Boris Nikolai Konrad

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Academic Positions

since 02/2014: Postdoctoral Scholar at Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, Nijmegen, Netherlands.
Projects on programming Google Glass applications for mnemonic training, investigating characteristics of superior memory, investigating memory and sleep.

01/2010-01/2014: PhD student at Max Planck Institute of Psychiatry (Munich), RGs Neuroimaging (Czisch) and Sleep endocrinology (Steiger). Projects on computerized mnemonic training, computerized memory cueing during sleep, mnemonic expertise.

Other positions

since 2006: Author, Keynote speaker and lecturer for public audiences. More than 150 public talks given and more than 30 articles published to date

since 2006: President of MemoryXL – European Society for Memory Enhancement, the largest memory sports organisation in the World with members in nine different countries

Education

02/2014: Doctorate: Ludwig Maxmilians University Munich. Title of thesis: „Characteristics and Neuronal Correlates of Superior Memory Performance“ (magna cum laude)

08/2009: Diploma (M.Sc. equivalent) in applied computer sciences (Diplom-Informatiker). Title of thesis: “Dynamisches Management virtueller Maschinen auf den High-Performance-Computing-Ressourcen der Technischen Universität Dortmund” (with highest distinction)

10/2003 –08/2009: Studies in physics and applied computer sciences at University of Technology Dortmund and University of Reading

Grants, Scholarships and Awards

2017	Memrise Prize, Research Award (team member)
2014	Google Faculty Research Award (beneficiary)
2013	International Grand Master of Memory (World Memory Sports Council)
2013	PhD Grant awarded by Max-Planck-Society
2010	PhD Scholarship awarded by Friedrich-Ebert-Stiftung (2010-2013)
2004	Scholarship awarded by Friedrich-Ebert-Stiftung (2004-2009)
since 2004	Various scholarships and travel grants (e.g. DAAD, DFG, MPG, DuCOG, SARMAC, e-fellows.net, McKinsey)

Memberships

- Organisation for Human Brain Mapping (OHBM)
- Society for Applied Research in Memory and Cognition (SARMAC)
- MemoryXL – Europäische Gesellschaft zur Förderung des Gedächtnisses e.V. (European Society for Memory Enhancement)
- Global Speakers Federation (GSF)

Publications – popular science books

- Konrad BN: Alles nur in meinem Kopf – Die Geheimnisse unseres Gehirns. München: Ariston (2016) – (to be) published also in Russian, Italian, Chinese and Dutch
- Konrad BN: Superhirn - Gedächtnistraining mit einem Weltmeister: Über faszinierende Leistungen des menschlichen Gehirns. Wien: Goldegg (2013)

Publications – peer review / academic (selection)

- Müller, NC, Konrad, BN, Kohn, N., Muñoz-López, M., Czisch, M., Fernández, G., & Dresler, M.: Hippocampal–caudate nucleus interactions support exceptional memory performance. **Brain Structure and Function 2017**, 1-11.
- Dresler M*, Shirer W*, Konrad BN*, Fernandez G, Czisch M, Greicius M: Mnemonic training reshapes brain networks to support superior memory. **Neuron 2017***.* ****shared first author***
- Ujma, PP., Konrad, BN, Gombos, F., Simor, P., Pótári, A., Genzel, L., ... & Dresler, M. The sleep EEG spectrum is a sexually dimorphic marker of general intelligence. **Scientific reports 2017**, 7(1), 18070
- Pótári, A, Ujma, PP, Konrad, BN, Genzel, L., Simor, P., Körmendi, J., ... & Bódizs, R. (2017). Age-related changes in sleep EEG are attenuated in highly intelligent individuals. **NeuroImage 2017**, *146*, 554-560.
- Kunath, N., Müller, NCJ, Tonon, M., Konrad, BN, Pawlowski, M., Kopczak, A., ... & Ohla, K.:Ghrelin modulates encoding-related brain function without enhancing

memory formation in humans. **NeuroImage 2016**, *142*, 465-473.

- Ramon, M., Miellet, S., Dzieciol, A. M., Konrad, BN, Dresler, M., & Caldara, R.: Super-Memorizers Are Not Super-Recognizers. **PloS one 2016**, *11*(3), e0150972.

- Pótári, A., Ujma, P. P., Konrad, BN., Genzel, L., Simor, P., Körmendi, J., ... & Bódizs, R.: Age-related changes in sleep EEG are attenuated in highly intelligent individuals. **NeuroImage 2016**.

- Ujma, P. P., Bódizs, R., Gombos, F., Stintzing, J., Konrad, BN., ... & Dresler, M.: Nap sleep spindle correlates of intelligence. **Scientific reports 2015**.

- Genzel L, Spoormaker VI, Konrad BN, Dresler M: REM sleep for amygdala-related memory processing? **Neurobiology of Learning and Memory 2015**, 122: 110-121.
- Ujma P, Konrad BN, Genzel L, Bleifuss A, Simor S, Pótári A, Körmendi J, Gombos F, Steiger A, Bódizs R, Dresler M: Sleep spindles and intelligence: Evidence for a sexual dimorphism. **Journal of Neuroscience 2014,** 34(49), 16358-16368.
- Genzel L, Dresler M, Cornu M, Jäger E, Konrad BN, Adamczyk M., … Goya-Maldonado R.: Medial Prefrontal-Hippocampal Connectivity and Motor Memory Consolidation in Depression and Schizophrenia. **Biological Psychiatry 2014,** 3(5).
- Cordi M, Ackermann S, Bes FW, Hartmann F, Konrad BN, Genzel L, … Dresler, M.: Lunar cycle effects on sleep and the file drawer problem. **Current Biology 2014,** 24(12), R549–R550.
- Konrad BN: Characteristics and Neuronal Correlates of Superior Memory Performance. **Dissertation**. München 2014. http://edoc.ub.uni-muenchen.de/16636
- Dresler M, Konrad BN: Mnemonic expertise during wakefulness and sleep. **Behavioral and Brain Sciences 2013**, 36: 616-617.
- Genzel L, Quack A, Jäger E, Konrad BN, Steiger A, Dresler M.: Complex motor sequence skills profit from sleep. **Neuropsychobiology 2012**, 66(4), 237–43.

In preparation (selection)

- Konrad BN et al.: Neural Correlates of using Google Glass. Remapping your brain with data glasses (in prep.).
- Konrad BN, Spoormaker VI, Kühn S, Steiger A, Hennig-Fast K, Czisch M, Dresler M: Superior memory skills rely on mnemonic strategies. (in prep.)
- Konrad BN, Nickl H, Genzel L, Dresler M, Steiger A, Hennig-Fast K, Czisch M: Targeted Memory Reactivation biases rather than enhances memory. (in prep.)

Peer-reviewed conference presentations and Invited Talks (selection)

- Konrad BN: Science and Methods of Memory Champions, Invited Talk and Workshop at McGovern Institute / MIT, Boston, 01/2019
- Konrad BN: Mnemonic training and superior memory skills, Huntington Beach, 04/2018
- Konrad BN: Superior Memory – Opening Keynote, Nuclear Medicine Conference Dresden, 07/2017
- Konrad BN: Chair of Symposium on Superior Memory, International Conference of Memory 6, Budapest, 07/2016
- Konrad BN: Superior Memory. Memory Training with a World Champion. Invited Talk, Conference for University and Education, Boston (MA), USA, 03/2016
- Konrad BN: Außergewöhnliche Gedächtnisleistungen. Invited Talk, 87. Kongress der deutschen Gesellschaft für Neurologie DGN, München, 09/2014
- Konrad BN: Science of Superior Memory. Invited Talk, 2nd International Conference on Memory and Stress Management, Teheran, Iran, 09/2014
- Konrad BN: Superior Memory and Mnemonics. Invited Talk, International Symposium VIBes in Biosciences, Antwerp, Belgium, 09/2014
- Konrad BN: Research on Memory Champions. Invited Talk, Lab of M Greicius, Stanford University, USA 04/2013
- Konrad BN: Research on Memory Champions. Invited Talk, Lab of A. Ericsson, Florida State University, USA 04/2013
- Konrad BN: Memory Champions. Talk held at Amsterdam Memory Meeting, Amsterdam, 08/2012
- Konrad BN: Memory Champions. Invited Talk, Lab of HR Roediger, Washington University, St. Louis, USA 05/2012

Public Media (selection)

2018	Tijd voor Max (NPO1), Dokters van Morgen (NPO1), Trouw and many more
2017	Vital Signs (CNN, Worldwide), Neue Züricher Zeitung (Switzerland), De Kennis van Nu (NPO2, Nederland), 50+ interviews worldwide
2016	Deutschlands Superhirn (ZDF, Germany), Wedden Dat ik het kan (SBS6, Netherands) and various more.
ongoing	interviews and reports for TV, radio and print in several different countries incl. amongst many others New York Times (USA), NHK (Japan), Wired Magazine (Worldwide), Psychology Today (Worldwide), Wetten Dass (ZDF/ORF/SRF)