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Aging & Cognition Research Group
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Martin Riemer

Education

- 02/2013 Mannheim University: Ph.D. in Psychology (summa cum laude)
- 02/2009 Mannheim University: Diploma in Psychology
- 2003-2009 courses in Psychology, University of Mannheim
- 2002-2003 courses in Physics, University of Heidelberg

Employments and Experiences

- since 2014 Postdoctoral researcher at the Otto-von-Guericke University Magdeburg and the German Center for Neurodegenerative Diseases (DZNE), Magdeburg
- 2013 Postdoctoral researcher at the Central Institute of Mental Health, Department of Cognitive and Clinical Neuroscience, Mannheim
- 2009-2013 Research assistant at the Otto-Selz-Institute, University of Mannheim, Laboratory for Clinical Psychophysiology
- 2008-2009 Student assistant at the Otto-Selz-Institute, University of Mannheim, Laboratory for Clinical Psychophysiology
- 2006-2007 Internship at the Brain Research Laboratory, University of Vienna, Austria. Project title: *Subliminal release of the feedback-related negativity (FRN)*

Funding ID and Awards

- 2019-2020 Research Grant for the project 'Time perception in real-life scenarios and its value for clinical diagnostics of early-stage dementia'. Funding body: German Research Foundation (DFG)
- 2017-2020 Research Grant for the project 'Resolving complex decisions via planning and associative value generalisation' (with PD Dr. Gerhard Jocham). Funding body: Center for Behavioral Brain Sciences
- 2016-2018 Research Grant for the project 'AGETIME'. Funding body: Europäische Sozialfonds (ESF)
- 2011-2013 Doctoral scholarship from the University of Mannheim (according to the Landesgraduiertenförderungsgesetz)

- 2012 Baden-Württemberg-Certificate for University Didactics
2009 Otto-Selz-Award of the Faculty of Social Sciences (University of Mannheim)

Memberships

Society for Neuroscience (SfN)
German Society for Psychologists (DGPs)
International Society for Psychophysics (ISP)
Timing Research Forum (TRF)
Center for Behavioral Brain Sciences (CBBS)

Teaching experience

- 2016 Spatial Cognition, lecture (M.Sc. Integrated Neuroscience; Otto-von-Guericke University, Magdeburg)
- 2012 Schwerpunkte der Klinischen Psychologie: Somatoforme und stressbedingte Störungen, seminar (B.Sc. Psychology; University of Mannheim)
Körperwahrnehmung und Stress, project seminar (B.Sc. Psychology; University of Mannheim)
- 2011 Ausgewählte Probleme der Klinischen Psychologie I: Klinische Diagnostik, seminar (B.Sc. Psychology; University of Mannheim)
Affektive Störungen, seminar (Diploma Psychology; University of Mannheim)
Hautleitfähigkeit und Körperrepräsentationen, project seminar (B.Sc. Psychology; University of Mannheim)
- 2010 Klinische Psychologie, seminar (B.Sc. Psychology; University of Mannheim)

Supervisions

- 2018 Timing deficiencies in amnesic mild cognitive impairment: Disentangling clock and memory processes, M.Sc. thesis of Sarah Maaß (University of Groningen)
- 2017 The effect of healthy aging on the rubber hand illusion (RHI), B.Sc. thesis of Viktoria Friesen (University of Magdeburg)
- 2016 Effect of body location on allocentric distance perception, internship of Jana Appl (University of Magdeburg)
Allozentrische Distanzwahrnehmung in virtuellen Umgebungen, B.Sc. thesis of Claudia Thu Ha Vuong (University of Magdeburg)
- 2015 Interaktion zwischen räumlicher, zeitlicher und numerischer Wahrnehmung, B.Sc. thesis of Inga Menze (University of Magdeburg)

- 2014 Time perception in small vs large environments, B.Sc. thesis of Rebecca-Sandra Korn (University of Magdeburg)
- 2012 Schmerzverarbeitung in der RHI, internship of Nele Konstanze Zorn (University of Mannheim)
- 2010 Carpenter-Effekt (*carpenter effect*), internship of Jascha Thiem (University of Mannheim)

Reviews for Journals

Neuroimage, Journal of Neuroscience, Journal of Experimental Psychology, PLOS ONE, Experimental Brain Research, Timing & Time Perception, Consciousness & Cognition, Psychology & Neuroscience, American Journal of Psychology, Scandinavian Journal of Psychology

Organised Symposia

- 2017 Interrelations between the Representation of Time and Space. *1st Conference of the Timing Research Forum (TRF) in Strasbourg, France*
- 2015 The Body in Space. *IV International Conference on Spatial Cognition (ICSC) in Rome, Italy*
- 2012 New Applications for the Rubber Hand Illusion. *54th TeaP in Mannheim, Germany*
- 2010 Referenzsysteme sensorischer Afferenzen. *52nd TeaP in Saarbrücken, Germany*

Publications

Peer-reviewed journal articles

Riemer, M., Shine, J.P., & Wolbers, T. (2018). On the (a)symmetry between the perception of time and space in large-scale environments. *Hippocampus*, *28*: 539-548.

Vieweg, P., **Riemer, M.**, Berron, D., & Wolbers, T. (2018). Memory Image Completion (MIC): Establishing a task to behaviorally assess pattern completion in humans. bioRxiv 366203. doi: <https://doi.org/10.1101/366203>

Müller, N.G., **Riemer, M.**, Brandt, L., & Wolbers, T. (2018). Repetitive transcranial magnetic stimulation reveals a causal role of the human precuneus in spatial updating. *Scientific Reports*, *8*(1): 10171. doi: [10.1038/s41598-018-28487-7](https://doi.org/10.1038/s41598-018-28487-7).

Riemer, M., & Wolbers, T. (2018). Negative errors in time reproduction tasks. *Psychological Research*, doi: [10.1007/s00426-018-0994-7](https://doi.org/10.1007/s00426-018-0994-7).

Kuehn, E., Perez-Lopez, M.B., Diersch, N., Döhler, J., Wolbers, T., & **Riemer, M.** (2018). Embodiment in the aging mind. *Neuroscience and Biobehavioral Reviews*, *86*: 207-225.

Riemer, M. (2018). Delusions of control in schizophrenia: Resistant to the mind's best trick? *Schizophrenia Research*, *197*: 98-103.

Fuchs, X., **Riemer, M.**, Diers, M., Flor, H., & Trojan, J. (2016). Perceptual drifts of real and artificial limbs in the rubber hand illusion. *Scientific Reports*, *6*: 24362.

- Riemer, M.**, Diersch, N., Bublatzky, F., & Wolbers, T. (2016). Space, time, and numbers in the right posterior parietal cortex: Differences between response code associations and congruency effects. *NeuroImage*, 129: 72-79.
- Riemer, M.**, Rhodes, D., & Wolbers, T. (2016). Systematic underreproduction of time is independent of judgment certainty. *Neural Plasticity (Article ID: 6890674)*: 1-8.
- Riemer, M.** (2015). Psychophysics and the anisotropy of time. *Consciousness & Cognition*, 38: 191-197.
- Riemer, M.**, Bublatzky, F., Trojan, J., & Alpers, G.W. (2015). Defensive activation during the rubber hand illusion: Ownership versus proprioceptive drift. *Biological Psychology*, 109: 86-92.
- Riemer, M.**, Fuchs, X., Bublatzky, F., Kleinböhl, D., Hölzl, R., & Trojan, J. (2014). The rubber hand illusion depends on a congruent mapping between real and artificial fingers. *Acta Psychologica*, 152: 34-41.
- Bublatzky, F., Gerdes, A.B.M., White, A.J., **Riemer, M.** & Alpers, G.W. (2014). Social and emotional relevance in face processing: Happy faces of future interaction partners enhance the LPP. *Frontiers in Human Neuroscience*, 8: 493. doi: 10.3389/fnhum.2014.00493
- Riemer, M.**, Hölzl, R., & Kleinböhl, D. (2014). Interrelations between the perception of time and space in large-scale environments. *Experimental Brain Research*, 232: 1317-1325.
- Riemer, M.**, Kleinböhl, D., Hölzl, R., & Trojan, J. (2013). Action and perception in the rubber hand illusion. *Experimental Brain Research*, 229: 383-393.
- Riemer, M.**, Trojan, J., Kleinböhl, D., & Hölzl, R. (2012). A 'view from nowhen' on time perception experiments. *Journal of Experimental Psychology: Human Perception and Performance* 38 (5): 1118-1124.
- Riemer, M.**, Trojan, J., Kleinböhl, D., & Hölzl, R. (2010). Body posture affects tactile discrimination and identification of fingers and hands. *Experimental Brain Research*, 206(1): 47-57.

Monographs

- Riemer, M.** (2013). Dynamic representations of the body in space. PhD Thesis, Otto Selz Institute for Applied Psychology, University of Mannheim.
- Riemer, M.** (2009). Postural influences on tactile discrimination and identification of fingers and hands. Diploma Thesis, Otto Selz Institute for Applied Psychology, University of Mannheim.