungsfähigkeit als relationales Modell – klinische Praxis und medizinethische Analyse: Stellungnahme zur Arbeit von J. Vollmann. *NERVENARZT* 2001;72:570-571. *IF* = 0.81
- 2000 Stippich C, Kassubek J, Kober H, Sörös P, Vieth JB. Time course of focal slow wave activity in transient ischemic attacks and transient global amnesia as measured by magnetoencephalography. *NEUROREPORT* 2000;11:3309-3313. [Abstract](#) *IF* = 1.9
- 1999 Sörös P, Knecht S, Imai T, Gürtler S, Lütkenhöner B, Ringelstein EB, Henningsen H. Cortical asymmetries of the human somatosensory hand representation in right- and left-handers. *NEUROSCIENCE LETTERS* 1999;271:89-92. [Abstract](#) *IF* = 2.2
- 1999 Kassubek J, Sörös P, Kober H, Stippich C, Vieth JB. Focal slow and beta brain activity in patients with multiple sclerosis revealed by magnetoencephalography. *BRAIN TOPOGRAPHY* 1999;11:193-200. [Abstract](#) *IF* = 1.18
- 1998 Sörös P, Böttcher J, Maschek H, Selberg O, Müller MJ. Lipoprotein-X in patients with cirrhosis: its relationship to cholestasis and hypercholesterolemia. *HEPATOLOGY* 1998;28:1199-1205. [Abstract](#) *IF* = 11.36
- 1998 Brilla R, Evers S, Sörös P, Husstedt IW. Hemicrania continua in an HIV-infected outpatient. *CEPHALALGIA* 1998;18:287-288. *IF* = 3.69
- 1998 Knecht S, Sörös P, Gürtler S, Imai T, Ringelstein EB, Henningsen H. Phantom sensations following acute pain. *PAIN* 1998;77:209-213. [Abstract](#) *IF* = 6.03
- 1998 Stippich C, Freitag P, Kassubek J, Sörös P, Kamada K, Kober H, Scheffler K, Hopfengärtner R, Bilecen D, Radü EW, Vieth JB. Motor, somatosensory and auditory cortex localization by fMRI and MEG. *NEUROREPORT* 1998;9:1953-1957. [Abstract](#) *IF* = 1.9
- 1998 Evers S, Voss H, Bauer B, Sörös P, Husstedt IW. Peripheral autonomic potentials in primary headache and drug-induced headache. *CEPHALALGIA* 1998;18:216-221. [Abstract](#) *IF* = 3.69
- 1998 Evers S, Masur H, Sörös P, Brilla R, Husstedt IW. Prostaglandin analog mechanisms are not effective in refractory chronic cluster headache. *HEADACHE* 1998;38:618-620. [Abstract](#) *IF* = 3.08
- 1997 Evers S, Sörös P, Brilla R, Gerding H, Husstedt IW. Cluster headache after orbital exenteration. *CEPHALALGIA* 1997;17:680-682. [Abstract](#) *IF* = 3.69

JOURNAL ARTICLES — SUBMITTED

- 2010 Sörös P, MacIntosh B, Tam F, Graham SJ. fMRI-compatible registration of jaw movements using a fiber-optic bend sensor. *FRONTIERS IN HUMAN NEUROSCIENCE* (under revision).

BOOK CHAPTERS

- 1999 Sörös P, Evers S, Frese A. Cluster headache after iatrogenic lesions of the head. In: Olesen J (ed.). *Cluster Headache and Related Conditions*. Oxford University Press 1999.
- 1999 Evers S, Frese A, Sörös P, Buchheister A, Suhr B, Husstedt I.W. Involvement of cognitive processing in cluster headache. In: Olesen J (ed.). *Cluster Headache and Related Conditions*. Oxford University Press 1999, pp. 201 - 206.

SELECTED ORAL PRESENTATIONS

- 2009 Sörös P. Changes of brain function in healthy aging. — Geriatric Conference, University of South Carolina School of Medicine, Columbia, SC, U.S.A.
- 2009 Sörös P. Meta-analysis of functional neuroimaging data: Generating hypotheses for future research. — Department of Psychology, University of South Carolina, Columbia, SC, U.S.A.
- 2009 Sörös P. Basic principles of fMRI. — University of South Carolina School of Medicine, Columbia, SC, U.S.A.
- 2009 Sörös P. Functional neuroimaging of overt speech production. — Institute of Medical Psychology, University of Frankfurt, Frankfurt / Main, Germany.
- 2009 Sörös P. Functional neuroimaging and the neural correlates of mind. — Department of Philosophy, University of South Carolina, Columbia, SC, U.S.A.
- 2008 Sörös P, Lalone E, Smith R, Stevens T, Theurer J, Menon R, Martin R. Functional MRI of oropharyngeal air-pulse stimulation. — Dysphagia Research Society 2008, Charleston, SC, U.S.A. [PDF](#)
- 2008 Sörös P, Inamoto Y, Martin R. Functional brain imaging of swallowing: An activation likelihood meta-analysis. — Dysphagia Research Society 2008, Charleston, SC, U.S.A. [PDF](#)
- 2006 Sörös P, Functional imaging of speech production. — Ontario Aphasia Interest Group Teleconference, Toronto, ON, Canada. [PDF](#)
- 2006 Sörös P. Functional imaging of speech production. — School of Communication Sciences & Disorders, University of Western Ontario, London, ON, Canada.
- 2006 Sörös P. Words don't come easy ... — Department of Psychiatry, University of Würzburg, Germany.
- 2006 Sörös P. Words don't come easy ... The neural correlates of speech production. — Centre for Addiction and Mental Health, Toronto, ON, Canada. [PDF](#)
- 2002 Sörös P. The auditory short-term decrement: characteristics and interindividual variability. —

Rotman Research Institute, Toronto, ON, Canada. [PDF](#)

2002 Sörös P. The cortical topography of swallowing. — Rotman Research Institute, Toronto, ON, Canada. [PDF](#)

2000 Sörös P, Kiviniemi K, Laine M, Salmelin R. Individual cortical dynamics during action vs. object naming. — Society for Neuroscience, New Orleans, LA, U.S.A.

2000 Sörös P. Hemisphärenasymmetrie der zeitlichen Auflösung im auditorischen Kortex? — 73rd annual meeting of the German Society for Neurology, Baden-Baden, Germany.

2000 Sörös P. Reorganization of the somatosensory system after acute and chronic pain. — Wake Forest University, Winston-Salem, NC, U.S.A.

1997 Sörös P. Bedeutung von Schmerzen für die Organisation und Reorganisation des sensiblen Kortex. — Münsteraner Neurowissenschaftliches Symposium, University of Münster, Germany.

SELECTED POSTER ABSTRACTS

2009 Sörös P, Brewer A, Sörös C. Age-related changes in the cerebral control of movements: An activation likelihood estimation meta-analysis. 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, U.S.A.

2009 Sörös P, Inamoto Y, Martin R. Functional brain imaging of swallowing: An activation likelihood meta-analysis. *KLINISCHE NEUROPHYSIOLOGIE* 2009. — 53rd annual meeting of the German Society for Neurophysiology and Functional Imaging, Munich, Germany.

2006 Sörös P, Guttman Sokoloff L, Bose A, McIntosh AR, Graham SJ, Stuss DT. Clustered fMRI of speech production. — 12th International Conference on Functional Mapping of the Human Brain, Florence, Italy. [PDF](#)

2006 Sörös P, Guttman Sokoloff L, Bose A, McIntosh AR, Graham SJ, Stuss DT. Age-related reorganization of the functional neuroanatomy of speech production. — 12th International Conference on Functional Mapping of the Human Brain, Florence, Italy. [PDF](#)

2006 Sörös P, Tam F, Graham SJ. MR-compatible registration of speech-related movements using a bend sensor. — 12th International Conference on Functional Mapping of the Human Brain, Florence, Italy. [PDF](#)

2006 Sörös P, Burianova H, Laird L, Grady C, Graham SJ, Leonard C, Rochon E. Reproducibility of phonologic and semantic processing in fMRI. — 12th International Conference on Functional Mapping of the Human Brain, Florence, Italy.

2003 Sörös P, Dziewas R, Manemann E, Teismann I, Ringelstein EB, Pantev C. Auditory processing in monohemispheric cortical stroke. — 33rd Annual Meeting of the Society for Neuroscience, New Orleans, LA, USA.

2002 Sörös P, Teismann I, Manemann E, Michael N, Pfeiderer B, Ross B, Pantev C. Interindividual and interhemispheric differences of brain function: An MEG study of auditory short-term adaptation. — BIOMAG 2002, Jena, Germany.

- 2001 Sörös P, Knecht S, Teismann I, Manemann E, Imai T, Lütkenhöner B, Pantev C. Hemispheric asymmetry of the auditory short-term habituation: speech vs. non-speech sounds. *NEUROIMAGE* 2001;13:S940 — 7th International Conference on Functional Mapping of the Human Brain, Brighton, UK.
- 2000 Sörös P, Knecht S, Manemann E, Teismann I, Imai T, Lütkenhöner B, Pantev C. Hemispheric asymmetries for auditory short-term habituation of tones? In: *PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON BIOMAGNETISM*. Edited by Nenonen J, Ilmoniemi RJ, Katila T. Espoo: Helsinki University of Technology 2001:47-49. — 12th International Conference on Biomagnetism, Espoo, Finland. [PDF](#)
- 1999 Sörös P, Knecht S, Bantel C, Imai T, Wüsten R, Lütkenhöner B, Bürkle H, Henningsen H. Reorganization of the primary somatosensory cortex after acute pain. *NEUROIMAGE* 1999;9:S828 — 5th International Conference on Functional Mapping of the Human Brain, Düsseldorf, Germany. [PDF](#)
- 1999 Sörös P, Knecht S, Gürtler S, Evers S, Pantev C, Lütkenhöner B, Henningsen H, Ringelstein EB. Reorganization of the primary somatosensory cortex during a cluster headache attack. *NEUROIMAGE* 1998;7:S489 — 4th International Conference on Functional Mapping of the Human Brain, Montreal, QC, Canada.
- 1998 Sörös P, Knecht S, Deppe M, Lohmann H, Pantev C, Lütkenhöner B, Henningsen H. Cortical somatosensory hand area representations assessed by MEG: Interhemispheric differences in right-handed individuals. *NEUROIMAGE* 1998;5:S201 — 3rd International Conference on Functional Mapping of the Human Brain, Copenhagen, Denmark.
- 1996 Sörös P, Kassubek J, Stippich C, Kamada K, Kober H, Hopfengärtner R, Vieth JB. Spontaneous magnetic activity in healthy volunteers: normative data. *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY* 1996;99:334 — 8th European Congress of Clinical Neurophysiology, Munich, Germany.
- 1996 Sörös P, Kassubek J, Stippich C, Freitag P, Kamada K, Kober H, Hopfengärtner R, Bilecen D, Scheffler K, Radü EW, Vieth JB. Auditory evoked activity in functional brain imaging: comparison of magnetic source imaging and functional magnetic resonance tomography. *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY* 1996;99:334 — 8th European Congress of Clinical Neurophysiology, Munich, Germany.
- 1995 Sörös P, Selberg O, Müller MJ. Prevalence of dyslipoproteinemias in patients with liver disease: impact of cause, clinical stage and nutritional status. *PROCEEDINGS OF THE NUTRITION SOCIETY* 1995;54:78A — Le Symposium Lavoisier, Paris, France.

Media Coverage

- 2003 Sörös P, Vo O, Husstedt IW, Evers S, Gerding H. Phantom eye syndrome: Its prevalence, phenomenology, and putative mechanisms. *NEUROLOGY* 2003;60:1542-1543.
- Verlust des Auges kann Phantomschmerz verursachen. www.neuroschmerz.de
 - Phantomschmerz zeigt sich nicht nur an Gliedmaßen. www.augen-und-mehr.de
 - Phantomschmerz macht auch vorm Auge nicht halt. www.aerztezeitung.de
- 2001 Sörös P, Frese A, Husstedt IW, Evers S. Cluster headache after dental extraction: implications

for the pathogenesis of cluster headache? *CEPHALALGIA* 2001;21:619-622.

- Tooth extraction may trigger severe headaches. www.healthypages.net
- Goodbye Tooth, Hello Headache. www.smile-on.com
- Tooth extractions may trigger headaches. www.doctorbob.com
- Tooth extractions may trigger headaches. reutershealth.com
- Zähne ziehen kann lebenslange Kopfschmerzen auslösen. www.wissenschaft.de
- Zahn gezogen – jetzt schmerzt's im Kopf! www.aerztlichepraxis.de

Teaching - Student Supervision

- 2009 - 2010 Supervisor, graduate assistantship of Leah Ziegler.
- 2008 - 2010 Supervisor, graduate assistantship of Amy Brewer.
Brewer A, Sörös P. Age-related changes in the cerebral control of movements: An activation likelihood estimation meta-analysis (in preparation).
- 2001 - 2003 Supervisor, dissertation of Melanie Tollkötter M.D. (with Dr. B. Pfeiderer).
Published as: Tollkötter M, Pfeiderer B, Sörös P, Michael N. Effects of antidepressive therapy on auditory processing in severely depressed patients: A combined MRS and MEG study. *JOURNAL OF PSYCHIATRIC RESEARCH* 2006;40:293-306. [Abstract](#)
- 2000 - 2003 Supervisor, dissertation of Inga Teismann M.D. (with Dr. S. Knecht).
Published as: Teismann I, Sörös P, Manemann E, Ross B, Pantev C, Knecht S. Responsiveness to repeated speech stimuli persists in left but not right auditory cortex. *NEUROREPORT* 2004;15:1267-1270. [Abstract](#)
- 2000 - 2003 Supervisor, dissertation of Elisabeth Manemann M.D. (with Dr. S. Knecht).
Published as: Manemann E. Hemisphärenunterschiede in der zeitlichen Auflösung der auditorischen Verarbeitung von Sprachstimuli bei Probanden mit typischer und atypischer Sprachdominanz - Eine Studie mit Magnetoenzephalographie. Universität Münster 2004. [PDF](#)
- 1999 - 2003 Supervisor, dissertation of Oanh Vo D.D.S (with Dr. I. Husstedt).
Published as: Sörös P, Vo O, Husstedt IW, Evers S, Gerding H. Phantom eye syndrome: Its prevalence, phenomenology, and putative mechanisms. *NEUROLOGY* 2003;60:1542-1543. [Abstract](#)

Teaching - Courses

- Fall 2009 Assistant Professor, Introduction to Speech Science and Acoustic Measurement, COMD 504 — University of South Carolina, Columbia, SC, U.S.A.
- Summer 2009 Assistant Professor, Contemporary Issues in Speech Pathology, COMD 802 — University of South Carolina, Columbia, SC, U.S.A.
- Summer 2009 Assistant Professor, Introduction to Speech Science and Acoustic Measurement, COMD 504 (Distance Education Course) — University of South Carolina, Columbia, SC, U.S.A.
- Spring 2009 Assistant Professor, Advanced Topics in Speech Science for PhD students, COMD 802 — University of South Carolina, Columbia, SC, U.S.A.

- 2008 Instructor, Oral Physiology, Dentistry 115 — Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada.
- 2008 Instructor, Speech Science, CSD 497b — School of Communication Sciences & Disorders, University of Western Ontario, London, ON, Canada.
- 2001 Instructor, Clinical Psychiatry for 3rd and 4th year medical students — University of Münster, Germany.
- 1996 - 2000 Instructor, Clinical Neurology for 3rd and 4th year medical students — University of Münster, Germany.
- 1994 Teaching assistant, Microscopic Anatomy for 2nd year medical students — Hannover Medical School, Hannover, Germany.
- 1993 - 1995 Teaching assistant, Macroscopic and Microscopic Neuroanatomy for 2nd year medical students — Hannover Medical School, Hannover, Germany.

Editorial Board

- 2008 - Review Editor, *Frontiers in Human Neuroscience*

Reviewer - Granting Agencies

- 2004 - Sixth Framework Programme and Seventh Framework Programme of the European Union

Reviewer - Journals

BMC Neurology
 Brain and Language
 Clinical Neurophysiology
 Cognitive Brain Research
 Developmental Medicine & Child Neurology
 European Journal of Neurology
 Human Brain Mapping
 Journal of Psychosomatic Research
 Neuroimage
 Neurology
 Neuropsychologia
 Neuroscience
 Neuroscience Letters
 Ophthalmic Plastic and Reconstructive Surgery Psychiatry Research
 Psychology Research and Behavior Management
 Trends in Cognitive Neuroscience

Reviewer - Conferences

- 2006 - Member of the Scientific Advisory Board, Human Brain Mapping Conference.
 2009 Reviewer, Proceedings papers, Biomag2010, 17th International Conference on Biomagnetism.

Outreach

- 2007 - 2008 Mentor, Synapse Youth Connection Program, Canadian Institutes of Health Research, Ottawa, ON, Canada.
- 1992 - 1996 Freelance writer for the medical section of the German daily *Weser Kurier*, Bremen.

January 28, 2010