

Curriculum vitae

Personal information

Date/place of birth 29.07.1974 in Bielefeld
Nationality German
Marital status unmarried

Affiliation

Evangelisches Klinikum Bethel (EvKB)
Department of Psychiatry and Psychotherapy
Research Division
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33617 Bielefeld
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Email: max.toepper@evkb.de

Curriculum vitae

2005 Diploma in Psychology (Bielefeld University, Germany)
2006 Bender Institute of Neuroimaging (BION), Giessen, Germany
since 2007 Research fellow and clinical neuropsychologist (EvKB, Department of Psychiatry and Psychotherapy, Research Division and Department of Geriatric Psychiatry, Bielefeld, Germany)
2007 - 2011 PhD (Giessen University, Germany)
Postgraduate education in Clinical Neuropsychology GNP
since 2014 Head of working group *Aging and Cognitive Neuroscience* (EvKB)
2018 Habilitation at Bielefeld University
2018 - 2019 Postgraduate education in Sports-Neuropsychology GSNP

General skills and knowledge

Language skills German (native language)
English (fluent in spoken and written language)
French (basic knowledge)
Software skills Microsoft Word, Excel, Powerpoint, Outlook, SPSS, Matlab
Driving license Class B (Germany)
Hobbies Sport

Research topics

Cognitive neuroscience

Neuropsychology

Working memory, Executive functioning, Inhibition

Driving fitness, Symbol comprehension

Aging, Mild Cognitive Impairment (MCI), Alzheimer's disease

Concussions in sport

Memberships

Member of the German Organizations for Neuropsychology (GNP) and Sports-Neuropsychology (GSPN)

Deputy Head of GNP working group "Driving fitness"

Editorial Board member Geriatrics and JAD

Awards

Poster award (DGVP/DGVM 2019 in Bonn)

Poster award (DGVP/DGVM 2015 in St Gallen)

Poster award (DGGPP 2015 in Essen)

Poster award (GNP/FESN 2013 in Berlin)

Poster award (DGGPP 2013 in Essen)

Poster award (DGS 2003 in Munich)

Teaching assignments

since 2008	EvKB Internal training courses
2014 - 2017	Bielefeld University 270252 Neuropsychological reports
since 2016	Bielefeld University 270945/270947 Dementia
since 2017	Gießen University Neuropsychological changes in aging and dementia
since 2020	Bielefeld University 270879 Neuropsychology of Driving Fitness
since 2021	Giessen University Driving-relevant aspects in psychiatric and neurological diseases

Articles

Toepper, M., Schulz, P., Beblo, T., & Driessen, M. (2021). Predicting On-Road Driving Skills, Fitness to Drive, and Prospective Accident Risk in Older Drivers and Drivers with Mild Cognitive Impairment: The Importance of Non-Cognitive Risk Factors. *Journal of Alzheimer's Disease, 79*, 401-414. doi: 10.3233/JAD-200943

Schulz, P., Beblo, T., Spannhorst, S., Boedeker, S., Kreisel, S. H., Driessen, M., Labudda, K. & **Toepper, M. (2021).** Assessing fitness to drive in older adults: Validation and extension of an economical screening tool. *Accident Analysis & Prevention, 149*, 105874. doi: 10.1016/j.aap.2020.105874

Schulz, P., Beblo, T., Spannhorst, S., Wagner, T., Bertke, V., Driessen, M., Kreisel, S. H., & **Toepper, M. (2020).** Selbstberichtetes Vermeidungsverhalten ist ein unabhängiger Indikator für beeinträchtigte praktische Fahrfähigkeiten bei älteren Kraftfahrern. *Zeitschrift für Verkehrssicherheit, 66(2)*.

Dehn, L.B., Piefke, M., **Toepper, M., Kohsik, A., Rogalewski, A., Dyck, E., Botsch, M., & Schäbitz, W.R. (2020).** Cognitive training in an everyday-like virtual reality enhances visual-spatial memory capacities in stroke survivors with visual field defects. *Topics in Stroke Rehabilitation, 27*, 442-452. doi: 10.1080/10749357.2020.1716531

Boedeker, S., Schulz, P., Beblo, T., Lenz, E., Sammer, G., Kreisel, S., Driessen, M., & **Toepper, M. (2020).** Symbol Comprehension in Patients with Alzheimer Disease Dementia, Mild Cognitive Impairment, and Major Depressive Disorder. *Alzheimer Disease & Associated Disorders, 34*, 85-93. doi: 10.1097/WAD.0000000000000347

Schulz, P., Beblo, T., Spannhorst, S., Labudda, K., Wagner, T., Bertke, V., Boedeker, S., Driessen, M., Kreisel, S., & **Toepper, M. (2020).** Avoidance behavior is an independent indicator of poorer on-road driving skills in older adults. *The journals of gerontology. Series B, Psychological sciences and social sciences, 75*, 2152-2161. doi: 10.1093/geronb/gbz063

Schulz, P., Labudda, K., Bertke, V., Bellgardt, S., Boedeker, S., Spannhorst, S., Kreisel, S. H., Driessen, M., Beblo, T., & **Toepper, M. (2020).** Age effects on traffic sign comprehension. *IATSS research, 44*, 103-110. doi: 10.1016/j.iatssr.2019.10.001

Toepper, M., & Falkenstein, M. (2019). Driving fitness in different forms of dementia: an update. *Journal of the American Geriatrics Society, 67*, 2186-2192. doi: 10.1111/jgs.16077

Lamers, A., **Toepper, M., Fernando, S., Schlosser, N., Bauer, E., Woermann, F., Driessen, M., & Beblo, T. (2019).** Nonacceptance of negative emotions in women with borderline personality disorder: association with neuroactivity of the dorsal striatum. *Journal of Psychiatry and Neuroscience, 44*, 303-312. doi: 10.1503/jpn.180077

Schulz, P., Spannhorst, S., Bertke, V., Kreisel, S. H., Beblo, T., Driessen, M., & **Toepper, M. (2019).** Validierung eines ökonomischen Einschätzungsbogens zur Überprüfung der Fahrtauglichkeit von Senioren am Goldstandard. *Zeitschrift für Verkehrssicherheit, 65(2)*.

Bauer, E., Sammer, G., & **Toepper, M. (2018).** Performance level and cortical atrophy modulate the neural response to increasing working memory load in younger and older adults. *Frontiers in Aging Neuroscience, 10*:265. doi: 10.3389/fnagi.2018.00265

Dehn, L.B., Boedeker, S., Nienhaus, M., Labudda, K., Beblo, T., Driessen, M., & **Toepper, M. (2018).** Whether to Ask: How Valid Are Memory Complaints in Alzheimer's Disease? *Journal of the American Geriatrics Society, 66(6)*, 1237-1238. doi: 10.1111/jgs.15373

Dehn, L.B., **Toepper, M., Driessen, M., & Beblo, T. (2017).** Methodological Influences on the Association Between Self-Rated and Objective Memory Functioning. *The Journal of Gerontopsychology and Geriatric Psychiatry, 30*, 177-178. doi: 10.1024/1662-9647/a000177

Toepper, M. (2017). Dissociating normal aging from Alzheimer's disease: a view from cognitive neuroscience. *Journal of Alzheimer's Disease*, *57*, 331-352. doi: 10.3233/JAD-161099

Schulz, P., Spannhorst, S., Iffland, B., & **Toepper, M.** (2017). Do self-reports provide valid information about driving fitness in seniors? *International Journal of Geriatric Psychiatry*, *32*, 231-232. doi: 10.1002/gps.4612

Schulz, P., Spannhorst, S., Kreisel, S., & **Toepper, M.** (2016). Beratung zur Fahreignung in der Gedächtnissprechstunde. Erfahrungen mit einem strukturierten und individualisierten Konsensusprozess. *Zeitschrift für Verkehrssicherheit*, *62*(3).

Toepper, M., Sammer, G., & Bauer, E. (2016). Reproducibility of complex fMRI effects. *Journal of the American Geriatrics Society*, *64*, e62. doi: 10.1111/jgs.14338

Spannhorst, S., **Toepper, M.**, Schulz, P., Wenzel, G., Driessen, M., & Kreisel, S. (2016). Advice for elderly drivers in a German memory clinic: A case report on medical, ethical and legal consequences. *Geriatrics* 2016, *1*(1), 9. doi: 10.3390/geriatrics1010009

Schulz, P., Spannhorst, S., Beblo, T., Thomas, C., Kreisel, S., Driessen, M., & **Toepper, M.** (2016). Preliminary validation of a questionnaire covering risk factors for impaired driving skills in elderly patients. *Geriatrics* 2016, *1*(1), 5. doi: 10.3390/geriatrics1010005

Guhra, M., Thomas, C., Boedeker, S., Kreisel, S., Driessen, M., Beblo, T., Ohrmann, P., & **Toepper, M.** (2016). Linking CSF and Cognition in Alzheimer's Disease: Reanalysis of Clinical Data. *Experimental Gerontology*, *73*, 107-113. doi: 10.1016/j.exger.2015.11.008

Bauer, E., Sammer, G., & **Toepper, M.** (2015). Trying to put the puzzle together: age and performance level modulate the neural response to increasing task load within left rostral prefrontal cortex. *BioMed Research International*, vol. 2015. doi: 10.1155/2015/415458

Bauer, E., **Toepper, M.**, Gebhardt, H., Gallhofer, B., & Sammer, G. (2015). The significance of caudate volume for age-related associative memory decline. *Brain Research*, *1622*, 137-148. doi: 10.1016/j.brainres.2015.06.026

Spannhorst, S., Kreisel, S., **Toepper, M.**, & Thomas, C. (2014). Fahrtauglichkeit. Konsensusverfahren zur Beratung von Senioren in der Gedächtnissprechstunde. *Neurotransmitter*, *25*, 30-34. doi: 10.1007/s15016-014-0842-y

Toepper, M., Boedeker, S., Westphal, S., Driessen, M., & Beblo, T. (2014). Does Mount Vesuvius indicate an outbreak of Alzheimer's disease? *Journal of the American Geriatrics Society*, *62*, 1989-1991. doi: 10.1111/jgs.13042

Toepper, M., Steuwe, C., Beblo, T., Bauer, E., Boedeker, S., Thomas, C., Markowitsch, H., Driessen, M., & Sammer, G. (2014). Deficient symbol processing in Alzheimer's disease. *Alzheimer's Disease and Associated Disorders*, *28*, 340-346. doi: 10.1097/WAD.0000000000000035

Toepper, M., Markowitsch, H., Gebhardt, H., Beblo, T., Bauer, E., Wörmann, F., Driessen, M., & Sammer, G. (2014). The impact of age on prefrontal cortex integrity during spatial working memory retrieval. *Neuropsychologia*, *59*, 157-168. doi: 10.1016/j.neuropsychologia.2014.04.020

Toepper, M., Gebhardt, H., Bauer, E., Haberkamp, A., Beblo, T., Gallhofer, B., Driessen, M., & Sammer, G. (2014). The impact of age on load-related dorsolateral prefrontal cortex activation. *Frontiers in Aging Neuroscience*, *6*. doi: 10.3389/fnagi.2014.00009

Toepper, M., Beblo, T., Beckmann, N., Gebhardt, H., Thomas, C., Driessen, M., & Sammer, G. (2013). The block suppression test uncovers specific inhibitory deficits in mild cognitive impairment. *International Journal of Geriatric Psychiatry*, *28*, 769-770. doi: 10.1002/gps.3910

Toepper, M., Gebhardt, H., Beblo, T., Thomas, C., Driessen, M., Bischoff, M., Blecker, C. R., Vaitl, D., & Sammer, G. (2010). Functional correlates of distractor suppression during spatial working memory encoding. *Neuroscience, 165*, 1244-1253. doi: 10.1016/j.neuroscience.2009.11.019

Toepper, M., Markowitsch, H. J., Gebhardt, H., Beblo, T., Thomas, C., Gallhofer, B., Driessen, M., & Sammer, G. (2010). Hippocampal involvement in working memory encoding of changing locations: an fMRI study. *Brain Research, 1354*, 91-99. doi: 10.1016/j.brainres.2010.07.065

Wingenfeld, K., Rullkoetter, N., Mensebach, C., Beblo, T., Mertens, M., Kreisel, S., **Toepper, M.**, Driessen, M., & Woermann, F. G. (2009). Neural correlates of the individual emotional Stroop in women with borderline personality disorder. *Psychoneuroendocrinology, 34*, 571-586. doi: 10.1016/j.psyneuen.2008.10.024

Toepper, M., Beblo, T., Thomas, C., & Driessen, M. (2008). Early detection of Alzheimer's disease: a new working memory paradigm. *International Journal of Geriatric Psychiatry, 23*, 272-278. doi: 10.1002/gps.1873

Schulz, M., **Toepper, M.**, & Behrens, J. (2004). Rauchverhalten von Mitarbeitern und Patienten der psychiatrischen Abteilung eines Allgemeinkrankenhauses. *Das Gesundheitswesen, 66* (2), 107-113. doi: 10.1055/s-2004-812798

Book chapters and recensions

Toepper, M., (2019). Rezension des Buches „Fahreignung im höheren Lebensalter: Sensibilisieren – Erfassen – Fördern“. *Zeitschrift für Neuropsychologie, 30*(1), 73.

Toepper, M., & Falkenstein, M. (2019). Organische Störungen (Demenzen). In: G. Laux, A. Brunbauer & M. Graw (Hrsg.), *Fahreignung bei psychischen Erkrankungen – Verkehrsmedizin und Verkehrspsychologie* (S. 51-64). Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft (MWV).

Thomas, C., Wittmiß, S., **Toepper, M.**, & Driessen, M. (2009). Religiöse Motivation und Depression im Alter – Erste Ergebnisse einer klinisch prospektiven Studie. In: G. Thomas & I. Karle (Hrsg.), *Krankheitsdeutung in der postsäkularen Gesellschaft – Theologische Ansätze im interdisziplinären Gespräch* (S. 603-613). Stuttgart: Kohlhammer.

Wittmiß, S., **Toepper, M.**, Driessen, M., & Thomas, C. (2009). Religiöse Deutungspraxis und Depression. In: G. Adler, H. Gutzmann, M. Haupt, R. Kortus & D. K. Wolter (Hrsg.), *Seelische Gesundheit und Lebensqualität im Alter – Depression-Demenz-Versorgung* (S. 63-68). Stuttgart: Kohlhammer.

Funding

DFG (TO 894/5-1):

“Symbol processing during normal and pathological aging”

Project number: 314496754

Total amount: 194.148 Euro

Own amount: 194.148 Euro

Funding since 2016

DFG (TO 894/3-1):

“Emotion regulation in Borderline Personality Disorder: functional neuronal correlates of habitual and instructed acceptance and suppression of positive and negative emotions”

Project number: 260615460

Total amount: 223.573 Euro

Own amount: 30.000 Euro

Funding from 2014 – 2017

DFG (TO 894/10-1)

„Assessment of driving fitness in seniors“

Project number: 447744963

Total amount: 400.517 Euro

Own amount: 400.517 Euro

Funding since 2021

Verwaltungs-Berufsgenossenschaft (VBG)

“Evaluation of the implementation and dissemination of an algorithm for the diagnosis and therapy of traumatic brain injuries in professional sport“

Total amount: 169.548 Euro

Own amount: 72.156 Euro

Funding from 2019 – 2020

DEKRA, Vistec AG

„Assessment of driving fitness in seniors“ (Pilot study)

Support of on-road driving assessments

Total amount: 10.000 Euro

Own amount: 10.000 Euro

Funding from 2017 – 2018

Bielefeld, 01.04.2021



Dr. Max Töpper