C.V. LOUISA BOGAERTS

Associate Professor & Principal investigator

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Research interests

Statistical (implicit) learning, memory, attention
Psycholinguistics, language acquisition, reading, dyslexia
Individual differences, psychometrics & task development

Education

PhD in Psychology, Ghent University (UGhent), Belgium — *Oct 2011 – Sept 2015*

Master of Science in Psychology, Theoretical and Experimental Psychology, UGhent — *Sept 2009 – June 2011*
Summa cum laude (ranked first)

Academic positions

Associate Professor & Principal investigator, BogaertsLab, Cognitive Psychology Group, Department of General Psychology, UGhent — *Sept 2026 – Present*

Tenure-track Assistant Professor & Principal investigator, BogaertsLab, Department of Experimental Psychology, UGhent — *Jan 2022 – Aug 2026*

Postdoctoral researcher, Department of Experimental & Applied Psychology, Vrije Universiteit (VU) Amsterdam, The Netherlands — *Feb 2020 – Dec 2021*
Project title: *'What to expect when you are not expecting it'*
Advisor: Prof. Jan Theeuwes

Postdoctoral researcher & Marie Curie fellow, The Verbal Information Processing Lab, The Hebrew University (HU) of Jerusalem, Israel — *Sept 2016 – Jan 2020*
Project title: *'Statistical learning and second language acquisition: individual differences and neurobiological underpinning'*
Advisor: Prof. Ram Frost

Postdoctoral researcher & Fyssen fellow, Laboratoire de Psychologie Cognitive-CNRS, Aix-Marseille University, France — *Nov 2015 – Sept 2016*
Project title: *'Individual differences in the temporal dynamics of statistical learning'*
Advisor: Dr. Arnaud Rey

Aspirant researcher (PhD) Fund Scientific Research Flanders, Department of Experimental Psychology, UGhent — *Oct 2011 – Sept 2015*
Project title: *'The involvement of serial-order memory in reading disability'*
Promotor: Prof. Wouter Duyck & Co-promotor: Dr. Arnaud Szmalec

Visiting Scholar at Haksins Laboratories - Yale University, New Haven, USA — *Sept – Dec 2013*
Collaboration with Prof. Kenneth Pugh, Prof. Jay Rueckl, & Dr. Stephen Frost

Research skills

Data-analysis: Classical frequentist approach: R (mixed effect models), MATLAB; Bayesian: JASP, cognitive modeling with JAGS (workshop University of Amsterdam, *Aug 2016*)

Programming & software tools: Presentation (Neurobs), Open Sesame (workshop Aix-Marseille University, *Apr 2016*) & Open Sesame OSweb, Simulink data acquisition models

Neuroimaging: Electroencephalography (Advanced MEG/EEG Fieldtrip toolkit, Donders Institute, *Apr 2017*), functional MRI (Afni bootcamp National Institute of Health, *Dec 2013;* Specialist course Basic physics of MRI, GIfME, *Feb 2026*)

Other non-invasive physiology: Eye tracking & pupillometry (Eye-tracking workshop, Goldsmiths University, *Dec 2018*; Advanced eye-tracking workshop Haifa University, *March 2019*), galvanic skin response, heart rate

Guidance

Supervisor visiting PhD Isabella Toselli Prequero Sbrocco (University of São Carlos, Brazil) and Doroteja Stamenkovic (Pavia University, Italy) — *2025 – Present*

Promotor PhD Liesa Ravijts, Haoyu Zhou, Sam Boeve, Christophe Vanhouwe and Brent Vernaillen (UGhent) — *2022 – Present*

Co-promotor PhD Aisu Li, obtrained Cum Laude and Yavor Ivanov (VU Amsterdam) — *2020 – 2024*

Internship promotor Christophe Vanhouwe (UGhent), Sema Tekercioğlu (Bolu Abant İzzet Baysal University, Turkey); **Internal supervisor** Sandanaselvi Samoo (UCL, London), Héléne Abate (UGhent) — *2022 – Present*

Member of PhD guidance committee of Minghua Wu, Mengting Xu, Anouk Matthys, Jorn Othmer (UGhent), Michelle Janssens (KU Leuven) — *2020 – Present*

Master thesis promotor Sarah Du Seuil, Noor van Lint, Alexander Omoikerodah, Maurice De Walsche, Bazil Pasques, Ella Saldago Figueroa, Ann-Sophie Van Zaelen, Lena Snijers (UGhent); Maria Federica Mottadelli (Bicocca University), Louise Claerhout, Melanie Cobbaert, Thibault Marichal, Anaïse Ampe, Lore Cantaert, Xander Cornelis (UGhent) — *2022 – Present*

Master thesis co-promotor Bo De Mulder (UGhent); — *2023 – 2025*

Teaching

Program director European Master's in Clinical Linguistics (EMCL++) — *2025 – Present*

Course coordinator & lecturer (UGhent, EMCL++) *'Reading Acquisition and Dyslexia'* — *2025 – Present*

Course coordinator (UGhent, MSc level) *'Paradigms in Experimental Psychology'* — *2023 – Present*

Course coordinator & lecturer (UGhent, MSc level) *'Introduction to Psycholinguistics'* — *2022 – Present*

Course coordinator & lecturer (VU, BSc level) *'Sensation and Perception'* — *2021*

External lecturer advanced statistics course (HU MSc & PhD level) *'An alternative approach to data analysis: Bayesian statistics and modelling'* — *2017 – 2019*

Institutional responsibilities

Faculty board member, Faculty of Psychology and Educational Sciences — *2022 – Present*

Member WISHeD (wellbeing, inclusivity, sustainability, health & diversity) workgroup — *2022 – Present*

Faculty representative Steering committee North America platform — *2024 – 2026*

Faculty representative Workgroup language policies — *2022 – 2024*

Reviewing & Editorial responsibilities

Associate editor for *British Journal of Psychology* — *2025 – Present*

Guest editor for a special issue in *Journal of Memory and Language* — *2019*
'Integrating Statistical Learning into Cognitive Science' — with Prof. Morten Christiansen & Prof. Ram Frost

Journal reviewer for *Behavior Research Methods, Brain Sciences, Cognition, Cognitive Science, Cortex, eLife, J. of Cognitive Neuroscience, J. of Educational Psychology, J. of Experimental Psychology:LMC, J. of Memory and Language, Memory, Memory & Cognition, Neuropsychology, Open Mind, Psychonomic Bulletin & Review, Philosophical Transactions:B, Science Advances, Scientific Reports, Scientific Studies of Reading,* etc. — *2014 – Present*

Grant reviewer for the European Research Council (ERC), the National Science Foundation (NSF), the French National Research Agency (ANR), Le Fonds de la Recherche Scientifique (FNRS), the German Research Foundation (DFG), Wellcome Funding, the Israeli Science Foundation (ISF), the Hungarian National Research Development and Innovation Office (NRDI) — *2018 – Present*

Member of PhD jury for José Aguavivas (Basque Center on Cognition Brain and Language), Pieter Verbeke (UGhent), Mieke Slim (UGhent), Cátia De Oliveira (York University), Klara Schevernels (Catholic University of Leuven), Pieter Huycke (UGhent), Nan Qin (UGhent), Katja Staerk (Max Planck Institute for Psycholinguistics Nijmegen), Changrun Huang (VU Amsterdam), Aaron Vandendaele (UGhent), Lara Vankelecom (UGhent), Iris van der Wulp (Utrecht University), Ya Gao (VU Amsterdam), Sven Wientjes (UGhent) — *2021 – Present*

Conference organization

Scientific and organizing committee *International Conference on Interdisciplinary Advances in Statistical Learning*, San Sebastián, Spain — *2019, 2022, 2024,2026*

Scientific and organizing committee *Psycholinguistics in Flanders,* Ghent, Belgium — *2023*

Scientific committee TEX2022: Bringing Together Predictive Processes and Statistical Learning, Trieste, Italy — *2022*

Program committee of the *Cognitive Science Society meeting* — *2018*

Grants

Junior **Research Project** grant, Fund Scientific Research Flanders - FWO (€574,600) — *January 2026 – 2030*

Literary project Literatuur Vlaanderen (€19,300) — *July 2023*

Odysseus **Starting grant** Type II, Fund Scientific Research Flanders - FWO (€729,125) — *March 2021 – 2026*

BOF **Starting grant**, Ghent University (€216,300) — *March 2021 – 2028*

Individual European **Postdoctoral fellowship**, Marie Skłodowska-Curie (€170,500) — *July 2017 – 2019*

Personal **Postdoctoral fellowship**, Fyssen Foundation (€95,000 net) — *Oct 2015 – Sept 2016*

Personal **PhD fellowship**, FWO (~€100,000 net) — *Oct 2011 – Sept 2015*

Travel grant for dissemination of results (Canada), Jerusalem Brain Community ($1,000) — *May 2018*

Travel grant for short stay abroad, Fund Scientific Research Flanders (€2,350) — *Oct 2014*

Travel grant for long stay abroad, Fund Scientific Research Flanders (€8,200) — *Sept 2013*

Memberships & Awards

Memberships: Member of the Psychonomic Society, Society for Neuroscience, Society for the Neurobiology of Language and the Belgian Association for Psychological Sciences; Associate member of the European Society for Cognitive Psychology;

Best Master thesis award by BAPS for Ella Saldago Figueroa *2026*

Young talent award by Knack Magazine *2022*

Prize science communication of the Royal Flemish Academy of Belgium for Science and Arts with Studio Brein initiative vzw Breinwijzer *2015*

Science prize from the German Association for Dyslexia and Dyscalculia (for publication with Wibke Hachmann in *Annals of Dyslexia*) *2014*

Publications

Total number of citations: **2461**; h-index: **24**; i-index: **37** [Stats from Google Scholar *August 23, 2026*]

A1 articles

1. **Bogaerts, L.**, Crepaldi, D., **Zhou, H.**, Bautista, A., Brown, K., Chang, L. W., … Siegelman, N. (in press). Time for Consensus: Open Challenges and Recommendations for Research on Individual Differences in Statistical Learning. *Perspectives on Psychological Science.* [Journal Impact Factor (JIF): 9.5]
2. Vernaillen, B., & **Bogaerts, L.** (2026). Flexible statistical learning across modalities: Online and offline measures reveal different aspects of adaptation to changing regularities. *Journal of Experimental Psychology: Learning, Memory & Cognition*. 10.1037/xlm0001594 [JIF: 2.1]
3. Schwartz, N., **Bogaerts, L.**, Loyfer, Y., Tal, A., Siegelman, N., & Frost, R. (2026). Statistical Learning Performance is Impacted by a Previous Learning Experience: A Predictive Eye-Movement Study. *Cognition, 272, 106512.* DOI: 10.1016/j.cognition.2026.106512 [JIF: 2.8]
4. Ravijts, L., Othmer, J., Warreyn, P., & **Bogaerts, L.** (2026). Preserved statistical learning in preterm children aged 4 to 6 years: Evidence from neural and behavioral measures. *Brain and Language, 275, 105717.* DOI: 10.1016/j.bandl.2026.105717 [JIF: 2.3]
5. Boeve, S. & **Bogaerts, L.** (2025). A Systematic Evaluation of Dutch Large Language Models' Surprisal Estimates in Sentence, Paragraph, and Book Reading. *Behavior Research Methods*, 57, 266 (2025). DOI: 10.3758/s13428-025-02774-4 [JIF: 3.9]
6. Cornelis, X., Dirix, N. & **Bogaerts, L.** (2025). The Timing of Spontaneous Eye Blinks in Text Reading Suggests Cognitive Role. *Scientific Reports, 15, 19849 (2025*). DOI: 10.1038/s41598-025-04839-y [JIF: 3.8]
7. Frost, R., **Bogaerts, L.**, Samuel, A., Magnuson, J., Holt, L., & Christiansen, M. (2025). Statistical learning serves a higher purpose: Novelty detection in an information foraging system. *Psychological Review*. DOI: 10.1037/rev0000547 [JIF: 5.1]
8. de Waard, Theeuwes, & **Bogaerts, L.** (2025). Taking time: Auditory statistical learning benefits from distributed exposure. *Psychonomic Bulletin & Review.* DOI: 10.3758/s13423-024-02634-w [JIF: 3.2]
9. Boeve, Zhou & **Bogaerts, L.** (2024). A meta-analysis of 97 studies reveals that statistical learning and language ability are only weakly correlated. *Topics in Cognitive Psychology / L'Année Psychologique, 124(3), 283-316.* DOI: 10.3917/anpsy1.243.0283 [JIF: 1.47]
10. Smalle, E.H.M., & **Bogaerts, L.** (2024). Sensitive periods in language development: Do children outperform adults on auditory word-form segmentation? *Cortex, 179, 35–49.* DOI: 10.1016/j.cortex.2024.07.001 [JIF: 3.20]
11. Zhou, H., van der Ham, S., de Boer, B., **Bogaerts, L.** & Raviv, L. (2024). Modality and stimulus effects on distributional statistical learning: Sound vs. sight, time vs. space. *Journal of Memory and Language, 138.* DOI: 10.1016/j.jml.2024.104531 [JIF: 2.9]

12. Ivanov, Y. Theeuwes, J. & **Bogaerts, L.** (2023). Reliability of individual differences in distractor suppression driven by statistical learning. *Behavior Research Methods, 56, 2437–2451*. DOI: 10.3758/s13428-023-02157-7 [JIF: 5.95]
13. de Waard, J., van Moorselaar, D., **Bogaerts, L.**, & Theeuwes, J. (2023). Statistical learning of distractor locations is dependent on task context. *Scientific reports, 13, 11234.* DOI: 10.1038/s41598-023-38261-z [JIF: 4.99]
14. Li, A., **Bogaerts, L.**, Theeuwes, J. (2023). No evidence for spatial suppression due to across-trial distractor learning in visual search. *Attention, Perception, and Psychophysics, 85(4), 088-1105.* DOI: 10.3758/s13414-023-02667-8 [JIF: 2.19]
15. Theeuwes, J. **Bogaerts, L.**, van Moorselaar, D. (2022). What to expect where and when: how statistical learning drives visual selection. *Trends in Cognitive Sciences, 26 (10),* 860-872. DOI: 10.1016/j.tics.2022.06.001 [JIF: 20.23]
16. Elazar, A., Alhama, R., **Bogaerts, L**., et al. (2022). When the "Tabula" is Anything but "Rasa:" What Determines Performance in the Auditory Statistical Learning Task? *Cognitive Science, 46(2)*. DOI: 10.1111/cogs.13102 [JIF: 2.21]
17. **Bogaerts, L.**, van Moorselaar, D., Theeuwes, J. (2022). Does it help to expect distraction? Attentional capture is attenuated by high distractor frequency but not by trial-to-trial predictability. *Journal of Experimental Psychology: Human Perception and Performance, 48(3)*, 246–261. DOI: 10.1037/xhp0000986 [JIF: 2.33]
18. Li, A., **Bogaerts, L.**, Theeuwes, J. (2022). Statistical learning of across-trial regularities during serial search. *Journal of Experimental Psychology: Human Perception and Performance, 48(3)*, 262–274. DOI: 10.1037/xhp0000987 [JIF: 2.33]
19. de Waard, J., **Bogaerts, L.**, van Moorselaar, D., & Theeuwes, J. (2022). Surprisingly inflexible: statistically learned suppression of distractors generalizes across contexts. *Attention, Perception, and Psychophysics, 84(2)*, 459–473. DOI: 10.3758/s13414-021-02387-x [JIF: 2.19]
20. **Bogaerts, L.**, Siegelman, N., Christiansen, M. & Frost, R. (2021). Is there such a thing as a "good statistical learner"? *Trends in Cognitive Science,* 26(1), 25-37. DOI: 10.1016/j.tics.2021.10.012 [JIF: 20.23]
21. **Bogaerts, L.**, Siegelman, N., & Frost, R. (2020). Statistical learning and language impairments: Towards more precise theoretical accounts. *Perspectives on Psychological science.* DOI: 10.1177/1745691620953082 [JIF:9.31]
22. Rey, A., **Bogaerts, L.**, Franco, A., & Favre, B. (2020). Speech onset latencies as a window of regularity extraction within noise. *Quarterly Journal of Experimental Psychology.* DOI: 10.1080/17470218.2017.1307432 [JIF: 2.08]
23. **Bogaerts, L.**, Frost, R., & Christiansen, M. (2020). Integrating statistical learning into cognitive science. *Journal of Memory and Language, 115, 1-5.* DOI: 10.1016/j.jml.2020.104167 [JIF: 3.89]
24. **Bogaerts, L.**, Richter, C., & Landau, A.N., & Frost, R. (2020). Beta-band activity is a signature of statistical learning. *Journal of Neuroscience, 40(39),* 7523-7530. DOI: 10.1523/JNEUROSCI.0771-20.2020 [JIF: 5.67]
25. Siegelman, N., **Bogaerts, L.**, & Frost, R. (2019). What determines visual statistical learning performance? Insights from information theory. *Cognitive Science, 34(12).* DOI: 10.1111/cogs.12803 [JIF: 2.21]
26. Siegelman, N., **Bogaerts, L.**, Armstrong, B., & Frost, R. (2019). What exactly is learned in visual statistical learning? Insights from Bayesian modelling. *Cognition, 192.* DOI: 10.1016/j.cognition.2019.06.014 [JIF: 3.29]
27. Pavlidou, E., & **Bogaerts, L.** (2019). Implicit statistical learning across modalities and its relationship with reading in childhood. *Frontiers in Psychology, 10.* DOI: 10.3389/fpsyg.2019.01834 [JIF: 2.07]
28. Smalle, E.H.M., Szmalec, A., **Bogaerts, L.**, Page, M.P.A., Narang, V., Misra, D., Lohagun, N., Khan O., Singh, Mishra, R.K. & Huettig, F. (2019). Stronger verbal short-term serial recall abilities in literate compared to illiterate people. *Cognition, 185, 145-150*. DOI: 10.1016/j.cognition.2019.01.012 [JIF: 3.29]
29. **Bogaerts, L.**, Siegelman, N., Benporat, T., & Frost, R. (2018). Is the Hebb repetition task a reliable measure of individual differences in sequence learning? *Quarterly Journal of Experimental Psychology, 71(4),* 892-905. DOI: 10.1080/17470218.2017.1307432 [JIF: 2.08]
30. Rey, A., Minier, L., Malassis, R., **Bogaerts, L.** & Fagot, J. (2018). Regularity extraction across species: associative learning mechanisms shared by human and non-human primates. *Topics in Cognitive Science, 11(3), 573-586.* DOI: 10.1111/tops.12343 [JIF: 2.51]

31. Siegelman, N., **Bogaerts, L.**, Elazar, A., Arciuli, J., & Frost, R. (2018). Statistical entrenchment: prior knowledge impacts statistical learning performance. *Cognition, 177, 198-213.* DOI: 10.1016/j.cognition.2018.04.011 [JIF: 3.54]
32. Hung, Y.H., […], **Bogaerts, L.** & Pugh, K.R. (2018). Common neural basis of motor sequence learning and word recognition and its relation with individual differences in reading skill. *Scientific Studies of Reading, 23(1), 89-100*. DOI: 10.1080/10888438.2018.1451533 [JIF: 2.91]
33. Siegelman, N., **Bogaerts, L.**, Kronenfeld, O. & Frost, R. (2017). Re-defining "learning" in statistical learning: what does an online measure reveal about the assimilation of visual regularities? *Cognitive Science, 42(3), 692-727*. DOI: 10.1111/cogs.12556 [JIF: 2.92]
34. **Bogaerts, L.**, Siegelman, N., Frost, R. (2016). Splitting the variance of statistical learning performance: A parametric investigation of exposure duration and transitional probabilities. *Psychonomic Bulletin & Review, 23(4)*, 1250-1256. DOI: 10.3758/s13423-015-0996-z [JIF: 3.64]
35. Siegelman, N., **Bogaerts, L.**, Christiansen, M., & Frost, R. (2016). Towards a theory of individual differences in statistical learning. *Philosophical Transactions of the Royal Society – Biology, 372,* 20160059. DOI: 10.1098/rstb.2016.0059 [JIF: 5.68]
36. Siegelman, N., **Bogaerts, L.**, Frost, R. (2016). Measuring individual differences in statistical learning: Current pitfalls and possible solutions. *Behavior Research Methods, 49(2)*, 418-432. DOI: 10.3758/s13428-016-0719-z [JIF: 4.43]
37. **Bogaerts, L.**, Szmalec, A., De Maeyer, M., Page, M. P. A., Duyck, W. (2016). The involvement of long-term serial-order memory in reading development: A longitudinal study. *Journal of Experimental Child Psychology,145,* 139-156. DOI: 10.1016/j.jecp.2015.12.008 [JIF: 2.30]
38. Smalle, E., **Bogaerts, L.**, Simonis, M., Duyck, W., Page, M.P.A., Edwards, M. & Szmalec, A. (2015). Can chunk size differences explain developmental changes in lexical learning? *Frontiers in Psychology*, *6*, 1925. DOI: 10.3389/fpsyg.2015.01925 [JIF: 2.32]
39. **Bogaerts, L.**, Szmalec, A., Hachmann, W. M., Page, M. P. A., Duyck, W. (2015). Linking memory and language: Evidence for a serial-order learning impairment in dyslexia. *Research in Developmental Disabilities, 43-44,*106-22. DOI: 10.1016/j.ridd.2015.06.012 [JIF: 1.84]
40. Hachmann, W.M., **Bogaerts, L.**, Szmalec, A., Woumans, E. Duyck, W., Job, R. (2014). Short-term memory for order but not for item information is impaired in developmental dyslexia. *Annals of Dyslexia, 64(2), 121-136.* DOI:10.1007/s11881-013-0089-5 [JIF: 1.98]
41. **Bogaerts, L.**, Szmalec, A., Hachmann, W.M., Page, M.P.A., Woumans, E., & Duyck, W. (2014). Increased susceptibility to proactive interference in adults with dyslexia? *Memory, 23(2), 268-277.* DOI: 10.1080/09658211.2014.882957 [JIF: 1.90]
42. Verreyt, N., **Bogaerts, L.**, Cop, U., Bernolet, S., De Letter, M., Hemelsoet, D., Santens, P., & Duyck, W. (2013). Syntactic priming in bilingual patients with parallel and differential aphasia. *Aphasiology, 27(7)*, 867-887. DOI: 10.1080/02687038.2013.791918 [JIF: 1.72]

A1 articles under review

43. Ravijts, L., Toselli Prequero Sbrocco, I., Vernaillen, B., Dal Ben, R., de Hollanda Souza, D., & **Bogaerts, L.** (under review). Electrophysiological signatures of statistical segmentation: A systematic review and meta-analysis. *Cortex.* Preprint: https://doi.org/10.31234/osf.io/edfqp_v1
44. Smalle, E. H. M., & **Bogaerts, L.** (under review). Dividing Attention Hurts Core Abilities for Incidental Language Learning: Domain-Specific Effects in Auditory Statistical Learning. *Psychonomic Bulletin & Review.* Preprint: https://doi.org/10.31234/osf.io/jbx5a_v1
45. Paice, A., Smalle, E. H. M., **Bogaerts, L.**, Szmalec, A., Page, M.P.A. (under review). Are Times Tables Taught Optimally? Insights from Verbal Sequence Learning. *Quarterly Journal of Experimental Psychology*
46. Boeve, S., Salgado Figueroa, E. S., & **Bogaerts, L** (under review). Prediction Under Pressure: Predictive Sentence Processing in Dyslexia and Second-Language Reading. *Scientific Studies of Reading.* Preprint: https://doi.org/10.31234/osf.io/2jz64_v1

47. Boeve, S., François, L., Salgado Figueroa, E. S., Badaya, E., **Bogaerts, L.**, & Dirix, N. (under review). Dyslexia Eye Tracking COrpus (DECO): First- and Second Language Book Reading in Adults with Dyslexia. *Behavior Research Methods.* Preprint: https://doi.org/10.31234/osf.io/m2jf8_v1
48. Zhou, H., Chetail, F., & **Bogaerts, L.** (under review). Revisiting the relation between statistical learning and literacy: Reliable measures of sensitivity to bigram frequency predict spelling but not reading skill. *Cognitive Science.* Preprint: https://doi.org/10.31234/osf.io/6kf4u_v1

Chapters, proceeding papers and other publications

49. Vernaillen, B., & **Bogaerts, L.** (2025). Target Detection as an Online Measure of Adapting to Changing Statistical Regularities. *Proceedings* of the *8th Annual Conference on Cognitive Computational Neuroscience*.
50. **Bogaerts, L.**, Siegelman, N., & Frost, R. (2023). Statistical learning. *Oxford Research Encyclopaedia of Psychology*
51. Linzen, T., Siegelman, N. & **Bogaerts L.** (2017). Prediction and uncertainty in an artificial language. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*
52. **Bogaerts, L.** & Duyck, W. (2013). Dyslexie louter aangeleerd? Een reactive op Erik Moonen. [Dyslexia merely learned? A reaction on Erik Moonen.] *Nederlands Van Nu, 1*, 35-37.

Oral presentations

Keynotes

1. Bogaerts, L. (2026). Picking Up Patterns: An Individual-Differences Perspective on Statistical Learning. **Joint ESCoP-CoPM Meeting**, August 31 – September 4, Hangzhou, China
2. Bogaerts, L. (2026). Statistical Learning and Language Ability: Insights from Individual Differences. **Psycholinguistics in Flanders in Pavia**, May 12-13, Pavia, Italy
3. Bogaerts, L. (2025). Is there such a thing as a 'good statistical learner'? **Relational Reasoning Meeting**, April 11-12, Ghent, Belgium

Invited/selected talks as presenting author

4. Bogaerts, L. (2026). Picking Up Patterns: An Individual-Differences Perspective on Statistical Learning. Division of Cognitive Psychology in Education, **Kyoto University**, August 14, Kyoto, Japan
5. Bogaerts, L., Crepaldi, D., Zhou, H., & Siegelman, N. (2025). Time for consensus: open challenges and recommendations for research on individual differences in statistical learning. **NVP Meeting of the Dutch Society for Brain and Cognition**, December 17-19, Egmond aan Zee, The Netherlands.
6. Bogaerts, L. (2025). Individual differences in language skills: The role of statistical learning. **Tilburg University**, October 6, Tilburg, The Netherlands
7. Bogaerts, L. (2024). Statistical Word Learning: Emerging and Long-Term Knowledge. Symposium by Steve Majerus on Recent Advances in Memory and Language at the **Belgian Association for Psychological Sciences meeting**, May 29-30, Brussels, Belgium
8. Bogaerts, L. Language learners as pattern foragers (2023). **Duolingo research colloquium**, March 16th, New York City, USA (online)
9. Bogaerts, L. (2022). Visual Statistical Learning and Attention: A Two-Way Street. Symposium at **Psychonomic Society annual meeting**, November 17-20, Boston, USA
10. Bogaerts, L. (2022). Is there such a thing as a 'good statistical learner'? Symposium at **NVP Meeting of the Dutch Society for Brain and Cognition**, April 28-30, Egmond aan Zee, The Netherlands.
11. Bogaerts, L. Statistical learning: An individual differences perspective (2022). **Catholic University Leuven**, October 4th, Leuven, Belgium

12. Bogaerts, L. Is there such a thing as a 'good statistical learner'? (2022). **Université Libre de Bruxelles**, April 20th, Brussels, Belgium
13. Bogaerts, L. Towards a better understanding of the mechanisms underlying statistical learning (2021). **School of Psychology – UNSW Sydney**, April 8th, Sydney, Australia (online)
14. Bogaerts, L. Beta-band activity is a signature of statistical learning (2020). **Edmond & Lily Safra Center for Brain Sciences – The Hebrew University of Jerusalem**, September 13th, Jerusalem, Israel
15. Bogaerts, L., Landau, A.N., Richter, C., & Frost R. (2019). Beta power as a brain marker of visual statistical learning. **NTNU-Haskins Laboratories Joint Workshop on Language Acquisition, Statistical learning and fNIRS Applications**, Oct 5-6, Taipei, Taiwan
16. Bogaerts, L. Statistical learning as a theoretical construct and as an individual ability (2019). **Department for Biological Psychology and Neuropsychology – Vrije Universiteit Amsterdam**, September 2nd, Amsterdam, The Netherlands
17. Bogaerts, L. Statistical learning as a theoretical construct and as an individual ability (2019). **Department for Biological Psychology and Neuropsychology – Hamburg University**, August 15th, Hamburg, Germany
18. Bogaerts, L., Landau, A.N., Richter, C., & Frost R. (2018). Neurobiological signatures of regularity learning. **McDonnell Foundation Workshop: The Future of Statistical Learning**, August 19-20, Québec city, Canada
19. Bogaerts, L., Siegelman, N., & Ram Frost (2017). Re-thinking domain generality vs. domain specificity: The role of prior knowledge in statistical learning. **Psychonomic Society annual meeting**, Nov 9-11, Vancouver, Canada
20. Bogaerts, L., Landau, A.N., & Frost, R. (2017). Preliminary data blitz: Neural oscillations as a brain signature of statistical learning? **McDonnell Foundation Workshop: The Future of Statistical Learning**, Haskins Laboratories – Yale University, Nov 7-8, New Haven, USA
21. Bogaerts, L., & Rey, A. (2016). Temporal dynamics of sequence learning: The case of quadruplets. **Symposium on Learning, restructuring, grouping, chucking**, July 11, Nice, France
22. Bogaerts, L., Siegelman, N., Rey, A., & Frost, R. (2016). I see, I see, what you don't see… Statistical learning as an individual ability. **École Normale Supérieure**, April 19th, Paris, France
23. Bogaerts, L., Siegelman, N., & Frost, R. (2016). Splitting the variance of statistical learning performance. **Israeli Conference on Cognitive Research**. February 16-18, Akko, Israel
24. Bogaerts, L., De Maeyer, M., Szmalec, A., Page, M.P.A, & Duyck, W. (2015). The involvement of long-term serial-order memory in reading development: A longitudinal study. **Psycholinguistics in Flanders**, May 21-22, Marche-en-Famenne, Belgium
25. Bogaerts, L., Szmalec, A., Page, M.P.A., & Duyck, W. (2015). Linking serial-order learning and language: Evidence from reading (disability). **Université Aix-Marseille**, March 20th, Marseille, France
26. Bogaerts, L., Szmalec, A., Page, M.P.A, & Duyck, W. (2014). Linking memory and language: insights from novel word learning and dyslexia. **International Workshop on Learning and Memory Consolidation**, July 10-11, San Sebastián, Spain
27. Bogaerts, L., Szmalec, A., Page, M.P.A, & Duyck, W. (2014). Impaired serial-order learning in adults with dyslexia and children with poor reading skills. **Psycholinguistics in Flanders**, May 8-9, Ostend, Belgium
28. Bogaerts, L., et al. (2013). The SOLID hypothesis: an integrative account of memory and language dysfunctions in dyslexia. **Cognition and Brain Science Unit – Cambridge University**, November 15th, Cambridge, UK
29. Bogaerts, L., et al. (2013). The involvement of serial-order memory in language learning: evidence from novel word learning and dyslexia. **Haskins Laboratories – Yale University**, December 12th, New Haven, USA
30. Bogaerts, L., Szmalec, A., Hachmann, W. M., Page, M.P.A, & Duyck, W. (2013). Dyslexia as a dis-order: The SOLID hypothesis. **International Workshop on Reading & Developmental Dyslexia**, May 30-31, San Sebastián, Spain

Invited/selected talks as senior author

31. Zhou, H., Chetail, F., Brysbaert, M., Vandendaele, A. & Bogaerts, L. (2026). Probing the role of statistical learning in language with an individual differences approach. **International Conference on Interdisciplinary Advances in Statistical Learning**, June 10-12, San Sebastián, Spain
32. Boeve, S., Salgado Figueroa, E. S., & Bogaerts, L. (2026). Prediction under pressure: How dyslexia and second-language reading shape predictive sentence processing. **Multilingual Minds and Machines Meeting**, June 22-23, Nijmegen, The Netherlands
33. Zhou, H., Chetail, F., Brysbaert, M., Vandendaele, A. & Bogaerts, L. (2026). Probing the role of statistical learning in language with an individual differences approach. **International Conference on Interdisciplinary Advances in Statistical Learning**, June 10-12, San Sebastián, Spain
34. Ravijts, L., Othmer, J., Warreyn, P., & Bogaerts, L. (2026). Preserved statistical learning in preterm children aged 4–6 years: Evidence from neural and behavioral measures. In Symposium by Stefania Mattioni, Neuroimaging perspectives on Development and Linguistic Expertise, at **Meeting of the Belgian Association for Psychology**, May 25-26, Ghent, Belgium.
35. Vernaillen, B. & Bogaerts, L. (2026). Flexible statistical learning across modalities: online and offline measures reveal different aspects of adaptation to changing regularities. **Meeting of the Belgian Association for Psychology**, May 25-26, Ghent, Belgium.
36. Zhou, H., Chetail, F., Brysbaert, M., Vandendaele, A. & Bogaerts, L. (2026). Probing the role of statistical learning in language with an individual differences approach. **Psycholinguistics in Flanders**, May 12-13, Pavia, Italy
37. Boeve, S. & Bogaerts, L. (2025). A Systematic Evaluation of Dutch Large Language Models' Surprisal Estimates. **LMMs for linguistic analyses: Applications and limitations**, November 24-25, Cologne, Germany
38. Vernaillen, B. & Bogaerts, L. (2025). Out with the old, in with the new? Adapting to changing auditory and visual regularities. **Recollection, Familiarity, and Novelty Conference**, April 15-16, Liège, Belgium
39. Boeve, S. & Bogaerts, L. (2025). A systematic evaluation of Dutch large language model's surprisal estimates. **Conference of Experimental Psychologists** (TeaP), March 9-12, Frankfurt, Germany
40. Zhou, H., Chetail, F. & Bogaerts, L. (2025). Busting the myth again: No positive correlations between individuals' sensitivity to bigram frequency and their reading ability. **Conference of Experimental Psychologists** (TeaP), March 9-12, Frankfurt, Germany
41. Ravijts, L., van Moorselaar, D., Tekercioğlu, S., & Bogaerts, L. (2024). EEG frequency tagging and time-resolved decoding in visual statistical learning. **International Conference on Interdisciplinary Advances in Statistical Learning**, June 5-7, San Sebastián, Spain
42. Ivanov, Y. Theeuwes, J. & Bogaerts, L. (2023). Stability of individual differences in distractor suppression driven by statistical learning. **NVP Meeting of the Dutch Society for Brain and Cognition**, April 28-30, Egmond aan Zee, The Netherlands

Contributions to academic culture

Organizer & interviewer, 'Growing up in science' conversation series at Ghent University *Oct 2025 - Present*

Panel discussant on switching or expanding research topics, PhD retreat Vrije Universiteit Amsterdam *June 2025*

Presenter inspiration session on using AI in higher education, 18/03/2025 *March 2025*

Interviewee 'Growing up in science' conversation series at Ghent University *Dec 2024*

Press & public outreach

Popular science talk on language in the brain for SMOG & CO vzw, 29/06/2026

Reading research featured in the New Scientist

Promotor science festival I-BRAIN on Learning, 24/11/2024

Popular science talk on language in the brain for Breinwijzer, 14/12/2023

Board of advice Theater Aan Zee #2023 and organizer of Brein aan Zee

Popular science talk on FAAR book festival, *Why do we forget?* 11/03/2023

Interview in Knack magazine on curatorship Theater Aan Zee

Expo booth by BogaertsLab on implicit learning I-BRAIN science festival on Intelligence, 27/11/2022

Radio program New facts call-in to explain new research findings on fMRI decoding

Interview in newspaper De Morgen on brain research & business newspaper De Tijd on the Odysseus grant

Marie Curie research selected for 'Results in Brief', European Commission's CORDIS website

PhD research featured in Knack magazine

Blogposts for Studio Brein, reporting cognitive (neuro)sciences findings to the general public

Public lectures for high school graduates, *Our memory: about remembering and forgetting*, as part of two *Meeting of Minds for Youth* editions, 12/03/2012 and 15/03/2013, Ghent, Belgium