

JONAS OBLESER

Prof. Dr. rer. nat. habil., Dipl.-Psych., *1975, Waiblingen, Germany
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Chair (W3) in Physiological Psychology and Research Methods
Co-director, Department of Psychology,
University of Lübeck, Lübeck, Germany

RESEARCH INTEREST

- Neural Dynamics and Neural Computations in Cognition
- Speech and Language Comprehension
- Methodological and Statistical Advances in Neuroscience
- Translational Neuroscience in Hearing Loss, Mental Health, 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. Elbert
- 1997–2001 Undergraduate research assistant, Psychophysiological Laboratories of the Department of Psychology, Profs T. Elbert & B. Rockstroh; Department of Psychology, University of Konstanz, Germany, Prof. G. Trommsdorff

FUNDING · GRANT SUPPORT

Funding over € 1,000,000

- 2016–2021 The listening challenge: How ageing brains adapt (AUDADAPT),
ERC Consolidator Grant
€ 2,000,000
- 2011–2015 Max Planck Research Group “Auditory Cognition”,
Max Planck Society, Germany,
€ 1,500,000
- 2023–2026 Competence Cluster Anonymization for Medical Applications (AnoMed),
BMBF (Federal Ministry for Education and Research, Germany),
Spokesperson: Esfandiar Mohammadi, University of Lübeck
€ 10,000,000 (University of Lübeck: 7,000,000 €)
Co-PI Obleser 270,000 €

Funding over € 100,000

- 2023–2026 How perceptual inference changes with age: Behavioural and brain dynamics of speech perception
DFG (PI: Sarah Tune)
€ 360,000
- 2023–2026 Capture and suppression in auditory attention
DFG (PI: Malte Wöstmann)
€ 270,000
- 2023–2026 Navigating the real world and its trajectory in the ageing listening mind
Widex Sivantos Audiology (WSA), Germany/Denmark
€ 270,000
- 2023–2026 Hanseatic Hearing [‘Hörhanse’] – Building a sustainable transfer and translation platform for hearing health (Co-Applicant with Hanse Innovation Campus GmbH, Hendrik Husstedt, Markus Kallinger, Anke Leichtle)
Damp Foundation, Schleswig-Holstein, Germany
€ 300,000
- 2021–2024 The impact of domain-general networks on natural language comprehension
DFG (Co-PI: Gesa Hartwigsen, MPI Leipzig)
€ 627,000
- 2019–2022 Attending and ignoring in normal-hearing and hearing-impaired listeners
Sivantos, Germany
€ 185,000
- 2020–2023 Network identification and characterization of spatial attention in the listening brain
DFG (PI: Mohsen Alavash)
€ 380,000
- 2017–2020 Modulating neural network dynamics of speech comprehension: The role of the angular gyrus
DFG (Co-PI: Gesa Hartwigsen, MPI Leipzig)
€ 370,000
- 2019–2022 Understanding the temporal dynamics of the auditory attentional filter
DFG (PI: Malte Wöstmann)
€ 220,000
- 2016–2019 One clock? Investigating the Neurocognitive Mechanisms of Implicit and Explicit Timing (PI: Sophie Herbst)
€ 150,000

- 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
- 2001–2005 Contributions to two collaborative research grants,
DFG (SFB 471 and FOR 348; PIs: C. Eulitz, A. Lahiri),
including € 100,000 for MR-compatible EEG system

Individual funding under € 100,000

- 2019–2021 Modelling bimodal benefit
Cochlear Inc. (Co-PI: Malte Wöstmann)
€ 96,000
- 2004–2006 Neural mechanisms of spatiotemporal coding of speech,
Baden-Württemberg Foundation gGmbH,
€ 50,000
- 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, Uni-
versity 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

- 2023 Associate Faculty Member (“Zweitmitgliedschaft”),
Section of Medicine, University of Lübeck, Lübeck, Germany
- 2018 Nominee, FENS-Kavli Network of Excellence, Mentoring Prize

- 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

- 2022 Trainee Lea-Maria Schmitt: University of Lübeck Prize for best dissertation in STEM
- 2020 Trainee Malte Wöstmann: Renate Maaß Prize for Neuroscience, Lübeck
- 2019 Trainees Sarah Tune and Mohsen Alavash, University of Lübeck Prize
awarded for their joint first-author publication in PNAS in 2019 (see Publications)
Trainee Lea-Maria Schmitt: G.A. Lienert Travel Fellowship,
3 months training at Princeton University
- 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 Roerto Attention Work-
shop
- 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

- 2021— American Association for the Advancement of Science (AAAS)
- 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.....

2019— Reviewing Editor, *eLife* (<http://elifesciences.org>)
 2019— Reviewing Editor, *The Journal of Neuroscience* (<http://jneurosci.org>)
 2019— Editorial Advisory Board, *Progress in Neurobiology*

2016–2018 Associate Editor, *The Journal of Neuroscience*
 2016–2018 Handling Editor, *Neuroimage*
 2015–2018 Action Editor, *Brain and Language*

2020 Guest Editor, PLoS Computational Biology
 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, EU
 NSF – National Science Foundation, US
 NIH – National Institute of Health, US
 BMBF – Bundesministerium für Bildung und Forschung, D
 NWO – Netherlands Organisation for Scientific Research, NL
 Action on Hearing Loss, UK
 CNRS/Inserm – France, FR
 HFSP – Human Frontier Science Program
 FNRS – Fonds de la Recherche Scientifique, Belgium
 DFG – Deutsche Forschungsgemeinschaft
 ARO – Army Research Office, US
 NSERC – Canadian Government, CA
 ANR – Agence Nationale de la Recherche, FR
 MRC – Medical Research Council, UK
 Wellcome Trust, UK

2001— *Ad hoc reviews for peer-reviewed journals:*
 Science,
 Nature Reviews Neuroscience,
 Nature Human Behaviour,
 Trends in Cognitive Sciences,
 Neuron,
 Nature Communications,
 Nature Biomedical Engineering,
 Science Advances,
 Proceedings of the National Academy of Sciences (PNAS),
 eLife,
 Current Biology,
 PLoS Biology,
 Brain,
 Journal of Neuroscience,
 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,
 iScience

COMMISSIONS OF TRUST AND ACADEMIC SERVICE

- 2022— Chair, Scientific Advisory Board,
 Max Planck Institute for Human Development, Berlin
- 2018— Member, Senat [University Senate], University of Lübeck
- 2018— Member, Senatsausschuss der Sektionen Naturwissenschaft und Technik [University Senate
 Board STEM], University of Lübeck
- 2021— Member, Animal Welfare Board, University of Lübeck
- 2017–2019 Member, Research Ethics Committee (IRB), University of Lübeck
- 2016–2022 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
- 2015— Regular service on faculty and university leadership search committees at University of
 Lübeck, Technische Hochschule Lübeck, and Musikhochschule 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, Conflict resolution
 Module 3: Strategic development, project and process management
 Module 4: Time and self management, working methods

INVITED TALKS

> 70 invited talks and keynote lectures since 2005

- 2023 Max Planck Institute for Psycholinguistics, Nijmegen, NL
Dept of Comparative Linguistics, University of Zürich, Switzerland
Symposium for Cognitive Auditory Neuroscience (SCAN), Carnegie Mellon University (Online), US
Neurocolloquium, Center of Mind,Brain, and Behaviour (CMBB), University of Marburg, D
- 2022 Auditory Cognition Group, University of Newcastle, UK (Online)
International Conference on Auditory Cortex (ICAC), Magdeburg, D
Salzburg Mind Brain Annual Meeting (SAMBA), Salzburg, Austria
Hearing Sciences Department, University of Nottingham, UK (Online)
Brainmap Seminar Series, Martinos Center, Boston, US (Online)
- 2021 Cognition and Natural Sensory Processing Workshop (CNSP), Dublin, IR (Online)
Cognitive Hearing Forum, Palo Alto (Online), US
- 2020 Neurospin, CEA-Saclay, FR
- 2019 University of Konstanz, Konstanz, D
Oticon Symposium 2019, Hamburg, D
International Graduate School of Neuroscience (IGSN), Ruhr University Bochum, D
International Conference on Cognitive Hearing Science for Communication (CHSCOM), Linköping, Sweden
Department of Psychology, University of Leipzig, Leipzig, D
Institute of Neuroscience, University of Barcelona, Spain
Erlanger Symposium 2019 (organised by SIVANTOS Audiology Germany)
Interdisciplinary Research Forum, KIND Foundation, Berlin, D
Speech in Noise Workshop, University of Ghent, Belgium
- 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

- 2019— Chair of the Symposium committee, Cognitive Neuroscience Society (CNS)
 2019 Co-Organiser, Workshop *Replication of Crises: Psychology in Times of Epistemic Upheaval*,
 University of Lübeck, Lübeck
 2018— Member of the Symposium committee, 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

- 2008— Nathan Weisz, University of Trento, IT
- 2019 Christoph Kayser, Glasgow, UK and Bielefeld, D
- 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
- 2008–2011 Christopher Petkov, University of Newcastle, UK
- 2011–2018 Thomas Lunner, Eriksholm Research Centre, DK & University of Linköping, SE
- 2011–2017 Carolyn McGettigan, Royal Holloway, London, UK
- 2013–2016 Ed Bartlett, Purdue University, USA
- 2014–2017 Peter Lakatos, NYU / Nathan Kline Institute, US
- 2015–2018 Christiane Thiel, Oldenburg University, DE
- 2017— Sabine Kastner, Princeton University, US
- 2023— Valentin Wyart, Ecole Normale Supérieure, Paris, FR

PUBLIC OUTREACH AND MEDIA

- 03-2023 Invitations as Germany-wide talk radio panelist, Deutschlandfunk, "Sonification"
 SWR2, "Hören und Zuhören"
- 09-2022 Educational talk on sample size and statistical power for animal welfare officers, Animal welfare conference Travemünde (TTT), Travemünde, D
- 04-2022 Public science talk, Symposium 'Music and Health', Schloss Kapfenburg, D

- 10-2021 Speaker, panelist, and book contributor for ‘Listening/hearing’, bonnhoeren.de, Bonn, D
- 04-2018 Life story: Jonas Obleser, eLife Series on “[Scientist and Parent](#)”
- 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 Paulo 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>
- 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 MENTORING

Sponsored postdoctoral researchers:

- 2021 Lea-Maria Schmitt (*next*: F.C. Donders Institute, Nijmegen)
- 2021 Léon Franzen (*next*: Clinician Scientist, University Hospital Schleswig-Holstein)
- 2020— Hong-Viet V. Ngo (*next*: Lecturer, University of Essex)
- 2019–2020 Sebastian Puschmann (*next*: University of Oldenburg)
- 2018–2021 Julia Erb (*next*: Mimi Technologies, Berlin, Germany)
- 2017–2020 Jens Kreitewolf (*next*: McGill University, Montreal)
- 2016— Sarah Tune
- 2015— Malte Wöstmann
- 2015–2019 Mohsen Alavash (*next*: PI on own DFG grant)
- 2016–2019 Michael Plöchl (*next*: Research-methods education)
- 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., CA, US)
 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:

- 2022— Merle Schuckart, Domain-general networks in language prediction
 2021— Frauke Kraus, Neural signatures of effortful listening and attending in time
 2020— Markus Kemper, Listening effort as a neural and psychological phenomenon
 2019–2023 Martin Orf, Active ignoring
 2017–2020 Lea-Maria Schmitt, Neural and artificial neural networks of semantic predictability
 2016–2019 Leonhard Waschke, Auditory decision-making in the aging brain
 2015–2018 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:

**supervised by and funded through projects of J.O.*

- 2023 Juliane Schubert (Dr. rer. nat.), University of Salzburg
 2023 Pauline Petereit (Dr. rer. nat.), University of Lübeck
 2022 Martina Obst (Dr. rer. medic.), University of Lübeck
 2021 Ann Catrin Arndt (Dr. rer. medic.), University of Lübeck
 2021 Lea-Maria-Schmitt (Dr. rer. nat.), University of Lübeck *
 2020 Julian Kosciessa (Dr. rer. nat.), Humboldt University Berlin
 2020 Leonhard Waschke (Dr. rer. nat.), University of Lübeck *
 2019 Martin Dahl (Dr. rer. nat.), Free University Berlin
 2019 Magdalena Keppeler (Dr. med.), University of Lübeck
 2019 Moushfa Yousuf (Dr. rer. nat.), University of Lübeck
 2019 Linda Drijvers (PhD), Radboud University Nijmegen
 2019 Christina Späth (Dr. rer. hum. biol.), University of Lübeck
 2019 Lorenz Fiedler (Dr. rer. nat.), University of Lübeck *
 2018 Marvin Metzger (Dr. med.), University of Lübeck
 2018 Matthias Liebrand (Dr. rer. nat.), University of Lübeck
 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 BSc and MSc theses since 2006

in Psychology, Medical Life Sciences, Mathematics in Medicine and Life sciences, Cognitive Science, and Medical Computer Science

TEACHING

Courses and Lecture series

2022—	Statistics III (Multivariate statistics including causal inference and basics in machine-learning) (MSc)
2017—	Auditory Cognition (incl. auditory neurophysiology, auditory perception, psychoacoustics) (MSc)
2015—	Basics of experimental psychology and research methods (BSc) Statistics I (BSc), Statistics II (BSc), Statistics III (Multivariate Statistical Analyses; MSc) Research Methods in Cognitive Neuroscience (MSc)
2015–2022	Scientific communication (Msc)
2015–2017	Testing in psychology: Classical and probabilistic testing theory (Msc)
2013/14	General Psychology II: Learning, Memory, & Motivation, Leipzig, Psychology (BSc), 3. Semester (2 × 2 SWS)
2011/12, 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)”
2011, 2012	Methods of Cognitive Neuroscience (Module: Methods of Psychology), with Moritz Daum, Leipzig, Psychology (BSc), 2. Semester (2 SWS)
2024, 2005	Neurocognition of Phonology and Morphology, with Carsten Eulitz, Linguistics (BA) and Psychology (Diplom), Konstanz, (2 SWS)
2002	Neural systems of Cognition: Seminar, with Carsten Eulitz, Psychology, Konstanz, Biological Psychology (Vordiplom) (2 SWS)

Select 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

- 2019— CBBM Neuro hour (General-interest Journal Club), Center for Brain, Behaviour, and Metabolism, University of Lübeck
- 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

LIST OF PUBLICATIONS

Bibliographical Record→ [Jonas Obleser's profile at Google Scholar](#)

h-Index — <i>how many papers with at least h citations</i>	60 (Google Scholar)
i10-Index — <i>how many papers with at least 10 citations</i>	124
Total number of citations	~ 10,200 (Google Scholar)
Based on a total of	146 peer-reviewed publications
	(of which 125 are original research paper)
of which as first author	24
of which as senior author	79
Cumulated Journal impact factor (IF)	780

Peer-reviewed publications* *shared first-authorship*§ *shared senior-authorship*

1. Tune, S, & Obleser, J. (2024). Neural attentional filters and behavioural outcome follow independent individual trajectories over the adult lifespan. *eLife*. <https://doi.org/10.7554/eLife.92079.3>
2. Bunzeck, N., Steiger, T.K., Krämer, U.M., Luedtke, K., Marshall, L., Obleser, J., & Tune, S. (2024). Trajectories and contributing factors of neural compensation in healthy and pathological aging. *Neuroscience and Biobehavioral Reviews*. 156:105489
3. Kraus, F., Obleser, J.[§] & Herrmann, B.[§] (2023). Pupil-size sensitivity to listening demand depends on motivational state. *eNeuro*. 10(12):ENEURO.0288-23.2023
4. Andreou, C, Eickhoff, S., Heide, M., de Bock, R., Obleser, J., & Borgwardt, S. (2023). Predictors of transition in patients with clinical high risk for psychosis: An umbrella review. *Translational Psychiatry*. 13(1):286
5. Orf, M., Hannemann, R., Wöstmann, M., & Obleser, J. (2023). Target enhancement but not distractor suppression in auditory neural tracking during continuous speech. *iScience (Cell Press)*. 26(6):106849
6. Lui, K.-Y., Obleser, J., & Wöstmann, M. (2023). Slow neural oscillations explain temporal fluctuations in distractibility. *Progress in Neurobiology*. 226:102458
7. Kraus, F., Tune, S., & Obleser, J. [§], Herrmann, B. [§] (2023). Neural alpha oscillations and pupil size differentially index cognitive demand under competing audio-visual task conditions. *The Journal of Neuroscience*. 43(23):4352-4364
8. Lubinus, C., Keitel, A., Obleser, J., Poeppel, D., & Rimmele, J.M. (2023). Explaining flexible continuous speech comprehension from individual motor rhythms. *Proceedings of the Royal Society B*. 290(1994):20222410
9. Ngo, H.V.V., Oster, H., Andreou, C., Obleser, J. (2023). Circadian Rhythms in Auditory Hallucinations and Psychosis. *Acta Physiologica*. 237(4):e13944
10. Herrmann, B., Maess, B., Henry, M.J., Obleser, J., & Johnsrude, I. (2023). Neural signatures of task-related fluctuations in auditory attention and age-related changes. *Neuroimage*. 268:119883
11. Lim, S.J., Thiel, C., Sehm, B., Deserno, L., Lepsien, J., & Obleser, J., (2022). Distributed networks for auditory memory differentially contribute to recall precision. *Neuroimage*. 256:119227
12. Rysop, A., Schmitt, L.M., Obleser, J., & Hartwigsen, G. (2022). Age-related differences in the neural network interactions underlying the predictability gain. *Cortex*. 154:269-286
13. Herbst, S., Obleser, J., & van Wassenhove, V. (2022). Implicit versus explicit timing – separate or shared mechanisms. *Journal of Cognitive Neuroscience*. 34(8):1447-1466

14. Wöstmann, M., Störmer, V., Obleser, J., Addleman, D.A., Andersen, S.K., Gaspelin, N., Geng, J.J., Luck, S.J., Noonan, M.P., Slagter, H.A., Theeuwes, J. (2022). Ten simple rules to study distractor suppression. *Progress in Neurobiology*. 213:102269
15. Schmitt, L.M., Erb, J., Tune, S., Rysop, A., Hartwigsen, G., & Obleser, J. (2021). Predicting speech from a cortical hierarchy of event-based timescales. *Science Advances*. 7(49):eabi6070.
16. Herbst, S.K., Stefanics, G., Obleser, J. (2022). Endogenous modulation of delta phase by expectation – A replication of Stefanics et al., 2010. *Cortex*. 149:226-245
17. Plöchl, M., Fiebelkorn, I., Kastner, S., & Obleser, J. (2021). Attentional sampling of visual and auditory objects is captured by theta-modulated neural activity. *European Journal of Neuroscience*. doi: 10.1111/ejn.15514
18. Jessen, S., Obleser, J., & Tune, S. (2021). Neural tracking in infants – An analytical tool for multisensory social processing in development. *Developmental Cognitive Neuroscience*. 52:101034
19. Waschke, L., Donoghue, T., Fiedler, L., Smith, S., Garrett, D.D., Voytek, B., & Obleser, J. (2021). Modality-specific tracking of attention and sensory statistics in the human electrophysiological spectral exponent. *eLife*, 10:e70068
20. Alavash, M., Tune, S., & Obleser, J. (2021). Dynamic large-scale connectivity of intrinsic cortical oscillations supports adaptive listening in challenging conditions. *Plos Biology*. 19(10): e3001410.
21. Tune, S., Alavash, M., Fiedler, L., & Obleser, J. (2021). Neural attentional-filter mechanisms of listening success in middle-aged and older individuals. *Nature Communications*. 12:4533.
22. Lavan, N., Kreitewolf, J., Obleser, J., & McGettigan, C. (2021). Familiarity and task context shape the use of acoustic information in voice identity perception. *Cognition*. 215:104780.
23. Kraus, F., Tune, S., Ruhe, A., Obleser, J., & Wöstmann, M. (2021). Unilateral acoustic degradation delays attentional separation of competing speech. *Trends in Hearing*. 25:23312165211013242
24. Obleser, J., Kreitewolf, J., Vielhauer, R., Lindner, F., David, C., Oster, H. [§], & Tune, S. [§] (2021). Circadian fluctuations in glucocorticoid level predict perceptual discrimination sensitivity. *iScience (Cell Press)*. 24 (4): 102345
25. Waschke, L., Kloosterman, N.A., Obleser, J., [§] & Garrett, D.D. [§] (2021). Behaviour needs neural variability. *Neuron*. 109(5): 751-766
26. Keitel, C., Obleser, J., Jessen, S., & Henry, M.J. (2021). Frequency-Specific Effects in Infant Electroencephalograms Do Not Require Entrained Neural Oscillations: A Commentary on Köster et al. (2019) *Psychological Science*. 32(6): 966–971.
27. Wöstmann, M., Maess, B., & Obleser, J. (2021). Orienting auditory attention in time: Lateralized alpha power reflects spatio-temporal filtering. *Neuroimage*. 228:117711.
28. Erb, J., Kreitewolf, J., Pinheiro, A.P., & Obleser, J. (2020). Aberrant perceptual judgements on speech-relevant acoustic features in hallucination-prone individuals. *Schizophrenia Bulletin Open*. 1(1): sgaa059
29. Rysop, A.U., Schmitt, L.M., Obleser, J.[§], Hartwigsen, G.[§] (2021). Neural modelling of the semantic predictability gain under challenging listening conditions. *Human Brain Mapping*. 42(1):110-127
30. Erb, J., Schmitt, L.M., & Obleser, J. (2020). Temporal selectivity declines in the aging human auditory cortex. *eLife*. 9:e55300
31. Astiz, M., Heyde, I., Fortmann, M., Bossung, V., Roll, V., Stein, A., Grüttner, B., Göpel, W., Härtel, C., Obleser, J., & Oster, H. (2020). The circadian phase of antenatal glucocorticoid treatments affects the risk of behavioural disorders. *Nature Communications*. 11(1):3593.
32. Wöstmann, M., Lui, T.K.-Y., Frieese, K.H., Kreitewolf, J., Naujokat, M., & Obleser, J. (2020). The vulnerability of working memory to distraction is rhythmic. *Neuropsychologia*. 146:107505
33. Wilsch, A., Mercier, M., Obleser, J., Schroeder, C.E., & Haegens, S. (2020). Spatial Attention and Temporal Expectation Exert Differential Effects on Visual and Auditory Discrimination. *Journal of Cognitive Neuroscience*. 32(8):1562-1576
34. Waschke, L., Tune, S., & Obleser, J. (2019). Local cortical desynchronization and pupil-linked arousal differentially shape brain states for optimal sensory performance. *eLife*. 8:e51501
35. Wöstmann, M., Alavash, M., & Obleser, J., (2019). Alpha oscillations in the human brain implement distractor suppression independent of target selection. *The Journal of Neuroscience*. 39(49):9797-9805.

36. Herbst, S.K. & Obleser, J. (2019). Implicit temporal predictability enhances pitch discrimination sensitivity and biases the phase of delta oscillations in auditory cortex. *Neuroimage*. 203:116198
37. Obleser, J.*, & Kayser, C.* (2019). Neural entrainment and attentional selection in the listening brain. *Trends in Cognitive Sciences*. 23(11):913-926.
38. Jessen, S., Fiedler, L., Münte, T.F., & Obleser, J. (2019). Quantifying the individual auditory and visual brain response in 7- month-old infants watching a brief cartoon movie. *NeuroImage*. 202:116060.
39. Kreitewolf, J., Wöstmann, M., Tune, S., Plöchl, M., & Obleser, J. (2019). Working-memory disruption by task-irrelevant talkers depends on degree of talker familiarity. *Attention, Perception, & Psychophysics*. 81(4):1108-1118.
40. Wöstmann, M. *, Schmitt, L.M. *, & Obleser, J. (2019). Does closing the eyes enhance auditory attention? Eye closure increases attentional alpha-power modulation but not listening performance. *Journal of Cognitive Neuroscience*. 26:1-14.
41. Alavash, M.*, Tune, S.*, & Obleser, J. (2019). Modular reconfiguration of an auditory-control brain network supports adaptive listening behavior. *Proceedings of the National Academy of Sciences of the United States of America (P N A S)*. 116(2):660-669.
42. Mamashli, F., Khan, S., Obleser, J., Friederici, A.D., & Maess, B.(2018/2019). Oscillatory dynamics of cortical functional connections in semantic prediction. *Human Brain Mapping*. 40(6):1856-1866
43. Fiedler, L., Wöstmann, M., Herbst, S.K., & Obleser, J. (2019). Late cortical tracking of ignored speech facilitates neural selectivity in acoustically challenging conditions. *Neuroimage*. 186:33-42.
44. Wöstmann, M., Waschke, L., & Obleser, J. (2019). Prestimulus neural alpha power predicts confidence in discriminating identical auditory stimuli. *European Journal of Neuroscience*. 49(1):94-105.
45. Erb, J., Ludwig, A., Kunke, D., Fuchs, M., & Obleser, J., (2019). Temporal sensitivity measured shortly after cochlear implantation predicts six-month speech recognition outcome. *Ear and Hearing*. 40(1):27-33
46. Kreitewolf, J., Mathias, S.R., Trapeau, R., Obleser, J., & Schönwiesner, M. (2018). Perceptual grouping in the cocktail party: contributions of voice-feature continuity. *Journal of the Acoustical Society of America (JASA)*. 144(4):2178.
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48. Herbst, S.K., Fiedler, L., & Obleser, J. (2018). Tracking temporal hazard in the human electroencephalogram using a forward encoding model. *eNeuro*. 5 (2)
49. Wöstmann, M., Vosskuhl, J., Obleser, J., & Herrmann, C. (2018). Opposite effects of lateralised transcranial alpha versus gamma stimulation on auditory spatial attention. *Brain Stimulation*. 11(4):752–758.
50. 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.
51. 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*. 48(7):2537-2550.
52. 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*. 172:341–356.
53. Wilsch, A., Neuling, T., Obleser, J., & Herrmann, C.S. (2018). Transcranial alternating current stimulation with speech envelopes modulates speech comprehension. *Neuroimage*. 172:766–774.
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55. Obleser, J., Henry, M.J., & Lakatos, P. (2017). What do we talk about when we talk about rhythm? *PLOS Biology*, 15(9):e2002794.
56. Herbst, S.K., Obleser, J. (2017). Implicit variations of temporal predictability: Shaping the neural oscillatory and behavioural response. *Neuropsychologia*. 101:141-152.
57. 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

58. 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
59. 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
60. 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
61. Scharinger, M., Bendixen, A., Herrmann, B., Henry, M.J., Mildner, T., & Obleser, J. (2016). Predictions interact with missing sensory evidence in semantic processing areas. *Hum Brain Mapp*. 37(2):704-16.
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