

C U R R I C U L U M V I T A E

KATRIEN SEGAERT
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POSITIONS

- 2015-present* Lecturer in Psychology
School of Psychology, University of Birmingham, United Kingdom
- 2012-2014* Staff Researcher
Max Planck Institute for Psycholinguistics, the Netherlands

EDUCATION

- 2018* Postgraduate Certificate in Higher Education (PGCHE) with distinction
- 2012* PhD dissertation "Structuring language: Contributions to the neurocognition of syntax". PhD in Social Sciences, Radboud University Nijmegen, the Netherlands
- 2008* Master Psychology, Magna Cum Laude
Faculty of Psychology and Educational Sciences, University of Leuven, Belgium
- 2005* Bachelor Psychology, Cum Laude
Faculty of Psychology and Educational Sciences, University of Leuven, Belgium

AWARDS AND RESEARCH GRANTS

- 11.2018-11.2021* Award received from Economic and Social Research Council (ESRC) for research on "The effects of individual differences in bilingual experience on cognitive control networks" (£437,050) (As co-investigator)
- 07.2018-08.2018* Funding received from University of Birmingham Liberal Arts & Natural Sciences program for research on "Relating physical fitness to language decline in ageing" (£2,624) (As principal investigator)
- 11.2017-04.2018* University of Agder research project development grant (35,000 NOK) (As co-investigator)
- 09.2016-09.2019* Award received from Economic and Social Research Council Doctoral Training Centre (ESRC DTC) for named PhD studentship (Sophie M Hardy) on "Investigating changes in syntactic processing across the lifespan" (£50,000) (As main supervisor)
- 03.2016-09.2016* The Wellcome Trust, ISSF (Institutional Strategic Support Fund) Independent Research Award for research on "Language and speaking skill in the elderly and the ameliorating effects of physical fitness" (£16,719) (As principal investigator)
- 04.2015-09.2015* The Wellcome Trust, ISSF (Institutional Strategic Support Fund) Pump-priming Award for research on "Uncovering the neurobiological infrastructure of syntactic language comprehension using a multi-modal simultaneous EEG-fMRI imaging approach" (£10,371) (As principal investigator)

RECENT MEDIA COVERAGE (selected list of examples):

On Segart et al. 2018 in Scientific Reports:

New York Times: <https://www.nytimes.com/2018/05/15/magazine/exercise-language-muscle-memory-word-recall-aging-fitness.html> - The Conversation: <https://theconversation.com/tip-of-the-tongue-moments-less-likely-in-fitter-older-people-95686> - The Telegraph: <https://www.telegraph.co.uk/science/2018/04/30/exercise-old-age-helps-words-past-tip-tongue-scientists-say/> - WebMD: <https://www.webmd.com/healthy-aging/news/20180430/whats-that-word-fitness-helps-seniors-find-it#1> - MexicalXpress: <https://medicalxpress.com/news/2018-04-higher-aerobic-word-production-skills.html> - ScienceDaily: <https://www.sciencedaily.com/releases/2018/04/180430075622.htm>

Reuters: <https://uk.reuters.com/article/us-health-aging-speaking/physical-fitness-linked-to-language-skills-in-older-adults-idUKKBN1I24AF> - Daily Mail: <http://www.dailymail.co.uk/health/article-5682607/Fitter-older-people-likely-forget-words-study-finds.html> Etc.

On Segaert et al. 2018 in NeuroImage Clinical:

The Independent: <https://www.independent.co.uk/news/reading-test-alzheimers-disease-predict-chance-scientists-university-of-birmingham-a8015781.html> - Science Daily: <https://www.sciencedaily.com/releases/2017/10/171020092223.htm> – Gulf Times: <http://www.gulf-times.com/story/568343/Study-on-identifying-patients-likely-to-develop-Al> - New Zealand Herald: https://www.nzherald.co.nz/health-wellbeing/news/article.cfm?c_id=1501238&objectid=11935515 – MedicalXpress: <https://medicalxpress.com/news/2017-10-word-patients-potential-alzheimer-disease.html> - Etc.

INSTITUTIONAL RESPONSIBILITIES

- 2017-present* University of Birmingham Lead for the Language, interaction and social cognition Research Theme (uniting 12 lecturers and professors, plus all their students), University of Birmingham, UK
- 2017-present* Member of the Science, Technology, Engineering and Mathematics (STEM) Ethical Review Committee for the University of Birmingham, UK
- 2012-2015* Initiator and coordinator of an interactive public engagement website with Questions and Answers about language, available on Max Planck Institute for Psycholinguistics (Netherlands) website (www.mpi.nl)

ACADEMIC SERVICE

Peer review for journals:

Journals: Brain and Language, Frontiers in Language Sciences, Neuropsychologia, Cognition, Cerebral Cortex, PNAS, Cognitive Neuroscience, Neuroimage, PLoS One, Journal of Memory and Language, European Journal of Neuroscience, Journal of Experimental Psychology: Learning, Memory, and Cognition, Language, Language Learning, Discourse Processes, Lingua

Peer review for conferences:

Society for Neurobiology of Language, Organization for Human Brain Mapping, AMLAP

PhD external examiner:

Dr. M. Kos (Radboud University) and Dr. A. Veenstra (Max Planck Institute)

Research grants reviewed for:

Neurological Foundation of New Zealand, US National Science Foundation

SUPERVISION OF GRADUATE STUDENTS

- 2017* Supervision to successful PhD completion of Dr. L. Schoot (20.02.2017), Radboud University, Netherlands (main supervisor)
- Supervision to successful PhD completion of Dr. E. Heyselaar (02.06.2017), Radboud University, Netherlands (main supervisor)
- Supervision to successful PhD completion of Dr. A. Belavina Kuerten (27.06.2017), Universidade Federal de Santa Catarina, Brazil (co-supervisor)
- ongoing* Supervision of four PhD students at the University of Birmingham (as main supervisor: K. Shaw, C. Poulisse, S. Hardy; as co-supervisor: K. Suen)
- 2010-present* Supervision of numerous MA and Msc students

TEACHING ACTIVITIES

- 2018* Teaching qualifications obtained: Postgraduate Certificate in Higher Education (PGCHE) - University of Birmingham, UK
- 2016-present* Psychology Bsc: Memory and Language, Cognitive Psychology (full lecture series,

University of Birmingham, UK)
2013 Cognitive Neuroscience Msc: Neurobiology and evolution of language (guest lectures, Radboud University, Netherlands)
2010-2013 Linguistics MA: Neurolinguistics (guest lectures, Radboud University, Netherlands)

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2012-present Member of the Society for Neurobiology of Language

PUBLICATIONS – see also: *katriensegaert.com*

Total number of peer-reviewed publications: 22

- Segaert, K.** (2019) Priming Effects. In: Zeigler-Hill V., Shackelford T. (eds) Encyclopedia of Personality and Individual Differences. Springer, Cham. doi.org/10.1007/978-3-319-28099-8_479-1
- Heyselaar, E. & **Segaert, K.** (in press) Memory encoding of syntactic information involves domain-general attentional resources. Evidence from dual-task studies. Quarterly Journal of Experimental Psychology
- Segaert, K.**, Lucas, S.J.E., Burley, C.V., Segaert, P., Milner, A.E., Ryan, M., Wheeldon, L. (2018) Higher physical fitness levels are associated with less language decline in healthy ageing. Scientific Reports. doi: 10.1038/s41598-018-24972-1
- Segaert, K.**, Mazaheri, A., & Hagoort, P. (2018). Binding language: Structuring sentences through precisely timed oscillatory mechanisms. European Journal of Neuroscience, 1-12. doi:10.1111/ejn.13816.
- Heyselaar, E., Mazaheri, A., Hagoort, P. & **Segaert, K.** (2018) Changes in alpha activity reveal that social opinion modulates attention allocation during face processing. NeuroImage, 174, 432-440. doi: 10.1016/j.neuroimage.2018.03.034.
- Nieuwland M., Politzer-Ahles S., Heyselaar, E., **Segaert, K.**, Darley, E., Kazanina, N., Von Grebmer Zu Wolfsturn, S., Bartolozzi, F., Kogan, V., Ito, A., Mézière, D., Barr, D.J., Rousselet, G., Ferguson, H.J., Busch-Moreno, S., Fu, X., Tuomainen, J., Kulakova, E., Husband, E.M., Donaldson, D.L., Kohút, Z., Rueschemeyer, S.-A., Huettig, F. (2018) Large-scale replication study reveals a limit on probabilistic prediction in language comprehension. eLife 2018;7:e33468. doi: https://doi.org/10.7554/eLife.33468
- Segaert, K.***, Mazaheri, A.*, Olichney, J., Niu, J.-Q., Yang, J.-C., Shapiro, K., Bowman, H. (2018) EEG oscillations during word processing predict MCI conversion to Alzheimer's disease. NeuroImage Clinical, 17, 188-197. https://doi.org/10.1016/j.nicl.2017.10.009 *Shared first authorship
- Heyselaar, E., **Segaert, K.**, S. Walvoort, R. P. C. Kessels, Hagoort, P. (2017) The role of procedural memory in the skill for language: Evidence from syntactic priming in patients with amnesia. Neuropsychologia, 101, 97-105.
- Heyselaar, E., Hagoort, P., & **Segaert, K.** (2017) How social opinion influences syntactic processing - an investigation using Virtual Reality. PLoS One, 12(4): e0174405.
- Segaert, K.**, Wheeldon, L. & Hagoort, P. (2016) Unifying structural priming effects on syntactic choices and timing of sentence generation. Journal of Memory and Language, 91, 59-80.
- Schoot, L., Hagoort, P., **Segaert K.** (2016) What can we learn from a two-brain approach to verbal interaction? Neuroscience and Biobehavioral Reviews, 68, 454-459.
- Schoot, L., Heyselaar, E., Hagoort, P., & **Segaert, K.** (2016) Does syntactic alignment effectively influence how speakers are perceived by their conversation partner? PLoS One, 11(4): e015352.
- Segaert, K.** & Hagoort, P. (book chapter accepted for publication) Syntactic priming experiments reveal the influence of contextual and interactional information on syntactic processing. New ways of analyzing syntactic variation. Grondelaers, S. & van Hout, R. (editors). Publisher De Gruyter Mouton.
- Segaert, K.**, Cladder-Micus, M., Weber, K. & Hagoort, P. (2014) The influence of verb-bound syntactic preferences on the processing of syntactic structures. Journal of Experimental Psychology: Learning, Memory, and Cognition, 40(5), 1448-460
- Schoot, L., Menenti, L., Hagoort, P., **Segaert, K.** (2014) A little more conversation - The influence of communicative context on syntactic priming in brain and behavior. Frontiers in Psychology, 5: 208.

- Segaert, K.**, Kempen, G., Petersson, K. M., & Hagoort, P. (2013). Syntactic priming and the lexical boost effect during sentence production and sentence comprehension: An fMRI study. *Brain and Language*, 124, 174-183.
- Segaert, K.***, Weber, K.*, De Lange, F., Petersson, K.M. & Hagoort, P. (2013). The suppression of repetition enhancement: A review of fMRI studies. *Neuropsychologia*, 51, 59-66. **equal contribution*
- Segaert, K.**, Menenti, L., Weber, K., Petersson, K. M., & Hagoort, P. (2012). Shared syntax in language production and language comprehension — An fMRI study. *Cerebral Cortex*, 22, 1662-1670.
- Menenti, L., **Segaert, K.**, & Hagoort, P. (2012). The neuronal infrastructure of speaking. *Brain and Language*, 122, 71-80.
- Segaert, K.**, Menenti, L., Weber, K., & Hagoort, P. (2011). A paradox of syntactic priming: Why response tendencies show priming for passives, and response latencies show priming for actives. *PLoS One*, 6(10), e24209.
- Menenti, L., Gierhan, S. M. E., **Segaert, K.**, & Hagoort, P. (2011). Shared language: Overlap and segregation of the neuronal infrastructure for speaking and listening revealed by functional MRI. *Psychological Science*, 22, 1173-1182.
- Segaert K.**, Nygard G., Wagemans, J. (2009) Identification of everyday objects on the basis of kinetic contours. *Vision Research*, 49, 417-428.

INVITED PRESENTATIONS

– for more talks and presentations see katriensegaert.com

- Segaert, K. (2017) [Invited speaker] Senior moments? Physical fitness ameliorates age-related decline in language abilities. Invited presentation at the Rotman Research Institute at Baycrest, Toronto, Canada.
- Segaert, K. (2017) [Invited speaker] Senior moments? Physical fitness ameliorates age-related decline in language abilities. Invited presentation at the Brain Sciences Rounds of the Sunnybrook Research Institute, Toronto, Canada.
- Segaert, K. (2016) [Invited speaker] Syntactic Priming Effects as measured in Syntactic Choices and the Timing of Sentence Generation. Presentation at a workshop on Language across the lifespan. Florianopolis, Brazil.
- Segaert, K. (2016) [Invited speaker] Syntactic processing and influences of the dialogue context and interlocutor characteristics. Sociolinguistic Variation and Language Processing, Virginia Tech in Blacksburg Virginia, US.
- Segaert, K. (2014) [invited keynote lecture]. The neurobiology of sentence processing. Language and Neuroscience Conference, Universidade de Santa Catarina Florianopolis, Brazil.

CAREER BREAKS

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| 15.03.2012-15.07.2012 | Maternity leave (4 months) |
| 01.05.2018-01.10.2018 | Adoption leave (6 months) |