

Curriculum Vitae

Personal Data

Title	Prof. Dr. rer.nat.
First name	Stefan
Name	Debener
Current position	Full Professor (W2)
Current institution(s)/site(s), country	Department of Psychology, University of Oldenburg, Germany
Identifiers/ORCID	0000-0003-4265-5542

Qualifications and Career

Stages	Periods and Details
Degree programme	Psychology (Diploma), 1989-1996, TU Berlin, Germany
Doctorate	12.02.2001, Prof. Dr. B. Brocke, TU Dresden, Germany
Stages of academic/professional career (<i>optional after doctorate</i>)	<p>since 2009: Full professor, School of Medicine and Health Sciences, Department of Psychology, University of Oldenburg, Germany</p> <p>2009: Call to Department of Psychology, University of Munich, Germany (declined)</p> <p>2008-2009: Full Professor, Clinics for Neurology, University Medical School Jena, Germany</p> <p>2006-2008: Honorary Reader, School of Medicine, University of Southampton, UK</p> <p>2005-2008: Senior Scientist, MRC Institute of Hearing Research, Southampton, UK</p> <p>2003-2005: Senior Scientist, Institute of Neurophysiology, University Medical School Hamburg-Eppendorf, Germany</p> <p>2001-2003: Post-doc, Neurobiology, Institute of Medicine, Research Centre Jülich, Germany</p> <p>2001: Visiting Fellow, Swartz Center for Computational Neuroscience, La Jolla, CA</p> <p>1997: Visiting Fellow, G.A. Lienert Foundation, New York State Psychiatric Institute, NY</p> <p>1994-1996: Research Assistant in Biopsychology, Technical University of Berlin, Germany</p>

Supplementary Career Information

Activities in the Research System

Ongoing: Member of various committees (e.g. habilitation committee, study committee, examination committee, etc.)

2021-2023: Faculty Board Member

2023-2025: Director of the Dept. of Psychology at Oldenburg University

Ongoing: Editorial Board Member *Frontiers in Auditory Cognitive Neuroscience*, *Brain Topography*, *Frontiers in Neuroergonomics*
 2018-2021: Member of the Board of Directors of the Research Centre for Neurosensory Science at the Carl von Ossietzky Universität Oldenburg
 2015-2017: Director of the Dept. of Psychology at Oldenburg University
 2014: Society for Psychophysiological Research, Committee Member, Publication guidelines and recommendations for studies using EEG & MEG
 2009-2014: Action Editor: *Psychophysiology*
 2010-2014: Editorial Board Member: *Neuroimage*

Supervision of Researchers in Early Career Phases

2023	Dr. rer. nat. Björn Holtze, Non-invasive electrophysiological measures of auditory attention to continuous speech, now Postdoc at OFFICE Oldenburg
2022	Dr. rer. nat. Joanna Scanlon, Advancing mobile EEG technology and application: from the oddball paradigm to a gait synchronization task, now Postdoc at Fraunhofer IDMT MNT, Oldenburg
2022	Dr. rer. nat. Mareike Daeglau, Towards the identification of context factors influencing motor imagery neurofeedback, now Postdoc, University of Oldenburg
2022	Dr. rer. nat. Nadine Jacobsen, Artifacts and neural signatures of natural gait using mobile electroencephalography, now Postdoc, University of Oldenburg
2021	Dr. rer. nat. Manuela Jäger, Dynamic properties of selective auditory attention using electroencephalography, now Postdoc and Research Scientist at Fraunhofer IDMT MNT, Oldenburg
2020	Dr. rer. nat. Sarah Blum, Advances in Signal Processing and Hardware Development for EEG-based Brain-Computer Interfaces, now Postdoc and Software Developer at Hörtech GmbH, Oldenburg
2018	Dr. rer. nat. Ann-Katharina Bauer, Temporal dynamics of uni-modal and cross-modal entrainment in the human auditory cortex, now Postdoc, University of Oxford, UK
2017	Dr. rer. nat. Maren Stropahl, The association between cross-modal reorganization and audio-visual processing in cochlear implant users, now researcher in industry, Phonak, Switzerland
2017	Dr. rer. nat. Niclas Braun, Neurocognitive aspects and clinical relevance of bodily self-awareness, now Postdoc, Clinics of Psychiatry, University of Bonn, Germany
2017	Dr. rer. nat. Bojana Mirkovic, Decoding the attended speaker with electroencephalography: Towards real-life application, now data Scientist, Berlin
2017	Dr. rer. nat. Ling-Chia Chen, Cortical plasticity in cochlear implant users, now data scientist, 42DIGITAL GmbH Bremen, Germany

Scientific Results

Category A

1. Bauer AKR, Debener S, Nobre K. Synchronisation of neural oscillations and cross-modal influences. *Trends Cogn Sci.* 2020; 24(6). doi.org/10.1016/j.tics.2020.03.003.
2. Puschmann S, Steinkamp S, Gillich I, Mirkovic B, Debener S, Thiel CM. The Right Temporoparietal Junction Supports Speech Tracking During Selective Listening: Evidence from Concurrent EEG-fMRI. *J Neurosci.* 2017 Nov 22;37(47):11505-11516. doi: 10.1523/JNEUROSCI.1007-17.2017
3. Debener S, Emkes R, De Vos M, Bleichner M. Unobtrusive ambulatory EEG using a smartphone and flexible printed electrodes around the ear. *Sci Rep.* 2015;5(1):16743. doi:10.1038/srep16743.
4. Thorne JD, De Vos M, Viola FC, Debener S. Cross-modal phase reset predicts auditory task performance in humans. *J Neurosci.* 2011;31(10). doi:10.1523/JNEUROSCI.6176-10.2011.

5. Sandmann P, Dillier N, Eichele T, Meyer M, Kegel A, Pascual-Marqui R, Macar V, Jäncke L, Debener S. Visual activation of auditory cortex reflects maladaptive plasticity in cochlear implant users. *Brain*. 2012;135(2). doi:10.1093/brain/awr329.
6. Broyd SJ, Demanuele C, Debener S, Helps SK, James CJ, Sonuga-Barke EJS. Default-mode brain dysfunction in mental disorders: A systematic review. *Neurosci Biobehav Rev*. 2009;33(3). doi:10.1016/j.neubiorev.2008.09.002.
7. Sandmann P, Eichele T, Buechler M, Debener S, Jäncke L, Dillier N, Hugdahl K, Meyer M. Evaluation of evoked potentials to dyadic tones after cochlear implantation. *Brain*. 2009;132(7). doi:10.1093/brain/awp034.
8. Eichele T, Debener S, Calhoun VD, Specht K, Engel A, Hugdahl K, von Cramon D, Ullsperger M. Prediction of human errors by maladaptive changes in event-related brain networks. *Proc Natl Acad Sci U S A*. 2008;105(16). doi:10.1073/pnas.0708965105.
9. Debener S, Ullsperger M, Siegel M, Engel AK. Towards single-trial analysis in cognitive brain research. *Trends Cogn Sci*. 2007;11(12). doi:10.1016/j.tics.2007.09.005.
10. Debener S, Ullsperger M, Siegel M, Fiehler K, Von Cramon DY, Engel AK. Trial-by-trial coupling of concurrent electroencephalogram and functional magnetic resonance imaging identifies the dynamics of performance monitoring. *J Neurosci*. 2005;25(50). doi:10.1523/JNEUROSCI.3286-05.2005.

Category B

EEGLAB plug-in CIAC: http://www.debener.de/CIAC_tutorial/ciacplugin.html

EEGLAB plug-in CORRMAP: <https://github.com/scn/corrmmap>

LSL Android Application Senda: <https://github.com/NeuropsychOL>

LSL android Application Recorda: <https://github.com/NeuropsychOL>

SCLA, Signal Processing for Android: <https://github.com/NeuropsychOL>

Data can code from various publications has been made publicly available, e.g.:

<https://figshare.com/s/48f8d9de715bafa5811b>; <https://psyarxiv.com/n86yp/download>.

Academic Distinctions

Other Information

Data protection and consent to the processing of optional data

If you provide voluntary information (marked as optional) in this CV, your consent is required. Please confirm your consent by checking the box below.

I expressly consent to the processing of the voluntary (optional) information, including “special categories of personal data”¹ in connection with the DFG’s review and decision-making process regarding my proposal. This also includes forwarding my data to the external reviewers, committee members and, where applicable, foreign partner organisations who are involved in the decision-making process. To the extent that these recipients are located in a third country (outside the European Economic Area), I additionally consent to them being granted access to my data for the above-mentioned purposes, even though a level of data protection comparable to EU law may not be guaranteed. For this reason, compliance with the data protection principles of EU law is not guaranteed in such cases. In this respect, there may be a violation of my fundamental rights and freedoms and resulting damages. This may make it more difficult for me to assert my rights under the General Data Protection Regulation (e.g. information,

¹ Special categories of personal data are those “revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and (...) genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person’s sex life or sexual orientation” (Article 9(1) GDPR).

rectification, erasure, compensation) and, if necessary, to enforce these rights with the help of authorities or in court.

I may **revoke** my consent in whole or in part at any time – with effect for the future, freely and without giving reasons – vis-à-vis the DFG (postmaster@dfg.de). The lawfulness of the processing carried out up to that point remains unaffected. Insofar as I transmit “special categories of personal data” relating to third parties, I confirm that the necessary legitimation under data protection law exists (e.g. based on consent).

I have taken note of the DFG’s Data Protection Notice relating to research funding, which I can access at www.dfg.de/privacy_policy and I will forward it to such persons whose data the DFG processes as a result of being mentioned in this CV.