

# Curriculum Vitae



Prof. Simon Hanslmayr  
Professor of Brain Rhythms and Cognition  
Centre for Neurotechnology (Director)  
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**Date of Birth** 21.04.1979

**Education** Oct.2005 Ph.D. in Psychology from Paris-Lodron  
University of Salzburg, Austria

Oct.2003 M.Sc. in Psychology from Paris-Lodron  
University of Salzburg, Austria

**Professional  
Experience**

since Jan. 2024 Director of the Centre for  
Neurotechnology, University of Glasgow

since July 2020 Professor at the University of Glasgow,  
School for Psychology and Neuroscience

2016 – July 2020 Reader in Cognitive Neuroscience at the  
University of Birmingham, School of  
Psychology

2013 – 2016 Senior Lecturer at the University of  
Birmingham, School of Psychology

2010 – 2013 Principal Investigator of an Independent  
Junior Research Group at the University  
of Konstanz, Dept. of Psychology, funded  
by an Emmy-Noether Grant from the  
DFG.

2006 - 2010 Postdoc Position (Akad. Rat a. Z.) at the  
Regensburg University, Dept. of  
Experimental Psychology (Head: Prof.  
Karl-Heinz Bäuml)

<b>Industry Experience</b>	2002 – 2006	Research Assistant at the University of Salzburg, Dept. of Physiological Psychology (Head: Prof. Wolfgang Klimesch)
	2021 – 2023	Scientific Advisor for Braingrade GmbH
	since March 2023	Scientific Advisor for Clarity Technologies Inc.
<b>Research</b>	<p>Thoughts, feelings, or a face we attend to are produced by orchestrated neural firing patterns in distributed brain networks. Precise timing of this neural activity is required in order to represent information in brain networks, and to form lasting memories. Neural oscillations establish such precise timing, which is why I chose to investigate oscillations to understand how the brain implements cognition. To this end my research primarily focuses on attention and memory processes in healthy populations, but I am also interested in how these processes are affected in clinical populations, like patients suffering from Schizophrenia or Post-Traumatic-Stress-Disorder (PTSD). In order to study neural oscillations in humans my lab uses a broad array of electrophysiological and imaging methods from the global scale, such as EEG/MEG, fMRI, combined EEG-fMRI, to the local scale such as intracranial EEG and single unit recordings in humans. Going beyond correlating oscillations with cognition, we also study the causal role of oscillations by externally perturbing the brain via rhythmic sensory stimulation (i.e. flickering or amplitude modulated sounds), rhythmic transcranial magnetic stimulation (rTMS) and transcranial electrical stimulation (TES) and investigate the impact of such oscillatory perturbations on cognition. Finally, we integrate the findings of both data streams (i.e. correlative and causal) via computational models. These models make specific predictions which we test in correlational and causal experiments. My aim with this multidisciplinary, multimodal and multiscale approach is to draw a detailed picture of how the human brain perceives, stores and retrieves information.</p>	
<b>Scientific Impact</b>	<p>Papers in international peer-reviewed journals: <b>110</b>  Numbers of citations (<a href="#">Googlescholar</a>): <b>&gt;19k</b>  H-index: <b>59</b> (<a href="#">Googlescholar</a>)</p>	
<b>Grants (secured)</b>	<p><u>Total grant income: 5.6 Mio € (4.7 Mio £)</u></p> <p>MRC New Investigator Award to Dr. Anne Keitel (Univ. of Dundee)  Title: The influence of individual differences in brain rhythms on speech perception with and without age-related hearing loss  Role: Co-I</p>	

Duration: 36 months  
764,510.50 £ (fEC)

ESRC standard project proposal  
Title: TIME - GLUING CROSS-MODAL MEMORIES VIA  
SYNCHRONISATION  
Role: PI  
Duration: 48 months  
522,803 £ (fEC)

Sir Henry Wellcome Postdoctoral Fellowship  
for Dr. Emmanuel Biau  
Title: Memory and language in synchrony: The role of theta  
oscillations in binding multisensory speech in memory  
Role: Sponsor  
Duration: 48 months  
250,000 £

Marie Sklodowska-Curie Postdoctoral Fellowship for Dr. Federica  
Meconi  
Title: At first INsight: how our memories shape empathy for others'  
physical pain  
Role: Supervisor  
Duration Jan.2017 – Mar.2019  
183,454.80 €

ERC Consolidator Grant  
Title: *Neural Oscillations – A Code for Memory*  
Role: PI  
Duration Oct.2015-Mar.2022;  
1,890,000 €

Bussiness Engagement grant with Cerestim®  
Title: tACS and EEG  
Role: Co-I  
Duration Mar.2015-Feb.2016;  
15,745 £

Leverhulme Trust Research Grant  
Title: *Revealing the origin of human alpha oscillations using ultra  
high-field fMRI-EEG.*  
Role: Co-I  
Duration Apr.2015-Mar.2017;  
264,470 £

Grant from the University of Konstanz (Young Scholar Fund).  
Title: *The role of thalamocortical oscillations in visual  
perception and episodic memory.*  
Role: PI

Duration Jan.2013-Dec.2014;  
50.000 €.

Grant from DFG (Emmy-Noether Program, HA5622/1-1).  
Title: *How the synchronized brain forms enduring memories.*  
Role: PI  
Duration: Jan.2011 – Dec.2016;  
1,190,316 €.

## Publications

### Papers

#### Submitted / Preprints

[117] Kolibius, L.D., Josselyn, S.A., Hanslmayr, S. On the origin of memory neurons in the human hippocampus.

[116] Biau, E., Wang, D., Park, H., Jensen, O., Hanslmayr, S. Neocortical and hippocampal theta oscillations track audiovisual integration and replay of speech memories.

[115] Trajkovic, J., Veniero, D., **Hanslmayr**, S., Palva, S., Cruz, G., Romei, V., Thut, G. Top-down and bottom-up interactions rely on nested brain oscillations.  
<https://www.biorxiv.org/content/10.1101/2024.05.23.595462v1>

[114] Kahn, M., Chan, D., Wang, D., Geigenmuller, U., Blanco-Duque, C., Murdock, M.H., Suk, H.J., Jackson, B., Jakkamsetti, V., Niederst, E., Brown, E.N., Boyden, E.S., McHugh, T., Adaikkan, C., Singer, A.C., **Hanslmayr**, S., Tsai, L.H. Gamma sensory stimulation and effects on the brain.  
<https://www.biorxiv.org/content/10.1101/2023.10.30.564197v1>

[113] Duecker, K., Shapiro, K.L., **Hanslmayr**, S., Wolfe, J., Pan, Y., Jensen, O. Alpha oscillations support the efficiency of guided visual search by inhibiting both target and distractor features in early visual cortex. bioRxiv,  
<https://www.biorxiv.org/content/10.1101/2023.08.03.551520v1>.

[112] Chen, Q., McAllister, C.J., Elliott, M.T., Shapiro, K.L., **Hanslmayr**, S. Beta bursts correlate with synchronization of movements to rhythmic sounds. bioRxiv, submitted to *J Neuroscience*.  
<https://www.biorxiv.org/content/10.1101/2023.03.14.532353v1>

[111] Melcón, M., van Bree, S., Sánchez-Carro, Y., Barreiro-Fernández, L., Kolibius, L.D., Alzueta, E., Wimber, M., Capilla, A., **Hanslmayr**, S. The spotlight of attention turns from rhythmic

exploration-exploitation to a stable exploitation state. Revising for *Psychophysiology*. Preprint posted on [www.biorxiv.org](https://www.biorxiv.org).

## 2024 – in press

[110] Dijksterhuis, D. E., Self, M. W., Possel, J. K., Peters, J. C., vanStraaten, E. C. W., Idema, S.; Baaijen, J. C., van der Salm, S. M. A., Aarnoutse, E. J., vanKlink, N. C. E., van Eijnden, P., Hanslmayr, S., Chelvarajah, R., Roux, F., Kolibius, L. D., Sawlani, V., Rollings, D. T., Dehaene, D., Roelfsema, P. R. (2024) Pronouns reactivate conceptual representations in human hippocampal neurons. *Science*, in press.

<https://www.biorxiv.org/content/10.1101/2024.06.23.600044v2>

[109] Wang, D., Marcantoni, E., Clouter, A., Shapiro, K.L., Hanslmayr, S. (2024) Rhythmic sensory stimulation as a non-invasive tool to study plasticity mechanisms in human episodic memory. *Curr Opin Behav Sci*, 58, 101412. doi: 10.1016/j.cobeha.2024.101412

## 2023

[108] Wang, D., Shapiro, K.L., **Hanslmayr**, S. (2023) Altering stimulus timing via fast rhythmic sensory stimulation induces STDP-like recall performance in human episodic memory. *Current Biology*, 33(15): 3279-3288. doi: 10.1016/j.cub.2023.06.062

[107] Kolibius, L.D., Roux, F., Parish, G., Ter Wal, M., Van Der Plas, M., Chelvarajah, R., Sawlani, V., Rollings, D.T. Lang, J., Gollwitzer, S., Walther, K., Hopfengärtner, R., Kreiselmeier, G., Hamer, H., Staresina, B.P., Wimber, M., Bowman, H., **Hanslmayr**, S. (2023) Hippocampal neurons code individual memory episodes in humans. *Nat Hum Behav*, 7(11): 1968-1979. doi: 10.1038/s41562-023-01706-6.

[106] Wang, D., Parish, G., Shapiro, K.L., **Hanslmayr**, S. (2023) Interaction between theta-phase and spike-timing dependent plasticity simulates theta induced memory effects. *eNeuro*, 10(3): ENEURO.0333-22.2023.

## 2022

[105] Roux, F., Parish, G.M., Chelvarajah, R., Rollings, D.T., Sawlani, V., Hamer, H., Gollwitzer, S., Kreiselmeier, G., Ter Wal, M., Kolibius, L., Staresina, B., Wimber, M., Self, M.W., **Hanslmayr**, S. (2022) Oscillations support short latency co-firing of neurons during human episodic memory formation. *eLife*, Nov 30;11:e78109. doi: 10.7554/eLife.78109.

[104] Griffiths, B.J., Zaehle, T., Repplinger, S., Schmitt, F.C., Voges, J., **Hanslmayr**, S., Staudigl, T. (2022) Rhythmic interactions between the mediodorsal thalamus and prefrontal cortex precede human visual perception. *Nature Comms*, 13(1):3736.

2021

[103] van Bree, S., Melcon, M., Kolibius, L., Kerren, C., Wimber, M., **Hanslmayr**, S. (2022) Clock time: a foreign measure to brain dynamics. *Nat Hum Behav*, Jun 20.

[102] Treder, M.S., Charest, I., Michelmann, S., Martín-Buro, M.-C., Roux, F., Benito, F.C., Ugalde-Canitrot, A., Rollings, D.T., Sawlani, V., Chelvarajah, R., Wimber, M., **Hanslmayr**, S., Staresina, B.P. (2021) The hippocampus as the switchboard between perception and memory. *PNAS*, 118(50): e2114171118. doi:10.1073/pnas.2114171118.

[101] Ter Wal, M., Domingo, J.-L., Lifanov, J., Roux, F., Kolibius, L., Gollwitzer, S., Lang, J., Hamer, H., Rollings, D., Sawlani, V., Chelvarajah, R., Staresina, B., **Hanslmayr**, S., Wimber, M. (2021) Theta rhythmicity governs the timing of behavioral and hippocampal responses in humans specifically during memory-dependent tasks. *Nature Comms.*, 12(1):7048. doi: 10.1038/s41467-021-27323-3.

[100] Griffiths, B.J., Martín-Buro, M.C., Staresina, B.P., **Hanslmayr**, S. (2021) Disentangling the roles of neocortical alpha/beta and hippocampal theta/gamma activity in human episodic memory. *Neuroimage*, 242, 118454.

[99] van der Plas, M., Braun, V., Stauch, B.J., **Hanslmayr**, S. (2021) Slow rTMS to the left DLPFC enhances verbal memory formation. *PLoS Biol*, 19(9), e3001363.

[98] Meconi, F., Linde-Domingo, J., Ferreira, C.S., Michelmann, S., Staresina, B., Apperly, I., **Hanslmayr**, S. (2021) Autobiographical memory reactivation in empathy. *Hum Brain Mapp*, ;42(14): 4448-4464.

[97] Biau, E., Wang, D., Park, H., Jensen, O., **Hanslmayr**, S. (2021) Auditory detection is modulated by theta phase of silent lip movements. *Curr Res Neurobiol*, 2, 100014.

[96] Parish, G., Michelmann, S., **Hanslmayr**, S., Bowman, H. (2021) Modelling the Replay of Dynamic Memories from Cortical Alpha Oscillations with the Sync-Fire/deSync Model. *Neuropsychologia*, 158:107867.

[95] Chen, Q., Wang, D., Shapiro, K.L., **Hanslmayr**, S. (2021) Using fast visual rhythmic stimulation to control inter-hemispheric phase offsets in visual areas. *Neuropsychologia*, 157:107863.

[94] Griffiths, B.J., Martín-Buro, M.C., Staresina, B.P., **Hanslmayr**, S., Staudigl, T. (2021) Alpha/beta power decreases during episodic memory formation predict the magnitude of alpha/beta power

decreases during subsequent retrieval. *Neuropsychologia*, 153:107755.

## 2020

[93] Van Der Plas, M., **Hanslmayr**, S. (2020) Entraining Neurons Via Non-Invasive Electric Stimulation Improves Cognition. *PLoS Biol*, Oct 22;18(10):e3000931. doi:10.1371/journal.pbio.3000931.

[92] van der Plas, M., Brittain, J.-S., **Hanslmayr**, S. (2020) Investigating the Role of Phase-Synchrony During Encoding of Episodic Memories Using Electrical Stimulation. *Cortex*, 133, 37-47. <https://osf.io/qha3k>

[91] Stauch, B., Braun, V., **Hanslmayr**, S. (2020) Probing the causal involvement of dlPFC in directed forgetting using rTMS - A replication study. *PLoS One*, 15(8):e0236287. doi:10.1371/journal.pone.0236287.

## 2019

[90] Griffiths, B.J., Mayhew, S.D., Mullinger, K.J., Jorge, J., Charest, I., Wimber, M., **Hanslmayr**, S. (2019) Alpha/beta power decreases track the fidelity of stimulus-specific information. *eLife*, doi: 10.7554/eLife.49562

[89] MacDonald, H.J., Brittain, J.-S., Spitzer, B., **Hanslmayr**, S., Jenkinson, N. (2019) Impaired Desynchronization of Beta Activity Underlies Episodic Memory Deficits in Parkinson's Disease. *Brain Comm*, 1(1): fcz040. doi: 10.1093/braincomms/fcz040

[88] Griffiths, B.J., Michelmann, S., Roux, F., Chelvarajah, R., Rollings, D.T., Sawlani, V., Hamer, H., Gollwitzer, S., Kreiselmeier, G., Staresina, B., Wimber, M., **Hanslmayr**, S. (2019) Hippocampal synchrony and neocortical desynchrony cooperate to encode and retrieve episodic memories. *PNAS*, 116(43): 21834-21842. doi: 10.1073/pnas.1914180116.

[87] Ferreira, C.S., Maraver, M.J., **Hanslmayr**, S., Bajo, T. Theta oscillations show impaired interference detection in the elderly during selective memory retrieval. *Scientific Reports*, 9(1), 9977.

[86] Fellner, M.C., Gollwitzer, S., Rampp, S., Kreiselmeier, G., Bush, D., Diehl, B., Axmacher, N., Hamer, H., **Hanslmayr**, S. Spectral fingerprints or spectral tilt? Evidence for distinct oscillatory signatures of memory formation. *PLoS Biol*, 17(7), e3000403.

[85] Sokoliuk, R., Mayhew, S.D., Aquino, K.M., Wilson, R., Brookes, M.J., Francis, S.T., **Hanslmayr**, S., Mullinger, K.J. Two spatially distinct posterior alpha sources fulfill different functional roles in attention. *J Neurosci*, 39(36), 7138-7194.

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[83] Staudigl, T., **Hanslmayr, S.** Reactivation of neural patterns during memory reinstatement supports encoding specificity. *Cogn Neurosci*, **10**(4), 175-185.

[82] **Hanslmayr, S.**, Axmacher, N., Inman, C.S. (2019) Modulating human memory via entrainment of brain oscillations. *Trends Neurosci*, **42**(7), 485-499.

[81] Salvadegoitia, M.P., Jacobsen, N., Griffiths, B., **Hanslmayr, S.**, Debener, S. (2019) Out and about: subsequent memory effect captured in a natural environment with smartphone EEG. *Psychophysiology*, **45**(5), e13331.

[80] Aquino, K., Sokoliuk, R., Pakenham, D., Sanchez-Panchuelo, R., **Hanslmayr, S.**, Mayhew, S.J., Mullinger, K.J., Francis, S.T. (2018) The challenges of using high spatial resolution, ultra-high field fMRI data for group analysis of higher-order cognitive tasks; demonstrated with a task directing attention between visual and somatosensory domains. *Hum Brain Mapp*, **40**(4), 1298-1316.

[79] Michelmann, S., Staresina, B., Bowman, H., **Hanslmayr, S.** (2019) Speed of time-compressed forward replay flexibly changes in human episodic memory. *Nat Hum Behav*, **3**, 143–154.

## 2018

[78] Kerren, C., Linde-Domingo, J., **Hanslmayr, S.**, Wimber, M. (2018) An optimal oscillatory phase for pattern reactivation during memory retrieval. *Curr. Biol.*, **28**(21), 3383-3392.

[77] Waldhauser, G.T., Dahl, M.J., Ruf-Leutschner, M., Mueller-Bamouh, V., Schauer, M., Axmacher, N., Elbert, T., **Hanslmayr, S.** (2018) The neural dynamics of deficient memory control in heavily traumatized refugees. *Sci Rep.*, **8**(10), 13132.

[76] Oehr, C.R., Fell, J., Baumann, C., Rosburg, T., Ludwig, E., Kessler, H., **Hanslmayr, S.**, Axmacher, N. (2018) Direct electrophysiological evidence for prefrontal control of hippocampal processing during voluntary forgetting. *Curr. Biol.*, **28**(18), 3016-3022.

[75] Michelmann, S., Treder, M.S., Griffiths, B.J., Kerrén, C., Roux, F., Wimber, M., Rollings, D., Sawlani, V., Chelvarajah, R., Gollwitzer, S., Kreiselmeier, G., Hamer, H., Bowman, H., Staresina, B., **Hanslmayr, S.** (2018) Data-driven re-referencing of intracranial



EEG based on independent component analysis (ICA). *J Neurosci Meth.*, **307**, 125-137.

[74] Michelmann, S., Bowman, H., **Hanslmayr**, S. (2018) Replay of Stimulus Specific Temporal Patterns during Associative Memory Formation. *J Cogn Neurosci*, **30**(11), 1577-1589.

[73] Wang, D., Clouter, A., Chen, Q., Shapiro, K.L., **Hanslmayr**, S. (2018) Single-trial Phase Entrainment of Theta Oscillations in Sensory Regions Predicts Human Associative Memory Performance. *J Neurosci*, **38**(28), 6299-6309.

[72] Parish, G., **Hanslmayr**, S., Bowman, H. (2018) The Sync/de-Sync Model: How a synchronized hippocampus and a de-synchronized neocortex code memories. *J Neurosci*, **38**(14), 3428-3440.

[71] Westner, B., Dalal, S.S., **Hanslmayr**, S., Staudigl, T. (2018) Across-subjects classification of stimulus modality from human MEG high-frequency activity. *PLoS Comp Biol*, **14**(3), e1005938.

## 2017

[70] Clouter, A., Shapiro, K.L., **Hanslmayr**, S. (2017) Theta phase synchronization is the glue that binds human associative memory. *Curr Biol*, **27**(20), 3143–3148.

[69] Braun, V., Sokoliuk, R., **Hanslmayr**, S. (2017) On the Effectiveness of Event-related Beta tACS on Episodic Memory Formation and Motor Cortex Excitability. *Brain Stim*, **10**(5), 910-918.

[68] **Hanslmayr**, S., Roux, F. (2017) Human Memory: Brain-State-Dependent effects of Stimulation. *Curr Biol*, **27**(10), R385-R387.

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[66] Fellner, M.-C., Volberg, G., Wimber, M., Goldhacker, M., Greenlee, M.W., **Hanslmayr**, S. (2017) Spatial mnemonic encoding is related to theta power decreases and medial temporal lobe BOLD increases. *eNeuro*, **3**(6), doi: 10.1523/ENEURO.0184-16.2016.

## 2016

[65] Griffiths, B.J., Mazaheri, A., Debener, S., **Hanslmayr**, S. (2016). Brain Oscillations track the formation of episodic memories in the real world. *NeuroImage*, **143**, 256-266. doi:10.1016/j.neuroimage.2016.09.021.

[64] Meconi, F., Anderl-Straub, S., Raum, H., Landgrebe, M., Langguth, B., Bäuml, K-H.T., **Hanslmayr**, S. (2016) Aberrant

prefrontal beta oscillations predict episodic memory encoding deficits in schizophrenia. *NeuroImage: Clinical* **12**, 499-505.

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[61] Fellner, M.-C., Volberg, G., Mullinger, K.J., Goldhacker, M., Wimber, M., Greenlee, M.W., **Hanslmayr**, S. (2016) Spurious correlations in simultaneous EEG-fMRI driven by in-scanner movement. *Neuroimage*, **133**, 354-366.

[60] Backus, A.R., Schoffelen, J.M., Szabéni, S., **Hanslmayr**, S., Doeller, C.F. (2016). Inference through communication: Hippocampal-prefrontal theta oscillations support memory integration. *Curr Biol*, **26**, 450-457.

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[58] Waldhauser, G., Braun, V., **Hanslmayr**, S. (2016). Episodic memory retrieval relies on very rapid reactivation of sensory information. *J Neurosci*, **36**, 251-60.

## 2015

[57] Oehrn, C., Baumann C., Fell, J., Lee, H.L., Kessler, H., Habel, U., **Hanslmayr**, S., Axmacher, N. (2015) Human hippocampal dynamics during conflict processing. *Curr Biol*, **25**, 2307–2313.

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[55] Waldhauser, G., Bäuml, K.H.T., **Hanslmayr**, S. (2015) Brain oscillations mediate successful suppression of unwanted memories. *Cereb Cortex*, 25:4180-90.

## 2014

[54] Oehrn, C., **Hanslmayr**, S., Fell, J., Deuker, L., Kremers, N.A.W., Do Lam, A.T., Elger, C.E., Axmacher, N. (2014). Neural communication patterns underlying conflict detection, resolution and adaptation. *J Neurosci*, **34**, 10438 –10452.

[53] Al-Baddai, S., Al-Subari, K., Tomé, A.M., Volberg, G., **Hanslmayr**, S., Hammwöhner, R., Lang, E.W. (2014) Bidimensional ensemble empirical mode decomposition of functional biomedical images taken during a contour integration task. *Biomedical Signal Processing and Control*, **13**, 218-236.

[52] **Hanslmayr**, S., Matuschek, J., Fellner, M.-C. (2014) Entrainment of prefrontal beta oscillations induces an endogenous echo and impairs memory formation. *Curr Biol*, **24**, 904-9.

[51] Anderson, M.C., **Hanslmayr**, S. (2014) Neural mechanisms of motivated forgetting. *Trends Cogn Sci*, **18**, 279-92.

[50] **Hanslmayr**, S., Staudigl, T. (2014) How brain oscillations form memories - a processing based perspective on oscillatory subsequent memory effects. *NeuroImage*, **85**, 648-655.

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## 2013

[48] **Hanslmayr**, S., Volberg, G., Wimber, M., Dalal, S.S., Greenlee, M.W. (2013) Prestimulus oscillatory phase at 7 Hz gates cortical information flow and perception. *Curr Biol*, **23**, 2273-2278.

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[45] Staudigl, T., **Hanslmayr**, S. (2013) Theta oscillations at encoding mediate the context-dependent nature of human episodic memory. *Curr Biol*, **23**, 1101-1106.

## 2012

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## 2011

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## 2010

[36] Haenschel, C\*, Linden, D.E.J., Bittner, R.A., Singer, W., **Hanslmayr**, S\*. (2010) Alpha phase-locking predicts residual working memory performance in schizophrenia. *Biological Psychiatry*, **68**, 595-598. (\* Shared first authorship).

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Processes. *Neuroscience and Biobehavioral Reviews*, **34**, 1047-1054.

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[30] Bäuml, K.-H., **Hanslmayr**, S. (2010) Forgetting in the no-think paradigm: interference or inhibition. *Proceedings of the National Academy of Sciences USA*, **107**, E3.

## 2009

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## 2008

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2007

[21] **Hanslmayr**, S., Pastötter, B., Bäuml, K.-H., Gruber, S., Wimber, M., Klimesch, W. (2008) The Electrophysiological Dynamics of Interference during the Stroop Task. *Journal of Cognitive Neuroscience*, **20**, 215-225.

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[14] Klimesch W, Sauseng P, **Hanslmayr** S. (2007) EEG alpha oscillations: The Inhibition-timing hypothesis. *Brain Research Reviews*, **53**, 63-88. *Most cited paper in the Journal!*

[13] **Hanslmayr**, S., Aslan, A., Staudigl, T., Klimesch, W., Herrmann, C.S., Bäuml, K.-H. (2007) Prestimulus Oscillations Predict Visual Perception Performance Between and Within Subjects. *Neuroimage*, **37**, 1465-1473.

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## 2006

[10] Klimesch, W., Doppelmayr, M., **Hanslmayr**, S. (2006) Upper alpha ERD and absolute power: their meaning for memory performance. *Progress in Brain research*, **259**, 151-165.

[9] Sauseng, P., Klimesch, W., Freunberger, R., Pecherstorfer, T., **Hanslmayr**, S., Doppelmayr, M. (2006) Relevance of theta and alpha oscillations during task switching. *Experimental Brain Research*, **170**, 295-301.

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## 2004-2005

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[3] **Hanslmayr**, S., Sauseng, P., Doppelmayr, M., Schabus, M., Klimesch, W. (2005) Increasing individual upper alpha power by neurofeedback improves cognitive performance in human subjects. *Applied Psychophysiology and Biofeedback*, **30**, 1-10.

[2] **Hanslmayr**, S., Klimesch, W., Sauseng, P., Gruber, W., Doppelmayr, M., Freunberger, R., Pecherstorfer, T. (2005) Visual discrimination performance is related to decreased alpha amplitude but increased phase locking. *Neuroscience Letters*, **375**, 64-68.

[1] Sauseng, P., Klimesch, W., Doppelmayr, M., **Hanslmayr**, S., Schabus, M., Gruber, W.R. (2004) Theta coupling in the human

electroencephalogram during a working memory task. *Neuroscience Letters*, **354**, 123-126.

## Book Chapters

[7] Parish, G., Michelmann, S., **Hanslmayr**, S. (2023) How should I re-reference my intracranial EEG data? In N. Axmacher (Ed) *Intracranial EEG for Cognitive Neuroscience*, Berlin: Springer.

[6] Michelmann, S., Griffiths, B.J., **Hanslmayr**, S. (2022). The role of alpha and beta oscillations in the human EEG during perception and memory processes. In M.W. Miller, P. Gable & E. Bernat (Eds.) *The Oxford Handbook of Human EEG Frequency Analysis*, New York, NY: Oxford University Press.

[5] **Hanslmayr**, S., Jensen, O., Staresina, B. (in press). Brain oscillations in the service of encoding, consolidating and retrieving episodic memories. In M.J. Kahana & A.D. Wagner (Eds.) *The Oxford Handbook of Human Memory*, New York, NY: Oxford University Press.

[4] Jensen, O., **Hanslmayr**, S. (2019) The role of alpha oscillations for attention and working memory. In M.S. Gazzaniga, G.R. Mangun, D. Poeppel (Eds.) *The Cognitive Neurosciences*, Cambridge, MA: MIT press.

[3] **Hanslmayr**, S., Fellner, M.C. (2017) Brain oscillations, semantic processing and long-term memory. In M. Mody (Ed.) *Neural Mechanisms of Language*, New York: Springer.

[2] Waldhauser, G., **Hanslmayr**, S. (2015). Forgetting – A cognitive neuroscience perspective. In G. Galizia, and D. Shulman (Eds). *Forgetting*, Jerusalem: Magnes Press.

[1] Shapiro, K.L., **Hanslmayr**, S. (2014). The role of brain oscillations in temporal attention. In A.C. Nobre and S. Kastner (Eds.), *The Oxford Handbook of Attention*, Oxford, UK: Oxford University Press.

## Published Abstracts

**Hanslmayr S**, Volberg G, Wimber M, Raabe M, Greenlee MW, Bäuml KT 2011. Single-trial correlations between brain oscillations and bold signal determine episodic memory formation. *Front. Hum. Neurosci. Conference Abstract: XI International Conference on Cognitive Neuroscience (ICON XI)*.

**Hanslmayr S**, Bäuml KH. 2009. Electrophysiological dynamics of voluntary suppression in episodic memory. *Psychophysiology*, 46.



**Hanslmayr S**, Staudigl T., Bäuml KH. 2009. Theta oscillations reflect the inhibitory effects of episodic memory retrieval. *Psychophysiology*, 46.

**Hanslmayr S**, Bäuml KH. 2008. How retrieval affects the dynamic properties of a memory trace. *International Journal of Psychology*, 43(3-4).

Pastötter B, **Hanslmayr S**, Bäuml KH. 2008. Oscillatory brain activity during encoding predicts beneficial and detrimental effects of an internal context change. *International Journal of Psychology*, 43(3-4).

Gondan M, Bauer A, **Hanslmayr S**, Greenlee MW. 2007. Multisensory processing of congruent and incongruent auditory - visual movie clips of everyday actions. *Perception* (Suppl.), 36.

**Hanslmayr S**, Bäuml KH, Aslan A, Klimesch W. 2007. Alpha Oscillations determinieren die Wahrnehmungsleistung und modulieren die evozierte Gamma Aktivität. *Klinische Neurophysiologie*, 38.

Pastötter B, Bäuml KH, **Hanslmayr S**, Klimesch W. 2006. Two Distinct Physiological Mechanisms Predict Costs and Benefits in Directed Forgetting. *Journal of Psychophysiology*, 20(2).

**Hanslmayr S**, Pastötter B, Klimesch W, Bäuml KH. 2006. How the Anterior Cingulate Cortex Manages Interference in the Stroop Task. Insights from an EEG study. *Journal of Psychophysiology*, 20(2).

**Hanslmayr S**, Klimesch W, Sauseng P. 2006. Are ERPs generated by phase-resetting of ongoing oscillations? *Brain Topography*, 18(3).

Nosko H, **Hanslmayr S**, Fink A, Mackinger H, Berndorfer K, Doppelmayr M. Positive effects of alpha neurofeedback training in the rehabilitation process of stroke patients – A prospective study. *Applied Psychophysiology and Biofeedback*, 31(4).

**Hanslmayr S**, Klimesch W, Sauseng P, Gruber W, Doppelmayr, M. 2005. The Relationship Between Performance in a Visual Perception Task and Alpha Oscillations. *Brain Topography*, 17 (3).

**Hanslmayr S**, Sauseng P, Doppelmayr M, Klimesch W. 2003. Enhancing cognitive performance by neurofeedback. *Journal of Psychophysiology* (Suppl.), 17.

## Other Publications

**Hanslmayr S**. Increasing individual upper alpha power by neurofeedback improves cognitive performance. Unpublished Master Thesis.

**Hanslmayr S**. Linking EEG alpha oscillations, event-related potentials and behavior. Unpublished Ph.D. Thesis.

## Awards and Honours

Elected member of the Memory Disorders Research Society (MDRS)

Short-listed for Max Planck Director Position in 2018

Royal Society Wolfson Research Merit Award (50,000£)

Award from Brain Research Reviews (1000 \$) for the most cited review paper in 2008 entitled: *EEG alpha oscillations: The inhibition-timing hypothesis* (by Klimesch, Sauseng & Hanslmayr, 2007)

Award for Student Presentation at the 11<sup>th</sup> Annual International Society for Neuronal Regulation Conference, Houston, Texas, 18.- 21.09.2003.

## Teaching Experience

### Lectures & Modules

Winter 2023/24	Oscillations and Memory, Lecture for PGT Cognitive Brain Imaging Methods, University of Glasgow, School of Psychology and Neuroscience
Summer 2020	Oscillations and Memory, Lecture for PGT Neuroimaging Masters Course, University of Birmingham, School of Psychology
Winter 2016/17	Perception and Attention, UG lecture, University of Birmingham, School of Psychology
Winter 2014/15	Why we remember, why we forget. UG Module lead, University of Birmingham, School of Psychology
	Perception and Attention. UG Module lead, University of Birmingham, School of Psychology.
Winter 2013/14	4-day Course on Neural Mechanisms of Episodic Memories.

	Lecturer, University of Fribourg (Switzerland).
	Perception and Attention. Module lead, University of Birmingham, School of Psychology.
Summer 2013	2-day Workshop on transcranial magnetic stimulation (TMS), Lecturer, University of Konstanz
Summer 2012	Lecture: Current Directions in Neuropsychological Research and Rehabilitation, Lecturer, University of Konstanz
Winter 2011/12	Seminar: <i>Basics in Episodic Memory</i> Lecturer, University of Konstanz
Summer 2011	Lecture: <i>Frontiers in Neuropsychology: current research and rehabilitation.</i> Lecturer, University of Konstanz.
Summer 2010	Seminar: <i>Neural Development.</i> Lecturer, Regensburg University
Winter 2009/10	Practical Course: <i>Experimental Psychology.</i> Lecturer. Regensburg University.
	Seminar: <i>Cognitive Neuroscience.</i> Lecturer. Regensburg University.
Summer 2009	Practical Course: <i>Electrophysiology of Cognitive Processes.</i> Lecturer. Regensburg University.
	Seminar: <i>Neural Development.</i> Lecturer. Regensburg University.
Winter 2008/09	Practical Course: <i>Experimental Psychology.</i> Lecturer. Regensburg University.
	Seminar: <i>Cognitive Neuroscience.</i> Lecturer. Regensburg University.
Summer 2008	Practical Course: <i>Electrophysiology of Cognitive Processes.</i> Lecturer. Regensburg University.
	Seminar: <i>Neural Development.</i> Lecturer. Regensburg University.
Winter 2007/08	Practical Course: <i>Perception and Consciousness.</i> Lecturer. Regensburg University.
	Practical Course: <i>Experimental Psychology.</i> Lecturer. Regensburg University.

Summer 2007	<p>Practical Course: <i>Electrophysiology of Cognitive Processes</i>. Lecturer. Regensburg University.</p> <p>Seminar: <i>Neural Development</i>. Lecturer. Regensburg University.</p>
Winter 2006/07	<p>Practical Course: <i>Experimental Psychology I</i>. Lecturer. Regensburg University.</p> <p>Practical Course: <i>Experimental Psychology II</i>. Lecturer. Regensburg University.</p>
Summer 2006	<p>Practical Course: <i>Electrophysiology of Cognitive Processes I</i>. Lecturer. Regensburg University.</p> <p>Practical Course: <i>Electrophysiology of Cognitive Processes II</i>. Lecturer. Regensburg University.</p>
Summer 2005	<p>Practical Course: <i>Experimental Psychology</i>. Lecturer. University of Salzburg.</p>

## Experience as Supervisor

### Postdocs

Primary Supervisor	<p>Dr Emmanuel Biau (2018-2022)</p> <p>Dr. Danying Wang (2017-2022)</p> <p>Dr George Parish (2019-2022)</p> <p>Dr. Federica Meconi (2016-2019)</p> <p>Dr. Fred Roux (2016-2019)</p> <p>Dr. Tobias Staudigl (2011-2014)</p> <p>Dr. Gerd Waldhauser (2012-14)</p>
Co-Supervisor	<p>Dr. Rodika Sokoliuk (2015-2017)</p> <p>Dr. Mark Van Ruit (2015)</p>

### PhD Students

Primary Supervisor	<p>Ying Yao (current)</p> <p>Eleonora Marcantoni (current)</p> <p>Chen Qiaoyu (PhD awarded in 2023)</p> <p>Luca Kolibius (PhD awarded in 2022)</p> <p>Mircea van der Plas (PhD awarded in 2021)</p> <p>Benjamin James Griffiths (PhD awarded in 2020)</p> <p>Verena Braun (PhD awarded in 2018)</p>
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Sebastian Michelmann (PhD awarded in 2018)  
Dr. Marie-Christin Fellner (PhD awarded in 2015)

**Co-Supervisor**

Li Cheng (current)  
Sander van Bree (current)  
Kasim Luis Qureshi (current)  
Casper Kerren (PhD awarded 2020)  
Andrew Clouter (PhD awarded 2018)  
Jess Kerlin (PhD awarded in 2016)  
Aleksandra Pastuzsak (PhD awarded in 2018)  
Juan Linde Domingo (awarded 2019)

**Master Students**

Merwin Antonysiluvai (finished 2024)  
Hana Hailu (finished 2024)  
Adela Maria Ostaf (finished 2024)  
Ruiyao Tang (finished 2024)  
Liliana Gonzalez Perez (finished 2023)  
Zhijing Liu (finished 2023)  
Cameron Hood (finished 2023)  
Anakha Udayan Menon (finished 2023)  
Joanne Goodman (finished 2022)  
Zhen Ni Moi (finished 2022)  
Xinmin Hao (finished 2021)  
Rae Learie (finished 2021)  
Marilena Pavlidou (finished 2021)  
Azka Ashraf (finished 2020)  
Declan Collins (finished 2020)  
Maxwell Higgins (finished 2018)  
Chen Qiaoyu (finished 2017)  
Xinyu Li (finished 2016)  
Martin Dahl (finished 2014)  
Verena Braun (finished 2014)  
Szabolcs Szabényi (finished 2013)  
Jonas Matuschek (finished 2013)  
Lars Kreissner (finished 2012)  
Ann-Kristin Rombach (finished 2012)  
Nora Oehler (finished 2012)  
Andreas Schlichting (finished 2011)  
Marie-Christin Fellner (finished 2011)  
Sarah Straub (finished 2010)  
Heideloire Backes (finished 2010)  
Simone Schwaiger: (finished 2008)  
Philipp Leipold (finished 2008)  
Magalena Abel (finished 2008)

**External PhD Examiner**

Ana Guttesen (University of York, UK)  
Ahmad Khatoun (KU Leuven, Belgium)  
Paul Packard (University of Barcelona, Spain)

Miguel Pimenta (Goldsmiths College London, UK)  
Rodika Sokoliuk (University of Toulouse, France)  
George Wallis (University of Oxford, UK)

## **Internships**

Hector Cervantes (University of Veracruz, Mexico)  
Federica Meconi (University of Padova, Italy)  
Catarina S. Ferreira (University of Granada, Spain)  
Rolandas Stonkus (University of Vilnius, Lithuania)

## **Mentorship**

Dr. Benjamin Griffiths to receive Leverhulme Trust Early Career Fellowship in 2021  
Dr. Sebastian Michelmann to receive Glushko Dissertation Prize in 2020  
Prof. Tobias Staudigl to receive ERC Starting Grant in 2019  
Dr Federica Meconi to receive ESRC investigator award in 2018

## **Keynote Talks**

Keynote at the annual DGKN meeting, Baden-Baden, Germany, 26<sup>th</sup>-29<sup>th</sup> March 2020 (cancelled due to COVID)

Keynote talk at the Alpine Brain Imaging Conference (ABIM, Champéry, Switzerland, January, 2019)

Keynote talk at the Transcranial Brain Stimulation in Cognitive Neuroscience Workshop (Roverto, Italy, December, 2018)

Keynote talk at the British Association for Cognitive Neuroscience Meeting (BACON, Glasgow, UK, September, 2018)

Hanslmayr, S. How a desynchronized cortex and a synchronized hippocampus cooperatively form and retrieve memories. H-NET Symposium in Budapest (Hungary), 24-26, May, 2018.

Hanslmayr, S. Searching for memory in brain waves – The Synchronization/De-Synchronization Conundrum. Summer School ‘Searching for memory in brain waves – The Synchronization/De-Synchronization Conundrum’, Goettingen (Germany), 14. – 17. Aug, 2017.

Hanslmayr, S. Searching for memory in brain waves – The Synchronization/De-Synchronization Conundrum. Workshop on ‘Neural Oscillations in Speech and Language Processing’, Berlin (Germany), 28-31. May, 2017.

Hanslmayr S. Searching for memory in brain waves – The Synchronization/De-Synchronization Conundrum. Winter school ‘Speech Production and Perception: Learning and Memory’, Chorin (Germany) 9.-13. January, 2017.

Hanslmayr S. How the desynchronized brain forms and retrieves episodic memories: The information via desynchronization hypothesis. MEG Symposium, Tuebingen, Ger, 27.-28.10.2014.

Hanslmayr S. How The Desynchronized Brain Forms and Retrieves Episodic Memories: The Information Via Desynchronization Hypothesis. Oxford Oscillations Workshop, Oxford, UK, 13.-17.09.2014.

Hanslmayr S. Prestimulus oscillatory alpha phase gates cortical information flow and visual perception. Alpha Oscillations Symposium, Ernst Strüngmann Institut – MPI, Frankfurt, Germany, 25.02.2012

Hanslmayr S. Brain oscillatory correlates of memory retrieval. XVIII Congresso SIPF (Societa Italiana di Psycofisiologia), Palermo, Italy, 24.11. – 26.11.2010.

Hanslmayr S. How the prefrontal cortex orchestrates neural synchrony to update episodic memories. 4<sup>th</sup> Dubrovnik conference on Cognitive Science (DuCog IV), Dubrovnik, Croatia, 10.-13.05.2012.

Hanslmayr S, Klimesch W, Doppelmayr M. Increasing Cognitive Performance by Neurofeedback. Keynote address at the 35<sup>th</sup> Annual Meeting of the Association for Applied Psychophysiology and Biofeedback, Colorado Springs, Colorado, USA, 01. - 04.04.2004.

## **Invited Talks**

30.01.2024. Invited departmental talk at the Division of Psychology Communication and Human Neuroscience, University of Manchester, UK.

06.10.2023. Invited departmental talk at the School of Psychology, University of St Andrews, UK.

15.11.2022. Invited departmental talk at the CRNL Lyon, France.

03.11.2022. Invited departmental talk at the CBDS, University of Edinburgh, UK.

08.06.2021. Virtual talk at Central Institute of Mental Health. Mannheim, Germany

03.06.2021. Virtual talk at the 2<sup>nd</sup> International Workshop on Non-invasive Brain Stimulation (NIBS). Minnesota, USA.

22.04.2021. Virtual talk at the British Neuropsychological Society. London, UK.

09.03.2021. Virtual talk at the Leibniz Research Centre for Working Environment and Human Factors. Dortmund, Germany.

27.01.2021. Virtual talk at the MPI for Empirical Aesthetics of Prof. David Poeppel. Frankfurt/New York, Germany/USA

05.03.2020. Virtual talk at the NIH laboratory of Prof. Leonardo Cohen. Bethesda, MD, USA.

31.05.2019. Talk at the Institute for Psychology and Neuroscience, University of Glasgow, UK.

10.05.2019. Talk at the Psychology Department at the University of Sheffield, UK.

28.11.2018. Talk at the Psychology Department at the University of Swansea, UK

23.11.2018. Talk at the Brain Meeting at the FIL (UCL, London, UK)

2.11.2018. Human Single Neuron Conference 2018, Caltech, Pasadena (CA), USA (organized by Ueli Rutishauser, Gabriel Kreiman, Richard Andersen, Ralph Adolphs).

25.10.2018 Talk at the Donders Centre for Cognitive Neuroimaging, Radboud University, Nijmegen, NL.

14.09.2018. Talk at Replay Meeting at the University of Cardiff, UK (organized by Scott Cairney and Penny Lewis).

19.01.2018. Pepa Workshop on Brain Stimulation, MRC-CBU Cambridge (organized by B. Zoefel and M. Davis).

05.08.-08.08.2017. Two talks at ICON, Amsterdam, NL.

05.05.2017. University of Oxford, joint Workshop with UoB.

03.05.2017. Max Planck Institute Berlin, Harnack Haus.

03.04.2017. University of Cardiff, CUBRIC.

12.07.2016. University of Muenster, Department for Psychology. Invited by Prof. Niko Busch

16.06.2016. University of Newcastle, Institute for Neuroscience. Invited by Prof. Chris Petkov



17.02.2016. University of East Anglia, School for Psychology.  
Invited by Dr. Louis Renault.

11.02.2016. Goldsmiths College London, School for Psychology.  
Invited by Dr. Jan De Fockert.

08.02.2016. University Medical Center Hamburg-Eppendorf (UKE).  
Invited by Prof. Andreas Engel.

14.12.2015. University of Bochum, International Graduate School for  
Neuroscience. Invited by Prof. Nikolai Axmacher

02.04.2015. University of Aberdeen, School of Psychology.  
Invited by Dr. Rama Chakravarti.

27.03.2015. University of Amsterdam, Department for  
Psychology. Invited by Prof. Mike X. Cohen.

25.03.2015. City University London, School of Psychology.  
Invited by Dr. Corinna Haenschel.

26.02.2015. BCBL San Sebastian (Spain). Invited by Dr. Kepa  
Paz Alonso.

27.11.2014. MRC Cognition and Brain Sciences Unit Cambridge.  
Invited by Prof. Mike Anderson.

25.11.2014. Aston University, Aston Brain Centre. Invited  
by Prof. Klaus Kessler.

11.11.2014. Imperial College London, Institute for Neurology. Invited  
by Dr. Ines Ribeiro Violantes.

22.05.2014. University College London, Institute of Neurology.  
Invited by Prof. John Rothwell.

29.04.2014. University of Essex, Department of Psychology. Invited  
by Dr. Vincenzo Romei

03.04.2014. Centre de Recherche Cerveau & Cognition, Toulouse,  
(invited by Prof. Rufin VanRullen).

05.12.2013. Donders Centre for Cognitive Neuroimaging, Radboud  
University Nijmegen, (invited by Prof. Ole Jensen).

03.12.2013. Ruhr-University Bochum, Department of Psychology,  
(invited by Prof. Onur Guentuerkin).

15.10.2013. University of Oxford, Department of Experimental Psychology, (invited by Dr. Mark Stokes).

14.10.2013. University of Oxford, Oxford Centre for Human Brain Activity (OHBA), (invited by Prof. Anne C. Nobre).

26.06.2013. Ludwig-Maximilians University Munich, Dept. of Psychology, (invited by Prof. Hermann Müller).

14.06.2013. Carl-von-Ossietzky University Oldenburg, Dept. of Psychology, (invited by Prof. Christoph Herrmann).

10.06.2013. University of Birmingham, School of Clinical and Experimental Medicine, Birmingham (invited by Prof. John Jefferys).

27.03.2013. University of Birmingham, Department for Psychology, (invited by Prof. Kimron Shapiro).

12.03.2013. University of Glasgow, Department for Psychology, Glasgow, UK, (invited by Prof. Philippe Schyns)

12.11.2012. University of Birmingham, School of Psychology, UK, (invited by Prof. Kimron Shapiro).

30.05.2012. University of Zürich, Department for Psychology, Switzerland, (invited by Prof. Björn Rasch)

24.-25.05.2012. Invited talk at EEG-fMRI Workshop: From Trial to Trial, Delmenhorst, Germany;

24.02.2012. Max Planck Institute for Human Development, Berlin, Germany, (invited by Dr. Markus Werkle-Bergner)

05.12.2011. University College London, Institute for Cognitive Neuroscience, UK, (invited by Prof. Leun Otten)

07.07.2011 Carl von Ossietzky University of Oldenburg, Dept. of Psychology, Germany, (invited by Prof. Christoph Herrmann)

26.01.2011. University of Salzburg, Department for Psychology, Austria, (invited by Prof. Wolfgang Klimesch).

21.10.2010. University of Bonn, Clinic for Epileptology, (invited by Dr. Nikolai Axmacher)

08.03.2010. University of Cambridge, Behavioral and Clinical Neuroscience Institute, UK, (invited by Dr. Z. Bergström).

27.11.2009. Bangor University, School of Psychology, UK. (invited by Dr. C. Haenschel).

31.08.2009. University of Konstanz, Department for Clinical and Neuropsychology (invited by Prof. Th. Elbert).

03.06.2009. Otto-von- Guericke University Magdeburg, Department for Neurology II (invited by Prof. E. Düzel).

06.05.2008. Otto-von-Guericke University Magdeburg, Department for Psychology (invited by Prof. Ch. Herrmann).

03.02.2005. University Hospital Zürich (invited by Dr. J. Sarnthein).

### **Organized Workshops & Conferences**

Neurotechnology Workshop at the University of Glasgow, 25<sup>th</sup> March, 2024. ~200 attendees (national & international).

Shaping Human Memories Via Sensory Entrainment. Workshop held at the University of Glasgow, 8<sup>th</sup> – 9<sup>th</sup> December 2022. >50 attendees (national & international).

Organization for Human Brain Mapping Annual Meeting. 19<sup>th</sup>-23<sup>rd</sup> June, 2022, Glasgow. Local Organisation Committee Member.

Single Units and Human Intracranial EEG (SUsHI) conference in Birmingham 1<sup>st</sup>-3<sup>rd</sup> April 2020, >100 attendees (cancelled due to COVID).

### **Chaired Symposia**

What do human hippocampal neurons code? Birmingham, 25<sup>th</sup> May, Birmingham (UK). British Association for Cognitive Neuroscience (BACN) annual meeting.  
Chairs Luca Kolibius & Simon Hanslmayr

What information code hippocampal neurons? Glasgow (UK), 19<sup>th</sup>-23<sup>rd</sup> June, 2022. Organization for Human Brain Mapping (OHBM) annual meeting.  
Chairs: Luca Kolibius & Simon Hanslmayr

A human perspective on neuronal codes in the hippocampus. Verona (Italy), 1<sup>st</sup> June, 2023. Spring Hippocampal Research Conference.  
Chairs: Joshua Jacobs & Simon Hanslmayr

What we can learn from human single unit recordings about the mechanisms underlying learning and memory. St Kitts & Nevis, 13.02.2020. Winter Conference on Neural Plasticity (WCNP) 32<sup>nd</sup> Annual Meeting.

Chair: Simon Hanslmayr

The heterogeneity of primate hippocampal theta: form and function. Taormina, 03.06.2019. Symposium presented at the Spring Hippocampal Research Conference.

Chairs: Joshua Jacobs & Simon Hanslmayr

Theta oscillations in the human medial temporal lobe -- From single units to MEG. Amsterdam, 5.08.2017. Symposium presented at the International Conference on Cognitive Neuroscience (ICON).

Chair: Simon Hanslmayr

Coding of information in oscillatory brain dynamics. Birmingham, (UK), 25.-26.01.2016. Joint workshop between researchers from Birmingham and Frankfurt. Chair: Simon Hanslmayr & Michael Wibral

Neural Synchronization: From Perception to Representation. York (UK), 11.-12.09.2014. Symposium presented at the annual meeting of the British Association of Cognitive Neuroscience (BACN).

Chair: Paul Sauseng & Simon Hanslmayr

The Role of Brain Oscillations in Perception, Attention, and Memory. Brisbane (Aus), 27. – 31.07.2014. Symposium presented at the 12<sup>th</sup> International Conference on Cognitive Neuroscience (ICON). Chair:: Kim Shapiro & Simon Hanslmayr

Brain oscillations and cognition: A symposium in the honor of Wolfgang Klimesch. Salzburg, Austria, 19-20.09.2013. Organized by Doppelmayr, M., Gruber, W.R., Hanslmayr, S., Hödlmoser, K., Sauseng, P., Schabus, M. (in alphabetical order)

Neural correlates of episodic memory encoding – Mechanisms beyond the classical models. Symposium presented at the “Psychologie & Gehirn” (Psychology and Brain Meeting), Jena, Germany, 08.06.-10.06.2012.

Chair: Rasch, B. & Hanslmayr S.

Good vibrations: The important role of brain oscillations for encoding, consolidation, and re-activation of episodic memories. Symposium presented at TEAP (Tagung experimentell arbeitender Psychologen), Mannheim, Germany, 01.- 04.04.2012. Chair: Hanslmayr S. & Staudigl, T.

Brain oscillations and memory: Current state and future directions. Symposium presented at the 5<sup>th</sup> International Conference on Memory (ICOM). York, UK, 31.07.- 05.08.2011. Chair: Hanslmayr S. & Axmacher N.

## **Talks at conferences & meetings**

1<sup>st</sup> June 2023: Talk at Hippocampal Spring Conference, Verona (Italy)

Aug 31<sup>st</sup> 2022: Talk at Biomag 2022, Birmingham (UK).

Feb 2020: Talk at 32<sup>nd</sup> Winter Conference on Neural Plasticity (WCNP), St Kitts & Nevis.

Oct. 2019: Talk at annual conference of the memory research disorders society (MDRS). New York City, NY, USA.

Jun. 2019: Talk at the Annual Spring Hippocampal Research Conference. Taormina, Italy.

Feb 2019: Talk at 31<sup>st</sup> Winter Conference on Neural Plasticity (WCNP), Tahiti, French Polynesia.

Hanslmayr, S. Oscillations in the broad alpha band: New Findings. International Conference of Cognitive Neuroscience (ICON). Amsterdam, 7.08.2017.

Hanslmayr S. Does alpha/beta desynchronization represent information in Human long-term memory? Annual meeting of the British Association for Cognitive Neuroscience (BACN), York, UK, 11. – 12.09.2014

Hanslmayr S. Decreased Beta Power As A Predictor Of Memory Encoding. 12<sup>th</sup> International Conference on Cognitive Neuroscience (ICON), Brisbane, Aus, 27. – 31.07.2014.

Hanslmayr S. Alpha and Beta Entrainment Affects Simple and Complex Perception. 12<sup>th</sup> International Conference on Cognitive Neuroscience (ICON), Brisbane, Aus, 27. – 31.07.2014.

Hanslmayr S., Volberg G., Wimber M., Dalal S.S., Greenlee M. Prestimulus oscillatory alpha phase gates cortical information flow and predicts perception – evidence from simultaneous EEG-fMRI. Annual Meeting of the Society for Neuroscience, San Diego, USA, 9.11. – 13.11.2013

Hanslmayr S. EEG alpha oscillations reflect the focus of temporal attention: Evidence from the attentional blink paradigm. 55<sup>th</sup> Tagung experimentell arbeitender Psychologen (TeaP), Wien, Austria, 24.03. – 27.03.2013.

Hanslmayr S, Matuschek J. Inducing beta oscillations in the left inferior prefrontal cortex via repetitive TMS selectively

impairs long-term memory encoding. Annual Meeting of the Society for Neuroscience, New Orleans, USA, 13.10.-17.10.2012

Hanslmayr S. The role of desynchronization for episodic memory encoding. Psychology and Brain Meeting (Psychologie und Gehirn), Jena, Germany, 08.06.-10.06.2012.

Hanslmayr S, Staudigl T, Fellner MC. The relevance of desynchronization for episodic memory encoding. 54<sup>th</sup> Tagung experimentell arbeitender Psychologen (TeaP), Mannheim, Germany, 01.04.-04.-04.2012.

Hanslmayr S. The role of anticipatory processes for voluntary memory suppression. 5<sup>th</sup> International Conference on Memory. York, UK, 31.07.- 05.08.2011.

Hanslmayr S. Prefrontally mediated regulation of long-range synchrony as a mechanism for memory control. 5<sup>th</sup> International Conference on Memory. York, UK, 31.07.-05.08.2011.

Hanslmayr S, Bäuml KH. Electrophysiological Dynamics of voluntary suppression in episodic memory. 49<sup>th</sup> Meeting of the Society for Psychophysiological Research. Berlin, Germany, 21-24.10.2009.

Hanslmayr S, Staudigl T, Bäuml KH. Theta oscillations reflect the inhibitory effects of episodic memory retrieval. 49<sup>th</sup> Meeting of the Society for Psychophysiological Research. Berlin, Germany, 21-24.10.2009.

Hanslmayr S. Prestimulus EEG oscillations indicate attentional filters and predict task performance. 5<sup>th</sup> ISNIP and ECNS Joint Conference. Frankfurt a. M., Germany, 10. - 13.09.2008.

Hanslmayr S, Bäuml KH. How Retrieval Affects the Dynamic Properties of a Memory Trace. 29<sup>th</sup> International Congress of Psychology, Berlin, Germany, 20. - 25.07.2008.

Hanslmayr S, Spitzer BJ, Bäuml KH. Oszillatorische Korrelate von semantischer und nicht-semantischer Enkodierung im Episodischen Gedächtnis. "50. Tagung experimentell arbeitender Psychologen", Marburg, Germany, 03. - 05.03.2008.

Hanslmayr S. Linking EEG alpha oscillations, event-related

potentials and behaviour. 5<sup>th</sup> Dissertation Competition for Experimental Psychology Germany (FGAP), Potsdam, Germany, 09. - 10.03.2007.

Hanslmayr S, Pastötter B, Klimesch W, Bäuml KH. How the Anterior Cingulate Cortex Manages Interference in the Stroop Task. Insights from an EEG study. 32<sup>nd</sup> Annual Meeting of the German Society of Psychophysiology and its Applications (DGPA), Dresden, Germany, 08. - 10.06.2006.

Hanslmayr S, Klimesch W. Alpha oscillations generate early sensory evoked components in the ERP: Functional correlates of attentional binding mechanisms? Workshop: "Binding: Functional Architecture, Neural Correlates and Ontogeny. Berlin, Germany, 15. - 18.03.2006.

Hanslmayr S, Klimesch W. Die Bedeutung der Alpha Phase für kognitive Leistung. Workshop: "Binding: Functional Architecture, Neural Correlates and Ontogeny. Saarbrücken, Germany, 15. - 17.06.2005.

Hanslmayr S, Klimesch W, Sauseng P, Gruber W, Doppelmayr, M. Beziehung zwischen Alpha-Oszillationen und der Leistung in einer visuellen Wahrnehmungsaufgabe. 13<sup>th</sup> German Mapping Meeting, Rauischholzhausen, Germany, 04. - 07.12.2004.

Hanslmayr S, Klimesch W, Doppelmayr M. Effects of Neurofeedback on Cognitive Performance and EEG Patterns in healthy Subjects. Invited Speaker at the 3<sup>rd</sup> Annual Meeting of the Society for Advanced Brain Analysis, Avalon, California, USA, 06. - 11.6.2004.

Hanslmayr S, Sauseng P, Doppelmayr M, Schabus M, Klimesch W. Increasing Cognitive Performance in Healthy Subjects by Neurofeedback. 2<sup>nd</sup> Annual Meeting of the e – iSNR, Winterthur, Switzerland, 24. - 28.02.2004.

Hanslmayr S, Sauseng P, Doppelmayr M, Schabus M, Klimesch W. Increasing individual upper alpha power by neurofeedback improves cognitive performance. 11<sup>th</sup> Annual International Society for Neuronal Regulation Conference, Houston, Texas, 18. - 21.09.2003.

## Posters

Roux, F., Chelvarajah, R., Rollings, D.T., Sawlani, V., Hamer, H., Gollwitzer, S., Kreiselmeier, G., Roelfsema, P., Self, M.W., Hanslmayr, S. Neurons synchronize at theta but desynchronize at alpha/beta during associative episodic memory formation. WIRED, Paris, France, 19.- 20.11.2019.

Hanslmayr, S., Chelvarajah, R., Rollings, D.T., Sawlani, V., Hamer, H., Gollwitzer, S., Kreiselmeier, G., Roelfsema, P., Self, M.W., Roux, F. Oscillatory theta dynamics and single unit activity in the human hippocampus during associative memory processing. SfN 2018, San Diego, 3.11.-7.11.2018.

Hanslmayr S, Volberg G, Raabe M, Wimber M, Greenlee MW, Bäuml KHT Single-trial correlations between brain oscillations and BOLD signal determine episodic memory formation. 11<sup>th</sup> International Conference on Cognitive Neuroscience (ICON XI), Palma-Mallorca, Spain, 25.-29.09.2011.

Hanslmayr S, Volberg G, Raabe M, Birkner S, Karmann A, Wimber M, Greenlee MW, Bäuml KHT. Simultaneous EEG-fMRI recordings reveal the two faces of voluntary forgetting. 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain, 06. – 10.06.2010.

Hanslmayr S, Pastötter B, Bäuml KH. Anticipatory electrophysiological correlates of voluntary memory control. 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California, USA, 21. – 24.03.2009.

Hanslmayr S, Aslan A, Bäuml KH. The Electro-physiological Dynamics of Retrieval-Induced Forgetting. Annual Meeting of the Experimental Psychology Society, Edinburgh, UK, 04. - 07.07.2007.

Hanslmayr S, Bäuml KH, Aslan A, Klimesch W. Alpha Oszillationen determinieren die Wahrnehmungsleistung. 51<sup>th</sup> Annual Meeting of the German Society for Clinical Neurophysiology, Munich, Germany, 21. - 25.03.2007.

Hanslmayr S, Pastötter B, Bäuml KH, Klimesch W. Do We Forget to Remember? On the Physiological Correlates of Intentional Forgetting. 5<sup>th</sup> Forum of European Neuroscience (FENS), Vienna, Austria, 08. - 12.07.2006.

Hanslmayr S, Klimesch W, Sauseng P. Are ERPs generated by phase-resetting of ongoing oscillations? 14<sup>th</sup> German Mapping Meeting, Rauischholzhausen, Germany, 21. - 22.10.2005.

Hanslmayr S, Sauseng P, Doppelmayr M, Klimesch W. Increasing individual upper alpha power by neurofeedback enhances cognitive performance. Poster presented at the 2003 Autumn School in cognitive Neuroscience, Oxford, UK,



29.09. - 02.10.2003.

Hanslmayr S, Sauseng P, Doppelmayr M, Klimesch W.  
Enhancing cognitive performance by neurofeedback. 5<sup>th</sup>  
Conference of the Federation of European Psychophysiology  
Societies, Bordeaux, France, 10. - 14.09.2003.

**Reviewer for Journals**

*Anatomy & Physiology: Current Research*  
*Biological Psychology*  
*Biological Psychiatry*  
*BMC Neuroscience*  
*British Journal of Psychology*  
*Brain*  
*Brain and Cognition*  
*Brain Connectivity*  
*Brain Stimulation*  
*Brain Structure and Function*  
*Cell Reports*  
*Cerebral Cortex*  
*Clinical Neurophysiology*  
*Cognitive, Affective and Behavioral Neuroscience*  
*Cortex*  
*Current Biology*  
*European Journal of Neuroscience*  
*eNeuro*  
*Frontiers in Human Neuroscience*  
*Frontiers in Perception Science*  
*Human Brain Mapping*  
*International Journal of Psychophysiology*  
*Journal of Cognitive Neuroscience*  
*Journal of Cognitive Psychology*  
*Journal of Experimental Psychology: General*  
*Journal of Experimental Psychology: HPP*  
*Journal of Neurophysiology*  
*The Journal of Neuroscience*  
*Journal of Neuroscience Methods*  
*Nature Communications*  
*Nature Human Behaviour*  
*Nature Neuroscience*  
*Nature Neuroscience Reviews*  
*Neuroimage*  
*Neuroimage Clinical*  
*Neuron*  
*Neuropsychologia*  
*Neuroscience*  
*Neuroscience Letters*  
*PLoS One*  
*PLoS Biology*  
*PNAS*

*Psychiatry Research: Neuroimaging*  
*Psychological Science*  
*Psychophysiology*  
*Science*  
*Science Advances*  
*Social Cognitive and Affective Neuroscience*  
*Trends in Cognitive Sciences*  
*Trends in Neurosciences*

**Reviewer for Funding  
Agencies**

*BBSRC*  
*CSO*  
*European Research Council (ERC)*  
*ESRC*  
*German Research Foundation (DFG)*  
*Human Frontiers Science Programme (HFSP)*  
*Israeli Science Foundation (ISF)*  
*Leverhulme Trust*  
*MRC*  
*NWO (Netherlands)*  
*NSF (USA)*  
*Swiss National Science Foundation (SNF)*  
*Wellcome Trust*

**Memberships**

Memory Disorders Research Society (MDRS)  
Society for Neuroscience  
German Society for Psychology (DGPs)  
Cognitive Neuroscience Society

**Editorial Board  
Member**

*PLoS Biology (Academic Editor)*  
*eLife (Guest Reviewing Editor)*  
*Scientific Reports (Reviewing Editor 2015-2019)*  
*The Journal of Neuroscience (Associate Editor 2016-2022)*  
*Cognitive Neuroscience (Associate Editor)*

**Scientific Advisory  
Boards &  
Grant panels**

*Wellcome Trust: Brain and Behavioural Sciences Discovery  
Advisory Group (short-listing panel) since 2023*

*Wellcome Trust: Discovery Research Platforms Interview committee  
member Nov 2022*

*The Lyon Neuroscience Research Center (CRNL) 2019*

**Cooperation partners  
(in alphabetical order)**

Prof. Michael C. Anderson  
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University of Granada, Spain

Mr. Ramesh Chelvarajah  
Queen Elizabeth Hospital Birmingham

Prof. Mark W. Greenlee  
University of Regensburg, Germany

Prof. Joachim Gross  
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Dr. Corinna Haenschel  
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Prof. Maria Wimber  
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