Curriculum Vitae

Personal Data

Title	Prof. Dr. rer. nat. Dipl. Phys.
First name	Markus
Name	Junghöfer
Current position	Senior Research Scientist
Current institution(s)/ site(s), country	Institute for Biomagnetism and Biosignalanalysis (IBB), Faculty of Medicine, UKM, Universität Münster (UMS), Germany
Identifiers/ORCID	0000-0002-8532-2986

Qualifications and Career

Stages	Periods and Details	
Degree programme	1987–1994	Physics and Geophysics, UMS, Germany & Department of Medical Engineering, Siemens AG Erlangen, Germany
Doctorate	1999	Dissertation, Affective and Cognitive Neuroscience, “Spatial high-resolution EEG: principles of signal generation, measurement technique and signal analysis”, Universität Konstanz, Germany
Stages of academic/ professional career	2005–present	Senior Research Scientist, IBB, University Hospital, UMS, Germany
	2018	Visiting Professor, Department of Psychology Franklin College of Arts and Sciences, University of Georgia, USA
	2010	Habilitation in Affective and Cognitive Neuroscience, Medical Faculty, UMS, Germany
	2004	Junior Professor, General Psychology, University of Konstanz, Germany
	2003–2004	Assistant Professor, General Psychology, University of Konstanz, Germany
	2000–2003	Post-Doctoral Research Associate, Clinical Psychology, University of Konstanz, Germany
	1999–2000	Post-Doctoral Fellow, NIMH Center for the Study of Emotion and Attention, University of Florida, USA
	1995–1999	PhD student, Clinical Psychology, University of Konstanz, Germany
	1991–1993	Assistant Research Scientist, Magnetoence-phalography Research Group, Siemens AG Erlangen, Germany

Engagement in the Research System

since 2022 Speaker of Otto-Creutzfeldt-Center for Cognitive and Behavioural Neuroscience (OCC) at the UMS, Germany

since 2020 Board Member of the OCC, UMS, Germany

Supervision of Researchers in Early Career Phases

- Long-standing and regular contributions to multidisciplinary training for national and international undergraduate, graduate and postgraduate students, offering lectures, practical courses and seminars on different topics from Affective and Cognitive Neuroscience. Since 2001, personal supervision of 14 BSc (Psychology and Biomedical Engineering), 26 MSc (Psychology), 24 MD and 11 PhD students.

Scientific Results

Contributions: [1]Conceptualization/Methodology, [2]Analysis, [3]Investigation, [4]Funding Acquisition, [5]Writing

Category A (10 selected publications out of 105)

Ligeza T, Maciejczyk M, Wyczesany M, **Junghöfer M**[2,3,5]: The effects of a single aerobic exercise session on mood and emotional reactivity in depressed and healthy young adults: A late positive potential study. Psychophysiology 2023; 60(1):e14137. DOI: 10.1111/psyp.14137

Roesmann K, **Leehr EJ**, …, Herrmann MJ, **Dannlowski U**, …, **Junghöfer M**[1,2,3,4,5]: Behavioral and magnetoencephalographic correlates of fear generalization are associated with responses to later virtual reality exposure therapy in spider phobia. Biol Psychiatry Cogn Neurosci Neuroimaging 2022; 7(2):221-230. DOI: 10.1016/j.bpsc.2021.07.006

Gross J*, **Junghöfer M***[1,2,3,5], Wolters W*: Bioelectromagnetism in human brain research: New applications, new questions. Neuroscientist 2021;29(1):62-77. DOI:10.1177/10738584211054742

Roesmann K, …, **Wessing I**, **Junghöfer M**[1,2,3,4,5]: Fear generalization of implicit conditioned facial features – behavioral and magnetoencephalographic correlates. NeuroImage 2022; 205:116302. DOI: 10.1016/j.neuroimage.2019.116302

Notzon S, Steinberg C, Zwanzger P, **Junghöfer M**[1,2,3,4,5]: Modulating emotion perception: Opposing effects of inhibitory and excitatory prefrontal cortex stimulation. Biol Psychiatry Cogn Neurosci Neuroimaging 2022; 3(4):329-336. DOI: 10.1016/j.bpsc.2017.12.007

Junghöfer M[1,2,3,4,5], Winker C, Rehbein MA, Sabatinelli D: Noninvasive stimulation of the medial prefrontal cortex enhances pleasant scene processing. Cereb Cortex 2017; 27(6):3449-3456. DOI: 10.1093/cercor/bhx073

Zwanzger P, …, **Junghöfer M**[1,2,3,4,5]: Impact of electroconvulsive therapy on magnetoencephalographic correlates of dysfunctional emotional processing in major depression. Eur Neuropsychopharmacol 2017; 26(4):684-92. DOI: 10.1016/j.euroneuro.2016.02.005

Domschke K, …, **Junghöfer M**[1,2,3,4,5]: Magnetoencephalographic correlates of emotional processing in major depression – a pre/post-treatment study. Int J Neuropsychopharmacol 2016; 19(2):pyv093. DOI: 10.1093/ijnp/pyw031

Wessing I, …, **Junghöfer M**[1,2,3,4,5]: Cognitive emotion regulation in children: Reappraisal of emotional faces modulates neural source activity in a fronto-parietal network. Dev Cogn Neurosci 2015; 13:1-10. DOI: 10.1016/j.dcn.2015.01.012

Bröckelmann AK, …, **Junghöfer M**[1,2,3,4,5]: Emotion-associated tones attract enhanced attention at early auditory processing: magnetoencephalographic correlates. J Neurosci 2011; 31(21):7801- 7810. DOI: 10.1523/JNEUROSCI.6236-10.2011

Category B

EMEGS (ElectroMagnetic EncaphaloGraphy Software written by **Markus Junghöfer** and Peter Peyk) is a freely available software package for high density EEG/MEG data analysis which includes among other features data preprocessing, artefact correction, averaging, inverse modelling and parametric and non-parametric statistical analyses. A large number of references document its use by national and international EEG and MEG laboratories. See: www.emegs.org

Peyk P, De Cesarei A, **Junghöfer M**[1,2,3,4,5]: ElectroMagnetoEncephalography software (EMEGS): overview and integration with other EEG/MEG toolboxes. Comput Intell Neurosci Special issue: Academic software applications for electromagnetic brain mapping using MEG and EEG 2011; 861705. DOI: 10.1155/2011/861705

Keil A, Debener S, Gratton G, **Junghöfer M**[1,2,3,5], Kappenman ES, Luck SJ, Luu P, Miller GA, Yee CM: Committee report: Publication guidelines and recommendations for studies using electroencephalography and magnetoencephalography. Psychophysiology 2014; 51(1):1-21. DOI: 10.1111/psyp.12147

Junghöfer M[1,2,3,4,5], Peyk P, Flaisch T, Schupp H: Neuroimaging methods in affective neuroscience: Selected methodological issues. Prog Brain Res 2006; 156:123-143. DOI: 10.1016/S0079- 6123(06)56007-8

Junghöfer M[1,2,3,4,5], Schupp H, Stark R, Vaitl D: Neuroimaging of Emotion: Empirical effects of proportional global signal scaling in fMRI data analysis. NeuroImage 2005; 25(2):520-526. DOI: 10.1016/j.neuroimage.2004.12.011

Science communication (selected)

2015	Thomas Straube & Markus Junghöfer. International CRC symposium: Fear, Anxiety, Anxiety Disorders; Münster, 2015
2004	Johanna Kissler & Markus Junghöfer. International workshop on `Understanding Emotions: Insights into emotion communication and the brain'. Konstanz
2006	"Understanding Emotions" (2006) Progress in Brain Research; Elsevier. Edited by: Anders S., Ende G., Junghöfer M., Kissler J., Wildgruber D.

Academic Distinctions

1999	Young Scientist Award of the German Society for Psychophysiological Research

Other Information

n/a