

Curriculum Vitae

Iris Wiegand, PhD

Personal and Contact Information

Date/place of birth: May 26th, 1985, Werther, Germany
 Nationality: German
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Education

2013	Ph.D. in Systemic Neurosciences (summa cum laude, 1.0) <i>Graduate School of Systemic Neurosciences, LMU Munich</i>	Munich Germany
2009	Diploma in Psychology (1.0) <i>Saarland University</i>	Saarbrücken Germany

Work Experience

since 2020	Assistant Professor <i>Neuro- and Rehabilitation Psychology</i>	Nijmegen, Netherlands
2019 – 2020	Stand-in Professor <i>Neurocognitive Psychology, Department of Psychology, Bielefeld University</i>	Bielefeld Germany
2019	Visiting Researcher <i>Cambridge Cognition Ltd.</i>	Cambridge United Kingdom
2018 – 2019	Parental leave	
2017 – 2018	Marie Skłodowska-Curie Research Fellow <i>Visual Attention Lab, Brigham & Women's Hospital, Harvard University</i>	Cambridge United States
		Berlin

2016 – 2019	Postdoc/ Marie Skłodowska-Curie Research Fellow <i>Max-Planck UCL Centre for Computational Psychiatry and Ageing Research, Max-Planck Institute for Human Development</i>	Germany Copenhagen Denmark
2013 – 2016	Postdoc <i>Center for Visual Cognition, Department of Psychology, University of Copenhagen</i>	
2010 – 2013	PhD Candidate <i>General and Experimental Psychology, Department of Psychology, LMU Munich</i>	Munich Germany
2005 – 2009	Student Research Assistant <i>Cognitive Neuropsychology Unit, Clinical Neuropsychology Unit, and Brain and Cognition Unit, Department of Psychology, Saarland University</i>	Saarbrücken Germany
2008 – 2009	Intern <i>Schön Klinik Bad Aibling (Neurological Rehabilitation Clinic)</i>	Bad Aibling Germany
2007	Intern <i>Max-Planck-Institute for Human Cognitive & Brain Sciences</i>	Leipzig Germany

Grants and Awards

2017 – 2021	Individual Global Fellowship #702483 (239.861 €, Principal Investigator) <i>EU Horizon 2020 Marie Skłodowska-Curie Actions</i>	
2014 – 2016	MOBILEX Mobility Grant #1321-00039B (2.4 mio DKK; ca. 323.000 €, Principal Investigator) <i>Danish Research Council (DFF) & FP7 EU Marie Skłodowska-Curie COFUND Actions</i>	
2013	Dissertation Award “GNP-Förderpreis 2013“ <i>German Neuropsychological Society</i>	
2012	Student Publication Award <i>Graduate School of Systemic Neurosciences, LMU Munich</i>	
2010 – 2012	Full PhD Scholarship (24 months, 14.600 €) <i>Elite Network Bavaria</i>	

2009 Student stipend for outstanding Diploma Thesis project (6 months, 2.400 €)
Department of Psychology, Saarland University

Other Activities

Organization

Winterschool “EEG Data Analyses in Cognitive Science”

Lecturers: Prof. O. Jensen (Radboud University Nijmegen); Prof. B. Giesbrecht (UC Santa Barbara); Prof. M. De Vos (University of Oxford). 15th-19th December 2014, *University of Copenhagen*

Workshop “Brain oscillations and cognitive processes”

Lecturer: Prof. W. Klimesch (University of Salzburg). 18th – 20th October 2011, *LMU Munich*

Membership

Visions Science Society (since 2014)

European Society for Aging (since 2014)

Cognitive Neuroscience Society (2014-2015, 2017-2018)

Elite Network Bavaria (since 2010)

GSN Alumni Network Society (since 2013)

Marie Skłodowska-Curie Alumni Association (since 2015)

Representation

Founding member and coordinator (2017/2018) of the North America Chapter of the Marie Skłodowska-Curie Alumni Association

Ad-hoc Reviewer

Acta Psychologica, Advances in Cognitive Psychology, Brain & Cognition, Cortex, Developmental Science, eNeuro, Frontiers in Psychology (Cognitive Psychology, Cognitive Science), Investigative Ophthalmology & Visual Science, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: Memory & Learning, Journal of the International Neuropsychological Society, Neurobiology of Aging, NeuroImage, Neuropsychologia, PLOS One, Quarterly Journal of Experimental Psychology, Psychophysiology, Scandinavian Journal of Psychology, Scientific Reports

Editorial Board Member

Journal of Experimental Psychology: Human Perception and Performance (since 2018)

Frontiers in Psychology (since 2014)

Publications

Journal articles

1. **Wiegand, I.**, Seidel, C. & Wolfe, J.M. (2019). Hybrid foraging search in younger and older age. *Psychology & Aging*, 34(6), 805-820.
2. **Wiegand, I.**, & Wolfe, J.M. (2020). Age doesn't matter much: Hybrid visual and memory search is preserved in older age. *Aging, Neuropsychology, and Cognition*, 1-34.
3. **Wiegand, I.**, & Sander, M.C. (2019). Cue-related processing accounts for age differences in phasic alerting. *Neurobiology of Aging*, 79, 93-100.
4. **Wiegand, I.**, Lauritzen, M.J., Osler, M., Mortensen, E.L., Rostrup, E., Rask, L., Richard, N., Horwitz, A., Benedek, K. Vangkilde, S., & Petersen, A. (2018). EEG correlates of visual short-term memory in older age vary with adult lifespan cognitive development. *Neurobiology of Aging*, 62, 210-220.
5. **Wiegand, I.**, Napiorkowski, N., Töllner, T., Petersen, A., Habekost, T., Müller, H.J., & Finke, K. (2018). Event-related electroencephalographic lateralizations mark individual differences in spatial and nonspatial visual selection. *Journal of Cognitive Neuroscience*, 30, 482-497.
6. **Wiegand, I.**, Petersen, A., Bundesen, C., & Habekost, T. (2017). Phasic alerting increases visual attention in younger adults but not in older adults. *Visual Cognition*, 25, 343-357.
7. Brosnan, M., Demaria, G., Petersen, A., Dockree, P., Robertson, I.H., & **Wiegand, I.** (2017). Plasticity of the right-lateralised cognitive reserve network in ageing. *Cerebral Cortex*, 28, 1749-1759.
8. Brosnan, M., & **Wiegand, I.** (2017). The dorsolateral prefrontal cortex, a dynamic cortical area to enhance top-down attentional control. *Journal of Neuroscience*, 37(13), 3445-3446.
9. **Wiegand, I.**, Petersen, A., Finke, K., Lansner, J., Bundesen, C., & Habekost, T. (2017). Behavior and brain measures of phasic alerting effects on visual attention. *Frontiers in Human Neuroscience*, 11, 176.
10. Horwitz, A., Thomsen, M.D., **Wiegand, I.**, Horwitz, H., Klemp, M., Nikolic, M., Lauritzen, M.J., & Benedek, K. (2017). Visual steady state in relation to age and cognitive function. *PloS one*, 12(2), e0171859.
11. **Wiegand, I.**, Hennig-Fast, K., Kilian, B., Müller, H.J., Töllner, T., Möller, H.J., ... & Finke, K. (2016). EEG correlates of visual short-term memory as neuro-cognitive endophenotypes of ADHD. *Neuropsychologia*, 85, 91-99.

12. **Wiegand, I.**, Finke, K., Töllner, T., Starman, K., Müller, H.J., & Conci, M. (2015). Age-related decline in global form suppression. *Biological Psychology*, 112, 116-124.
13. Cross-Villasana, F., Finke, K., **Wiegand, I.**, Kilian, B., Henning-Fast, K., Müller, H.J., & Töllner, T. (2015). Visual and motor delays in visual search in adult attention-deficit-hyperactivity disorder. *Biological Psychiatry*, 78, 107-115.
14. **Wiegand, I.**, Töllner, T., Dyrholm, M., Müller, H.J., Bundesen, C., & Finke, K. (2014). Neural correlates of age-related decline and compensation in visual speed and short-term storage capacity. *Neurobiology of Aging*, 35, 2161-2173.
15. **Wiegand, I.**, Töllner, T., Habekost, T., Dyrholm, M., Müller, H.J., & Finke, K. (2014). Distinct neural markers of TVA-based visual processing speed and short-term storage capacity parameters. *Cerebral Cortex*, 24, 1967-1978.
16. **Wiegand, I.**, Finke, K., Müller, H.J., & Töllner, T. (2013). Event-related potentials dissociate perceptual from response-related age effects in visual search. *Neurobiology of Aging*, 34, 973-985.
17. **Wiegand, I.**, Bader, R., & Mecklinger, A. (2010). Multiple ways to the prior occurrence of an event: An electrophysiological dissociation of experimental and conceptually driven familiarity. *Brain Research*, 1360, 106-118.
18. **Wiegand, I.**, & Keller, I. (2009). EEG-Korrelate der Aufmerksamkeit bei Gesunden und Patienten mit Hirnschädigung. *Zeitschrift für Neuropsychologie*, 20, 4.

under review

19. **Wiegand, I.** Westenberg, E. & Wolfe, J. (submitted). Order please! Sequence Learning in Hybrid Search in Younger and Older Age.

Dissertation

20. **Wiegand, I.** (2013). Components of Aging: Neurophysiological markers of age-related changes in visual attention. Dissertation, LMU Munich: Graduate School of Systemic Neurosciences.

Educational

21. Brosnan, M., Dockree, P., Robertson, I.H., & **Wiegand, I.** (2018). Exercising the right side of the brain might help protect against Alzheimer's Disease. *Frontiers for Young Minds*. (*scientific articles for children*)

Conference Contributions

22. **Wiegand, I.** (March, 2020). EEG correlates of age-related decline in phasic alerting (Talk). In M. Haupt: Phasic alerting and temporal processing. Symposium conducted at the 62. Tagung experimentell arbeitender Psychologen (TEAP), Jena, Germany. (Meeting cancelled due to COVID-19)
23. Gil-Gómez de Liaño, B., **Wiegand, I.**, Wolfe, J. M. (2019, November). Your children and your parents are not optimal: Quitting rules in hybrid foraging over the lifespan. Psychonomic Society Meeting 2019.
24. **Wiegand, I.** (2019, May). Visual search in older age: Understanding cognitive decline (Talk). In: B. Gil-Gómez de Liaño: Visual search from youth to old age, from the lab to the real world. Vision Science Society Meeting (VSS) 2019, St Pete, Florida, USA.
25. Drew, T., Williams, L.H., Wolfe, J.M., & **Wiegand, I.** (2019, May). How do you know if you saw that? Electrophysiological correlates of searching through memory (Poster). Vision Science Society Meeting (VSS) 2019, St Pete, Florida, USA.
26. Westenberg, E., Wolfe, J.M., & **Wiegand, I.** (2019, May). Explicit sequence learning in hybrid search in younger and older age (Poster). Vision Science Society Meeting (VSS) 2019, St Pete, Florida, USA.
27. **Wiegand, I.**, & Wolfe, J.M. (2018, May). Hybrid visual and memory search is preserved in older age (Talk) In: **I. Wiegand** (Chair): Attention: Models, methods and multiple targets. Vision Science Society Meeting (VSS) 2018, St Pete, Florida, USA.
28. Westenberg, E., Wolfe, J.M., & **Wiegand, I.** (2018, May). Sequence learning in hybrid visual search (Poster). Vision Science Society Meeting (VSS) 2018, St Pete, Florida, USA.
29. Sander, M.C., & **Wiegand, I.** (2018, May). Cue-evoked alpha phase dynamics influence subsequent stimulus-processing in younger and older adults (Poster), Cognitive Aging Conference, Atlanta, Georgia, USA.
30. **Wiegand, I.**, Maier, P., Napiórkowski, N. Finke, K., Töllner, T., Müller, H.J., Lindenberger, U., Werkle-Bergner, M., & Sander, M.C. (2018, March). Hemispheric asymmetries in behavioral and EEG measures of visual short-term memory change with aging. Cognitive Neuroscience Society Meeting (CNS) 2018, Boston, Massachusetts, USA.
31. **Wiegand, I.**, & Wolfe, J.M. (2017, August). Hybrid visual and memory search in aging (Poster). European Conference on Visual Perception (ECP) 2017, Berlin, Germany.

32. **Wiegand, I.**, & Sander, M.C. (2017, August). Cue-evoked alpha phase dynamics influence subsequent stimulus-processing in younger and older adults (Poster). International Conference on Cognitive Neuroscience (ICON), 2017, Amsterdam, Netherlands.
33. **Wiegand, I.**, Petersen, A., Bundesen, C. & Habekost, T. (2017, May). Adult age differences in phasic alerting effects on components of attention (Poster). Vision Science Society Meeting (VSS) 2017, St. Pete, Florida, USA.
34. Napiórkowski, N., Töllner, T., Müller, H.J., **Wiegand, I.**, Petersen, A. & Finke, K. (2016, November). Electrophysiological markers of attentional selectivity. (Poster). Society for Neuroscience Meeting (SFN) 2016, San Francisco, California, USA.
35. **Wiegand, I.** (2016, July). Not dedifferentiation, but distinction in aging: reserve and decline in visual working memory and processing speed. (Talk) In: Zimmer, H. (Chair): When remembering is a challenge: visual working memory and aging. International Conference on Memory (ICOM), Budapest, Hungary.
36. **Wiegand, I.**, Petersen, A., Finke, K., Lansner, J., & Habekost, T. (2016, May). Auditory alerting enhances visual attentional processing: Evidence from computational modeling and event-related lateralizations (Poster). Vision Science Society Meeting (VSS) 2016, St. Pete, Florida, USA.
37. **Wiegand, I.**, Petersen, A., & Habekost, T. (2016, April). Event-related lateralizations index individual differences in spatial bias and top-down control of selective attention (Poster, accepted). Cognitive Neuroscience Society Meeting (CNS) 2016, New York, New York, USA.
38. Demaria, G., Brosnan, M., Petersen, A., Dockree, P., Robertson, I.H., & **Wiegand, I.** (2016, April). Investigating the Effects of Brain Stimulation on Visual Attention in Older Adults (Poster). Cognitive Neuroscience Society Meeting 2016, New York, New York, USA.
39. **Wiegand, I.**, Hennig-Fast, K., Kilian, B., Müller, H.J., Töllner, T., & Finke, K. (2015, May). EEG markers of reduced vSTM storage capacity in adult ADHD (Poster). Vision Science Society Meeting (VSS) 2015, St. Pete, Florida, USA.
40. Cooreman, B., **Wiegand, I.**, Petersen, A., Vangkilde, S., & Bundesen, C. (2015, May). Cue-it? We say: Block-it! (Poster). Vision Science Society Meeting (VSS) 2015, St. Pete, Florida, USA.
41. **Wiegand, I.**, Nielsen, C.S., Petersen, A., & Bundesen, C. (2014, May). Brain signatures of reward-dependent bias in visual attention (Poster). Vision Science Society Meeting (VSS) 2014, St. Pete, Florida, USA.

42. **Wiegand, I.**, Töllner, T., Finke, K., Müller, H.J., & Conci, M. (2014, May). Event-related potentials reveal increased distraction by salient global objects (Poster). 2nd International Conference of the European Society for Cognitive and Affective Neuroscience (ESCAN), Dortmund, Germany.
43. **Wiegand, I.**, Töllner, T., Müller, H. J., Bundesen, C. & Finke, K. (2014, March). Event-related potential indices of inter-individual and age differences in visual attention capacity. Poster auf der 'Closing Conference of the ZIF Research Group Competition and Control of Mind and Brain'. Zentrum für Interdisziplinäre Forschung, Bielefeld University, Bielefeld, Germany.
44. **Wiegand, I.** (2013, August). Neural markers of individual and age differences in TVA attention capacity parameters (Poster). European Conference on Visual Perception (EVP) 2013, Bremen, Germany.
45. **Wiegand, I.**, Töllner, T., Müller, H. J., & Finke, K (2013, March). Neural markers of age-related reserve and decline in visual processing speed and visual short-term memory capacity (Talk). In I. Scharlau & K. Finke (Chair). The Theory of Visual Attention in behavioral and clinical research. Symposium at the 55. Tagung experimentell arbeitender Psychologen (TEAP), Vienna, Austria.
46. **Wiegand, I.**, Töllner, T., Müller, H. J., & Finke, K (2012, July). ERPs dissociate TVA parameters of visual perceptual processing speed and vSTM capacity (Poster). Visual Search and Selective Attention Symposium (VSSA), Holzhausen, Germany.
47. **Wiegand, I.**, Finke, K. Müller, H. J., & Töllner, T., (2012, April). Adult age differences in visual search from perception to response (Talk). In: K. Finke & I. Wiegand (Chair). Adult age differences in visual cognition. Symposium conducted at the 54. Tagung experimentell arbeitender Psychologen (TEAP), Mannheim, Germany.
48. **Wiegand, I.**, Töllner, T., Müller, H. J., & Finke, K. (2011, September). Event-related potentials differentiate perceptual and short-term memory related TVA parameters (Poster). International Conference on Cognitive Neuroscience 2011 (ICON), Palma, Mallorca, Spain.
49. **Wiegand, I.**, Finke, K. Müller, H. J., & Töllner, T., (2011, March). Altersbedingte Verlangsamung in Visueller Suche: Eine neuro-chronometrische Analyse (Poster). 53. Tagung experimentell arbeitender Psychologen (TEAP), Halle, Germany.
50. **Wiegand, I.**, & Keller, I. (2011, February). EEG-Correlates of attention in brain-injured patients and healthy controls (Poster). 15th Annual Meeting of the Biofeedback Foundation of Europe (BFE), Munich, Germany.