JONAS OBLESER

Prof. Dr. rer. nat. habil., Dipl.-Psych., *1975, Waiblingen, Germany
jonas.obleser@uni-luebeck.de · jonasobleser.com

Chair in Physiological Psychology and Research Methods,
Department of Psychology,
University of Lübeck, Lübeck, Germany

RESEARCH INTEREST

· Neural Dynamics and Neural Computations in Cognition

· Auditory Perception and 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

2019 2021 Modelling bimodal benefit
Cochlear Inc. (Co-PI: Malte Wöstmann)
€ 96,000

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 Roverto Attention 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

2019 Reviewing Editor, *The Journal of Neuroscience*

2016 2018 Associate Editor, *The Journal of Neuroscience*

2016 2018 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

2019	Institute of Neuroscience, University of Barcelona, Spain
	Erlanger Symposium (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

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

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

2018	Member, Senat [University Senate], University of Lübeck
2018	Member, Senatsausschuss der Sektionen Naturwissenschaft und Technik [University Senate Board STEM], University of Lübeck
2017 2019	Member, Research 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 2019	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

LIST OF PUBLICATIONS

Bibliographical Record

↦ Jonas Obleser's profile at Google Scholar

h-Index	*how many papers with at least h citations*	38 (Google Scholar)
i10-Index	*how many papers with at least 10 citations*	82
Total number of citations		~ 4500 (Google Scholar)

Based on a total of		106 peer-reviewed publications
	of which as first author	21
	of which as senior author	57

Cumulated 5-year impact factor (IF) of all journals 565

Peer-reviewed publications

1. Alavash, M., Tune, S., & Obleser, J. (2018/2019). 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). *In press*.
2. 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. In press.
3. Fiedler, L., Wöstmann, M., Herbst, S.K., & Obleser, J. (2018). Late cortical tracking of ignored speech facilitates neural selectivity in acoustically challenging conditions. Neuroimage. In press.
4. Wöstmann, M., Waschke, L., & Obleser, J. (2018). Prestimulus neural alpha power predicts confidence in discriminating identical auditory stimuli. European Journal of Neuroscience. *In press.*
5. 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). In press.

6. 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. 38(34), 7428 7439.
7. Herbst, S.K., Fiedler, L., & Obleser, J. (2018). Tracking temporal hazard in the human electroencephalogram using a forward encoding model. eNeuro. 5 (2)
8. 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.
9. 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*.
10. 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.
11. 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.*
12. 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.
13. Wilsch, A., Neuling, T., Obleser, J., & Herrmann, C.S. (2018). Transcranial alternating current stimulation with speech envelopes modulates speech comprehension. Neuroimage. 172:766 774.
14. Waschke, L., Wöstmann, M., & Obleser, J., (2017). States and traits of neural irregularity in the age-varying brain. Scientific Reports. 17381.
15. Obleser, J., Henry, M.J., & Lakatos, P. (2017). What do we talk about when we talk about rhythm? PLOS Biology, 15(9):e2002794.
16. Herbst, S.K., Obleser, J. (2017). Implicit variations of temporal predictability: Shaping the neural oscillatory and behavioural response. Neuropsychologia. 101:141-152.
17. 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
18. 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
19. 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
20. 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

21. 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.

22. 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

23. 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.*

24. Wöstmann, M., Obleser, J. (2016). Acoustic detail but not predictability of task-irrelevant speech disrupts working memory. Frontiers in Human Neuroscience. 10:538.

25. 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.*

26. 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

27. 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.

28. 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

29. 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

30. Wilsch, A., Obleser, J. (2015/2016). What works in auditory working memory? A neural oscillations perspective. Brain Research. 1640(Pt B):193-207

31. 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

32. 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

33. Petersen, E.B., Wöstmann, M., Obleser., J, Stenfelt, S., Lunner, T. (2015) Hearing loss impacts neural alpha oscillations under adverse listening conditions. Front Psychol 6:177

34. Herrmann, B. , Henry, M.J. , Fromboluti, E.K., McAuley, J.D., Obleser, J. (2015) Statistical Context Shapes Stimulus-Specific Adaptation in Human Auditory Cortex. Journal of Neurophysiology. 13(7):2582-91

35. Strauß, A., Henry, M.J., Scharinger, M., Obleser, J. (2015) Alpha phase determines successful lexical decision in noise. The Journal of Neuroscience. 35(7):3256-62

36. Wilsch, A., Henry, M.J. , Herrmann, B. , Maess, B., Obleser, J. (2015) Slow-delta phase concentration marks improved temporal expectations based on the passage of time. Psychophysiology. 52(7):910-8.

37. Wöstmann, M., Herrmann, B., Wilsch, A., Obleser, J. (2015) Neural alpha dynamics reflect acoustic challenges and predictive benefits in adverse listening situations. The Journal of Neuroscience. 35(4):1458-67.

38. Henry, M.J., Herrmann, B., Obleser, J. (2015) Selective attention to temporal features nested in time. Cerebral Cortex. 25(2):450 9.

39. Wöstmann, M., Schröger, E., Obleser, J. (2014) Acoustic detail cues allocation of attention in a selective listening task. Journal of Cognitive Neuroscience. 12:1 13.

40. Scharinger, M., Henry, M.J., Obleser, J. (2014) Acoustic cue selection and discrimination under degradation: Differential contributions of inferior parietal and posterior temporal cortex . Neuroimage. 106:373 81.

41. Henry, M.J., Herrmann, B., Obleser, J. (2014) Entrained neural oscillations in multiple frequency bands co-modulate behavior. Proceedings of the National Academy of Sciences of the United States of America (P N A S). 11(41): 14935 14940.

42. Hartwigsen, G., Golombek, T., Obleser, J. (2014) Repetitive transcranial magnetic stimulation over left angular gyrus modulates the predictability gain in degraded speech comprehension. Cortex. 68:100-10

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