

Brain Dynamics Graduate School



Newsletter – April '23

*Let us know if you have an announcement, upcoming event, new publication or job posting!
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<https://lists.uni-leipzig.de/mailman/listinfo/neuroscience>

Events

- **MPI CBS Mind Meeting**

20.04. 15:30 online

Prof. Tom Griffiths, Department of Psychology and Computer Science, Princeton University, NJ, USA

“The rational use of cognitive resources”.

<https://doellerlab.com/griffiths/>

- **Brain Dynamics Seminar Series**

21.04. 12:00 online

Prof. Dr. Mareike Zink, Peter Debye Institute for Soft Matter Physics, Faculty of Physics and Earth Sciences, Leipzig University

"How to study biocompatibility of neuroelectrodes with biophysical tools and machine-learning algorithms".

05.05. 12:00 online

Prof. Dr. Marc Schönwiesner, Institute of Biology, Faculty of Life Sciences, Leipzig University & Department of Psychology, University of Montreal, Quebec, Canada

"Spatial hearing: brain plasticity, wearable technology, and the best home stereo system ever built".

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events#c621683>

- **Guest lecture at the MPI CBS**

24.04. 14:00 MPI CBS, Lecture Hall (C101), Stephanstraße 1A, 04103 Leipzig

Christina Konen, Scientific Editor, Neuron, Elsevier GmbH, Munich

“Scientific Publishing: A "Behind-the-Scenes" Look at the Editorial Process in Neuron”

<https://www.cbs.mpg.de/events/34280/338738>

- **Distinguished guest lecture at the MPI CBS**

24.04. 17:00 hybrid, online & MPI CBS, Lecture Hall (C101), Stephanstraße 1A, 04103 Leipzig

Prof. Jim Haxby, Center for Cognitive Neuroscience, Department of Psychological and Brain Sciences, Dartmouth College, Hanover, NH, USA

“Modeling shared and individuating information encoded in fine-scale cortical topographies”

<https://www.cbs.mpg.de/events/34301/338738>

- **MPI CBS CoCoNUT Meeting**

26.04. 14:00 hybrid, online & MPI CBS, Charlotte Bühler Room (C402), Stephanstraße 1A, 04103 Leipzig

Prof. Dr. Fabian Sinz, Institute of Computer Science, University of Göttingen

“Exploring the Visual System with Functional Digital Twins and Inception Loops”

<https://www.cbs.mpg.de/en/cbs-coconut>

- **Leipzig School of Psychosocial Health**

26.04. 17:00 online

Prof. Dr. Georg Schomerus, Department of Psychiatry and Psychotherapy, Leipzig University

"Überlastung, Erschöpfung, psychische Krankheit: Wie sich unser Umgang mit seelischen Krisen verändert".

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5689.aspx

- **Language Circle Seminar**

03.05. 13:00 online

Dr Nai Ding, College of Biomedical Engineering and Instrument Sciences, Zhejiang University, Hangzhou, China

"Neural encoding of connected speech: from syllables to phrases".

<https://www.cbs.mpg.de/events/33953/338738>

- **Clinical and neuroscientific colloquium (Klinisch-Neurowissenschaftliches Kolloquium)**

10.05. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Emrah Düzel, Institute of Cognitive Neurology and Dementia Research, Otto-von-Guericke University Magdeburg

„Pathogenese der Alzheimerdemenz“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5560.aspx

- **Leipzig School of Psychosocial Health**

10.05. 17:00 online

Prof. Dr. med. Anette Kersting, Department of Psychosomatic Medicine and Psychotherapy, Leipzig University

"(Fast) jedem Abschied folgt ein neuer Anfang... – Normale und anhaltende Trauerprozesse".

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5690.aspx

- **Max Planck School of Cognition Colloquium**

15.05. 16:00 online

Prof. Caroline F. Rowland, Max Planck Institute for Psycholinguistics, Nijmegen, & Radboud University, Nijmegen, the Netherlands

"How humans learn language".

<https://www.cbs.mpg.de/events/33350/338738>

News

- **Microscopy course for doctoral and postdoctoral researchers**

The Brain Dynamics Graduate School and the Integrated Research Training School "Obesity Mechanisms" (IRTG OM) of the CRC 1052 organize the course in light and electron microscopy:

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/microscopy-course-2023-05-24>

- **Science speed dating meetup**

The first informal brainstorming meetup of Brain Dynamics members:

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/brain-dynamics-science-speed-dating-2023-04-12>

- **Congratulations to Dr. Anika Lüttig**

Brain Dynamics Graduate School member Anika Lüttig defended her doctoral thesis "Brevican-Expression in Dystoniemodellen (dt^{sz} Hamster, DYT1 Knock-in-Maus) und Einflüsse tiefer Hirnstimulationen" at the Faculty of Veterinary Medicine.

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/congratulations-to-dr-anika-luettig-2023-04-12>

New members

We welcome one new doctoral student and his supervisor to the Brain Dynamics family:

- **Sebastian Wehle**

Research Group Müller, Wilhelm Wundt Institute for Psychology, Faculty of Life Sciences

Research project: "Neuronal signals of visual attention in object processing".

<https://www.lw.uni-leipzig.de/en/wilhelm-wundt-institute-for-psychology/working-groups-1/experimental-psychology-and-methods>

Latest publications

- Brain Dynamics graduate students **Florian Gerstner** and **Jannik Büttner** and research group **Simon**

Boosting neuregulin 1 type-III expression hastens SMA motor axon maturation.

Kong L, Hassinan CW, Gerstner F, Buettner JM, Petigrow JB, Valdivia DO, Chan-Cortés MH, Mistri A, Cao A, McGaugh SA, Denton M, Brown S, Ross J, Schwab MH, Simon CM, Sumner CJ. *Acta Neuropathol Commun.* 2023 Mar 30;11(1):53. doi: 10.1186/s40478-023-01551-8.

➤ Brain Dynamics graduate student **Harin Lee**

Large-scale iterated singing experiments reveal oral transmission mechanisms underlying music evolution.

Anglada-Tort M, Harrison PMC, Lee H, Jacoby N. *Curr Biol.* 2023 Mar 16:S0960-9822(23)00243-9. doi: 10.1016/j.cub.2023.02.070.

➤ Research group **Bechmann**

Characterization of Non-Cholesterol Sterols in Microglia Cell Membranes Using Targeted Mass Spectrometry.

Begcevic Brkovic I, Reinicke M, Chey S, Bechmann I, Ceglarek U. *Cells.* 2023 Mar 23; 12(7): 974. doi: 10.3390/cells12070974.

➤ Research group **Hallermann**

Comparative Effects of Domain-Specific Human Monoclonal Antibodies Against LGI1 on Neuronal Excitability.

Sell J, Rahmati V, Kempfer M, Irani SR, Ritzau-Jost A, Hallermann S, Geis C. *Neurol Neuroimmunol Neuroinflamm.* 2023 Apr 7; 10(3): e200096. doi:10.1212/NXI.0000000000200096.

➤ Research group **Müller**

Global enhancement of target color-not proactive suppression-explains attentional deployment during visual search.

Oxner M, Martinovic J, Forschack N, Lempe R, Gundlach C, Müller M. *J Exp Psychol Gen.* 2023 Apr 6. doi: 10.1037/xge0001350.

➤ Research groups **Rumpf / Claßen**

Motor learning is independent of effects of subthalamic deep brain stimulation on motor execution.

Muehlberg C, Fricke C, Wegscheider M, Wawrzyniak M, Tzvi E, Winkler D, Classen J, Rumpf JJ. *Brain Commun.* 2023 Mar 17; 5(2): fcad070. doi: 10.1093/braincomms/fcad070.