

Curriculum Vitae

Univ.-Prof. Dr. med. Hauke R. Heekeren

Freie Universität Berlin
Biological Psychology and Cognitive Neuroscience
Habelschwerdter Allee 45
14195 Berlin, Germany

www.fu-berlin.de/scan

Berlin, August 2020

1	CV	3
2	Publications	5
3	Talks	14
4	Teaching activities	18
5	Organization of Workshops and Symposia	20
6	Awards	22
7	Professional activities	23
8	Funding	24

1. Curriculum Vitae

Personal information

Born: January, 24, 1971 in Herford, Germany
Citizenship: German
Marital status: Married, two children (born 1997 and 2002)

Address (work): Freie Universität Berlin
Biological Psychology and Cognitive Neuroscience
Habelschwerdter Allee 45
14195 Berlin, Germany

Fon: ++49-30-838-57843
Fax: ++49-30-838-55778
E-Mail: hauke.heekeren@fu-berlin.de
Website: www.fu-berlin.de/scan

Professional Experience

03/2012 Full professorship offer (Psychiatry and Neuroscience) at the Mount Sinai School of Medicine, New York, NY (declined)
02/2009 – present Professor of Biological Psychology and Cognitive Neuroscience, Freie Universität Berlin (W3 position, full professor, tenured)
10/2005 – 09/2010 Head of Max-Planck Research Group “Neurocognition of Decision-making” at the Max Planck Institute for Human Development, Berlin, Germany (W2 position)
12/2003 – 09/2005 Resident, Charité University Medicine Berlin, Campus Benjamin Franklin, Dept. of Neurology
04/2001 – 11/2003 Postdoctoral fellow, Lab of Brain and Cognition, NIH, NIMH. Supervisors: Leslie G. Ungerleider, Ph.D. and Peter A. Bandettini, Ph.D.
06/2000 – 04/2001 Resident (“Arzt im Praktikum”), Charité University Medicine Berlin, Campus Mitte, Dept. of Neurology
01/1996 – 09/1999 Graduate fellow, functional neuroimaging group (Prof. Dr. A. Villringer, director) Humboldt-University Berlin

Academic leadership

12/2018 – present Vice president of Freie Universität Berlin
02/2015 – 12/2018 Dean of the Department of Education and Psychology
12/2014 – present Managing Director Center for Cognitive Neuroscience Berlin
03/2013 – 02/2015 Vice Dean for Research of the Department of Education and Psychology
02/2009 – 10/2014 Deputy speaker of the Cluster of Excellence “Languages of Emotion” (EXC 302)

Graduate Studies

01/1996 – 06/1998 DFG Graduate program ‘Mechanisms of damage in CNS disease – Application of imaging techniques’

Education

1998 – 2000 Medical School, Essen University, Essen, Germany
1996 – 1998 Medical School, Humboldt-University, Berlin, Germany
1994 – 1995 Medical School, Munich University, Munich, Germany
1992 – 1994 Medical School, Muenster University, Muenster, Germany

Qualifications

05/2000 M.D, Essen University, Essen, Germany
09/2000 Dr. med., Humboldt-University, Berlin, Germany, (‘ Summa cum laude’)
09/2002 License for the practice of medicine (‘Approbation’)

Languages

German, English, French

Service

2020 – present Member of DFG Review Board 206 (Fachkollegium 206 Neurowissenschaft)
2018 – present Fellow of the Max Planck School of Cognition
2015 – 2018 Member of the extended Academic Senate
2015 – 2018 Member of the Medical Senate
2006 – present Faculty member of the Berlin School of Mind and Brain
2006 – present Faculty member of the International Max Planck Research School on the Life Course (LIFE), MPI for Human Development

2. Publications

Google scholar profile: <https://scholar.google.com/citations?user=K1yPolkAAAAJ&hl=en&oi=ao>

ORCID-ID: <https://orcid.org/0000-0001-7912-6826>

Peer reviewed articles

154. Morawetz, C., Steyrl, D., Berboth, S., Heekeren, H. R., & Bode, S. (2020). Emotion Regulation Modulates Dietary Decision-Making via Activity in the Prefrontal–Striatal Valuation System. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhaa147>
153. Metz, S., Waiblinger-Grigull, T., Schulreich, S., Chae, W. R., Otte, C., Heekeren, H. R., & Wingenfeld, K. (2020). Effects of hydrocortisone and yohimbine on decision-making under risk. *Psychoneuroendocrinology*, *114*, 104589. <https://doi.org/10.1016/j.psyneuen.2020.104589>
152. Pajkert, A., Ploner, C. J., Lehmann, T. N., Witte, V. A., Oltmanns, F., Sommer, W., ... & Finke, C. (2020). Early volumetric changes of hippocampus and medial prefrontal cortex following medial temporal lobe resection. *European Journal of Neuroscience*. <https://doi.org/10.1111/ejn.14784>
151. Schulreich, S., Gerhardt, H., Meshi, D., & Heekeren, H. R. (2020). Fear-induced increases in loss aversion are linked to increased neural negative-value coding. *Social Cognitive and Affective Neuroscience*, *15*(6), 661-670. <https://doi.org/10.1093/scan/nsaa091>
150. McDonald, B., Becker, K., Meshi, D., Heekeren, H. R., & von Scheve, C. (2020). Individual differences in envy experienced through perspective-taking involves functional connectivity of the superior frontal gyrus. *Cognitive, Affective, & Behavioral Neuroscience*, 1-15. <https://doi.org/10.3758/s13415-020-00802-8>
149. Thomas, A. W., Molter, F., Krajbich, I., Heekeren, H. R., & Mohr, P. N. (2019). Gaze bias differences capture individual choice behaviour. *Nature human behaviour*, *3*(6), 625-635.
148. Buritica, J. M. R., Heekeren, H. R., & van den Bos, W. (2019). The computational basis of following advice in adolescents. *Journal of experimental child psychology*, *180*, 39-54.
147. Nowacki, J., Heekeren, H. R., Deuter, C. E., Joerissen, J. D., Schröder, A., Otte, C., & Wingenfeld, K. (2019). Decision making in response to physiological and combined physiological and psychosocial stress. *Behavioral neuroscience*, *133*(1), 59. <https://doi.org/10.1037/bne000288>
146. Oganian, Y., Heekeren, H. R., & Korn, C. W. (2019). Low foreign language proficiency reduces optimism about the personal future. *Quarterly Journal of Experimental Psychology*, *72*(1), 60-75. <http://doi.org/10.1177/1747021818774789>
145. Rosenblau, G., O'Connell, G., Heekeren, H. R., & Dziobek, I. (2019). Neurobiological mechanisms of social cognition treatment in high-functioning adults with autism spectrum disorder. *Psychological Medicine*, 1-11. <https://doi.org/10.1017/S0033291719002472>
144. Thomas, A. W., Heekeren, H. R., Müller, K. R., & Samek, W. (2019). Analyzing neuroimaging data through recurrent deep learning models. *Frontiers in neuroscience*, *13*, 1321. <https://doi.org/10.3389/fnins.2019.01321>
143. Shing, Y. L., Finke, C., Hoffmann, M., Pajkert, A., Heekeren, H. R., & Ploner, C. J. (2019). Integrating across memory episodes: Developmental trends. *Plos one*, *14*(4), e0215848. <https://doi.org/10.1371/journal.pone.0215848>
142. Morawetz, C., Mohr, P. N., Heekeren, H. R., & Bode, S. (2019). The effect of emotion regulation on risk-taking and decision-related activity in prefrontal cortex. *Social cognitive and affective neuroscience*, *14*(10), 1109-1118. <https://doi.org/10.1093/scan/nsz078>
141. Herm, J., Haeusler, K. G., Kunze, C., Krüll, M., Brechtel, L., Lock, J., ... & Endres, M. (2019). MRI Brain Changes After Marathon Running: Results of the Berlin Beat of Running Study. *International journal of sports medicine*, *40*(13), 856-862. <https://doi.org/10.1055/a-0958-9548>
140. Rodriguez Buritica, J. M., Heekeren, H. R., Li, S.-C., & Eppinger, B. (2018). Developmental differences in the neural dynamics of observational learning. *Neuropsychologia*, *119*, 12–23. <http://doi.org/10.1016/j.neuropsychologia.2018.07.022>

139. Eppinger, B., Heekeren, H. R., & Li, S. C. (2018). Age differences in the neural mechanisms of intertemporal choice under subjective decision conflict. *Cerebral Cortex*, 28(11), 3764-3774. <http://doi.org/10.1093/cercor/bhx239>
138. Korn, C. W., Heekeren, H. R., & Oganian, Y. (2018). The framing effect in a monetary gambling task is robust in minimally verbal language switching contexts. *Quarterly Journal of Experimental Psychology*, 1747021818769259. <http://doi.org/10.1177/1747021818769259>
137. Toelch, U., Panizza, F., & Heekeren, H. R. (2018). Norm compliance affects perceptual decisions through modulation of a starting point bias. *Royal Society Open Science*, 5(3), 171268. <http://doi.org/10.1098/rsos.171268>
136. Froehlich, E., Liebig, J., Morawetz, C., Ziegler, J. C., Braun, M., Heekeren, H. R., & Jacobs, A. M. (2018). Same Same But Different: Processing Words in the Aging Brain. *Neuroscience*, 371, 75–95. <http://doi.org/10.1016/j.neuroscience.2017.11.042>
135. Fatfouta, R., Meshi, D., Merkl, A., & Heekeren, H. R. (2018). Accepting unfairness by a significant other is associated with reduced connectivity between medial prefrontal and dorsal anterior cingulate cortex. *Social Neuroscience*, 13(1), 61–73. <http://doi.org/10.1080/17470919.2016.1252795>
134. Andrejević, M., Meshi, D., van den Bos, W., & Heekeren, H. R. (2017). Individual differences in social desirability are associated with white-matter microstructure of the external capsule. *Cognitive, Affective, & Behavioral Neuroscience*, 17(6), 1255–1264. <http://doi.org/10.3758/s13415-017-0548-2>
133. Pajkert, A., Finke, C., Shing, Y. L., Hoffmann, M., Sommer, W., Heekeren, H. R., & Ploner, C. J. (2017). Memory integration in humans with hippocampal lesions. *Hippocampus*, 27(12), 1230–1238. <http://doi.org/10.1002/hipo.22766>
132. Liebig, J., Froehlich, E., Morawetz, C., Braun, M., Jacobs, A. M., Heekeren, H. R., & Ziegler, J. C. (2017). Neurofunctionally dissecting the reading system in children. *Developmental Cognitive Neuroscience*, 27, 45–57. <http://doi.org/10.1016/j.dcn.2017.07.002>
131. Mohr, P. N. C., Heekeren, H. R., & Rieskamp, J. (2017). Attraction Effect in Risky Choice Can Be Explained by Subjective Distance Between Choice Alternatives. *Scientific Reports*, 7(1), 8942. <http://doi.org/10.1038/s41598-017-06968-5>
130. Morawetz, C., Bode, S., Baudewig, J., & Heekeren, H. R. (2017). Effective amygdala-prefrontal connectivity predicts individual differences in successful emotion regulation. *Social Cognitive and Affective Neuroscience*, 12(4), 569–585. <http://doi.org/10.1093/scan/nsw169>
129. Morawetz, C., Alexandrowicz, R. W., & Heekeren, H. R. (2017). Successful emotion regulation is predicted by amygdala activity and aspects of personality: A latent variable approach. *Emotion (Washington, D.C.)*, 17(3), 421–441. <http://doi.org/10.1037/emo0000215>
128. Rosenblau, G., Kliemann, D., Dziobek, I., & Heekeren, H. R. (2017). Emotional prosody processing in autism spectrum disorder. *Social Cognitive and Affective Neuroscience*, 12(2), 224–239. <http://doi.org/10.1093/scan/nsw118>
127. Morawetz, C., Bode, S., Derntl, B., & Heekeren, H. R. (2017). The effect of strategies, goals and stimulus material on the neural mechanisms of emotion regulation: A meta-analysis of fMRI studies. *Neuroscience & Biobehavioral Reviews*, 72, 111–128. <http://doi.org/10.1016/j.neubiorev.2016.11.014>
126. Morawetz, C., Oganian, Y., Schlickeiser, U., Jacobs, A. M., & Heekeren, H. R. (2017). Second Language Use Facilitates Implicit Emotion Regulation via Content Labeling. *Frontiers in Psychology*, 8(239), 366. <http://doi.org/10.3389/fpsyg.2017.00366>
125. Korn, C. W., La Rosée, L., Heekeren, H. R., & Roepke, S. (2016). Processing of information about future life events in borderline personality disorder. *Psychiatry Research*, 246, 719–724. <http://doi.org/10.1016/j.psychres.2016.07.067>
124. Rodriguez Buritica, J. M., Eppinger, B., Schuck, N. W., Heekeren, H. R., & Li, S.-C. (2016). Electrophysiological correlates of observational learning in children. *Developmental Science*, 19(5), 699–709. <http://doi.org/10.1111/desc.12317>
123. Majer, P., Mohr, P. N. C., Heekeren, H. R., & Härdle, W. K. (2016). Portfolio Decisions and Brain Reactions via the CEAD method. *Psychometrika*, 81(3), 881–903. <http://doi.org/10.1007/s11336-015-9441-5>
122. Shing, Y. L., Brehmer, Y., Heekeren, H. R., Bäckman, L., & Lindenberger, U. (2016). Neural activation patterns of successful episodic encoding: Reorganization during childhood, maintenance in old age. *Developmental Cognitive Neuroscience*, 20, 59–69. <http://doi.org/10.1016/j.dcn.2016.06.003>

121. Nassar, M. R., Bruckner, R., Gold, J. I., Li, S.-C., Heekeren, H. R., & Eppinger, B. (2016). Age differences in learning emerge from an insufficient representation of uncertainty in older adults. *Nature Publishing Group*, 7, 11609. <http://doi.org/10.1038/ncomms11609>
120. Rosenblau, G., Kliemann, D., Lemme, B., Walter, H., Heekeren, H. R., & Dziobek, I. (2016). The role of the amygdala in naturalistic mentalising in typical development and in autism spectrum disorder. *The British Journal of Psychiatry : the Journal of Mental Science*, 208(6), 556–564. <http://doi.org/10.1192/bjp.bp.114.159269>
119. Brehmer, Y., Shing, Y. L., Heekeren, H. R., Lindenberger, U., & Bäckman, L. (2016). Training-induced changes in subsequent-memory effects: No major differences among children, younger adults, and older adults. *NeuroImage*, 131, 214–225. <http://doi.org/10.1016/j.neuroimage.2015.11.074>
118. Morawetz, C., Bode, S., Baudewig, J., Kirilina, E., & Heekeren, H. R. (2016). Changes in Effective Connectivity Between Dorsal and Ventral Prefrontal Regions Moderate Emotion Regulation. *Cerebral Cortex (New York, N.Y. : 1991)*, 26(5), 1923–1937. <http://doi.org/10.1093/cercor/bhv005>
117. Schulreich, S., Gerhardt, H., & Heekeren, H. R. (2016). Incidental fear cues increase monetary loss aversion. *Emotion (Washington, D.C.)*, 16(3), 402–412. <http://doi.org/10.1037/emo0000124>
116. Meshi, D., Mamerow, L., Kirilina, E., Morawetz, C., Margulies, D. S., & Heekeren, H. R. (2016). Sharing self-related information is associated with intrinsic functional connectivity of cortical midline brain regions. *Scientific Reports*, 6(1), 22491. <http://doi.org/10.1038/srep22491>
115. Seehausen, M., Kazzner, P., Bajbouj, M., Heekeren, H. R., Jacobs, A. M., Klann-Delius, G., et al. (2016). Effects of empathic social responses on the emotions of the recipient. *Brain and Cognition*, 103, 50–61. <http://doi.org/10.1016/j.bandc.2015.11.004>
114. Morawetz, C., Bode, S., Baudewig, J., Jacobs, A. M., & Heekeren, H. R. (2016). Neural representation of emotion regulation goals. *Human Brain Mapping*, 37(2), 600–620. <http://doi.org/10.1002/hbm.23053>
113. Korn, C. W., La Rosée, L., Heekeren, H. R., & Roepke, S. (2016). Social feedback processing in borderline personality disorder. *Psychological Medicine*, 46(3), 575–587. <http://doi.org/10.1017/S003329171500207X>
112. Esfahani-Bayerl, N., Finke, C., Braun, M., Düzél, E., Heekeren, H. R., Holtkamp, M., et al. (2016). Visuo-spatial memory deficits following medial temporal lobe damage: A comparison of three patient groups. *Neuropsychologia*, 81, 168–179. <http://doi.org/10.1016/j.neuropsychologia.2015.12.024>
111. Oganian, Y., Korn, C. W., & Heekeren, H. R. (2016). Language switching-but not foreign language use per se reduces the framing effect. *Journal of Experimental Psychology. Learning, Memory, and Cognition*, 42(1), 140–148. <http://doi.org/10.1037/xlm0000161>
110. Korn, C. W., Rosenblau, G., Rodriguez Buritica, J. M., & Heekeren, H. R. (2016). Performance Feedback Processing Is Positively Biased As Predicted by Attribution Theory. *PLoS ONE*, 11(2), e0148581. <http://doi.org/10.1371/journal.pone.0148581>
109. Froehlich, E., Liebig, J., Ziegler, J. C., Braun, M., Lindenberger, U., Heekeren, H. R., & Jacobs, A. M. (2016). Drifting through Basic Subprocesses of Reading: A Hierarchical Diffusion Model Analysis of Age Effects on Visual Word Recognition. *Frontiers in Psychology*, 7(328), 1863. <http://doi.org/10.3389/fpsyg.2016.01863>
108. Meshi, D., Tamir, D. I., & Heekeren, H. R. (2015). The Emerging Neuroscience of Social Media. *Trends in Cognitive Sciences*, 19(12), 771–782. <http://doi.org/10.1016/j.tics.2015.09.004>
107. Oganian, Y., Conrad, M., Aryani, A., Spalek, K., & Heekeren, H. R. (2015). Activation Patterns throughout the Word Processing Network of L1-dominant Bilinguals Reflect Language Similarity and Language Decisions. *Journal of Cognitive Neuroscience*, 27(11), 2197–2214. http://doi.org/10.1162/jocn_a_00853
106. Lausberg, H., Kazzner, P., Heekeren, H. R., & Wartenburger, I. (2015). Pantomiming tool use with an imaginary tool in hand as compared to demonstration with tool in hand specifically modulates the left middle and superior temporal gyri. *Cortex; a Journal Devoted to the Study of the Nervous System and Behavior*, 71, 1–14. <http://doi.org/10.1016/j.cortex.2015.05.021>
105. Eppinger, B., Heekeren, H. R., & Li, S.-C. (2015). Age-related prefrontal impairments implicate deficient prediction of future reward in older adults. *Neurobiology of Aging*, 36(8), 2380–2390. <http://doi.org/10.1016/j.neurobiolaging.2015.04.010>
104. Garrett, D. D., Nagel, I. E., Preuschhof, C., Burzynska, A. Z., Marchner, J., Wiegert, S., et al. (2015). Amphetamine modulates brain signal variability and working memory in younger and older adults. *Proceedings of the National Academy of Sciences of the United States of America*, 112(24), 7593–7598. <http://doi.org/10.1073/pnas.1504090112>

103. Rosenblau, G., Kliemann, D., Heekeren, H. R., & Dziobek, I. (2015). Approximating implicit and explicit mentalizing with two naturalistic video-based tasks in typical development and autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 45(4), 953–965. <http://doi.org/10.1007/s10803-014-2249-9>
102. Prehn, K., Korn, C. W., Bajbouj, M., Klann-Delius, G., Menninghaus, W., Jacobs, A. M., & Heekeren, H. R. (2015). The neural correlates of emotion alignment in social interaction. *Social Cognitive and Affective Neuroscience*, 10(3), 435–443. <http://doi.org/10.1093/scan/nsu066>
101. Grimm, S., Gärtner, M., Fuge, P., Fan, Y., Weigand, A., Feeser, M., et al. (2015). Variation in the corticotropin-releasing hormone receptor 1 (CRHR1) gene modulates age effects on working memory. *Journal of Psychiatric Research*, 61, 57–63. <http://doi.org/10.1016/j.jpsychires.2014.12.001>
100. Oganian, Y., Froehlich, E., Schlickeiser, U., Hofmann, M. J., Heekeren, H. R., & Jacobs, A. M. (2015). Slower Perception Followed by Faster Lexical Decision in Longer Words: A Diffusion Model Analysis. *Frontiers in Psychology*, 6(328), 1958. <http://doi.org/10.3389/fpsyg.2015.01958>
99. Fatfouta, R., Schulreich, S., Meshi, D., & Heekeren, H. (2015). So Close to a Deal: Spatial-Distance Cues Influence Economic Decision-Making in a Social Context. *PLoS ONE*, 10(8), e0135968. <http://doi.org/10.1371/journal.pone.0135968>
98. Heereman, J., Walter, H., & Heekeren, H. R. (2015). A task-independent neural representation of subjective certainty in visual perception. *Frontiers in Human Neuroscience*, 9(e96511), 551. <http://doi.org/10.3389/fnhum.2015.00551>
97. Philiastides, M. G., Heekeren, H. R., & Sajda, P. (2014). Human scalp potentials reflect a mixture of decision-related signals during perceptual choices. *Journal of Neuroscience*, 34(50), 16877–16889. <http://doi.org/10.1523/JNEUROSCI.3012-14.2014>
96. Lisofsky, N., Kazzner, P., Heekeren, H. R., & Prehn, K. (2014). Investigating socio-cognitive processes in deception: a quantitative meta-analysis of neuroimaging studies. *Neuropsychologia*, 61, 113–122. <http://doi.org/10.1016/j.neuropsychologia.2014.06.001>
95. Aust, S., Alkan Härtwig, E., Koelsch, S., Heekeren, H. R., Heuser, I., & Bajbouj, M. (2014). How emotional abilities modulate the influence of early life stress on hippocampal functioning. *Social Cognitive and Affective Neuroscience*, 9(7), 1038–1045. <http://doi.org/10.1093/scan/nst078>
94. van Bömmel, A., Song, S., Majer, P., Mohr, P. N. C., Heekeren, H. R., & Härdle, W. K. (2014). Risk patterns and correlated brain activities. Multidimensional statistical analysis of fMRI data in economic decision making study. *Psychometrika*, 79(3), 489–514. <http://doi.org/10.1007/s11336-013-9352-2>
93. Papenberg, G., Bäckman, L., Nagel, I. E., Nietfeld, W., Schröder, J., Bertram, L., et al. (2014). COMT polymorphism and memory dedifferentiation in old age. *Psychology and Aging*, 29(2), 374–383. <http://doi.org/10.1037/a0033225>
92. Papenberg, G., Li, S.-C., Nagel, I. E., Nietfeld, W., Schjeide, B.-M., Schröder, J., et al. (2014). Dopamine and glutamate receptor genes interactively influence episodic memory in old age. *Neurobiology of Aging*, 35(5), 1213.e3–8. <http://doi.org/10.1016/j.neurobiolaging.2013.11.014>
91. Blank H, Biele G, Heekeren HR, Philiastides MG (2013). Temporal Characteristics of the Influence of Punishment on Perceptual Decision Making in the Human Brain. *J Neurosci*, 2013 Feb 27;33(9):3939-52. doi: 10.1523/JNEUROSCI.4151-12.2013
90. Filimon F, Philiastides MG, Nelson JD, Kloosterman NA, Heekeren HR (2013). How Embodied Is Perceptual Decision Making? Evidence for Separate Processing of Perceptual and Motor Decisions. *J Neurosci*, 2013 Jan 30;33(5):2121-36. doi: 10.1523/JNEUROSCI.2334-12.2013
89. Korn CW, Prehn K, Park SQ, Walter H, Heekeren HR (2012). Positively biased processing of self-relevant social feedback. *J Neurosci*, 2012 Nov 21;32(47):16832-44. doi: 10.1523/JNEUROSCI.3016-12.2012
88. Dar Meshi, Guido Biele, Christoph W. Korn, Hauke R. Heekeren (2012). How Expert Advice Influences Decision Making. *PLoS ONE* 7(11)
87. Green N, Biele GP, Heekeren HR (2012). Changes in neural connectivity underlie decision threshold modulation for reward maximization. *J Neurosci*, 2012 Oct 24 32(43):14942-50. doi: 10.1523/JNEUROSCI.0573-12.2012
86. Störmer V, Westerhausen R, Hugdahl K, Wartenburger I, Heekeren HR, Lindenberger U, Li SC (2012). Normal aging delays and compromises early multifocal visual attention during object tracking. *J Cog Neurosci*, 2012 Sep 27. [Epub ahead of print]
85. Passow S, Westerhausen R, Hugdahl K, Wartenburger I, Heekeren HR, Lindenberger U, Li SC (2012). Electrophysiological Correlates of Adult Age Differences in Attentional Control of Auditory Processing. *Cerebral Cortex* 2012; doi: 10.1093/cercor/bhs306

84. Lill CM, Liu T, Schjeide BMM, Roehr JT, Akkad DA, Damotte V, Alcina A, Ortiz MA, Arroyo R, Lopez de Lapuente A, Blaschke P, Winkelmann A, Gerdes L-A, Luessi F, Fernandez O, Izquierdo G, Antigüedad A, Hoffjan S, Cournu-Rebeix I, Gromöller S, Faber H, Liebsch M, Meissner E, Chanvillard C, Touze E, Pico F, Corcia P, ANZgene Consortium, Dörner T, Steinhagen-Thiessen E, Baeckman L, Heekeren HR, Li S-C, Lindenberger U, Chan A, Hartung H-P, Aktas O, Lohse P, Kümpfel T, Kubisch C, Epplen JT, Zettl UK, Fontaine B, Vandebroek K, Matesanz F, Urcelay E, Bertram L, Zipp F (2012). Closing the case of APOE in multiple sclerosis: No association with disease risk in over 29,000 subjects. *J Med Genet*, 2012 Sep;49(9):558-62. doi: 10.1136/jmedgenet-2012-101175
83. Li SC, Papenberg G, Nagel IE, Preuschhof C, Biesenack J, Nietfeld W, Bertram L, Heekeren HR, Lindenberger U, Bäckman L (2013). Aging magnifies the effects of dopamine transporter and D2 receptor genes on backward serial memory. *Neurobiol Aging*, 2013 Jan;34(1):358.e1-10. doi: 10.1016/j.neurobiolaging.2012.08.001
82. Kliemann D, Dziobek I, Hatri A, Baudewig J, Heekeren HR (2012). The role of the amygdala in atypical gaze on emotional faces in autism spectrum disorders. *J Neurosci*. 2012 Jul 11;32(28):9469-76
81. Park SQ, Kahnt T, Talmi D, Rieskamp J, Dolan RJ, Heekeren HR (2012). Adaptive coding of reward prediction errors is gated by striatal coupling. *Proc Natl Acad Sci U S A*. 2012 Mar 13;109(11):4285-9. doi: 10.1073/pnas.1119969109
80. Hepach R, Kliemann D, Grüneisen S, Heekeren HR, Dziobek I (2011). Conceptualizing emotions along the dimensions of valence, arousal, and communicative frequency - implications for social-cognitive tests and training tools. *Front Psychol*. ;2:266
79. Montag C, Neuhaus K, Lehmann A, Krüger K, Dziobek I, Heekeren HR, Heinz A, Gallinat J (2011). Subtle deficits of cognitive theory of mind in unaffected first-degree relatives of schizophrenia patients. *Eur Arch Psychiatry Clin Neurosci*. Epub Sep 4
78. Passow S, Westerhausen R, Wartenburger I, Hugdahl K, Heekeren HR, Lindenberger U, Li SC (2012). Human aging compromises attentional control of auditory perception. *Psychol Aging*. 27(1), 99-105.
77. Park SQ, Kahnt T, Rieskamp J, Heekeren HR (2011). Neurobiology of value integration: When value impacts valuation. *Journal of Neuroscience*, Jun 22;31(25):9307-14.
76. Biele G, Krugel L, Rieskamp J, Heekeren HR (2011). The neural basis of following advice. *PLoS Biology*, Jun;9(6):e1001089
75. Burzynska AZ, Preuschhof C, Bäckman L, Li SC, Nyberg L, Lindenberger U, Heekeren HR (2011). Cortical thickness is linked to executive functioning in adulthood and aging. *Human Brain Mapping*, Jul 7
74. Nagel IE, Preuschhof C, Li SC, Nyberg L, Bäckman L, Lindenberger U, Heekeren HR (2011). Load Modulation of BOLD Response and Connectivity Predicts Working-Memory Performance in Younger and Older adults. *J Cog Neurosci*, Aug;23(8):2030-45
73. Philiastides MG, Aukstulewicz R, Heekeren HR, Blankenburg (2011). Causal role of dorsolateral prefrontal cortex in human perceptual decision making. *Current Biology*, Jun 7;21(11):980-3.
72. Papenberg G, Bäckman L, Chicerio C, Nagel IE, Heekeren HR, Lindenberger U, Li SC (2011). Higher intraindividual variability is associated with more forgetting and dedifferentiated memory functions in old age. *Neuropsychologia*, Jun;49(7):1879-88.
71. Dziobek I, Preißler S, Grozdanovic Z, Heuser I, Heekeren HR, Roepke S (2011). Neuronal Correlates of Altered Empathy and Social Cognition in Borderline Personality Disorder. *Jul 15;57(2):539-48*.
70. Ritter K, Dziobek I, Preißler S, Rüter A, Vater A, Fydrich T, Lammers C-H, Heekeren HR, Roepke S (2011). Lack of empathy in patients with a narcissistic personality disorder. *Psychiatry Research*, May 15;187(1-2):241-7
69. Montag C, Dziobek I, Richter IS, Neuhaus K, Lehmann A, Sylla R, Heekeren HR, Heinz A, Gallinat J (2011). Different aspects of theory of mind in paranoid schizophrenia: Evidence from a video-based assessment. *Psychiatry Res*. Apr 30;186(2-3):203-9.
68. Burzynska AZ, Nagel IE, Preuschhof C, Li SC, Lindenberger U, Bäckman L, Heekeren HR (2011). Microstructure of fronto-parietal connections predicts cortical responsivity and working memory performance. *Cerebral Cortex*, Feb 24.
67. Prehn K, Heekeren HR, van der Meer E (2011). Influence of affective significance on different levels of processing in an analogical reasoning task. *Int J Psychophys*, Feb;79(2):236-43.
66. Kirchner JC, Hatri A, Heekeren HR, Dziobek I (2011). Autistic symptomatology, face processing abilities, and eye fixation patterns. *Journal of Autism and Developmental Disorders*, Feb;41(2):158-67.

65. Störmer V, Li SC, Heekeren HR, Lindenberger U (2011). Feature-based interference from unattended visual field during attentional tracking in younger and older adults. *J Vision*, Feb 1;11(2). pii: 1. doi: 10.1167/11.2.1.
64. Wenzlaff H, Bauer M, Maess B, Heekeren HR (2011). Neural characterization of the Speed-Accuracy Tradeoff in a Perceptual Decision Making Task. *Journal of Neuroscience*, Jan 26;31(4):1254-66.
63. Basten U*, Biele G*, Heekeren HR, Fiebach C (2010). How the Brain Integrates Costs and Benefits during Decision Making. *P. Natl. Acad. Sci. USA*. Dec 14;107(50):21767-72.
62. Scheibe C, Ullsperger M, Sommer W, Heekeren HR (2010). Effects of parametrical and trial-to-trial variation in prior probability processing revealed by simultaneous EEG/fMRI. *Journal of Neuroscience*, Dec 8;30(49):16709-17
61. Ruff DA, Marrett S, Heekeren HR, Bandettini PA, Ungerleider LG (2010). Complementary roles of systems representing sensory evidence and systems detecting task difficulty during perceptual decision making. *Front Neurosci*. Nov 23;4:190.
60. Preißler S, Dziobek I, Ritter K, Heekeren HR, Roepke S (2010). Social Cognition in Borderline Personality Disorder: Evidence for Disturbed Recognition of the Emotions, Thoughts, and Intentions of others. *Front Behav Neurosci*. Dec 2;4:182.
59. Kliemann D, Dziobek I, Hatri A, Steimke R, Heekeren HR (2010). Atypical reflexive gaze patterns on emotional faces in autism spectrum disorders. *J Neurosci*, Sep 15;30(37):12281-7.
58. Philiastides MG, Biele G, Vavatzanidis N, Kazzer P, Heekeren HR (2010). Temporal dynamics of prediction error processing during reward-based decision making. *Neuroimage*, Oct 15;53(1):221-32.
57. Li S-C, Chicherio C, Nyberg L, von Oertzen T, Nagel I, Sander T, Heekeren HR, Lindenberger U, Bäckman L (2010). Ebbinghaus Revisited: Influences of the BDNF Val66Met Polymorphism on Backward Serial Recall are Modulated by Human Aging. *J Cog Neurosci*, Oct;22(10):2164-73.
56. Graef S, Biele G, Krugel LK, Marzinzik F, Wahl M, Wotka J, Klostermann F, Heekeren HR (2010). Differential influence of levodopa on reward-based learning in Parkinson's disease. *Front Hum Neurosci*. Oct 14;4:169
55. Bertram L, Heekeren HR (2010). Obesity and the brain: a possible genetic link. *Alzheimers Res Ther*. Sep 27;2(5):27.
54. Yoshida W, Dziobek I, Kliemann D, Heekeren HR, Friston KJ, Dolan RJ (2010). Cooperation and heterogeneity of the autistic mind. *J Neurosci*, Jun 30;30(26):8815-8.
53. Montag C, Ehrlich A, Neuhaus K, Dziobek I, Heekeren HR, Heinz A, Gallinat J (2010). Theory of mind impairments in euthymic bipolar patients. *J Affect Disord*. Jun;123(1-3):264-9.
52. Philiastides MG, Biele G, Heekeren HR (2010). A mechanistic account of value computation in the human brain, *P. Natl. Acad. Sci. USA*, 2010 May 18;107(20):9430-5. Epub May 3.
51. Preuschhof C, Schubert T, Villringer A, Heekeren HR (2010). Prior information biases stimulus representations during vibrotactile decision making. *J Cog Neurosci*, May;22(5):875-87.
50. Mohr PNC, Biele G, Heekeren HR (2010). Neural Processing of Risk. *J Neurosci*, May 12;30(19):6613-9.
49. Mohr PN, Li SC, Heekeren HR (2010). Neuroeconomics and aging: Neuromodulation of economic decision making in old age. *Neurosci Biobehav Rev*, Apr;34(5):678-88.
48. Dziobek I, Bahnemann M, Convit A, Heekeren HR (2010). Neuropsychological and Neuroanatomical Evidence for social perceptual and social cognitive impairments in adults with Asperger syndrome. *Archives of General Psychiatry*, Apr;67(4):397-405.
47. Bahnemann M, Dziobek I, Prehn K, Wolf I, Heekeren HR (2010). Sociotopy of the Superior Temporal Sulcus – searching for dissociable representations of judgments on movements, mental states and norm-congruency of behavior. *SCAN*, Mar;5(1):48-58.
46. Burzynska AZ, Preuschhof C, Bäckman L, Li SC, Nyberg L, Lindenberger U, Heekeren HR (2010). Age-related differences in white-matter microstructure: Region-specific patterns of diffusivity. *Neuroimage*, Feb 1;49(3):2104-12.
45. Mohr PNC, Biele G, Krugel LK, Li SC, Heekeren HR (2010). Expected Reward, Risk, and Individual Risk Preferences during Investment Decisions. *Neuroimage*, Feb 1;49(3):2556-63.
44. Preuschhof C, Heekeren HR, Li SC, Sander T, Lindenberger U, Bäckman L (2010). KIBRA and CLSTN2 Polymorphisms Exert Interactive Effects on Human Episodic Memory. *Neuropsychologia*, Jan;48(2):402-8.
43. Van der Meer E, Beyer R., Horn J, Foth M, Bornemann B, Ries J, Kramer J, Warmuth E, Heekeren HR, Wartenburger I (2010). Resource allocation and fluid intelligence: Insights from pupillometry. *Psychophysiology*. Jan 1;47(1):158-69.

42. Wolf I, Dziobek I, Heekeren HR (2010). Neural correlates of social cognition in naturalistic settings: A model-free analysis approach. *Neuroimage*. Jan 1;49(1):894-904.
41. Nagel IE, Preuschhof C, Li SC, Nyberg L, Bäckman L, Lindenberger U, Heekeren HR (2009). Performance Level Modulates Adult Age Differences In Brain Activation During a Spatial Working Memory Task. *P. Natl. Acad. Sci. USA*, Dec 29;106(52):22552-7.
40. Krugel LK, Biele G, Mohr PNC, Li SC, Heekeren HR (2009). Genetic variation in dopaminergic neuromodulation influences the ability to rapidly and flexibly adapt decisions. *P. Natl. Acad. Sci. USA*, Oct 20;106(42):17951-6.
39. Mell T, Wartenburger I, Marschner A, Villringer A, Reischies FM, Heekeren HR (2009). Altered Function of Ventral Striatum during Reward-Based Decision Making in Old Age. *Front Hum Neurosci.*, 3:34. Epub 2009 Oct 30.
38. Green N, Heekeren HR (2009). Perceptual decision making: a bidirectional link between mind and motion. *Prog Brain Res.*, 174:207-18.
37. Wartenburger I, Heekeren HR, Preusse F, Van der Meer E (2009). Cerebral correlates of analogical processing and their modulation by training. *Neuroimage*. Oct 15;48(1):291-302. Epub 2009 Jun 17.
36. Scheibe C, Schubert R, Sommer W, Heekeren HR (2009). Electrophysiological evidence for the effect of prior probability on response preparation. *Psychophysiology*, Jul;46(4):758-70.
35. Lindenberger U, Nagel IE, Chicherio C, Li S-C, Heekeren HR, & Bäckman L (2008). Age-related decline in brain resources modulates genetic effects on cognitive functioning. *Frontiers in Neuroscience*, 2, 234-244.
34. Heekeren HR, Marrett S, Ungerleider LG. (2008). Neural systems involved in human perceptual decision making. *Nature Reviews Neuroscience* Jun;9(6):467-79.
33. Nagel I, Chicherio C, Li SC, von Oertzen T, Sander T, Villringer A, Heekeren HR, Bäckman L, Lindenberger U (2008). Human aging magnifies genetic effects on executive functioning and working memory. *Front. Hum. Neurosci.* 2:1. doi:10.3389/neuro.09.001.2008
32. Prehn K, Heekeren HR, Blasek K, Lapschies K, Mews I, van der Meer, E. (2008). Neuroticism influences pupillary responses during an emotional interference task. *Int J Psychophysiol.* Oct;70(1):40-9.
31. Mériaux K, Kazzer P, Wartenburger I, Prehn K, Villringer A, van der Meer E, Heekeren HR (2008). Insular activity reflects individual differences in negative affect independent of autonomic arousal. *Brain Cogn.* 2009 Feb;69(1):73-80.
30. Prehn K, Wartenburger I, Mériaux K, Scheibe C, Goodenough OR, Villringer A, van der Meer E, Heekeren HR (2008). Influence of individual differences in moral judgment competence on neural correlates of normative judgments. *Social Cognitive & Affective Neuroscience*, Mar;3(1):33-46.
29. Trenner MU, Fahle M, Fasold O, Heekeren HR, Villringer A, Wenzel R (2008). Human Cortical Areas Involved in Sustaining Perceptual Stability during Smooth Pursuit Eye Movements. *Human Brain Mapping*, Mar;29(3):300-11.
28. Trenner MU, Heekeren HR, Bauer M, Rössner K, Wenzel R, Villringer A, Fahle M (2008). What happens in between? Human oscillatory brain activity related to crossmodal spatial cueing. *PLoS ONE*. Jan 23;3(1):e1467.
27. Dziobek I, Rogers K, Fleck S, Bahnemann M, Heekeren HR, Wolf OT, Convit A (2008). Dissociation of cognitive and emotional empathy in adults with Asperger syndrome using the Multifaceted Empathy Test (MET). *Journal of Autism and Developmental Disorders*, Mar;38(3):464-73.
26. Heekeren HR, Wartenburger I, Mell T, Marschner A, Villringer A, Reischies FM (2007). Role of ventral striatum during reward based decision-making. *NeuroReport*, Jul 2;18(10):951-5.
25. Preuschhof C, Heekeren HR, Taskin B, Schubert T, Villringer A (2006). Neural correlates of vibrotactile working memory in the human brain. *J Neurosci*. 2006 Dec 20;26(51):13231-9.
24. Mériaux K, Wartenburger I, Kazzer P, Prehn K, Lammers CH, van der Meer E, Villringer A, Heekeren HR (2006). A neural network reflecting individual differences in cognitive processing of emotions during perceptual decision-making. *NeuroImage* 2006 Nov 15;33(3):1016-27. Epub 2006 Sep 14.
23. Heekeren HR, Marrett S, Bandettini PA, Ungerleider LG (2006). Involvement of human left dorsolateral prefrontal cortex in perceptual decision-making is independent of response modality. *Proc Natl Acad Sci U S A*, 2006 Jun 27;103(26):10023-8. Epub 2006 Jun 19.
22. Scheibe C, Wartenburger I, Wüstenberg T, Villringer A, Heekeren HR (2005). Neural Correlates of the Interaction between Transient and Sustained Processes – a Mixed Blocked/Event-related fMRI Study. *Human Brain Mapping*, 2005 Sep 2; [Epub ahead of print].
21. Marschner A, Mell T, Wartenburger I, Villringer A, Reischies FM, Heekeren HR (2005). Reward-based decision-making and aging. *Brain Res Bull*, 67(5):382-90.

20. Mell T, Heekeren HR, Marschner A, Wartenburger I, Villringer A, Reischies FM (2005) Effect of aging on stimulus-reward association learning. *Neuropsychologia*, 43(4):554-63.
19. Heekeren HR, Wartenburger I, Schmidt H, Prehn K, Schwintowski HP, Villringer A (2005). Influence of Bodily Harm on Neural Correlates of Semantic and Moral Decision-making. *Neuroimage*, 24(3): 887-897.
18. Heekeren HR, Marrett S, Bandettini PA, Ungerleider LG (2004). A general mechanism for perceptual decision-making in the human brain. *Nature*, 431 (7010):859-861.
17. Wartenburger I, Heekeren HR, Burchert F, Heinemann S, De Bleser R, Villringer A (2004). Neural Correlates of Syntactic Transformations. *Human Brain Mapping*, 22:72-81.
16. Buchheim K, Obrig H, v. Pannwitz W, Müller A, Heekeren H, Villringer A, Meierkord H (2003). Decrease in haemoglobin oxygenation during absence seizures in adult humans. *Neurosci Lett*, 354(2):119-22.
15. Wartenburger I, Heekeren HR, Burchert F, De Bleser R, Villringer A (2003). Grammaticality judgments on sentences with and without movement of phrasal constituents - an event-related fMRI study. *J Neurolinguistics*, 16 (4-5): 301-314.
14. Heekeren HR, Wartenburger I, Schmidt H, Schwintowski HP, Villringer A (2003). An fMRI study of simple ethical decision-making. *Neuroreport*, 14 (9): 1215-1219.
13. Wartenburger I, Heekeren HR, Abutalebi J, Cappa SF, Villringer A & Perani D (2003). Early Setting of Grammatical Processing in the Bilingual Brain. *Neuron*, 37(1):159-70.
12. Wenzel R, Wobst P, Heekeren H, Kwong KK, Brandt SA, Kohl M, Obrig H, Dirnagl U, Villringer A (2000). Saccadic suppression induces focal hypooxygenation in the occipital cortex. *J Cereb Blood Flow Metab*, 20:1103-1110.
11. Heekeren HR, Kohl M, Obrig H, Wenzel R, Pannwitz Wv, Matcher S, Dirnagl U, Cooper CE, Villringer A (1999). Noninvasive assessment of changes in cytochrome-c oxidase oxidation in human subjects during visual stimulation. *J Cereb Blood Flow Metab*, 19:592-603.
10. Kohl M, Nolte C, Heekeren HR, Horst S, Scholz U, Obrig H, Villringer A (1998). Determination of the wavelength dependence of the differential pathlength factor from near infrared pulse signals. *Phys Med Biol*, 43:1-12.
9. Ruben J, Wenzel R, Obrig H, Villringer K, Bernarding J, Hirth C, Heekeren H, Dirnagl U and Villringer A (1997). Haemoglobin oxygenation changes during visual stimulation in the occipital cortex, *Adv Exp Med Biol* 428, 181-7.
8. Kohl M, Nolte C, Heekeren HR, Horst S, Scholz U, Obrig H, Villringer A (1997). Changes in cytochrome-oxidase oxidation in the occipital cortex during visual stimulation: Improvement in sensitivity by the determination of the wavelength dependence of the differential pathlength factor. *Proc SPIE*, 3194:18-27.
7. Heekeren HR, Wenzel R, Obrig H, Ruben J, Ndayisaba JP, Luo Q, Dale AM, Nioka S, Kohl M, Dirnagl U, Villringer A, Chance B (1997). Towards noninvasive optical human brain mapping - improvements of the spectral, temporal and spatial resolution of near-infrared spectroscopy. *Proc SPIE*, 2979:847-857.
6. Heekeren HR, Obrig H, Wenzel R, Eberle K, Ruben J, Villringer K, Kurth R, Villringer A (1997). Cerebral haemoglobin oxygenation during sustained visual stimulation - a near-infrared spectroscopy study. *Phil Trans R Soc Lond B*, 352:743-750.
5. Hock C, Villringer K, Müller-Spahn F, Wenzel R, Heekeren HR, Schuh-Hofer S, Hofmann M, Minoshima S, Schwaiger M, Dirnagl U, Villringer A (1997). Decrease in parietal cerebral hemoglobin oxygenation during performance of a verbal fluency task in patients with Alzheimer's disease monitored by means of near infrared spectroscopy (NIRS) - correlation with simultaneous rCBF-PET measurements. *Brain Res*, 755:293-303.
4. Hock C, Villringer K, Heekeren H, Hofmann M, Wenzel R, Villringer A, Müller-Spahn F (1997) A role for Near infrared Spectroscopy in Psychiatry? *Adv Exp Med Biol*, 413:105-112.
3. Obrig H, Heekeren HR, Ruben J, Wenzel R, Ndayisaba J-P, Dirnagl U, and Villringer A (1996). Continuous spectrum near-infrared spectroscopy approach in functional activation studies in the human adult, *Proc SPIE*, 2926:58-66 .
2. Liesenfeld B, Heekeren H, Schade G, Hepp KD (1996). Quality of Documentation in Medical Reports of Diabetic Patients. *Int J Qual Hlth Care*, 8: 537-542.
1. Hock C, Villringer K, Müller-Spahn F, Hofmann M, Schuh-Hofer S, Heekeren H, Wenzel R, Dirnagl U, Villringer A (1996). Near infrared spectroscopy in the diagnosis of Alzheimer's disease. *Ann N Y Acad Sci*, 777, 22-29.

Books

- Heekeren HR (1999) Inauguraldissertation, Humboldt-Universität Berlin, Nichtinvasive optische Messung des zerebralen Cytochrom-c-Oxidase Redox-Status bei visueller Stimulation, Noninvasive optical assessment of the cerebral cytochrome-c-oxidase redox-state during visual stimulation (Summa cum laude)
- Raab M, Johnson J, Heekeren HR (2009) Mind and Motion: The Bidirectional Link between Thought and Action, Progress in Brain Research, Elsevier, Amsterdam. 2009, ISBN: 978-0444533562 (325 pp).

Book chapters

- Morawetz, C., & Heekeren, H. (2019). Emotion und Gehirn. An der Schnittstelle zwischen affektiver und kognitiver Neurowissenschaft. In *Emotionen* (pp. 88-94). JB Metzler, Stuttgart.
- Gold, J. I., & Heekeren, H. R. (2014). Neural mechanisms for perceptual decision making. In *Neuroeconomics (Second Edition)* (pp. 355-372).
- Sajda P, Philiastides MG, Heekeren HR, Ratcliff R (2011). Linking neuronal variability to perceptual decision making via neuroimaging, *Neuronal Variability and Its Functional Significance*, Editors: Mingzhou Ding and Dennis Glanzman, Oxford University Press.
- Philiastides MG, Heekeren HR (2009). Spatiotemporal characteristics of perceptual decision making in the human brain. In "The handbook of reward and decision making." J.-C. Dreher, & L. Tremblay (Eds.), Amsterdam: Elsevier.
- Green, N. & Heekeren, H.R. (2010). Perzeptuelle Entscheidungsfindung, In: Reimann, M. and Weber, B. (eds.) (2010), *Neuroökonomie*, Edited Textbook, Wiesbaden, Gabler Verlag.
- Prehn, K., Heekeren, H.R. (2009). Moral judgment and the brain: A functional approach to the question of emotion and cognition in moral judgment integrating psychology, neuroscience and evolutionary biology. In: Braeckman, J., Verplaetse, J., De Schrijver, J., editors. *The moral brain*. Netherlands: Springer, pp. 129–54.
- von Pannwitz W, Obrig H, Heekeren H, Müller A, Kohl M, Wolf T, Wenzel R, Dirnagl U, and Villringer A (1998). Clinical approaches in near-infrared spectroscopy. In "Transcranial Cerebral Oximetry" (G. Litscher and G. Schwarz, eds.), pp. 166–183. Pabst Science, Berlin.

3. Invited talks (selection)

2019

SMG-Forum, Schweizer Management Gesellschaft, Zürich

Promotionsfeier der Math-Nat Fakultät, Uni Düsseldorf

Klinik für Psychiatrie und Psychotherapie, Charité

Society for NeuroEconomics, Dublin Irland

2018

MPS-UCL symposium, Ringberg Castle

Frontiers in Social Neuroscience Symposium, UVA, Amsterdam

Frontiers Forum, Verbier

Maastricht University – Neuroeconomics Talks 2018, Maastricht

2017

LIN Symposium, Magdeburg

OCCAM, Osnabrück

Jahrestagung Topoi, Berlin

Keynote, BCI Winter meeting, High1, Korea

International Conference on Brain Plasticity linking Molecules, Cells, and Behavior, Magdeburg

2016

Keynote, *ICNN 2016*, Hangzhou, China

Umeå center for Functional Brain Imaging, Umeå, Sweden

Keynote, Neuro-IS, Gmunden

Hanse-Wissenschaftskolleg

2015

Studienstiftung des deutschen Volkes, Hamburg

Encods, Sesimbra

2014

iMed conference, Lissabon

Winter School (EPFL, Lausanne), Sass-Almagell

2013

New Economic School, Moscow

National Chengchi University, Taipeh, February

Eine Welt ohne Seele und Freien Willen? Symposium der EKHN Stiftung, Frankfurt

2012

ESF Workshop "Motivation and Action", Copenhagen

International Symposium "Biogenic amines as coordinators and controllers of physiological processes and behaviour", Berlin

2011

Bioclub FU Berlin, Berlin

Fall School International Research Training Group „Adaptive Minds“, Saarland University

FENS-IBRO Training Centre, „Imaging brain function in animals and humans“, Geneva

Physiology 2011, Oxford

Universitat Pompeu Fabra, Barcelona, Consolider-CogNeuro Seminar Series

International Jacobs University Bremen, JCLL Lecture

University of Zurich

University of Edinburgh

2010

UC Berkeley

ICN London

Karolinska Institutet, International Forum Lecture

Urania Berlin

Universität Konstanz, Konstanz

2009

Kyoto International Seminar on Psychology, Kyoto University, Japan

Human Neuroimaging Lab, Baylor College, Houston, TX

The Center for Brain Health, University of Texas at Dallas, Dallas, TX

Bernstein-Riken conference, Berlin, Germany

2nd Sino-German Frontiers of Science Symposium, Potsdam

Loccum, Evangelische Akademie

Neurocultures, MPI for History of Science

2008

Workshop Animal emotionale, ZIF Bielefeld

Brain Meeting, FIL, UCL, London, UK

Workshop Systems Biology of Decision Making, Columbus, Ohio

Brain awareness week, Rome

Centre de Neurosciences Cognitives, CNRS UMR 5529, Lyon

Alpine Brain Imaging Conference, Champéry

2007

Maxnet Aging Conference, Stockholm

Seminar on the Foundations of Human Social Behavior, Zürich

NWFZ Symposium. Berlin

Woche des Gehirns, Basel

Biozentrum Basel, Thursday Seminars in Neurobiology

2006

1st International Workshop of the Research Project „*animal emotionale* – Emotions as the Missing Link Between Cognition and Action, Bonn

Frankfurt Symposium BIC-MEG

Hamburg Seminar

F.C. Donders Center for Cognitive NeuroImaging, Nijmegen

Wellcome Department of Imaging Neuroscience, Brain meeting

Workshop: DOUBLE STANDARDS Towards an Integration of Evolutionary and Neurological Perspectives on Human Morality, Ghent

Symposium: From perceptual to economic decisions, ECVP 2006, St. Petersburg

2005

Banbury Workshop: Neurobiology of Decision-making. Cold Spring Harbor Laboratory

CVS Symposium, University of Rochester, NY

2002

Gruter Institute, Sqaw Valley

1997

Pre-conference special session, 3rd international Conference on Human Brain Mapping, Copenhagen

4. Teaching activities

I have several years of experience in teaching medical students as well as psychology and cognitive neuroscience students. I have taught different types of courses (lectures, seminars, bedside teaching). In 2010, we established a new Master's program at Freie Universität, "Social, Cognitive, and Affective Neuroscience", in which I do most of my teaching activities. As a faculty member I have taught in the International Max Planck Research School on the Life Course (LIFE) as well as the Berlin School of Mind and Brain.

Supervised MD and PhD Theses

On-going

R. Bruckner, Psychology, IMPRS LIFE, Max Planck School of Cognition, Freie Universität Berlin

A. Thomas, Psychology, Bernstein Graduate School

Y. Yao, Einstein Center for Neurosciences Berlin

Finished

S. Schulreich, 2017, Psychology, Freie Universität Berlin, Postdoc Hamburg University

J. Rodriguez-Buritica, 2017, Berlin School of Mind and Brain, Freie Universität Berlin, Postdoc, Freie Universität Berlin

J. von Heereman, Psychology, 2016, Freie Universität Berlin, Industry (Founder of TeamBuilding Things)

Y. Oganian, Psychology, 2015, Freie Universität Berlin, Postdoc, UCSF

R. Fatfouta, Psychology, 2015, Freie Universität Berlin, Industry (Kienbaum Consulting)

D. Kliemann, 2013, Psychology, Freie Universität Berlin, Assistant Professor Univ. of Iowa

G. Rosenblau, 2013, Psychology, Freie Universität Berlin, Assistant Professor, George Washington University

C. Kom, 2013, Berlin School of Mind and Brain, Freie Universität Berlin, Emmy Noether Group Leader, Hamburg University/UKE

N. Green, 2013, Berlin School of Mind and Brain, Freie Universität Berlin, Industry (RoX Health)

H. Wenzlaff, 2012, Medical Neuroscience, Charité, Humboldt-University Berlin, Professor, Medical School Berlin

M. Bahnemann, 2012, MD, Neurology, Charité – University medicine Berlin, Resident, Schlossparkklinik Berlin

L. Krugel, 2012, MD, Neurology, Charité – University medicine Berlin, Resident, Charité

S. Park, 2011, Berlin School of Mind and Brain, Freie Universität Berlin, Professor, Charité & Deutsches Institut für Ernährungsforschung

P. Mohr, 2011, Max Planck International Research School LIFE, Freie Universität Berlin, Juniorprofessor, Freie Universität Berlin

Thesis examiner

Laurence Hunt, University of Oxford, UK

Nicholas Wright, UCL, UK

Marco Economides, UCL, UK

5. Organization of Conferences, workshops and Symposia

- 03/2020 Online-Conference DIGI_HD2020, Program Committee
- 10/2019 10th anniversary of Center of Cognitive Neuroscience Berlin
- 09/2019 Workshop: Decision Making and the Brain, University of Zurich
- 05/2018 Workshop: Montreal - Berlin - Decision Neuroscience, McGill University, Montreal, Canada
- 09/2013 Annual meeting of the Society for Neuroeconomics. President
- 05/2012 2nd Einstein Fellowship Symposium, Berlin School of Mind and Brain. Session Chair
- 02/2011 Advances in Affective Neurosciences. Workshop. Hanse-Wissenschaftskolleg (HWK) Delmenhorst, Organized jointly with Arthur Jacobs, Thorsten Fehr, Manfred Herrmann
- 11/2010 Model-based Neuroimaging and Decision Neuroscience, Minisymposium, Annual Meeting of the Society for Neuroscience, San Diego, CA, Chairs: Birte Forstmann & Hauke R. Heekeren
- 10/2010 Berlin Decision Neuroscience Workshop, MPI for Human Development, Organizer (www.decisionneuroscience.de)
- 05/2010 Neuroeconomics: Genetics, Aging and Culture, 3rd Sino-German Frontiers of Science Symposium organized by the Alexander von Humboldt Foundation and the Chinese Academy of Science, Member of Organizing Committee and Session Co-Chair, Qingdao, China
- 05/2008 Mind and Motion: The Bidirectional Link between Thought and Action, Organized jointly with Markus Raab and Joseph Johnson, Center for Interdisciplinary Research (ZIF), Bielefeld
- 06/2007 "A Multi-Level Perspective on the Neural Correlates of Perceptual Decision Making. Human Brain Mapping 2007, Chicago, USA

- 08/2006 „From perceptual to economic decisions“, Organized jointly with V. Klucharev and Ale Smidts, ECVF 2006, St. Petersburg, Russia
- 06/2004 “Moral Decision Making – Neuroimaging, Neurophilosophy and Law”, Berlin, Germany

6. Awards & Honors

- 2015 Teaching Award ("Preis für gute Lehre"), Department of Education and Psychology and Education, Freie Universität Berlin
- 2012 President of the Society for Neuroeconomics
- 2008 Medical Neurosciences Teaching Award 2007
- 2005 Emmy-Noether-Award (DFG)
- 2004 Rudolf Virchow Award for excellence in research, Charité
- 2004 Travel award, Organization for Human Brain Mapping
- 2003 Travel award, Organization for Human Brain Mapping
- 2001 Postdoctoral fellowship, Emmy-Noether-Program, Deutsche Forschungsgemeinschaft (DFG), "Neurocognition of decision-making"
- 1997 Graduate scholarship, Deutsche Forschungsgemeinschaft (DFG), Graduate Programme 238 'Mechanisms of damage in CNS disease - Application of imaging techniques', Humboldt-University, Berlin

7. Professional activities

Service: Disciplinary

President, Society for Neuroeconomics, 2012

Executive Board (Elected), Society for Neuroeconomics, 2010-2014

Society Memberships: Society for Neuroscience, Organization for Human Brain Mapping (HBM), Cognitive Neuroscience Society, Society for Neuroeconomics, Deutsche Gesellschaft für Psychologie

Journal & Grant reviewing

Reviewer of Journal Submissions

Nature, Science, PloS Biology, Neuron, Nature Neuroscience, Trends in Neuroscience, Trends in Cognitive Science, Proceedings of the National Academy of Sciences, USA (PNAS), Journal of Neuroscience, Journal of Cognitive Neuroscience, Cerebral Cortex, Biological Psychiatry, NeuroImage, Human Brain Mapping, and others.

Reviewer of Grant Applications

Deutsche Forschungsgemeinschaft; Volkswagen Foundation; DAAD; National Science Foundation, USA; Wellcome Trust, UK; Medical Research Council, UK; Swiss National Science Foundation, Netherlands Organisation for Scientific Research, and others.

Editorial Board

2019 – Field Chief Editor Frontiers in Human Neuroscience
2010 – Chief Editor Frontiers in Decision Neuroscience
2011 – 2019 Specialty Chief Editor Frontiers in Human Neuroscience
2009 – 2011 Associate Editor Frontiers in Human Neuroscience
2008 – 2009 Editorial board Frontiers in Human Neuroscience
2007 – 2010 Editorial board Acta Neuropsychiatrica

8. Public Funding

Center grants & graduate programs

Funding period: 11/2012 - 10/2017
 Source: German Excellence Initiative - "Exzellenzinitiative des Bundes und der Länder zur Förderung von Wissenschaft und Forschung an deutschen Hochschulen" (Co-Applicant)
 Topic: Berlin School of Mind and Brain (www.mind-and-brain.de/)
 Speaker: A. Villringer, M. Pauen
 Amount: ca. 1 Mio € p.a. (total 5 Mio €)

Funding period: 11/2006 - 10/2011
 Source: German Excellence Initiative - "Exzellenzinitiative des Bundes und der Länder zur Förderung von Wissenschaft und Forschung an deutschen Hochschulen" (Co-Applicant)
 Topic: Berlin School of Mind and Brain (www.mind-and-brain.de/)
 Speaker: A. Villringer, M. Pauen
 Amount: ca. 1 Mio € p.a. (total 5 Mio €)

Funding period: 11/2007 - 10/2012
 Source: German Excellence Initiative - "Exzellenzinitiative des Bundes und der Länder zur Förderung von Wissenschaft und Forschung an deutschen Hochschulen"
 Topic: "Languages of Emotion", Cluster of Excellence, Freie Universität Berlin
 Speaker: H. Kappelhoff, H.R. Heekeren (deputy speaker)
 Amount: ca. 6 Mio € p.a. (total 30 Mio €)

Funding period: 2010 - 2014
 Source: DFG, Graduiertenkolleg 1589 (Co-Applicant)
 Topic: "Sensory Computation in Neural Systems"
 Speaker: Klaus Obermayer

Individual grants

Funding period: 11/2018 - 10/2021
 Source: DFG, HE 3347/9-1 "The interaction of memory and reinforcement learning in value-based choice"
 Topic: Memory and Reinforcement learning
 Collaboration: H. Heekeren (PI), Ulman Lindenberger (collaborator)
 Amount: 1 x Postdoc, ca. 156 T€ p.a. (468 T€)

Funding period: 11/2018 - 10/2021
 Source: DFG, HE 3347/8-1 "The role of stress neuromodulators in decision making under risk"
 Topic: Stress neuromodulators and decision making
 Collaboration: H. Heekeren, K. Wingenfeld
 Amount: 45T€

- Funding period: 4/2014 - 3/2017
Source: DFG, HE 3347/6-1 "Gains and losses in reputation"
Topic: Reputation
Collaboration: H. Heekeren
Amount: 1 x Postdoc, ca. 120 T€ p.a. (360 T€)
- Funding period: 1/2013 - 12/2016
Source: DFG, SFB 649 "Security and Risk" (TP A12)
Topic: Einflüsse des Entscheidungskontexts auf die Risikowahrnehmung bei Anlageentscheidungen.
Collaboration: H. Heekeren
Amount: 1 x BAT IIa, ca. 72 T€ p.a. (288 T€)
- Funding period: 5/2011 - 04/2013
Source: BMBF Research collaboration „IRAGS“ (Speaker: Arthur Jacobs)
Topic: Sub-project "Individual Reading-Associated Genetic Score (IRAGS)".
Collaboration: H. Heekeren, A. Jacobs, J. Ziegler, U. Lindenberger, L. Bertram,
Amount: 1 x BAT IIa/2, ca. 36 T€ p.a. (total 144 T€)
- Funding period: 7/2010 - 10/2012
Source: DFG, Cluster of Excellence "Languages of Emotion"
Topic: "FIFA – embodying the nation"
Collaboration: H. Heekeren, Christian von Scheve
Amount: 1 x BAT IIa/2, ca. 40 T€ p.a. (120 T€)
- Funding period: 6/2009 - 05/2011
Source: Volkswagen Foundation
Topic: Behavioral and Neurobiological Foundations of Risk Preferences in American and German Baby Boomers.
Collaboration: H. Heekeren (Speaker), U. Lindenberger, S.-C. Li, B. Knutson, L. Carstensen (Stanford University)
Amount: 1 x BAT IIa, ca. 72 T€ p.a. (total 144 T€)
- Funding period: 1/2009 - 12/2012
Source: DFG, SFB 649 "Security and Risk" (TP A12)
Topic: Contextual Influences on Risk Perception in Investment Decisions.
Collaboration: H. Heekeren & J. Rieskamp
Amount: 1 x BAT IIa, ca. 102 T€ p.a. (408 T€)
- Funding period: 1/2009 - 12/2011
Source: Deutsche Forschungsgemeinschaft, (PAK317) HE 3347/3-1
Topic: Visual Memory in younger and older adults: EEG and fMRI Studies of Neural Dynamics underlying Repetition Priming
Collaboration: H. Heekeren, U. Lindenberger, S.-C. Li
Amount: 1 x BAT IIa, ca. 72 T€ p.a. (216 T€)
- Funding period: 7/2009 - 10/2012
Source: DFG, Cluster of Excellence "Languages of Emotion"
Topic: Training Socio-Emotional Competencies: Development and Evaluation of a New Software Tool for Adults with Asperger Autism
Collaboration: I. Dziobek, H. Kappelhoff
Amount: 2 x BAT IIa/2, ca. 80 T€ p.a. (total 175 T€)

Funding period: 11/2007 - 5/2011
 Source: BMBF, Research collaboration „Cognitive Neuroscience of decision making and performance monitoring in health and obsessive-compulsive disorder” (Speaker: Markus Ullsperger)
 Topic: Sub-project TP3: Reward- and monitoring-based decision making in the healthy brain: behaviour, genes, and neural correlates
 Amount: BAT IIa, ca. 73 T€ p.a. (218 T€)

Funding period: 1/2008 - 6/2011
 Source: BMBF, Research collaboration BMBF, „The Role of the Emotional Network and Neuropeptidergic Modulation in Normal and Impaired Social Cognition”. (Speaker: Sabine Herpertz)
 Topic: Module 3: Social cognition and empathy in autism spectrum disorders
 Amount: BAT IIa, ca. 102 T€ p.a. (308 T€)

Funding Period: 2007
 Source: BMBF, NIL-Initiative, NIL – II
 Duration: 12 months
 Topic: Learning Induced Improvements in Mathematical Cognition: Cerebral Correlates and Sources of Individual Differences
 Speaker: I. Wartenburger (Project Imaging)
 Collaboration: E. van der Meer, J. Kramer, HR. Heekeren, I. Wartenburger
 Amount: Project Imaging: 35T€ (1 PhD-Student, 1 Student assistant, consumables)

Funding Period: 2008 - 2010
 Source: Organization for Autism Research
 Topic: Evaluating the effectiveness of the Social Cognition Training Tool (SCOTT) in autism spectrum conditions on behavioral, oculomotor, and neuronal levels
 Collaboration: I. Dziobek, S. Bölte, HR. Heekeren
 Amount: 59 T\$ (40 T€)

Funding Period: 2005 - 2011
 Source: DFG, Emmy-Noether-Award (He 3347/1-2)
 Topic: Neurocognition of Decision-making
 Amount: ca. 188 T€ per year for 5 years (940T€)

Funding period: 2005 - 2008
 Source: BMBF (Berlin NeuroImaging Center, P11, Co-PI)
 Topic: Dopaminergic Neuromodulation in Cognitive Aging
 Amount: BAT IIa/2, ca. 28 T€ per year (84 T€)

Funding period: 2005 - 2008
 Source: BMBF (Berlin NeuroImaging Center, P13, Co-PI)
 Topic: Dopaminergic Neuromodulation in Cognitive Aging
 Amount: BAT IIa/2, ca. 28 T€ per year (84 T€)

Funding period: 2006 (NIL – I)
 Source: BMBF, with Prof. van der Meer, Prof. Kramer, Dr. Wartenburger
 Topic: Behavioral and neural correlates of mathematical giftedness.
 Amount: 6 T€