

JONAS OBLESER

Prof. Dr. rer. nat. habil., Dipl.-Psych., 1975, Waiblingen, Germany
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Chair in Physiological Psychology and Research Methods

Department of Psychology

University of Lübeck, Lübeck, Germany

RESEARCH INTEREST

- Auditory Perception and Cognition
- Neural Dynamics and Neural Computations in Cognition
- Methodological and Statistical Advances in Neuroscience
- Translational Neuroscience in Hearing Loss and Ageing

EDUCATION

- 2015 Habilitation (*venia legendi*: Psychology), Dr. rer. nat. habil., University of Leipzig
- 2004 Dr. rer. nat. (PhD), *summa cum laude*, Psychology, University of Konstanz,
Germany (Referees: Prof. Thomas Elbert, Prof. Carsten Eulitz, Prof. Aditi Lahiri)
- 2001 Diplom (MSc equivalent), Psychology, University of Konstanz, Germany
- 1994 Abitur (A-Level equivalent)

EMPLOYMENT

- 2016 Chair (W3) in Physiological Psychology and Research Methods,
Department of Psychology, University of Lübeck, Lübeck, Germany
- 2016 Five months of parental leave (*part-time*)
- 2015 Professor (W2) in Research Methods and Statistics,
Department of Psychology, University of Lübeck, Lübeck, Germany
- 2014 Visiting scholar,
NYU Langone Medical Center and Nathan Kline Institute, New York, New York, USA,
Prof. P. Lakatos
- 2013 Six months of parental leave (*full-time*)
- 2011 2015 Head of the Max Planck Research Group “Auditory Cognition”,
Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
German Associate-Professor equivalent (W2), non-tenured
- 2007 2010 Senior Postdoctoral Researcher,
Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany,
Prof. A.D. Friederici

- 2005 2007 Research Fellow,
Institute of Cognitive Neuroscience, University College London, UK, Prof. S.K. Scott
- 2004 2005 Postdoctoral Researcher,
Departments of Linguistics and Psychology, University of Konstanz, Germany, Prof. A. Lahiri, Prof. C. Eulitz
- 2001 2003 Research assistant (PhD student),
Department of Psychology, University of Konstanz, Germany
- 2004 Visiting scholar,
Center for Functional and Molecular Imaging, Georgetown University School of Medicine, Washington, DC, USA
- 2002 Visiting scholar,
Georgetown University, Washington, DC, USA, Prof. J.P. Rauschecker
- 1998 1999 Intern,
Behavioural Neuroscience Research group, University of Konstanz, Germany, Prof. T.R. Elbert
- 1997 2001 Undergraduate research assistant,
Psychophysiological Laboratories of the Department of Psychology, Profs. T.R. Elbert & B.S. Rockstroh; Department of Psychology, University of Konstanz, Germany, Prof. G. Trommsdorff

FUNDING

- 2016 2020 The listening challenge: How ageing brains adapt (AUDADAPT),
ERC Consolidator Grant
€ 2,000,000
- 2017 2020 Modulating neural network dynamics of speech comprehension: The role of the angular gyrus
DFG (Co-PI: Gesa Hartwigsen, MPI Leipzig)
€ 370,000
- 2011 2015 Max Planck Research Group “Auditory Cognition”,
Max Planck Society, Germany,
€ 1,500,000
- 2012 2015 Understanding the hearing impaired brain,
Siemens Audiology Solutions,
€ 120,000
- 2015 2018 Neural adaptive control in the hearing aid (NEURO-CHAT),
Oticon Foundation (Co-PI: T. Lunner, Eriksholm)
€ 100,000
- 2015 2016 Towards the brain-informed, brain-controlled hearing aid (BIT-CHAT),
Volkswagen Foundation (Co-PI: T. Lunner, Eriksholm)
€ 100,000

- 2011–2013 Investigating Semantic Networks using Dynamic Causal Modelling with MEG
Elekta Inc. (PI: B. Maess),
€ 100,000
- 2004–2006 Neural mechanisms of spatiotemporal coding of speech,
Baden-Württemberg Foundation gGmbH,
€ 50,000
- 2001–2005 Contributions to two collaborative research grants,
German Science Foundation (SFB 471 and FOR 348; PIs: C. Eulitz, A. Lahiri),
including € 100,000 for MR-compatible EEG system

FUNDING (SMALLER-SCALE SUPPORT)

- 2018 International Hearing Foundation (PI: Malte Wöstmann),
€ 11,000
- 2017 Industry Support for SNAP 2017 workshop,
Oticon Foundation, DK; Sivantos, GER; Audifon, GER; Brain Products, GER;
€ 15,000
- 2014 Scientific Exchange Fellowship,
Erasmus Mundus programme Auditory Cognitive Neuroscience,
€ 7,000

APPOINTMENTS AND OFFERS

- 2018 Professorial Research Fellow, School of Psychology, University of Birmingham (*declined*)
- 2016 Chair (W3) in Physiological Psychology and Research Methods, Department of Psychology, University of Lübeck (*accepted*)
- 2015 Chair (W3) in Physiological Psychology, Department of Psychology, University of Bielefeld (*declined*)
- 2015 Full Professorship (W2) for Research Methods and Statistics, Department of Psychology, University of Lübeck (*accepted*)
- 2013 Associate Professorship, Department for Electrical Engineering, Technical University of Denmark (DTU), Copenhagen (*declined*)
- 2010 Head of a Max Planck Research Group (associate-professor equivalent), Max Planck Society (*accepted*)

AWARDS AND HONOURS

- 2014 Young Investigator Award,
Advances and Perspectives in Auditory Neuroscience Symposium (APAN), Washington, DC, November 2014

- 2012 Fellowship in the Mentoring programme for outstanding young scientists,
Biopsychology section of the German Society for Psychology (DGPs)
- 2010 Associate Faculty Member,
International Max Planck Research School “NeuroCom”
- 2004 Postdoctoral elite support programme,
Baden-Württemberg Foundation gGmbH
- 2003 Promotionspreis (PhD Award),
Society of the University of Konstanz
- 2002 Young Investigators Award,
13th International Conference on Biomagnetism, Jena, Germany
- 2001 PhD scholarship (Manfred-Ulmer-Fellowship),
Wissenschaft und Gesellschaft Foundation, Konstanz, Germany

HONOURS FOR SUPERVISED WORKS

- 2017 Trainee Malte Wöstmann: PhD award, Research Academy Leipzig
Trainee Leonhard Waschke: G.A. Lienert Travel Fellowship,
3 months training at USCD
Trainee Lea-Maria Schmitt: Colin Cherry Poster Award, Speech in Noise Workshop,
Groningen
- 2015 Trainee Lorenz Fiedler: Best Poster Award at the Entrainment of Brain Oscillations
Workshop, Oldenburg
Trainee Sophie Herbst: RAW 2015 non-faculty/student award at the Rovertto Atten-
tion Workshop
- 2014 Trainee Anna Wilsch: Erasmus Mundus Exchange Fellowship,
10 months postdoctoral training at NYU
Trainee Björn Herrmann: DAAD travel fellowship to attend Neuroscience 2014
Trainee Malte Wöstmann: Colin Cherry Poster Award, Speech in Noise Workshop,
Marseille
- 2013 PhD student Antje Strauß and Postdoc Mathias Scharinger: DAAD travel fellowships
to attend “Society for Neurobiology of Language” 2013
- 2012 Trainees Molly Henry and Björn Herrmann: Publication in the trainees-only section
“Journal Club” in The Journal of Neuroscience
- 2012 Trainee Björn Herrmann: PhD award, Research Academy Leipzig
- 2012 PhD student Julia Erb: DAAD travel fellowship to attend Neuroscience 2012

MEMBERSHIPS

- 2017 German Statistical Society (DStatG)
 2013 Society for Psychophysiological Research
 2012 Deutscher Hochschulverband
 2012 Deutsche Gesellschaft für Psychologie (DGPs)
 2011 Society for the Neurobiology of Language
 2005 Society for Neuroscience
 2001 Cognitive Neuroscience Society

EDITORIAL AND REVIEW SERVICE

- 2016 Associate Editor, *The Journal of Neuroscience*
 2016 Handling Editor, *Neuroimage*
 2015 2018 Action Editor, *Brain and Language*
 2014 Guest Editor, *Brain and Language*; Special issue “The electrophysiology of language”
 2014 Review Editor, *Frontiers in Human Neuroscience*
 2010 Review Editor, *Frontiers in Psychology*
 2006 *Reviews for International funding bodies:*
 ERC European Research Council (ad hoc)
 NSF National Science Foundation (ad hoc and as review panelist),
 NIH National Institute of Health (as review panelist),
 BMBF Bundesministerium für Bildung und Forschung (review panelist)
 NWO Netherlands Organisation for Scientific Research (ad hoc)
 Action on Hearing Loss, UK (ad hoc)
 FNRS Fonds de la Recherche Scientifique, Belgium (ad hoc)
 DFG Deutsche Forschungsgemeinschaft (ad hoc)
 ARO Army Research Office (ad hoc)
 NSERC Canadian Government (ad hoc)
 MRC Medical Research Council, UK (ad hoc)
- 2001 *Ad hoc reviews for:*
 Science,
 Nature Reviews Neuroscience,
 Neuron,
 Nature Communications,
 Nature Human Behaviour,
 Proceedings of the National Academy of Sciences (PNAS),
 eLife,
 Current Biology,
 PloS Biology,
 Brain,

Journal of Neuroscience (>10 reviews / year),
 Cerebral Cortex,
 PloS Computational Biology,
 Psychological Science,
 Scientific Reports,
 Cortex,
 NeuroImage,
 Human Brain Mapping,
 Journal of Cognitive Neuroscience,
 Phil Transact Royal Soc B,
 Journal of Neurophysiology,
 PloS One,
 Cognition,
 Journal of Neural Engineering,
 Frontiers in Neuroscience,
 Frontiers in Psychology,
 Brain and Language,
 Neuropsychologia,
 Psychophysiology,
 Brain Research,
 Physiological Measurements,
 Language and Cognitive Processes,
 European Journal of Neuroscience,
 Journal of the Acoustical Society of America,
 Journal of Neurolinguistics,
 NeuroReport,
 Neurobiology of Aging,
 Neuroscience Letters,
 Journal of Computational Neuroscience

INVITED TALKS

- 2018 Royal Society meeting “Attention to Sound”, Chicheley Hall, UK
 Kavli Summer Institute in Cognitive Neuroscience, Lake Tahoe, CA
 Cluster of Excellence “Hearing for All”, Medical University Hannover, D
 Collaborative Research Centre “Information Density and Linguistic Encoding”,
 University of Saarbrücken, D
- 2017 Department of Bioengineering, Imperial College London, UK
 Trinity College Dublin, Ireland
 School of Psychology, Birmingham, UK
 Neural Oscillations in Speech and Language Processing,
 Max Planck Society, Berlin, D

- 2016 Centre of Functionally Integrative Neuroscience (CFIN), University of Aarhus, DK
 Institute of Cognitive Neuroscience, UCL, London, UK
 University of Groningen, NL
 F.C. Donders Centre, Nijmegen, NL
- 2015 Future of Hearing Symposium, Medical University of Hanover, D
 Tübingen MEG (Magnetoencephalography) Symposium, Tübingen, D
 Département des Neurosciences, Geneva, CH
- 2014 Princeton Neuroscience Institute, US
 Tucker-Davis Symposium on Advances and Perspectives in Auditory Neurophysiology (APAN), Washington, DC, US
 Boston Hearing Research Center, Boston University, US
 Institute of Neuroscience and Psychology, Glasgow, UK
 Institute of Psychology, University of Salzburg, A
 Institute of Psychology, University of Bielefeld, D
 Institute of Psychology, University of Münster, D
 Institute of Psychology, University of Lübeck, D
 Berlin School of Mind and Brain (Humboldt Graduate School), D
 Psychology and Neuroscience Department, Maastricht Brain Imaging Centre, NL
 Tübingen Hearing Research Centre, Universität Tübingen, D
- 2013 5th Ageing and Speech Communication (ASC) Conference, Bloomington, Indiana, US
 Centre for Applied Hearing Research, Technical University of Denmark (DTU), DK
 Institute of Psychology, Hamburg University, D
 Department of Neuropsychology, University of Zürich, Zürich, CH
- 2012 German Society for Medical Physics (43rd Annual Meeting), Jena, D
 Oticon Symposium, Hamburg, D
 Clinical Neuropsychology Research Group, Klinikum Bogenhausen (Munich), D
 European Society for Cognitive and Affective Neuroscience, Marseille, FR
 Department of Psychology, University of Oldenburg, Oldenburg, D
 Institute of Medical Psychology, University of Frankfurt, D
 Eriksholm Research Centre, Oticon, Helsingør, DK
- 2011 German Society for Aphasia and its Treatment, Konstanz, D
 International Symposium on Auditory and Audiological Research (ISAAR), Nyborg Strand, DK

- Max Planck Institute for Human Development, Berlin, D
 HEAD Seminar Series, University of Linköping, SE
 Workshop on Speech in Noise: Intelligibility and Quality, Lyon, FR
 2010 Department of Linguistics, University of Oxford, UK
 Department of Psychology, University of Konstanz, D
 Max Planck Institute for Psycholinguistics, Nijmegen, NL
 2009 GIPSA Laboratory, Grenoble, FR
 2008 Centre for Integrative Neuroscience, Tübingen, Germany, D
 Institute of Cognitive Neuroscience, University College London, UK
 Acoustics (formerly Acoustical Society of America), Paris, FR
 2007 Department of Linguistics, University of Konstanz, D
 Department of Linguistics, University of Potsdam, D
 2006 F.C. Donders Centre for Cognitive Neuroimaging, Nijmegen, NL
 Max Planck Institute for Hum Cogn Brain Sci, Leipzig, D
 2005 Institute for Biomagnetism and Biosignal analysis, Muenster, D

ORGANISATION OF CONFERENCES, WORKSHOPS, SYMPOSIA

- 2018 Symposium committee member, Cognitive Neuroscience Society (CNS)
 2017 Chair & Organisation, *Signal and Noise in the Auditory Pathway (SNAP) 2017*, 2-day international workshop, University of Lübeck, Lübeck
 2015 2017 Poster committee member, Cognitive Neuroscience Society (CNS)
 2014 2017 Program committee member, Advances and Perspectives in Auditory Neuroscience (APAN; annual SfN-Satellite)
 2015 Chair, Nanosymposium *Cortical processing of complex sound*, Society for Neuroscience Meeting, Chicago
 2013 Chair & Organisation, *Hearing and Balance Social*, Society for Neuroscience Meeting, San Diego
 Chair & Organisation, *Signal and Noise in the Auditory Pathway (SNAP)*, 2-day international workshop, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig
 Chair, *Alpha re-visited: Neural oscillations in human perception and cognition*, Psychologie und Gehirn Meeting, Würzburg, with Christoph Herrmann
 2010 Co-Chair, *Networks for Communication: Between human, ape, monkey and bird brains*, International Congress of Neuroethology, Salamanca, with Chris Petkov
 2007 Chair, *Speech comprehension as a psychological process*, Tagung experimentell arbeitender Psychologen (TEAP), Trier

OTHER SELECT TALKS

- 2016 Psychologie und Gehirn 2016, Berlin
- 2016 Deutsche Jahrestagung für Akustik (DAG) 2016, Aachen
- 2015 Ageing and Cognition, Dortmund
- 2010 Society for Neuroscience Annual Meeting, San Diego
- 2008 Society for Neuroscience Annual Meeting, Washington, D.C.
- 2006 Society for Neuroscience Annual Meeting, Atlanta
- 2007 Tagung experimentell arbeitender Psychologen (TeaP), Trier
- 2005 Tagung experimentell arbeitender Psychologen (TeaP), Regensburg
- 2004 Tagung experimentell arbeitender Psychologen (TeaP), Gießen
- 2003 Arbeitstagung für Psychophysiologische Methodik (APM), Würzburg
International Congress of Phonetic Sciences, Barcelona

SELECT INTERNATIONAL COLLABORATIONS

- 2002 2006 Josef Rauschecker, Georgetown University, Washington, DC, USA
- 2006 2009 Sophie Scott, University College London, UK
- 2007 2013 Frank Eisner, Max Planck Institute for Neurolinguistics, Nijmegen, NL
- 2007 Sonja Kotz, Manchester University, UK / Maastricht University, NL
- 2008 Christopher Petkov, University of Newcastle, UK
- 2008 Nathan Weisz, University of Trento, IT
- 2011 Thomas Lunner, Eriksholm Research Centre, DK & University of Linköping, SE
- 2011 Carolyn McGettigan, Royal Holloway, London, UK
- 2013 Ed Bartlett, Purdue University, USA
- 2014 Peter Lakatos, NYU / Nathan Kline Institute, US
- 2015 Christiane Thiel, Oldenburg University, DE
- 2017 Jennifer Bizley, University College London, UK

PUBLIC OUTREACH AND MEDIA

- 05-2017 Invited speaker, Public science event (lecture series “Weltanschauung”),
Church St. Petri, Lübeck, Germany
- 10-2016 Panelist, Public science event, Hörregion Hannover, Hannover, Germany
- 06-2016 Winner, 1st Lübeck “Rock your life” Professorial Science Slam

- 04-2016 German TV feature (“Schleswig-Holstein Magazin”, NDR) on Wöstmann et al. (2016) PNAS study and our in-ear EEG research
- 02-2015 Various German radio features (“MDR Info”, SWR) and international press coverage on Wöstmann et al. (2015) J Neurosci study
- 04-2014 Interview for 1-hour radio feature “The costs of knowledge” (SWR2, Lorenz Schroeter)
- 03-2013 German Science TV (“Nano”, 3Sat) feature on Henry & Obleser (2012) PNAS study
- 11-2012 Various German radio features (“DRadio Kultur”, “Wissen“) and international press coverage on Henry & Obleser (2012) PNAS study
- 09-2012 International press coverage on Obleser et al. (2012) J Neurosci study
- 07-2012 German radio (“DRadio Wissen”), 5-min feature on Erb et al. (2012) study
- 03-2012 German radio (“WDR3 Forum”), panel discussion on speech and hearing
German radio (“Mephisto Leipzig”), scientific commentary on auditory processing
- 2012 Guest writer for the Public science blog “NeuroCognition” at scilogs.eu
- 02-2012 Interview for dpa [German Press Agency] on Paisley et al., PloS Biology 2012
- 08-2011 Scientific American, The Atlantic, Folha de Sao Paolo and Hürriyet report on the “Slow Science Academy”
- 10-2010 Public science talk, German Finals for the International JuniorScienceOlympics, Merseburg
- 06-2010 Public science talk, “Biotech meets Public”, Biosaxony, at the Leipzig Zoo
- 04-2010 Foundation of the “Slow Science Academy”, [http:// slow-science.org](http://slow-science.org)
- 08-2009 Public science talk (joint event with the Max Planck Institute for Evolutionary Anthropology) for “Science Express – Research Expedition Germany”
- 08-2008 This Week in the Journal, The Journal of Neuroscience: “Lateralization of Speech Comprehension”
- 03-2007 Wellcome Trust Media: “Making sense of the world through a cochlear implant”
Medical Research Council News: “Tuning out: researchers make sense of background noise”
German and Austrian Press: “Lärm aktiviert Gehirn für besseres Sprachverständnis”

ACADEMIC SERVICE

- 2017 Member, Ethics committee (IRB), University of Lübeck
- 2016 Member, Presidential Award Committee, University of Lübeck
- 2016 Deputy Member, Board of Examiners for German second doctorate (Habilitation), University of Lübeck
- 2015 Member, Board of Examiners, Department of Psychology, University of Lübeck

- 2012 15 Member, International Max Planck Research School (IMPRS), Leipzig
- 2008 10 Member of the IT liaison committee of the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig
- 2008 12 Member of the election committee for the Institute representative at the Max Planck Senate
- 2010 11 Max Planck Leadership and Management Development Programme
 Module 1: Enhancing Leadership Impact Bilateral Leadership and Recruitment
 Module 2: Enhancing Leadership Impact Team Management
 and Conflict Resolution
 Module 3: Strategic Development, Project and Process Management
 Module 4: Time and Self Management, Working Methods

ACADEMIC MENTORING

Sponsored postdoctoral researchers:

- 2018 Julia Erb
- 2017 Jens Kreitewolf
- 2016 Michael Plöchl
- 2016 Sarah Tune
- 2015 Malte Wöstmann
- 2015 Mohsen Alavash
- 2014 2016 Sung-Joo Lim (*next: University of Boston*)
- 2014 2016 Sophie Herbst (*next: PI on own DFG grant*)
- 2014 2015 Alex Brandmeyer (*next: Dolby Inc.*)
- 2012 2014 Björn Herrmann (*next: University of Western Ontario*)
- 2011 2014 Molly Henry (*next: University of Western Ontario*)
- 2011 2013 Mathias Scharinger (*next: PI on own DFG grant, Max Planck Institute Frankfurt*)

Sponsored PhD students:

- 2017 Lea-Maria Schmitt, Neural encoding of semantic predictability
- 2016 Leonhard Waschke, Auditory decision-making in the aging brain
- 2015 Lorenz Fiedler, Real-time EEG of the listening brain
- 2012 2015 Malte Wöstmann, Auditory degradation and compensatory processes
- 2011 2014 Julia Erb, Neural dynamics of perceptual adaptation to degraded speech
- 2011 2014 Antje Strauß, Cognitive linguistic expectancies in degraded speech
- 2011 2014 Anna Wilsch, Working memory in degraded speech

Co-supervised PhD students (Graduation date shown):

- 2017 Eline Borch Petersen (Linköping), Cognitive Load in degraded hearing
- 2014 Thomas Golombek (Leipzig), TMS and speech comprehension

- 2013 Lars Meyer (Potsdam), Working Memory and Syntactic Analysis in Speech
 2008 Ronny Hannemann (Konstanz), Event-related potentials in Deficient Speech

Doctoral defence committees:

- 2017 Jieun Song (PhD), University College London
 2017 Macià Buades-Rotger (Dr. rer. nat.), University of Lübeck
 2017 Giovanni di Liberto (PhD), Trinity College Dublin
 2017 Eline Borch Petersen (PhD), University of Linköping
 2016 Jens Meyen (Dr. med.), University of Lübeck
 2015 Malte Wöstmann (Dr. rer. nat.), University of Leipzig
 2015 Anna Wilsch (Dr. rer. nat.), University of Leipzig
 2014 Marieke van der Steen (Dr. rer. nat.), University of Leipzig
 2014 Antje Strauß (Dr. rer. nat.), University of Leipzig
 2014 Marika Pieszek (Dr. rer. nat.), University of Leipzig
 2014 Julia Erb (Dr. rer. nat.), University of Leipzig
 2013 Lars Hausfeld (PhD), University of Maastricht
 2013 Ediz Sohoglu (PhD), University of Cambridge
 2011 Björn Herrmann (Dr. rer. nat.), University of Leipzig

Supervision of MSc theses:

- 2016 Leonhard Waschke, Neural noise and perceptual decision-making (Berlin)
 2016 Lea-Maria Schmitt, Behavioral and neural consequences of closing the eyes during attentive listening (Lübeck)
 2010 Antje Strauss, [Processing of semantic and phonological collocations in EEG] (Freiburg)
 2010 Kodjo Vissiennon, [Mastery of auditory complex syntax in 10-year-olds] (Leipzig)
 2006 Lucia Alba Ferrara, Top-down influences in speech perception (Birkbeck London)
 2006 Alina Welsen, [Categorical perception of intonation contours] (Konstanz)
 2005 Ronny Hannemann, [Induced brain activity in degraded speech] (Konstanz)
 2003 Andreas Kupka, [EEG in detecting place of articulation differences] (Konstanz)

Interns and Research Assistants:

- 2018 Jonathan Risom Mortensen (University of Lübeck) · 2017 Ricarda Vielhauer (University of Lübeck) · 2017 Annika Struck (University of Lübeck) · 2017 Lynn Gärtner (University of Lübeck) · 2016 Felix Deilmann (University of Lübeck) · 2016 Elisabeth Ni (University of Lübeck) · 2016 Philipp Seidel (University of Lübeck) · 2015 Janne Outzen (University of Lübeck) · 2015 Jakob Schmitt (University of Lübeck) · 2015 Lea-Maria Schmitt (University of Lübeck) · 2015 Thomas Cuntz (University of Applied Sciences Leipzig) · 2015 Sören Nikolaus (University of Leipzig) · 2014 Kristina Bauer (University of Leipzig) · 2013 Selma Kemmerer (University of Maastricht) · 2013 Leonhard Waschke (University of Leipzig) · 2013

2014 Mirja Kuhlencord (University of Leipzig) · 2012 2013 Elisabeth Muche (University of Leipzig) · 2012 2015 Steven Kalinke (University of Leipzig) · 2012 2013 Nadine Schlichting (University of Chemnitz) · 2011 2013 Christoph Daube (University of Leipzig) · 2011 Matthias Powelleit (University of Braunschweig) · 2011 Zoe Schlueter (University of York) · 2011 2012 David Stoppel (University of Leipzig) · 2011 2012 Christina Otto (University of Leipzig) · 2011 Janet Giehl (University of Bamberg) · 2010 Nele Hellbernd (University of Osnabrück) · 2010 Malte Wöstmann (University of Osnabrück) · 2009 Antje Strauss (University of Freiburg) · 2009 2011 Sergej Schwigon (University of Leipzig) · 2009 Betty Wielsch (University of Leipzig) · 2007 Mathias Barthel (University of Leipzig) · 2007 2008 Beatrice Neumann (University of Leipzig) · 2005 2006 Gabriele Barthel (University of Konstanz) · 2004 2005 Ronny Hannemann (University of Konstanz) · 2004 Mirjam Bitzer (University of Konstanz) · 2002 2005 Sonja Schumacher (University of Konstanz)

LIST OF PUBLICATIONS

Bibliographical Record

h-Index	<i>how many papers with at least h citations</i>	35 (Google Scholar)
i10-Index	<i>how many papers with at least 10 citations</i>	77
Total number of citations		~ 4000 (Google Scholar)
Based on a total of		100 peer-reviewed publications
	of which as as first author	21
	of which as as senior author	53
Cumulated 5-year impact factor (IF) of all journals		537

⇒ [Jonas Obleser's profile at Google Scholar](#)

Peer-reviewed publications

1. Wilsch, A., Henry, M.J., Herrmann, B., Herrmann, C.S., & Obleser, J., (2018). Temporal expectation modulates the cortical dynamics of short-term memory. *The Journal of Neuroscience. In press.*
2. Herbst, S.K., Fiedler, L., & Obleser, J. (2018). Tracking temporal hazard in the human electroencephalogram using a forward encoding model. *eNeuro*. 5 (2) ENEURO.0017-18.2018
3. Wöstmann, M., Vosskuhl, J., Obleser, J., & Herrmann, C. (2018). Opposite effects of lateralised transcranial alpha versus gamma stimulation on auditory spatial attention. *Brain Stimulation. In press.*
4. Erb, J., Ludwig, A., Kunke, D., Fuchs, M., & Obleser, J., (2018). Temporal sensitivity measured shortly after cochlear implantation predicts six-month speech recognition outcome. *Ear and Hearing. In press.*
5. Lim, S.J., Wöstmann, M., Geweke, F., & Obleser, J. (2018). The benefit of attention-to-memory depends on the interplay of memory capacity and memory load. *Frontiers in Psychology* 9:184.
6. Tune, S., Wöstmann, M., & Obleser, J. (2018). Probing the limits of alpha power lateralization as a neural marker of selective attention in middle-aged and older listeners. *European Journal of Neuroscience. In press.*
7. Alavash, M., Lim, S.J., Thiel, C., Sehm, B., Deserno, L., & Obleser, J. (2018). Dopaminergic modulation of hemodynamic signal variability and the functional connectome during cognitive performance. *Neuroimage. In press.*
8. Wilsch, A., Neuling, T., Obleser, J., & Herrmann, C.S. (2018). Transcranial alternating current stimulation with speech envelopes modulates speech comprehension. *Neuroimage. In press.*
9. Waschke, L., Wöstmann, M., & Obleser, J., (2017). States and traits of neural irregularity in the age-varying brain. *Scientific Reports*. 17381.

10. Obleser, J., Henry, M.J., & Lakatos, P. (2017). What do we talk about when we talk about rhythm? *PLOS Biology*, 15(9):e2002794.
11. Herbst, S.K., Obleser, J. (2017). Implicit variations of temporal predictability: Shaping the neural oscillatory and behavioural response. *Neuropsychologia*. 101:141-152.
12. Henry, M.J., Herrmann, B., Kunke, D., Obleser, J. (2017). Aging affects the balance of neural entrainment and top-down neural modulation in the listening brain. *Nature Communications*. 8:15801
13. Fiedler, L., Wöstmann, M., Graversen, C., Brandmeyer, A., Lunner, T., & Obleser, J. (2017) Single-channel in-Ear-EEG detects the focus of auditory attention to concurrent tone streams and mixed speech. *Journal of Neural Engineering*. 14:036020
14. Wöstmann, M., Lim, S.J., Obleser, J. (2017). The human neural alpha response to speech is a proxy of attentional control. *Cerebral Cortex*. 27(6):3307-3317
15. Alavash, M., Daube, C., Wöstmann, M., Brandmeyer, A., Obleser, J. (2017). Large-scale network dynamics of beta-band oscillations underlie auditory perceptual decision-making. *Network Neuroscience*. 1(2):166-191
16. Maess, B., Mamashli, F., Obleser, J., Helle, L., Friederici, A.D. (2016). Prediction signatures in the brain: Semantic pre-activation during language comprehension. *Frontiers in Human Neuroscience*. 10:591
17. Wöstmann, M., Fiedler, L., Obleser, J. (2016). Tracking the signal, cracking the code: Speech and speech comprehension in non-invasive human electrophysiology. *Language, Cognition and Neuroscience*. *In press*.
18. Wöstmann, M., Obleser, J. (2016). Acoustic detail but not predictability of task-irrelevant speech disrupts working memory. *Frontiers in Human Neuroscience*. 10:538.
19. Petersen, Eline B., Wöstmann, M., Obleser, J., Lunner, T. (2016). Neural tracking of attended versus ignored speech is differentially affected by hearing loss. *Journal of Neurophysiology*. *In press*.
20. Herrmann, B., Henry, M.J., Johnsrude, I., Obleser, J., (2016). Altered Temporal Dynamics of Neural Adaptation in the Aging Human Auditory Cortex. *Neurobiology of Aging*. 45:10-22
21. Wöstmann, M., Herrmann, B., Maess, B., Obleser, J. (2016). Spatiotemporal dynamics of auditory attention synchronize with speech. *Proceedings of the National Academy of Sciences of the United States of America (P N A S)*. 113(14):3873-3878.
22. Henry, M.J., Herrmann, B., Obleser, J., (2016). Neural microstates govern perception of auditory input without rhythmic structure. *The Journal of Neuroscience*. 36(3):860-871
23. Lim, S.J., Wöstmann, M., Obleser, J. (2015). Selective attention to auditory memory neurally enhances perceptual precision. *The Journal of Neuroscience*. 35(49):16094-104
24. Wilsch, A., Obleser, J. (2015/2016). What works in auditory working memory? A neural oscillations perspective. *Brain Research*. 1640(Pt B):193-207
25. Herrmann, B., Parthasarathy, A., Han, E.X., Obleser, J., Bartlett, E.L. (2015) Sensitivity of rat inferior colliculus neurons to frequency distributions. *Journal of Neurophysiology*. 114(5):2941-54

26. Herrmann, B., Henry, M.J., Haegens, S., Obleser, J. (2015) Temporal Expectations and Neural Amplitude Fluctuations in Auditory Cortex Interactively Influence Perception. *Neuroimage*. 124:487-497
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Editorials and Comments

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Monographs

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Conference proceedings and Book chapters

1. Fiedler, L., Obleser, J., Lunner, T., Graversen, C. (2016). Ear-EEG allows extraction of neural responses in challenging listening scenarios – a future technology for hearing aids?, Conf Proc IEEE Eng Med Biol Soc. 5697-5700
2. Obleser, J., Strauß, A., & Wilsch, A. (2011). Neurocortical mechanisms of comprehension in degraded speech. In T. Dau, M. L. Jepsen, J. Cristensen-Dalsgaard, & T. Poulsen (Eds.). Speech perception and auditory disorders (pp. 251–262). Presented at the 3rd International Symposium on Auditory and Audiological Research, Nyborg, Denmark: The Danavox Jubilee Foundation.
3. Lohmann, G., Obleser, J., Friederici, A. D., Turner, R. (2009) Spectral clustering of low-frequency fluctuations in fMRI data reveal a distinct separation between the superior temporal sulcus and the superior temporal gyrus. In: ISMRM (Ed.) 17th Meeting of the Int. Soc. for Magn. Resonance in Medicine.
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Poster Presentations

- 2017 Society for Neuroscience Meeting, Washington, DC
Herbst et al., Plöchl et al., Tune et al., Wilsch et al., Wöstmann et al.
- Advances and Perspectives in Auditory Neuroscience (APAN; Sfn Satellite), Chicago
Tune et al., Wöstmann et al.
- Signal and Noise Along the Auditory Pathway (SNAP), Lübeck
Alavash et al., Herbst et al., Fiedler et al., Kreitewolf et al., Plöchl et al., Sentis et al., Tune et al., Waschke et al., Wöstmann et al.

- 2016 Society for Neuroscience Meeting, San Diego
Alavash et al., Fiedler et al., Graversen et al., Lim et al., Waschke et al., Wilsch et al.,
- Advances and Perspectives im Auditory Neuroscience (APAN; SfN Satellite), Chicago
Alavash et al., Fiedler et al., Lim et al., Waschke et al.
- 2016 Cognitive Neuroscience Society Meeting, New York
Herbst et al., Lim et al., Wöstmann et al.
- 2015 Society for Neuroscience Meeting, Chicago
Fiedler et al., Lim et al., Herrmann et al., Wilsch et al.
- Advances and Perspectives im Auditory Neuroscience (APAN; SfN Satellite), Chicago
Fiedler et al.
- Cognitive Neuroscience Society Meeting, San Francisco
Brandmeyer et al., Lim et al., Wöstmann et al.
- 2014 Auditory Cortex Meeting, Magdeburg
Brandmeyer et al., Henry et al., Herrmann et al.
- Society for Neuroscience Meeting, Washington, DC
Petersen et al., Henry et al., Herrmann et al., Wöstmann et al., Wilsch et al.
- Advances and Perspectives im Auditory Neuroscience (APAN; SfN Satellite), Washington, DC
Henry et al., Herrmann et al.
- Society Neurobiology of Language Conference, Amsterdam
Lim et al.
- Workshop on Speech in Noise: Intelligibility and Quality, Marseille
Wöstmann et al.
- Cognitive Neuroscience Society Meeting, Boston
Herrmann et al., Wilsch et al., Woestmann et al.
- 2013 Society for Neuroscience Meeting, San Diego
Henry et al., Daube et al., Erb et al., Herrmann et al., Kotz et al.
- Neurobiology of Language Conference, San Sebastian
Scharinger et al., Strauß et al.
- Rhythmic Dynamics and Cognition Conference, Boston
Henry et al., Herrmann et al.
- Conference on Cognitive Hearing Science for Communication, Linköping
Henry et al., Herrmann et al., Wöstmann et al.
- Psychologie & Gehirn Meeting, Würzburg
Erb et al., Wilsch et al., Herrmann et al.
- Cognitive Neuroscience Society Meeting, San Francisco
Scharinger et al., Wilsch et al.
- Deutsche Gesellschaft für Klin. Neurophysiologie und Funkt. Bildgebung
Golombek et al.
- 2012 German Society for Aphasia and its treatment, Leipzig
Erb et al., Meyer et al., Strauß & Obleser

Neurobiology of Language Conference, San Sebastian
Scharinger et al., Strauß & Obleser

Advances and Perspectives in Auditory Neurophysiology Symposium
Henry & Obleser

Society for Neuroscience Meeting, New Orleans
Henry & Obleser (2×), Erb et al., Wilsch et al., Scharinger et al., McGettigan et al.

Auditory Cortex Annual Meeting, Lausanne
Henry & Obleser, Herrmann et al., McGettigan et al.

Cognitive Neuroscience Society Meeting, Chicago
Erb et al., Henry et al., Mamashli et al., Strauß et al.

2011 Society for Neuroscience Meeting, Washington, DC
Scharinger et al., Bendixen et al., Jessen et al., Petkov & Obleser

Neurobiology of Language Conference, Washington, DC
Scharinger et al.

International Society for Research on Emotion, Kyoto
Jessen et al.

Structuring the Argument, Paris, France
Meyer et al.

European Society for Cognitive Psychology (ESCOP), San Sebastian, Spain
Knoll et al.

Human Brain Mapping Meeting, Quebec
Sehm et al.

Cognitive Neuroscience Society Meeting, San Francisco
Meyer et al., Herrmann et al.

Workshop on Speech in Noise: Intelligibility and Quality, Lyon
Hervais Adelman et al.

2010 Cognitive Neuroscience Society Meeting, Montréal
Meyer et al.

2009 Society for Neuroscience Meeting, Chicago
McGettigan et al.

International Conference on Auditory Cortex, Magdeburg
McGettigan et al.

Meeting of the Int. Soc. for Magn. Res. in Medicine (ISMRM), Hawaii
Human Brain Mapping Meeting, San Francisco
Lohmann et al.

Cognitive Neuroscience Society Meeting, San Francisco
Kotz et al.

Conference on Mismatch Negativity (MMN), Budapest
Tuomainen et al.

2006 Cognitive Neuroscience Society Meeting, San Francisco
Hannemann et al.

International conference on Biomagnetism, Vancouver
Tavabi et al.

Conference on Mismatch Negativity (MMN), Cambridge
Eulitz et al.

2002 Arbeitstagung für Psychophysiologische Methodik (APM), Tübingen
Eulitz et al.

2001 Cognitive Neuroscience Society Meeting, New York City
Eulitz et al.

Society for Psychophysiological Research Meeting, Montréal
Eulitz et al.

Poster Presentations as first author:

2011 Society for Neuroscience Meeting, Washington, DC

Cognitive Neuroscience Society Meeting, San Francisco

2010 Neurobiology of Language Conference, San Diego

Cognitive Neuroscience Society Meeting, Montréal

2009 Society for Neuroscience Meeting, Chicago

International Conference on Auditory Cortex, Magdeburg

2008 Society for Neuroscience Meeting, San Francisco

2007 Society for Neuroscience Meeting, New York City

2006 International Conference on Auditory Cortex, Grantham

Meeting of the Association for Research in Otolaryngology (ARO), Baltimore

2005 Society for Neuroscience Meeting, Washington, D.C.

Society for Neuroscience Meeting, New York City

2004 Human Brain Mapping Meeting, Budapest

2003 International Conference on Auditory Cortex, Magdeburg

2002 Cognitive Neuroscience Society Meeting, San Francisco

International conference on Biomagnetism (BioMag), Jena

2001 Arbeitstagung für Psychophysiologische Methodik (APM), Marburg

Society for Psychophysiological Research Meeting, Montréal

TEACHING

Courses and Lecture series

- 2017 Auditory Cognition
(MSc; 2 SWS)
- 2015 Basics of experimental psychology and research methods
(BSc; 4 SWS)
- Statistics I
(BSc; 4 SWS)
- Statistics II
(Bsc; 2 SWS)
- Auditory Cognition
(MSc; 4 SWS)s
- Research Methods in Cognitive Neuroscience
(MSc; 2 SWS)
- Multivariate Statistical Analyses
(MSc; 2 SWS)
- Scientific communication
(Msc; 2 SWS)
- Testing in psychology: Classical and probabilistic testing theory
(Msc; 2 SWS)
- 2013/14 General Psychology II: Learning, Memory, & Motivation, Leipzig, Psychology (BSc), 3. Semester (2 × 2 SWS)
- 2012/13 General Psychology II: Learning, Memory, & Motivation, Leipzig, Psychology (BSc), 3. Semester (2 × 2 SWS)
+ Select sessions in parallel “General Psychology II: Attention & Emotion” seminar on “How can Attention, Motivation, and Emotion be related? (Emotion regulation)”
- 2012 Methods of Cognitive Neuroscience (Module: Methods of Psychology), with Moritz Daum, Leipzig, Psychology (BSc), 2. Semester (2 SWS)

- 2011/12 General Psychology: Learning, Memory, & Motivation, Leipzig, Psychology (BSc), 3. Semester (2 × 2 SWS)
 + Select sessions in parallel “General Psychology II: Attention & Emotion” seminar on “How can Attention, Motivation, and Emotion be related? (Emotion regulation)”
- 2011 Methods of Cognitive Neuroscience (Module: Methods of Psychology), with Moritz Daum, Leipzig, Psychology (BSc) , 2. Semester (2 SWS)
- 2005 Neurocognition of Phonology and Morphology, with Carsten Eulitz, Linguistics (BA) and Psychology (Diplom), Konstanz (2 SWS)
- 2004 Neurocognition of language: Seminar, Subject Cognitive Neuroscience, with Claudia Friedrich, Psychology (Diplom), Konstanz (2 SWS)
- 2002 Neural systems of Cognition: Seminar, with Carsten Eulitz, Psychology, Konstanz, Biological Psychology (Vordiplom), (2 SWS)

Single lectures (BSc, MSc, Diplom)

- 2016 Basics of Psychometrics and testing theory for Medical Engineers
- 2014 Basic Terminology and Structure of the Central Nervous System, BSc Psychology, University of Salzburg
- 2013 Auditory Cognition, International Max Planck Research School (IMPRS), Leipzig
- 2010 Neural Bases of Acoustic & Phonetic Processing, in the International Max Planck Research School (IMPRS), Leipzig
- Positron-Emission-Tomography, in the Methods of Cognitive Neuroscience series, Leipzig
- 2008 Localization in the brain: Acoustics, Prosody, Semantics, in the Graduate School of Mind & Brain, Berlin
- 2005 Auditory neuroscience, in the Neuropsychology lecture series, Psychology, Konstanz
- Basics of neuroimaging: MRI, fMRI, PET, in the Neuropsychology lecture series, Psychology, Konstanz

- 2004 Auditory neuroscience, in the Neuropsychology lecture series, Psychology, Konstanz
- Basics of neuroimaging: MRI, fMRI, PET, in the Neuropsychology lecture series, Psychology, Konstanz

Journal Clubs · Colloquia

- 2017 A crash course in Biostatistics (2-day seminar for Life sciences PhD students)
- 2017 Stats Café, walk-in statistical consulting for undergraduates
- 2010 2015 Speech & Sound Club, Guest Lecture series featuring international guest speakers, Leipzig
- 2005 2006 Journal Club for Speech & Neuroimaging, Institute of Cognitive Neuroscience, London
- 2002 2003 Neurolinguistics Journal Club, University of Konstanz, with Carsten Eulitz, Konstanz