

Academic Curriculum Vitae and Publication List

Dr.rer.nat Sarah Schuster

Date of birth: 29/01/1990

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Main areas of research

Neural correlates of visual word recognition and eye movement control during reading

Education

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| 2013-2018 | Study of Psychology – Doctoral programme at the University of Salzburg |
| 2011-2013 | Study of Psychology – Master programme at the University of Salzburg |
| 2008-2011 | Study of Psychology – Bachelor programme at the University of Salzburg |
| 2000-2008 | Secondary school, Bundesgymnasium Vöcklabruck |

Professional experience

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| since 2018 | Senior Scientist at the Centre for Cognitive Neuroscience, University of Salzburg under the supervision of Univ.-Prof. Florian Hutzler |
| 2016 | 3 month research stay at the D.I.N.E laboratory at the Freie Universität Berlin under the supervision of Univ.-Prof. Dr. Arthur Jacobs |
| 2013-2018 | PhD student at the Centre for Cognitive Neuroscience, University of Salzburg under the supervision of Univ.-Prof. Florian Hutzler |
| 2011-2013 | Research assistant at the University of Salzburg in the Department of Psychology |
| 2011-2012 | Student assistant in the project “ <i>Item-development for the evaluation of the education standards for the 4th and 8th Grade</i> ” at the Bundesinstitut für Bildungsforschung, Innovation und Entwicklung des österreichischen Schulsystems under the supervision of Univ.-Prof. Dr. Karin Landerl |

Awards

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| 2016 | Scholarship of the G.-A.-Lienert foundation for supporting young investigators in bio-psychological methods |
| 2014 | Marie-Andeßner-Award for Diploma or Master Theses in the Natural Sciences |

Talks

- Schuster, S. (2013, April). The lexicality effect in the left ventral occipito-temporal cortex: Evidence from fixation-related fMRI. Presentation at the 11th meeting of the Österreichische Gesellschaft für Psychologie (ÖGP), Vienna, Austria.
- Schuster, S. (2015, August). Words in context: The effects of word length, frequency and predictability on brain responses during natural reading. Presentation at the 18th European Conference on Eye Movements (ECEM), Vienna, Austria.
- Schuster, S. (2016, September). Words in context: The effects of word length, frequency and predictability on brain responses during natural reading. Presentation at the annual meeting of the British Association for Neuroscience (BACN), Budapest, Hungary.
- Schuster, S. (2017, August). The effects of cloze probability and semantic congruency on brain responses during natural reading: A fixation-related fMRI study. Presentation at the 19th European Conference on Eye Movements (ECEM), Wuppertal, Germany.
- Schuster, S. (2018, July). How sentence comprehension guides eye movement control. Presentation at the Society for Text & Discourse (ST&D), Brighton, United Kingdom.

Technical skills

Data acquisition: Eye-tracking, fMRI (as well as combined Eye-Tracking and fMRI) and EEG

Programming: SPM (advanced), R (advanced), Matlab (intermediate), and Python (intermediate)

Miscellaneous

- 2018/2019 Participation in the local organizing committee of the 2nd & 3rd Salzburg Mind-Brain Annual Meeting (SAMBA)

Publications

- Hawelka, S., **Schuster, S.**, Gagl, B., & Hutzler, F. (2013). Beyond single syllables. The effect of first syllable frequency and orthographic similarity on eye movements during silent reading. *Language and Cognitive Processes*, 28(8), 1134-1153.
- Richlan F., Gagl B., **Schuster, S.**, Hawelka, S., Humenberger, J., & Hutzler, F. (2013). A new high speed visual stimulation method for gaze-contingent eye movement and brain activity studies. *Frontiers in Systems Neuroscience*, 7:24.
- Hutzler, F., Fuchs, I., Gagl, B., **Schuster, S.**, Richlan, F., Braun, M., & Hawelka, S. (2013). Parafoveal X-masks interfere with foveal word recognition: Evidence from fixation-related brain potentials. *Frontiers in Systems Neuroscience*, 7:33.
- Gagl, B., Hawelka, S., Richlan, F., **Schuster, S.**, & Hutzler, F. (2014). Parafoveal preprocessing in reading revisited: Evidence from a novel preview manipulation. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 40(2), 588-595.
- Marx, C., Hawelka, S., **Schuster, S.**, & Hutzler, F. (2015). An incremental boundary study on parafoveal preprocessing in children reading aloud: Parafoveal masks overestimate the preview benefit, *Journal of Cognitive Psychology*, 27(5), 549-561.
- Hawelka, S., **Schuster, S.**, Gagl, B., & Hutzler, F. (2015). On forward inferences of fast and slow readers. An eye movement study, *Scientific Reports*, 5:8432
- Schuster, S.**, Hawelka, S., Richlan, F., Ludersdorfer, P., & Hutzler, F. (2015). Eyes on words: A fixation-related fMRI study of the left occipito-temporal cortex during self-paced silent reading of words and pseudowords, *Scientific Reports*, 5:12686.
- Schuster, S.**, Hawelka, S., Hutzler, F., Kronbichler, M., & Richlan, F. (2016). Words in context: The effects of length, frequency and predictability on brain responses during natural reading. *Cerebral Cortex*, 26(10), 3889-3904.
- Marx, C., Hutzler, F., **Schuster, S.**, & Hawelka, S. (2016). On the development of parafoveal preprocessing: Evidence from the incremental boundary paradigm. *Frontiers in Psychology*, 7:514.
- Marx, C., Hawelka, S., **Schuster, S.**, Hutzler, F. (2017). Foveal processing difficulty does not affect parafoveal preprocessing in young readers. *Scientific Reports*, 7:41602.
- Jacobs, A.M., **Schuster, S.**, Xue, S., & Lüdtke J. (2017). What's in the brain that ink may character ... A quantitative narrative analysis of Shakespeare's 154 sonnets for use in (Neuro-)cognitive poetics. *Scientific Study of Literature*, 7(1), 4-51.
- Himmelstoß, N.A., **Schuster, S.**, Hutzler, F., & Hawelka, S. (2019). Co-registration of eye movements and neuroimaging for studying the “what”, “when” and “how” of visual word recognition in natural reading. *Language, Cognition and Neuroscience*, DOI:10.1080/23273798.2019.1616102

- Schuster, S.**, Hawelka, S., Himmelstoss, N.A., Richlan, F., & Hutzler, F. (2019). The neural correlates of word position and lexical predictability during sentence reading: Evidence from fixation-related fMRI. *Language, Cognition and Neuroscience*, DOI: 10.1080/23273798.2019.1575970.
- Hutzler, F., **Schuster, S.**, Marx, C., Hawelka, S. (2019). An investigation of parafoveal masks with the incremental boundary paradigm. *PLoS ONE*, 14, e0203013.
- Schuster, S.**, Himmelstoß, N.A., Hutzler, F., Richlan, F., Kronbichler, M., & Hawelka, S. (under revision). Cloze enough? Haemodynamic effects of predictive processing during natural reading.

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