

NORMAN FORSCHACK - CURRICULUM VITAE

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EDUCATION

2011 **Diplom (MSc equivalent)**, Psychology, University of Leipzig, Germany

2004 **Abitur** (A-Level equivalent)

RESEARCH EXPERIENCE

March 2018– **Research Associate**, *Department of Experimental Psychology and Methods, Prof. M.M. Müller, University of Leipzig, Germany*
· The role of alpha rhythm in sensory input control during selective attention

March 2018– **Guest Scientist**, *Department of Neurology, Prof. Arno Villringer, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*

January 2016– February 2018 **Research Associate**, *Department of Neurology, Prof. Arno Villringer, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*
· Doctoral Student, Project Supervision

January 2012– December 2015 **PhD Fellow**, *Graduate School 'Function of Attention in Cognition'*
· Doctoral Student

October 2011– Dezember 2011 **Research Associate**, *Department of Neurology, Prof. Arno Villringer, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*
· Doctoral Student

May 2011– Juli 2011 **Research Associate**, *Department of Experimental Psychology and Methods, Prof. M.M. Müller, University of Leipzig, Germany*

September 2008– November 2008 **Research Internship**, *Department of Developmental Psychology, Prof. Ute Kunzmann, University of Leipzig, Germany*

September 2007– March 2011 **Undergraduate Research Assistant**, *Department of Experimental Psychology and Methods, Prof. M.M. Müller, University of Leipzig, Germany*

REVIEWS

2014- Brain Research

TEACHING

- 2017 Procedural Learning. Seminar: General psychology I, University of Leipzig, Germany, January, 2018
- 2016 Object-based attention. Seminar: General psychology I, University of Leipzig, Germany, November 09, 2016
- 2015 Object-based attention. Seminar: General psychology I, University of Leipzig, Germany, November 11, 2016
- Introduction to scientific research approaches: Brain Computer Interfaces - The Hexa Speller. Lecture: Girls Day, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, April 23, 2015
- 2014 Object-based attention. Seminar: General psychology I, University of Leipzig, Germany, November 13, 2014
- 2013 Object-based attention. Seminar: General psychology I, University of Leipzig, Germany, November 13, 2013

LIST OF PUBLICATIONS

- 2018 Müller, M. M., Gundlach, C., **Forschack, N.** & Brummerloh, B. It takes two to tango: Suppression of task-irrelevant features requires (spatial) competition. *NeuroImage* 178, 485–492 (2018).
- 2017 **Forschack, N.**; Nierhaus, T.; Müller, M. M.; Villringer, A.: Alpha-band brain oscillations shape the processing of perceptible as well as imperceptible somatosensory stimuli during selective attention. *The Journal of Neuroscience* 37 (29), pp. 6983 - 6994 (2017)
- Forschack, N.**; Andersen, S. K.; Müller, M. M.: Global enhancement but local suppression in feature based attention. *Journal of Cognitive Neuroscience* 29 (4), pp. 619 - 627 (2017)
- 2015 Nierhaus, T.; **Forschack, N.**; Piper, S. K.; Holtze, S.; Krause, T.; Taskin, B.; Long, X.; Stelzer, J.; Margulies, D. S.; Steinbrink, J. et al.: Imperceptible somatosensory stimulation alters sensorimotor background rhythm and connectivity. *The Journal of Neuroscience* 35 (15), pp. 5917 - 5925 (2015)
- 2014 Bekhtereva, V.; Sander, C.; **Forschack, N.**; Olbrich, S.; Hegerl, U.; Müller, M. M.: Effects of EEG-vigilance regulation patterns on early perceptual processes in human visual cortex. *Clinical Neurophysiology* 125 (1), pp. 98 - 107 (2014)

TALKS

- 2018 **Forschack, N.:** Conscious and unconscious somatosensory perception and its modulation by attention. Talk presented at Psychologie und Gehirn. Gießen. 2018-05-30 - 2018-06-02.
- 2017 **Forschack, N.:** The role of rolandic alpha on somatosensation and its relation to attention. Department Colloquium , FU Berlin, Germany (2017)
- Grund, M.; **Forschack, N.;** Nierhaus, T.; Villringer, A.: Brain's functional network correlates of conscious somatosensory perception. 21st Annual Meeting of the Association for Scientific Study of Consciousness (ASSC 21), Beijing, China (2017)
- Forschack, N.:** Die Bedeutung rolandischer Alpha-Aktivität in der Somatosensorik und ihr Bezug zu Aufmerksamkeit. 61. Jahrestagung der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Leipzig, Germany (2017)
- 2015 **Forschack, N.:** The role of attention and alpha rhythm in shaping evoked somatosensory processing. Colloquium, Leipzig, Germany (2015)

POSTER

- 2018 Al, E.; Iliopoulos, F.; **Forschack, N.;** Nierhaus, T.; Grund, M.; Gaebler, M.; Motyka, P.; Nikulin, V.; Villringer, A.: Do somatosensory detection and localization vary across the cardiac cycle? 6th Mind, Brain, Body Symposium (MBBS 2018), Berlin, Germany (2018)
- Grund, M.; **Forschack, N.;** Nierhaus, T.; Villringer, A.: Functional network segregation with somatosensory awareness. 6th Mind, Brain, Body Symposium (MBBS 2018), Berlin, Germany (2018)
- 2017 Motyka, P.; Grund, M.; **Forschack, N.;** Villringer, A.; Gaebler, M.: Conscious somatosensory perception varies across the cardiac cycle. 21st Annual Meeting of the Association for Scientific Study of Consciousness (ASSC 21), Beijing, China (2017)
- Forschack, N.;** Nierhaus, T.; Müller, M. M.; Villringer, A.: The role of rolandic alpha in somatosensation and its relation to attention. 61. Jahrestagung der Deutschen Gesellschaft für Klinische Neurophysiologie und Funktionelle Bildgebung (DGKN), Leipzig, Germany (2017)
- Motyka, P.; Grund, M.; **Forschack, N.;** Villringer, A.; Gaebler, M.: Does conscious somatosensory perception vary across the cardiac cycle? 5th Mind, Brain & Body Symposium, Berlin, Germany (2017)
- 2016 Müller, M. M.; **Forschack, N.;** Andersen, S. K.: Global enhancement but local suppression in feature based attention. 50. Kongress der Deutschen Gesellschaft für Psychologie (DGPs), Leipzig, Germany (2016)
- Müller, M. M.; **Forschack, N.;** Andersen, S. K.: Global enhancement but local suppression in feature based attention. European Conference on Visual Perception (ECVP), Barcelona, Spain (2016)

- 2015 **Forschack, N.**; Nierhaus, T.; Müller, M. M.; Villringer, A.: Prestimulus oscillatory state differentially influences cerebral processing of attended versus unattended somatosensory stimuli. 45th Annual Meeting of the Society for Neuroscience (SfN 2015), Chicago, IL, USA (2015)
- 2014 Matushanskaya, A.; Mädebach, A.; **Forschack, N.**; Jescheniak, J. D.; Müller, M. M.: The time course of semantic interference from context pictures. 13th Leipzig Research Festival for Life Sciences, Leipzig, Germany (2014)
- Forschack, N.**; Nierhaus, T.; Müller, M. M.; Villringer, A.: Attention modulates cerebral responses to conscious and unconscious tactile events. 20th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Hamburg, Germany (2014)
- 2013 **Forschack, N.**; Nierhaus, T.; Müller, M. M.; Villringer, A.: Attention modulates cortical responses to subliminal somatosensory stimuli. ESF Intentional Inhibition Meeting 2013, London, United Kingdom (2013)
- 2012 Bekhtereva, V.; Sander, C.; **Forschack, N.**; Olbrich, S.; Hegerl, U.; Müller, M. M.: Effect of trait-vigilance on early visual processing areas during sustained visual attention. Psychologie und Gehirn 2012, Jena, Germany (2012)
- Forschack, N.**; Andersen, S. K.; Müller, M. M.: Global signal enhancement for attended but focused suppression for unattended stimuli in color selective attention. Psychologie und Gehirn 2012, Jena, Germany (2012)