

Curriculum Vitae

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Personal Data

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Academic Education

10/2004 – 10/2009 Diploma (equivalent to MSc) Marburg, Bonn, Montreal
Molecular Biomedicine excellence program
11/2009 - 11/2015 Dissertation Bonn
Experimental neurophysiology
Current Positions Researcher at IEECR, University Hospital Bonn, Neurocognition Platform
Researcher at CST, University of Bonn

Awards

2008 DAAD scholarship to Montréal Neurological Institute, McGill University, Montréal, Canada (Prof. Thomas Stroh)
2016 VW-Foundation award 'Originalitätsverdacht' to develop a transdisciplinary theory of proxy-based competition named *Proxyeconomics*.
2018 Conference of Complex Systems award for an agent-based computational model of *Proxyeconomics*
2018 Bonfor 1B award to study the dependence of hippocampal memory processes on oscillations
2019 Bonfor 1B extension to study the dependence of hippocampal memory processes on oscillations

Publications

- Braganza O. 2022. Proxyeconomics, a theory and model of proxy-based competition and cultural evolution. *R Soc Open Sci* **9**. doi:10.1098/RSOS.211030
- Braganza O. 2020. A simple model suggesting economically rational sample-size choice drives irreproducibility. *PLoS One* **15**:e0229615. doi:10.1371/journal.pone.0229615
- Braganza O, Beck H. 2018. The Circuit Motif as a Conceptual Tool for Multilevel Neuroscience. *Trends Neurosci* **41**:128–136. doi:10.1016/j.tins.2018.01.002
- Braganza O, Bedner P, Hüttmann K, Von Staden E, Friedman A, Seifert G, Steinhäuser C. 2012. Albumin is taken up by hippocampal NG2 cells and astrocytes and decreases gap junction coupling. *Epilepsia* **53**:1898–1906. doi:10.1111/j.1528-1167.2012.03665.x
- Braganza O, Mueller-Komorowska D, Kelly T, Beck H. 2020. Quantitative properties of a feedback circuit predict frequency-dependent pattern separation. *Elife* **9**. doi:10.7554/eLife.53148
- Dannenberg H, Pabst M, Braganza O, Schoch S, Niediek J, Bayraktar M, Mormann F, Beck H. 2015. Synergy of Direct and Indirect Cholinergic Septo-Hippocampal Pathways Coordinates Firing in Hippocampal Networks. *J Neurosci* **35**:8394–8410. doi:10.1523/JNEUROSCI.4460-14.2015
- Esposito L, Drexler JFJF, Braganza O, Doberentz E, Grote A, Widman G, Drosten C, Eis-Hübinger AMAM, Schoch S, Elger CECE, Becker AJAJ, Niehusmann P. 2015. Large-scale analysis of viral nucleic acid spectrum in temporal lobe epilepsy biopsies. *Epilepsia* **56**:234–243. doi:10.1111/epi.12890
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- Pabst M, Braganza O, Dannenberg H, Hu W, Pothmann L, Rosen J, Mody I, van Loo K, Deisseroth K, Becker AJ, Schoch S, Beck H. 2016. Astrocyte Intermediaries of Septal Cholinergic Modulation in the Hippocampus. *Neuron* **90**. doi:10.1016/j.neuron.2016.04.003
- Pofahl M, Nikbakht N, Haubrich AN, Nguyen T, Masala N, Braganza O, Macke JH, Ewell LA, Golcuk K, Beck H. 2020. Dentate gyrus population activity during immobility drives formation of precise memories. *bioRxiv* 2020.03.05.978320. doi:10.1101/2020.03.05.978320
- Pothmann L, Klos C, Braganza O, Schmidt S, Horno O, Memmesheimer R-M, Beck H. 2019. Altered Dynamics of Canonical Feedback Inhibition Predicts Increased Burst Transmission in Chronic Epilepsy. *J Neurosci* **39**:8998–9012. doi:10.1523/JNEUROSCI.2594-18.2019
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