

SOPHIE A. NOLDEN
CURRICULUM VITAE

January 2022

CONTACT INFORMATION

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EDUCATION AND DEGREES

- 2011-2014 University of Montreal, Montreal, Quebec, Canada
PhD in Psychology
Thesis title: *Activité cérébrale reliée à la rétention des sons en mémoire à court-terme auditive (Brain activity related to the retention of tones in auditory short-term memory)*
- 2006-2011 University of Würzburg, Würzburg, Germany
Diplom (~M.Sc.) in Psychology
Thesis title: *Moving or being moved - How active behaviour alters time perception*

RESEARCH INTERESTS

- Brain activity related to mnemonic mechanisms over the lifespan
- Attention and working memory
- Cognitive control and aging

PROFESSIONAL EXPERIENCE

- Since 04/2018 Postdoctoral research fellow, Developmental Psychology at Goethe-University Frankfurt am Main, Germany
- 2014-2018 Postdoctoral research fellow, Cognitive and Experimental Psychology at RWTH Aachen University, Germany
- 2011-2014 PhD student, Cognitive Neurosciences at University of Montreal, Canada

RESEARCH FUNDING

- 2019 Principal investigator, project “Dynamics of auditory and visual memory representations in the aging brain”, Focus A/B, 7,650 €
- 2018 Principal investigator, (co-PI: Prof. Dr.-Ing. Janina Fels, Medical Acoustics, RWTH Aachen University), project “Selektive auditive Aufmerksamkeit bei Kindern im Vor- und Grundschulalter – Entwicklung eines kindgerechten Aufmerksamkeitsparadigmas,” Open Seed grant, Exploratory Research Space (ERS), 73,264 €
- 2015 Principal investigator, project “Denoising the brain’s amp: Brain activity related to auditory attention,” RWTH Start-Up grant, 17,405 €

LIST OF PUBLICATIONS

- Nolden, S., & Koch, I. (in press). The role of response set overlap for flexibility and cognitive control in auditory multitasking. *Acta Psychologica*, 233.
- Loh, K., Fintor, E., Nolden, S.*, & Fels, J.* (in press). Children’s intentional switching of auditory selective attention in spatial and noisy acoustic environments in comparison to adults. *Developmental Psychology*. * Shared senior authorship
- Nolden, S.*, Brod, G.*, Meyer, A.-K., Fandakova, Y., & Shing, Y. L. (2021). Neural correlates of successful memory encoding in kindergarten and early elementary school children: Longitudinal trends and effects of schooling. *Cerebral Cortex*, 31, 3764-3779. *Equal contribution
- Eben, C., Koch, I., Jolicoeur, P., & Nolden, S. (2020). The persisting influence of unattended auditory information: Negative priming in intentional auditory attention switching. *Attention, Perception, & Psychophysics*, 82, 1835-1846.
- Seibold, J. C., Koch, I., Nolden, S., Proctor, R. W., Vu, K.-P. L., & Schuch, S. (2019). Response repetitions in auditory task switching: The influence of spatial response distance and of the response-stimulus interval. *Acta Psychologica*, 199, 102875.
- Seibold, J. C., Nolden, S., Oberem, J., Fels, J., & Koch, I. (2019). The binding of an auditory attention location to a judgement: A two-component switching approach. *The Quarterly Journal of Experimental Psychology*, 72, 2056-2067.
- Nolden, S., Ibrahim, C., & Koch, I. (2019). Cognitive control in the cocktail party: Preparing selective attention to dichotically presented voices supports distractor suppression. *Attention, Perception, & Psychophysics*, 81, 727-737.
- Seibold, J. C., Nolden, S., Oberem, J., Fels, J., & Koch, I. (2018). Auditory attention switching and judgement switching – Exploring multi-component task representations. *Attention, Perception, and Psychophysics*, 80, 1823-1832.
- Hirsch, P., Nolden, S., Declerck, M., & Koch, I. (2018). Common cognitive control processes underlying performance in task-switching and dual-task contexts. *Advances in Cognitive Psychology*, 14, 62-74.
- Hirsch, P., Nolden, S., Philipp, A. M., & Koch, I. (2018). Hierarchical task organization in dual tasks: Further evidence for higher-level task representations. *Psychological Research*, 82, 759-770.

- Seibold, J. C., Nolden, S., Oberem, J., Fels, J., & Koch, I. (2018). Intentional preparation of auditory attention-switches: Explicit cueing and sequential switch-predictability. *The Quarterly Journal of Experimental Psychology*, *71*, 1382-1395.
- Nolden, S., Rigoulot, S., Jolicoeur, P., & Armony, J. (2017). Effects of musical expertise on oscillatory brain activity in response to emotional sounds. *Neuropsychologia*, *103*, 96-105.
- Nolden, S., & Koch, I. (2017). Intentional switching of auditory attention between long and short sequential tone patterns. *Attention, Perception, & Psychophysics*, *79*, 1132-1146.
- Hirsch, P., Nolden, S., & Koch, I. (2017). Higher-order cognitive control in dual tasks: Evidence from task-pair switching. *Journal of Experimental Psychology: Human Perception and Performance*, *43*, 567-580.
- Nolden, S. (2015). Brain activity related to the retention of tones in auditory short-term-memory. In: P. Jolicoeur, C. Lefebvre, & J. Martinez-Trujillo (Eds.), *Mechanisms of Sensory Working Memory. Attention and Performance XXV* (pp. 201-2014). London, UK: Academic Press.
- Janczyk, M., Nolden, S., & Jolicoeur, P. (2015). No differences in dual-task costs between forced- and free-choice tasks. *Psychological Research*, *79*, 463-477.
- Alunni-Menichini, K., Guimond, S., Bermudez, P., Nolden, S., Lefebvre, C., & Jolicoeur, P. (2014). Saturation of auditory short-term memory causes a plateau in the sustained anterior negativity potential. *Brain Research*, *1592*, 55-64.
- Grimault, S., Nolden, S., Lefebvre, C., Vachon, F., Hyde, K., Peretz, I., & Zatorre, R., Robitaille, N., & Jolicoeur, P. (2014). Brain activity is related to individual differences in the number of items stored in auditory short-term memory for pitch: evidence from magnetoencephalography. *NeuroImage*, *94*, 96-106.
- Nolden, S., Bermudez, P., Alunni-Menichini, K., Lefebvre, C., Grimault, S., & Jolicoeur, P. (2013). Electrophysiological correlates of the retention of tones differing in timbre in auditory short-term memory. *Neuropsychologia*, *51*, 2740-2746.
- Nolden, S., Grimault, S., Guimond, S., Lefebvre, C., Bermudez, P., & Jolicoeur, P. (2013). The retention of simultaneous tones in auditory short-term memory: a magnetoencephalography study. *NeuroImage*, *82*, 384-392.
- Nolden, S., Haering, C., Kiesel, A. (2012). Assessing intentional binding with the method of constant stimuli. *Consciousness and Cognition*, *21*, 1176-1185.
- Guimond, S., Vachon, F., Nolden, S., Lefebvre, C., Grimault, S., & Jolicoeur, P. (2011). Electrophysiological correlates of the maintenance of the representation of pitch objects in acoustic short-term memory. *Psychophysiology*, *48*, 1500-1509.