

5 Academic curriculum vitae and publication lists

Academic curriculum vitae: Univ.-Prof. Dr. rer. nat. Dr. phil. habil Martina Rieger, Dipl.-Psych.

Work address

Institute for Psychology

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Research Areas

Cognitive Psychology, Experimental Psychology, Neuropsychology, Biological Psychology

Research Topics

motor imagery, mental training, motor expertise (typing, music, sports), action coordination (bimanual, unimanual), action goals in action control, action inhibition, tool transformations, Fitt's law, error processing, cognition and aging, sleep and cognition

Academic Career and Positions

Since 03/2016	Full Professor at the University for Health Sciences, Medical Informatics and Technology (UMIT), Hall in Tirol, Austria
10/11-02/16	Associate Professor at the University for Health Sciences, Medical Informatics and Technology (UMIT), Hall in Tirol, Austria
10/09-09/11	Temporary Professor („Professurvertretung“) for Cognitive Psychology, Johann Wolfgang Goethe-University, Frankfurt/Main, Germany

01/09-09/09	Senior Researcher, Max-Planck Institute for Human Cognitive and Brain Sciences, Department of Psychology, Leipzig, Germany
01/08-12/08	College Teacher, University College London (UCL), Department of Psychology, London, UK
12/07	Habilitation: "Action goals in action control", Martin-Luther-University Halle-Wittenberg, Germany
02/01-12/07	Senior Researcher, Max-Planck-Institute for Psychological Research, renamed to Max-Planck-Institute for Human Cognitive and Brain Sciences in January 2004. Location: Munich until March 2005, from April 2005 Leipzig, Germany
06/00-12/00	Researcher, Rheinisch-Westfälische Technical University, Aachen, Germany
05/00	Dissertation: Title: "Neuroanatomical correlates and consequences of the inhibition of ongoing responses", Philipps-University Marburg, Germany, Grade "magna cum laude"
02/99-01/01	Psychologist, Compilation and Programming of a Multimedia-CD on Insomnia, German Society for Sleep Medicine, Schwalmstadt-Treysa, Germany
05/97-04/99	Researcher, Philipps-University, Marburg, Germany
04/97	Diplom (equivalent to Master), Philipps-University Marburg, Germany

Most important invitations to present at scientific conferences

- Tactile Research Group 2012 Meeting, Minneapolis (2012)
- Tagung experimentell arbeitender Psychologen (2011, 2010)
- Tübinger Wahrnehmungskonferenz (2006)
- Jahrestagung der Deutschen Gesellschaft für Schlafforschung und Schlafmedizin (2004)
- Jahrestagung der Gesellschaft für Neuropsychologie (2004)

Most important peer review activities: more than 40, among them

- Member of the editorial advisory board: Psychological Research
- Journal of Experimental Psychology: General
- Journal of Experimental Psychology: Human Perception and Performance
- Science
- German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)

Most important research projects funded in the past

- The role of goal representations in action control [Die Rolle von Zielrepräsentationen in der Handlungssteuerung], DFG-RZ: RI 1174/3-1, 1 PhD student and 2 student assistants, 1.2.2009-31.1.2011, 94.800 Euro.
- Forward models in motor imagery, FWF P24940 – B25, 1 PhD student and 2 student assistants, 1.12.2012-31.03.2017, 158.949 Euro.
- What is learned in mental practice?, FWF P 30488-BBL , 1 Postdoc and 2 student assistants, 1.5.2018-31.11.2021, 270.774 Euro.

Most important international collaborations (last 5 years)

Prof. Dr. Iring Koch, RWTH Aachen

Prof. Dr. Jochen Müsseler, RWTH Aachen

Prof. Dr. Cristina Massen, Hochschule Bonn-Rhein-Sieg

Prof. Dr. Dorit Wenke, PFH Göttingen

Publications (last 5 years)

a) Peer-reviewed publications

- Dahm, S.F. & **Rieger, M.** (2016). Is there symmetry in motor imagery? Exploring different versions of the mental chronometry paradigm. *Attention, Perception, & Psychophysics*, 78, 1794-1805. DOI 10.3758/s13414-016-1112-9
- Dahm, S.F. & **Rieger, M.** (2016). Cognitive constraints on motor imagery. *Psychological Research*, 80, 235–247. DOI 10.1007/s00426-015-0656-y
- Rieger, M.**, & Bart, V. K. E. (2016). Typing style and the use of different sources of information during typing: an investigation using self-reports. *Frontiers in Psychology*, 7, 1908. DOI 10.3389/fpsyg.2016.01908
- Rieger, M.**, Dahm, S.F. & Koch, I. (online first). Inhibition in motor imagery: a novel action mode switching. *Paradigm. Psychonomic Bulletin & Review*. DOI 10.3758/s13423-016-1095-5
- Dahm, S. F., & **Rieger, M.** (2014). Gedanken in Bewegung: Über Handlungsvorstellungen [Thoughts in motion: about action imagery]. *Das In Mind Magazin*, 2
- Pfister, R., Obhi, S., **Rieger, M.**, & Wenke, D. (2014). Action and perception in social contexts: Intentional binding for social action effects. *Frontiers in Human Neuroscience*, 8, 667. DOI 10.3389/fnhum.2014.00667
- Rieger, M.**, Dietrich, S. & Prinz, W. (2014) Effects of angular shift transformations between movements and their visual feedback on coordination in unimanual circling. *Frontiers in Psychology*, 5, 693. DOI 10.3389/fpsyg.2014.00693
- Rieger, M.**, Dietrich, S., & Prinz, W. (2014). Effects of angular gain transformations between movement and visual feedback on coordination performance in unimanual circling. *Frontiers in Psychology*, 5, 152. DOI 10.3389/fpsyg.2014.00152
- Massen, C., **Rieger, M.**, & Sülzenbrück, S. (2014). Using scissors to bisect a line: A perception-action dissociation in complex tool use. *Attention, Perception, & Psychophysics*, 76(1), 172-178. DOI 10.3758/s13414-013-0564-4
- Rieger, M.**, & Massen, C. (2014). Tool characteristics in imagery of tool actions. *Psychological Research*, 78 (1), 10-17. DOI 10.1007/s00426-013-0481-0
- Sutter, C., Sülzenbrück, S., **Rieger, M.**, & Müsseler, J. (2013). Limitations of distal effect anticipation when using tools. *New Ideas in Psychology*, 31(3), 247–257. DOI 10.1016/j.newideapsych.2012.12.001
- Diefenbach, C., **Rieger, M.**, Massen, C., & Prinz, W. (2013). Action-sentence compatibility: the role of action effects and timing. *Frontiers in Psychology*, 2, Article 272. DOI 10.3389/fpsyg.2013.00272

- Diersch, N., Mueller, K., Cross, E.S., Stadler, W., **Rieger, M.**, & Schütz-Bosbach, S. (2013). Action prediction in younger versus older adults: Neural correlates of motor familiarity. *PLoS ONE*, 8(5), e64195. DOI:10.1371/journal.pone.0064195 DOI 10.1371/journal.pone.0064195
- Walter, A., & **Rieger, M.** (2012). Similar mechanisms of movement control in target- and effect-directed actions toward spatial goals? *Frontiers in Psychology*, 3, Article 539. DOI 10.3389/fpsyg.2012.00539
- Dietrich, S., Prinz, W., & **Rieger, M.** (2012). Vision-to-event and movement-to-event coordination in an unimanual circling task. *Experimental Brain Research*, 218(2), 237-246. DOI 10.1007/s00221-012-3005-z
- Diersch, N., Cross, E.S., Stadler, W., Schütz-Bosbach, S., & **Rieger, M.** (2012). Representing others' actions: The role of expertise in the aging mind. *Psychological Research*, 76 (4), 525-541. DOI 10.1007/s00426-011-0404-x
- Rieger, M.** (2012). Motor imagery in typing: Effects of typing style and action familiarity. *Psychonomic Bulletin and Review*, 19, 101-107. DOI 10.3758/s13423-011-0178-6
- Walter, A., & **Rieger, M.** (2012). Target- and effect-directed actions towards temporal goals: Similar mechanisms? *Journal of Experimental Psychology: Human Perception and Performance*, 38(4), 958-974. DOI 10.1037/a0026792

b) Non-peer-reviewed publications

- Rieger, M.** & Wenke, D. (2016). Embodiment und Sense of Agency. In J. Müsseler & M. Rieger. *Allgemeine Psychologie*. Berlin, Heidelberg: Springer, Spektrum Akademischer Verlag. DOI 10.1007/978-3-642-53898-8_21
- Prinz, W., Müsseler, J. & **Rieger, M.** (2016). Einleitung - Psychologie als Wissenschaft. In J. Müsseler & M. Rieger. *Allgemeine Psychologie*. Berlin, Heidelberg: Springer, Spektrum Akademischer Verlag. DOI 10.1007/978-3-642-53898-8_1
- Massen, C. & **Rieger, M.** (2012). Cognitive and Motor Aspects of Human Tool Use. *Zeitschrift für Psychologie/Journal of Psychology*, 220(1), 1-2. DOI: 10.1027/2151-2604/a000083
- Rieger, M.** (2012). Internal Models and Body Schema in Tool Use. *Zeitschrift für Psychologie/Journal of Psychology*, 220(1), 50-52. DOI: <http://dx.doi.org/10.1027/2151-2604/a000091>

10 most important publications in the entire career

- Dahm, S.F. & **Rieger, M.** (2016). Is there symmetry in motor imagery? Exploring different versions of the mental chronometry paradigm. *Attention, Perception, & Psychophysics*, 78, 1794-1805.
- Rieger, M.**, Dahm, S.F. & Koch, I. (online first). Inhibition in motor imagery: a novel action mode switching. Paradigm. *Psychonomic Bulletin & Review*. DOI 10.3758/s13423-016-1095-5
- Rieger, M.**, & Massen, C. (2014). Tool characteristics in imagery of tool actions. *Psychological Research*, 78 (1), 10-17. DOI 10.1007/s00426-013-0481-0
- Rieger, M.** (2012). Motor imagery in typing: effects of typing style and action familiarity. *Psychonomic Bulletin and Review*, 19, 101-107. DOI 10.3758/s13423-011-0178-6
- Rieger, M.**, Martinez, F., & Wenke, D. (2011). Imagery of errors in typing. *Cognition*, 121, 163-175. DOI 10.1016/j.cognition.2011.07.005
- Drost, U.C., **Rieger, M.**, & Prinz, W. (2007). Instrument specificity in experienced musicians. *Quarterly Journal of Experimental Psychology*, 60, 527–533. DOI 10.1080/17470210601154388
- Rieger, M.** (2004). Automatic keypress activation in skilled typing. *Journal of Experimental Psychology: Human Perception and Performance*, 30(3), 555-565. DOI 10.1037/0096-1523.30.3.555.
- Rieger, M.**, Mayer, G., & Gauggel, S. (2003). Attention deficits in patients with narcolepsy. *Sleep*, 26(1), 36-43.
- Rieger, M.**, Gauggel, S., & Burmeister, K. (2003). Inhibition of ongoing responses following frontal, nonfrontal and basal ganglia lesions. *Neuropsychology*, 17(2), 272-282. DOI 10.1037/0894-4105.17.2.272
- Rieger, M.**, & Gauggel, S. (1999). Inhibitory aftereffects in the stop-signal paradigm. *British Journal of Psychology*, 90, 509-518. DOI 10.1348/000712699161585