

SOPHIE A. NOLDEN CURRICULUM VITAE

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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 Researcher, Developmental Psychology at Goethe-University Frankfurt am Main, Germany
- 2014-2018 Researcher, Cognitive and Experimental Psychology at RWTH Aachen University, Germany
- 2011-2014 PhD student, Cognitive Neurosciences at University of Montreal, Canada

LIST OF PUBLICATIONS

- Nolden, S., Turan, G., Güler, B., & Günseli, E. (2024). Prediction error and event segmentation in episodic memory. *Neuroscience & Biobehavioral Reviews*, *157*, 105533. <https://doi.org/10.1016/j.neubiorev.2024.105533>.

- Nolden, S., & Koch, I. (2023). Preparing auditory task switching in a task with overlapping and non-overlapping response sets. *Psychological Research*, 87, 2228–2237. <https://doi.org/10.1007/s00426-023-01796-x>
- Ortiz-Tudela, J., Nolden, S., Pupillo, F., Ehrlich, I., Schommartz, I., Turan, G., & Shing, Y. L. (in press). Not what U expect: Effects of Prediction Errors on Item Memory. *Journal of Experimental Psychology: General*, 152, 2160–2176. <https://doi.org/10.1037/xge0001367>
- Paul, K., Angus, D. J., Bublatzky, F., Dietrich, R., Endrass, T., Greenwood, L.-M., Hajcak, G., Jack, B. N., Korinth, S. P., Kroczeck, L. O. H., Lucero, B., Mundorf, A., Nolden, S., Peterburs, J., Pfabigan, D. M., Schettino, A., Shing, Y. L., Turan, G., van der Molen, M. J. W., Wieser, M. J., Willscheid, N., Mushtaq, F., Pavlov, Y. G., & Pourtois, G. (Registered report, Stage 1 accepted). Revisiting the electrophysiological correlates of valence and expectancy in reward processing – A Multi-lab replication. *Cortex*.
- Nolden, S., & Koch, I. (2022). The role of response set overlap for flexibility and cognitive control in auditory multitasking. *Acta Psychologica*, 233, 103499. <https://doi.org/10.1016/j.actpsy.2022.103499>
- Loh, K., Fintor, E., Nolden, S.* & Fels, J.* (2022). Children's intentional switching of auditory selective attention in spatial and noisy acoustic environments in comparison to adults. *Developmental Psychology*, 58, 69–82. <https://doi.org/10.1037/dev0001239> * 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. <https://doi.org/10.1093/cercor/bhab046> *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. <https://doi.org/10.3758/s13414-019-01909-y>
- 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. <https://doi.org/10.1016/j.actpsy.2019.102875>
- 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. <https://doi.org/10.1177/1747021819829422>
- 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. <https://doi.org/10.3758/s13414-018-1620-x>
- 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. <https://doi.org/10.3758/s13414-018-1557-0>
- 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. <https://doi.org/10.5709/acp-0239-y>
- 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. <https://doi.org/10.1007/s00426-017-0851-0>
- Seibold, J. C., Nolden, S., Oberem, J., Fels, J., & Koch, I. (2018). Intentional Preparation of Auditory Attention-Switches: Explicit Cueing and Sequential Switch-Predictability. *Quarterly*

Journal of Experimental Psychology, 71, 1382–1395.

<https://doi.org/10.1080/17470218.2017.1344867>

- 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. <https://doi.org/10.1016/j.neuropsychologia.2017.07.014>
- Nolden, S., & Koch, I. (2017). Intentional switching of auditory attention between long and short sequential tone patterns. *Attention, Perception & Psychophysics*, 79, 1132–1146. <https://doi.org/10.3758/s13414-017-1298-5>
- 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. <https://doi.org/10.1037/xhp0000309>
- 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. 201–214). 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. <https://doi.org/10.1007/s00426-014-0580-6>
- 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. <https://doi.org/10.1016/j.brainres.2014.09.047>
- 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. <https://doi.org/10.1016/j.neuroimage.2014.03.020>
- 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. <https://doi.org/10.1016/j.neuropsychologia.2013.09.010>
- 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. <https://doi.org/10.1016/j.neuroimage.2013.06.002>
- Nolden, S., Haering, C., Kiesel, A. (2012). Assessing intentional binding with the method of constant stimuli. *Consciousness and Cognition*, 21, 1176–1185. <https://doi.org/10.1016/j.concog.2012.05.003>
- 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. <https://doi.org/10.1111/j.1469-8986.2011.01234.x>