

Curriculum Vitae

Frederick Verbruggen

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Contact

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Education

- **2002–2005:** PhD in Psychology, Ghent University, Belgium (supervisor: Prof. Dr. A. Vandierendonck; Honourable mention 'Andreas de Leenheer' award for excellent young researchers, Ghent University, 2006)
- **1999–2002:** Licentiate in Psychology, Ghent University, Belgium (magna cum laude)
- **1997–1999:** Candidate in Psychology, Ghent University, Belgium (cum laude)

Positions

- **2017– :** Senior full professor with a focus on scientific research (Gewoon Hoogleraar BOF), Ghent University
- **2017–2019:** Visiting Professor, University of Exeter (UK)
- **2012–2017:** Full professor of Cognitive Psychology, University of Exeter (UK)
- **2016–2017:** Visiting Professor, Ghent University (Belgium)
- **2010–2012:** Senior Lecturer, University of Exeter (UK)
- **2009–2010:** Visiting post-doctoral research fellow, CUBRIC, Cardiff University
- **2006–2008:** Visiting post-doctoral research fellow, Vanderbilt University, Nashville TN
- **2006–2010:** Post-doctoral research fellow of the Research Foundation – Flanders (FWO)

Fellowships, awards, and honours

- Member of [Young Academy of Europe](#) (2017–2022)
- The [24th EPS Prize Lecturer](#), 2017, for '*distinguished research achievement by experimental psychologists at an early stage in their career*'.
- Royal Society Wolfson Research Merit Award, 2016, for '*outstanding scientists*' in the UK.
- The [Psychonomic Society's Steven Yantis Early Career Award](#), 2015, '*for exceptional research contributions to scientific psychology*'.
- [Randolph Blake Early Career Award](#), Vanderbilt University, 2014, '*to recognize exemplary alumni of our program in the early stages of their career*'.
- Merit Award, University of Exeter, 2012
- Research fellow of the Research Foundation – Flanders (FWO; 2006–2010)

- Honourable mention for the 'Andreas de Leenheer' award for excellent young researchers, Ghent University, 2006.
- Fellow of the Special Research Fund at Ghent University, 2002–2006.

Personal statement

My significant contributions to psychology are in the study of 'executive control'. The executive control system can override inappropriate or no-longer relevant actions (response inhibition), suppress information irrelevant for the task at hand (interference control), and switch between different tasks. Executive control is critical in everyday life and executive control impairments underlie many psychopathological disorders. However, this aspect of human functioning has proven to be one of the most difficult scientific issues to tackle.

In recent years, cognitive psychology and neuroscience have begun to fractionate the executive system into sub-systems and specify their interaction and neural substrates. But there remains an unfortunate tendency to attribute causal roles to 'control homunculi' such as 'inhibition', 'set-shifting', etc., without further specification of how these sub-systems work. This hampers major advances. My work provides a more fundamental mechanistic analysis of the executive control sub-systems in humans and non-human animals. I have demonstrated that various components of executive control, such as inhibition, can itself be decomposed into basic cognitive processes (signal detection, action selection, and action execution) that are modulated via error-correction or outcome-evaluation mechanisms, preparation, and task rules maintained in memory. I have also shown how executive control of actions becomes automated with practice through associative learning. For example, I have integrated theories of associative learning, automaticity, and (executive) response inhibition. Finally, I have shown that action control, decision-making, and motivation are intimately related in humans and non-human animals. Thus, my work motivates an integrated theoretical framework for control of flexible and goal-directed behavior.

As well as my theoretical contributions to research on executive function, my work also has medium and long-term implications for clinical psychology and psychiatry: it increases our understanding of control deficits and contributes to the development of new and better behavioural treatments for impulse-control disorders, and more generally, to facilitating behaviour change in the wider population (e.g. with respect to overeating).

Research support

External and major awards

- **2019–2023:** Getting real with response inhibition – characterizing pure inhibitory function in healthy participants and people with ADHD. Special Research Fund Ghent University, co-I (PI: Boehler), €200,000.
- **2018–2023:** Control of Impulsive Action, ERC Consolidator Grant, €1,998,438.
- **2017–** : Research professorship, Ghent University
- **2015–2016:** Bio-cultural evolution of self-control: A comparative psychology approach. University of Exeter Research Fund, PI, £20,000.
- **2013–2018:** Updating the mind: The mechanisms behind behavioural change, ERC Starting Grant, €1,138,518.
- **2013–2016:** Neural dynamics of response inhibition and gambling across the lifespan, BBSRC, co-I (PI: Chambers, Cardiff University), £701,944.
- **2014:** The Mysterious Story of Self-Control, ESRC Festival of Social Science 2014, PI, £1,250.
- **2013:** Can brain stimulation enhance the beneficial effect of motor inhibition on gambling behaviour? Wellcome Trust Seed Corn Fund, co-I (PI: Chambers, Cardiff University), £33,000.
- **2013:** Effects of stress on executive control and risk-taking behaviour, BA/LT Small Research Grant, PI, £9,555.
- **2012–2015:** Do executive motor-control mechanisms regulate monetary choice and gambling? ESRC, PI, £546,626.

- **2012–2013:** Brain training to reduce over-eating; a translational pilot study, Wellcome Trust Seed Corn Fund, co-I (PI: Lawrence; Exeter University), £18,539.
- **2010:** Grant of the Research Foundation Flanders, € 9,900.
- **2009:** Grant of the Research Foundation Flanders, € 7,500.
- **2007–2011:** The role of endogenous and exogenous factors in voluntary task switching. Special Research Fund at Ghent University (01J07707), co-I (PI: Vandierendonck), €166,000.
- **2007:** Grant of the Research Foundation Flanders, € 15,000.
- **2006–2010:** Research Fellowship Research Foundation Flanders (5-year salary plus €25,000).
- **2006:** Grant of the Research Foundation Flanders, € 15,000.
- **2002–2006:** Predoctoral Research Fellowship Ghent University (4-year salary plus €5,000).

Internal awards

- **2017:** Does food response inhibition training implemented on smartphones (the FoodT app) reduce food intake and promote weight loss?, Open Innovation Impact fund, University of Exeter, co-I (PI: Lawrence), £5,360.
- **2015–2017:** Establishing a CLES Schools Research Consortium, CLES Strategic Development Fund, University of Exeter, co-I (PI: Lawrence), £16,115.
- **2014:** A psychopharmacological approach to fractionating impulsivity. CLES Strategic Development Fund, University of Exeter, co-I (PI: Dodds), £6,720.
- **2014:** Outward Mobility Academic Fellowship, University of Exeter, £2,100.
- **2014:** Developing the clinical use of Cognitive Bias Modification paradigms, GW4 Initiator Fund, co-I (Exeter PI: Adlam), £7,000. With partners in Bristol, Bath, and Cardiff.
- **2014:** Building a translational research pipeline in behaviour change interventions, CLES Strategic Development Fund, University of Exeter, co-I (PI: Wright), £8,972.
- **2012:** Controlling the mind: The cognitive and neural mechanisms behind self-control and behavioural change. CLES Strategic Development Fund, University of Exeter, PI, £68,048.
- **2012:** Outward Mobility Academic Fellowship, University of Exeter, £1,500.

Studentships

- Since 2011, I have been named (co-)supervisor on 6 ESRC (UK) Doctoral Training Grants (approximate value per grant: £60,000) and 1 FWO (Flanders) pre-doctoral fellowship (approximate value per grant: €220,000).

Consultant/mentor projects

- Mentor Dr Andrew Jones, ESRC Future Research Leaders scheme, 2016 - 2018
- Post-doctoral Fellowship Damien Brevers, National Council of Responsible Gaming, 2015-2017
- *Fronto basal-ganglia circuits for selective stopping and braking.* NIH, 1R01DA026452-01A109, PI: A. Aron, 2009–2014.
- *Evaluating a fronto-basal ganglia white matter network for behavioral stopping in lesion patients.* NSF, 0921168, PI: A. Aron, 2009–2012.

Publications

1. Bundt, C., Boehler, C.N., Verbruggen, F., Brass, M., & Notebaert, W. (in press). Reward does not modulate corticospinal excitability in anticipation of a Stroop trial. *European Journal of Neuroscience*
2. Macario, A., Darden, S., Verbruggen, F., Croft, D.P. (in press). Intraspecific variation in inhibitory motor control in guppies, *Poecilia reticulata*. *Journal of Fish Biology*
3. Chen, Z., Reimer, C., & Verbruggen, F. (in press). Proximity and expectancy modulate response vigor after reward omission. *Collabra: Psychology*

4. Eben, C., Chen, Z., Cracco, E., Brass, M., Billieux, J., & Verbruggen, F. (in press). Are post-error adjustments influenced by beliefs in free will? A failure to directly replicate Rigoni, Wilquin, Brass and Burle, 2013. *Royal Society Open Science*
5. Jones, A., Baines, L., Ruddock, H., Franken, I., Verbruggen, F., & Field, M. (in press). Does Inhibitory Control training for Alcohol survive a context shift? *Psychology of Addictive Behaviors*. <https://doi.org/10.1037/adb0000580>
6. Maizey, L., Evans, C. J., Muhlert, N., Verbruggen, F., Chambers, C. D., & Allen, C. P. G. (2020). Cortical and subcortical functional specificity associated with response inhibition. *NeuroImage*, 220, 117110. <https://doi.org/10.1016/j.neuroimage.2020.117110>
7. Flayelle, M., Verbruggen, F., Schiel, J., Vögele, C., Maurage, P., & Billieux, J. (2020). Non-problematic and problematic binge-watchers do not differ on prepotent response inhibition: A pre-registered pilot experimental study. *Human Behavior and Emerging Technologies*, 2, 259-68. <https://doi.org/10.1002/HBE2.194>
8. Longman, C. S., Kiesel, A., & Verbruggen, F. (2020). Learning in the absence of overt practice: A novel (previously unseen) stimulus can trigger retrieval of an unpracticed response. *Psychological Research*, 84, 1065–1083. <https://doi.org/10.1007/s00426-018-1106-4>
9. Eben, C., Chen, Z., Vermeulen, L., Billieux, J., & Verbruggen, F. (2020). A direct and conceptual replication of post-loss speeding when gambling. *Royal Society Open Science* 7: 200090. <http://dx.doi.org/10.1098/rsos.200090>
10. Eben, C., Billieux, J., & Verbruggen, F. (2020). Clarifying the role of negative emotions in the origin and control of impulsive actions. *Psychologica Belgica*, 60, 1–17. <http://doi.org/10.5334/pb.502>
11. Lea, S.E.G., Chow, P.K.Y., Meier, C., McLaren, I.P.L., & Verbruggen, F. (2019). Pigeons' performance in a tracking change-signal procedure is consistent with the independent horse-race model. *Journal of Experimental Psychology: Animal Learning and Cognition*, 45. 464-473, <https://doi.org/10.1037/xan0000219>
12. Liefoghe, B. & Verbruggen, F. (2019). On the assimilation of instructions: stimulus-response associations are implemented but not stimulus-task associations. *Journal of Cognition*, 2, 20. <https://doi.org/10.5334/joc.78>
13. Best, M. & Verbruggen, F. (2019). Does learning influence the detection of signals in a response-inhibition task? *Journal of Cognition*, 2, 19. <http://doi.org/10.5334/joc.73>
14. Bundt, C., Bardi, L., Verbruggen, F., Boehler, C. N., Brass, M., & Notebaert, W. (2019). Reward anticipation changes corticospinal excitability during task preparation depending on response requirements and time pressure. *Cortex*, 120, 159-168. <https://doi.org/10.1016/j.cortex.2019.05.020>
15. Verbruggen, F., Aron, A. R., Band, G. P., Beste, C., Bissett, P. G., Brockett, A. T., ... Boehler, C. N. (2019). A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task. *ELife*, 8, e46323. <https://doi.org/10.7554/eLife.46323>
16. Longman, C. S., Liefoghe, B., & Verbruggen, F. (2019) How Does the (Re)Presentation of Instructions Influence Their Implementation? *Journal of Cognition*, 2(1): 10, pp. 1–19. <https://doi.org/10.5334/joc.63>
17. Sedgmond, J., Lawrence, N.S., Verbruggen, F., Morrison, S., Chambers, C.D., Adams, R.C. (2019). Prefrontal brain stimulation during food-related inhibition training: Effects on food craving, food consumption and inhibitory control. *Royal Society Open Science*, 6, <https://doi.org/10.1098/rsos.181186>

18. McLaren, I.P.L., McAndrew, A., Angerer, K., McLaren, R., Forrest, C., Bowditch, W., Monsell, S., Verbruggen, F. (2019). Mackintosh Lecture: Association and Cognition: Two Processes, One System. *Quarterly Journal of Experimental Psychology*, *72*, 98-117 <https://doi.org/10.1177/1747021818766287>
19. Heylen, J., De Raedt, R., Verbruggen, F., Bosmans, G. (2019). Attachment and Self-regulation Performance in Preadolescence. *Journal of Social and Personal Relationships*, *36*, 706-716. <https://doi.org/10.1177/0265407517742531>
20. Best, M., McLaren, I., & Verbruggen, F. (2019). Instructed and Acquired Contingencies in Response-Inhibition Tasks. *Journal of Cognition*, *2*(1), 4. <https://doi.org/10.5334/joc.53>
21. Verbruggen, F., McLaren, R., Pereg, M., & Meiran, N. (2018). Structure and implementation of novel task rules: A cross-sectional developmental study. *Psychological Science*, *29*, 1113-1125. <https://doi.org/10.1177/0956797618755322>
22. Porter, L., Bailey-Jones, C., Priudokaitea, G., Allen, S. Wood, K., Stiles, K., Parvin, O., Javaid, M., Verbruggen, F. , & Lawrence, N.S. (2018). From Cookies to Carrots; the effect of inhibitory control training on children's snack selections. *Appetite*, *124*, 111-123, <https://doi.org/10.1016/j.appet.2017.05.010>
23. Longman, C.S., Milton, F., Wills, A.J., & Verbruggen, F. (2018) Transfer of learned category-response associations is modulated by instruction. *Acta Psychologica*, *184*, 144-167, <https://doi.org/10.1016/j.actpsy.2017.04.004>
24. Allen, C., Singh, K.D., Verbruggen, F., Chambers, C.D. (2018). Evidence for parallel activation of the pre-supplementary motor area and inferior frontal cortex during response inhibition: A combined MEG and TMS study. *Royal Society Open Science*, *5*, 171369, <https://doi.org/10.1098/rsos.171369>
25. Verbruggen, F., & McLaren, R. (2018). Effects of reward and punishment on the interaction between going and stopping in a selective stop-change task. *Psychological Research*, *82*, 353-370, <http://dx.doi.org/10.1007/s00426-016-0827-5>
26. Meier, C., Pant, S.R., van Horik, J.O., Laker, P.R., Langley, E.J.G., Whiteside, M.A., Verbruggen, F., Madden, J.R. (2017). A novel continuous inhibitory-control task: Variation in individual performance by young pheasants (*Phasianus colchicus*). *Animal Cognition*, *20*, 1035-1047. <http://dx.doi.org/10.1007/s10071-017-1120-8>
27. Verbruggen, F., & McLaren, R. (2017). Development of between-trial response strategy adjustments in a continuous action-control task: A cross-sectional study. *Journal of Experimental Child Psychology*, *162*, 39-57, <http://dx.doi.org/10.1016/j.jecp.2017.05.002>
28. Elchlepp, H., & Verbruggen, F. (2017). How to withhold or replace a prepotent response: An analysis of the underlying control processes and their temporal dynamics. *Biological Psychology*, *123*, 250-268 <http://dx.doi.org/10.1016/j.biopsycho.2016.10.005>
29. Verbruggen, F., Chambers, C.D., Lawrence, N., & McLaren, I.P.L (2017). Winning and losing: Effects on impulsive action. *Journal of Experimental Psychology: Human Perception and Performance*, *43*, 147-168. <http://dx.doi.org/10.1037/xhp0000284>
30. Adams, R. C., Lawrence, N. S., Verbruggen, F., & Chambers, C. D. (2017). Training response inhibition to reduce food consumption: Mechanisms, stimulus specificity and appropriate training protocols. *Appetite*, *109*, 11-23. <https://dx.doi.org/10.1016/j.appet.2016.11.014>
31. Verbruggen, F. (2016). Executive Control of Actions Across Time and Space. *Current Directions in Psychological Science*, *25*, 399-404. <https://dx.doi.org/10.1177/0963721416659254>

32. Leiva, A., Andrés, P., Servera, M., Verbruggen, F., Parmentier, F.B.R. (2016). The role of age, working memory and response inhibition in deviance distraction: a cross-sectional study. *Developmental Psychology*, *52*, 1381-1393, <http://dx.doi.org/10.1037/dev0000163>
33. Civile, C., Verbruggen, F., McLaren, R., Zhao, D., Ku, Y., & McLaren, I. P. L. (2016). Switching off perceptual learning: Anodal transcranial direct current stimulation (tDCS) at Fp3 eliminates perceptual learning in humans. *Journal of Experimental Psychology: Animal Learning and Cognition*, *42*, 290–296. <http://doi.org/10.1037/xan0000107>
34. Bowditch, W.A., Verbruggen, F., & McLaren, I. P. L. (2016). Associatively-Mediated Stopping: Training Stimulus-Specific Inhibitory Control, *Learning & Behavior*, *44*, 162-174. <http://dx.doi.org/10.3758/s13420-015-0196-8>
35. Verbruggen, F., McAndrew, A., Weidemann, G., Stevens, T., & McLaren, I.P.L (2016). Limits of Executive Control: Sequential Effects in Predictable Environments, *Psychological Science*, *27*, 748–757, <http://dx.doi.org/10.1177/0956797616631990>
36. Elchlepp, H., Lavric, A., Chambers, C. D., & Verbruggen, F. (2016). Proactive inhibitory control: A general biasing account. *Cognitive Psychology*, *86*, 27–61, <http://dx.doi.org/10.1016/j.cogpsych.2016.01.004>
37. Noël, X., Brevers, D., Hanak, C., Kornreich, C., Verbanck, P., Verbruggen, F. (2016). On the automaticity of response inhibition in individuals with alcoholism. *Journal of Behavior Therapy and Experimental Psychiatry*, *51*, 84-91. <http://dx.doi.org/10.1016/j.jbtep.2016.01.003>
38. Best, M., Lawrence, N. S., Logan, G. D., McLaren, I. P. L., & Verbruggen, F. (2016). Should I stop or should I go? The role of associations and expectancies. *Journal of Experimental Psychology: Human Perception and Performance*, *42*, 115-137. <http://psycnet.apa.org/doi/10.1037/xhp0000116>
39. Leiva, A., Parmentier, F.B.R., Elchlepp, H., & Verbruggen, F. (2015). Reorienting the mind: The impact of novel sounds on go/no-go performance, *Journal of Experimental Psychology: Human Perception and Performance*, *41*, 1197-1202, <http://dx.doi.org/10.1037/xhp0000111>
40. Lawrence, N. S., O’Sullivan, J., Parslow, D., Javaid, M., Adams, R. A., Chambers, C. D., & Verbruggen, F. (2015). Training response inhibition to food is associated with weight loss and reduced calorie intake. *Appetite*, *95*, 17-28, <http://dx.doi.org/10.1016/j.appet.2015.06.009>
41. Verbruggen, F., & Logan, G.D. (2015). Evidence for capacity sharing when stopping. *Cognition*, *142*, 81-95, <http://dx.doi.org/10.1016/j.cognition.2015.05.014>
42. Stevens, T., Brevers, D., Chambers, C. D., Lavric, A., McLaren, I. P. L., Mertens, M., Noël, X., Verbruggen, F. (2015). How does response inhibition influence decision-making when gambling? *Journal of Experimental Psychology: Applied*, *21*, 15-36, <http://dx.doi.org/10.1037/xap0000039>
43. Lawrence, N.S., Verbruggen, F., Morrison, S., Adams, R.C., Chambers, C.D. (2015). Stopping to food can reduce intake: Effects of stimulus-specificity and individual differences in dietary restraint. *Appetite*, *85*, 91-103. <http://dx.doi.org/10.1016/j.appet.2014.11.006>
44. Verbruggen, F., Best, M., Bowditch, W.A., Stevens, T., & McLaren, I.P.L. (2014). The inhibitory control reflex. *Neuropsychologia*, *65*, 263-278. <http://dx.doi.org/10.1016/j.neuropsychologia.2014.08.014>
45. Verbruggen, F., McLaren, I.P.L., Chambers, C.D. (2014). Banishing the control homunculi in studies of action control and behaviour change. *Perspectives on Psychological Science*, *9*, 497–524, <http://dx.doi.org/10.1177/1745691614526414>

46. Verbruggen, F., Stevens, T., Chambers, C.D. (2014). Proactive and reactive stopping when distracted: An attentional account. *Journal of Experimental Psychology: Human Perception and Performance*, 40, 1295–1300, <http://dx.doi.org/10.1037/a0036542>
47. Logan, G. D., Van Zandt, T., Verbruggen, F., & Wagenmakers, E. J. (2014). On the ability to inhibit thought and action: General and special theories of an act of control. *Psychological Review*, 121, 66-95. <http://dx.doi.org/10.1037/a0035230>
48. McLaren, I.P.L., Dunn, B.D., Lawrence, N.S., Milton, F.N., Verbruggen, F., Stevens, T., McAndrew, A., & Yeates, F. (2014) Why decision making may not require awareness, *Behavioral and Brain Sciences*, 37, 35-36. <http://dx.doi.org/10.1017/S0140525X13000794> (Open Peer Commentary)
49. Verbruggen, F., Adams, R.C., van 't Wout, F., Stevens, T., McLaren, I.P.L., Chambers, C.D. (2013). Are the effects of response inhibition on gambling long-lasting? *Plos One*, 8(7), <http://dx.doi.org/10.1371/journal.pone.0070155>
50. Stokes, M., Barker A.T., Dervinis, M., Verbruggen, F., Maizey, L., Adams R., Chambers, C.D. (2013). Biophysical determinants of Transcranial Magnetic Stimulation: Effects of excitability and depth of targeted area. *Journal of Neurophysiology*, 109, 437-444, <http://dx.doi.org/10.1152/jn.00510.2012>
51. Rusconi, E., Dervinis, M., Verbruggen, F. , & Chambers C.D. (2013). Critical timecourse of right frontoparietal involvement in mental number space. *Journal of Cognitive Neuroscience*, 25, 465–483, http://dx.doi.org/10.1162/jocn_a_00330
52. Noël, X., Van der Linden M., Brevers D., Campanella S., Verbanck P., Kornreich C., Verbruggen F. (2013). Separating intentional inhibition of prepotent responses and resistance to proactive interference in alcohol-dependent individuals. *Drug and Alcohol Dependence*, 128, 200–205, <http://dx.doi.org/10.1016/j.drugalcdep.2012.08.021>
53. Maizey , L., Allen C.P.G., Dervinis, M. Verbruggen, F., Varnava, A., Kozlov, M., Adams, R.A., Stokes, M., Klemen, J., Bungert, A., Hounsell, C.A., Chambers, C.D. (2013). Comparative incidence rates of mild adverse effects to transcranial magnetic stimulation. *Clinical Neurophysiology*, 124, 536-544, <http://dx.doi.org/10.1016/j.clinph.2012.07.024>
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57. Jahfari S, Verbruggen F, Frank, MJ, Waldorp L, Colzato L, Ridderinkhof KR, Forstmann BU (2012). How preparation changes the need for top-down control of the basal ganglia when inhibiting premature actions. *Journal of Neuroscience*, 32, 10870-8, <http://dx.doi.org/10.1523/JNEUROSCI.0902-12.2012>
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75. Verbruggen, F., & Logan, G.D. (2009). Automaticity of cognitive control: Goal priming in response-inhibition paradigms. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *35*, 1381-1388, <http://dx.doi.org/10.1037/a0016645>
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77. Verbruggen, F., & Logan, G.D. (2009). Models of response inhibition in the stop-signal and stop-change paradigms, *Neuroscience & Biobehavioral Reviews*, *33*, 647-661, <http://dx.doi.org/10.1016/j.neubiorev.2008.08.014>
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81. Verbruggen, F., & Logan, G.D. (2008). Response inhibition in the stop-signal paradigm. *Trends in Cognitive Sciences*, *12* (11), 418-424, <http://dx.doi.org/10.1016/j.tics.2008.07.005>
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91. Liefoghe, B., Verbruggen, F., Vandierendonck, A., Fias, W., & Gevers, W. (2007). Across-trial distance priming and task switching are independent. *European Journal of Cognitive Psychology*, *19*, 1-16, <http://dx.doi.org/10.1080/09541440500492033>
92. Stevens, M., Lammertyn, J., Verbruggen, F., & Vandierendonck, A. (2006). Tscope: A C library for programming cognitive experiments on the MS Windows platform. *Behavior Research Methods*, *38*, 280-286, <http://dx.doi.org/10.3758/BF03192779>
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94. Notebaert, W., Gevers, W., Verbruggen, F., & Liefoghe, B. (2006). Top-down and bottom-up sequential modulations of congruency effects. *Psychonomic Bulletin and Review*, *13*, 112-117, <http://dx.doi.org/10.3758/BF03193821>
95. Verbruggen, F., Liefoghe, B., & Vandierendonck, A. (2006). Selective stopping in task switching: The role of response selection and response execution. *Experimental Psychology*, *53*, 48-57, <http://dx.doi.org/10.1027/1618-3169.53.1.48>
96. Verbruggen, F., Liefoghe, B., & Vandierendonck, A. (2006). The effect of interference in the early processing stages on response inhibition in the stop signal task. *Quarterly Journal of Experimental Psychology*, *59*, 190-205, <http://dx.doi.org/10.1080/17470210500151386>
97. Verbruggen, F., Liefoghe, B., Notebaert, W., & Vandierendonck, A. (2005). Effects of stimulus-stimulus compatibility and stimulus-response compatibility on response inhibition. *Acta Psychologica*, *120*, 307-326, <http://dx.doi.org/10.1016/j.actpsy.2005.05.003>
98. Notebaert, W., Verbruggen, F., & Soetens, E. (2005). A sequential analysis of relevant and irrelevant stimulus information in the Stroop task. *European Journal for Cognitive Psychology*, *17*, 642-658, <http://dx.doi.org/10.1080/09541440540000095>
99. Liefoghe, B., Vandierendonck, A., Muylaert, I., Verbruggen, F., & Vanneste, W. (2005). The phonological loop in task alternation and task repetition. *Memory*, *13*, 550-560, <http://dx.doi.org/10.1080/09658210444000250>
100. Verbruggen, F., Liefoghe, B., & Vandierendonck, A. (2005). On the difference between response inhibition and negative priming: Evidence from simple and selective stopping. *Psychological Research*, *69*, 262-271, <http://dx.doi.org/10.1007/s00426-004-0177-6>
101. Verbruggen, F., Liefoghe, B., Szmalec, A., & Vandierendonck, A. (2005). Inhibiting responses when switching: Does it matter? *Experimental Psychology*, *52*, 125-130, <http://dx.doi.org/10.1027/1618-3169.52.2.125>
102. Verbruggen, F., Liefoghe, B., & Vandierendonck, A. (2004). The interaction between stop signal inhibition and distractor interference in the flanker and Stroop task. *Acta Psychologica*, *116*, 21-37, <http://dx.doi.org/10.1016/j.actpsy.2003.12.011>

Book chapters

103. Matzke, D., Verbruggen, F., & Logan, G. D. (2018). The Stop-Signal Paradigm. In J. T. Wixted (Ed.), *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience* (pp. 1–45). <https://doi.org/10.1002/9781119170174.epcn510>
104. Verbruggen, F. (2017). Response inhibition. In V. Zeigler-Hill and T.K. Shackelford (eds.) *Encyclopedia of Personality and Individual Differences*. https://doi.org/10.1007/978-3-319-28099-8_851-1
105. Verbruggen, F. & Logan, G.D. (2017). Control in Response Inhibition. In T. Egner, *Wiley Handbook of Cognitive Control*, p. 97-110. <https://doi.org/10.1002/9781118920497.ch6>
106. McLaren, I.P.L, Carpenter, K. Civile, C. , McLaren, R., Zhao, D., Ku, Y., Milton, F., & Verbruggen, F. (2016). Categorisation and Perceptual Learning: Why tDCS to Left DLPFC Enhances Generalisation. In J.B. Trobalon and V.D. Chamizo (eds.), *Associative Learning and Cognition: Homage to Professor N.J. Mackintosh (In memoriam 1935-2015)*. Universitat de Barcelona, p. 37-67.
107. McLaren, I.P.L. & Verbruggen, F. (2016). Association, inhibition, and action, In R.A. Murphy and R.C. Honey (Eds.), *The Wiley Blackwell Handbook on the Cognitive Neuroscience of Learning*, p. 489-514. <https://doi.org/10.1002/9781118650813.ch19>

Other publications

108. Nicholson W, Verbruggen F, McLaren IPL (2018). What can Associative Learning do for Driving? Proceedings of the 40th Annual Conference of the Cognitive Science Society, 2152-2158, <http://mindmodeling.org/cogsci2018/papers/0413/index.html>
109. McAndrew, A., Yeates, F., Verbruggen, F., & McLaren, I.P.L. (2013) Modeling a reaction time variant of the Perruchet effect in humans, In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) Proceedings of the 35th Annual Conference of the Cognitive Science Society , 3014-3019

Raw data, reports, and analysis scripts of published studies and large pilot studies are deposited in the [Open Research Exeter repository](#) (2013–2016) and [Open Science Framework](#) (2017 –)

(Accepted) invited presentations

- Open Science Keynote, IoNS Young Researcher Day, November 18, 2020 (UCLouvain, Belgium)
- Ludwig-Maximilians-Universität, November 27, 2019 (Germany)
- 'Studying self-regulation in the context of health-related behaviors: Theoretical background, research methodology and implications', Doctoral School of Life Science and Medicine and Doctoral School of Social and Behavioural Sciences, September 19 2019 (Ghent Belgium)
- 'Towards open science', PARACAT Summer School, July 15, 2019 (Antwerp, Belgium)
- Workshop 'Cognitive Control and Performance Monitoring', June 13–15, 2019 (Oostduinkerke, Belgium)
- Oslo Inhibition Workshop, May 13–15, 2019 (Oslo, Norway)
- Institute of Psychology, Chinese Academy of Sciences, April 10, 2019 (Beijing, China)
- Workshop 'Mechanisms and Models of Intention', May 28–29, 2018 (Cambridge, UK)
- Keynote BAPS meeting (topic: Open Science), May 18, 2018 (Ghent, Belgium)
- University College London, April 30, 2018 (UK)
- Keynote Expert meeting 'Human performance under multiple cognitive task requirements', Rauischholzhausen Castle (Ebsdorfergrund), April 24–27, 2018 (Germany)
- 24th EPS prize lecture, July 12, 2017 (Reading, UK)
- Workshop 'Mechanisms of Intentions', June 15–16, 2017 (Copenhagen, Denmark)

- Workshop on individual differences in language skills, Max Planck Institute for Psycholinguistics, June 2017 6-7 (Nijmegen, the Netherlands)
- Université Libre de Bruxelles, November 23, 2016 (Belgium)
- 2016 Control Processes meeting, November 11–12, 2016 (San Diego, USA)
- MerseyLune Seminar, October 12, 2016 (Edge Hill University/Hope University, UK)
- Ghent University, April 13, 2016 (Belgium)
- Catholic University of Louvain, December 11, 2015 (Belgium)
- Symposium 'Neurocognitive correlates of Cognitive Control', 19th Conference of the European Society for Cognitive Psychology (ESCOP), 17–20 September, 2015 (Paphos, Cyprus)
- Symposium 'Have We Banished the Homunculus? Dynamic Regulation, Modulation, and Optimization of Cognitive Control', July 17–19, 2015 (TU Dresden, Germany)
- University of Liverpool, March 04, 2015 (UK)
- Symposium 'Intentional Inhibition: Broader Perspectives', January 21, 2015 (Leiden University, the Netherlands).
- Vanderbilt University, September 19, 2014 (Nashville, TN, USA)
- Brown University, September 03, 2014 (Providence, Rhode Island, USA)
- Annual Meeting of the International Society for Research on Impulsivity, July 24, 2014 (Cambridge, UK).
- Aix-Marseille Université, February 28, 2014 (France)
- Bristol University, February 5, 2014 (UK)
- Birkbeck, University of London, November 27, 2013 (UK)
- Plymouth University, October 30, 2013 (UK)
- Keynote 9th Scientific Meeting on Attention, May 8–11 2013 (Palma de Mallorca, Spain).
- East China Normal University (ECNU), November 6–9 2012 (Shanghai, China)
- Zangwill Club, Cambridge University, October 19, 2012 (UK)
- Symposium 'Applications of Associative Learning', 120th Annual Convention of the American Psychological Association (APA), August 02, 2012 (Orlando, FL, USA)
- Learning and Implicit Processes Lab, Ghent University, April 17, 2012 (Belgium)
- Groupe de contact FNRS: Psychopathologie Neuro-Cognitive, December 16, 2011 (Brussels, Belgium)
- CSCA Symposium on Impulsivity and Inhibition, June 30 – July 1, 2011 (Amsterdam, The Netherlands)
- Universität Konstanz, January 11, 2010 (Germany)
- Universiteit van Amsterdam, December 9, 2009 (The Netherlands)
- University of Southampton, October 28, 2009 (UK)
- K.U. Leuven, March 11, 2009 (Belgium)
- Leiden University, January 28, 2009 (The Netherlands)
- University College London, October 7, 2008 (UK)
- Cardiff University, March 10, 2008 (UK)
- Pre-SFN workshop 'Translational Aspects of Stopping Movement and Action', November 2, 2007 (San Diego, USA).
- Institut für Psychologie, RWTH Aachen, March 13, 2006 (Germany)
- Universiteit van Amsterdam, June 23, 2005 (The Netherlands)

Presentations at conferences

- Verbruggen, F. (2018). Control of Impulsive Action. Annual Meeting of Young Academy of Europe, November 28 (Barcelona, Spain).
- Verbruggen, F. (2018). Effects of winning and losing on action control. BAPS meeting, May 18, 2018 (Ghent, Belgium)
- Verbruggen, F. (2017). Impulsivity or restraint after bad outcomes? Data blitz, 2017 Control Processes meeting, October 11–13, 2017 (Amsterdam, Netherlands)
- Verbruggen, F. (2017). Two (seemingly opposing) challenges for cognitive psychology. Paper to be presented at 20th Conference of the European Society for Cognitive Psychology (ESCOP), Potsdam (Germany)

- Verbruggen, F. (2017). Learning at the heart of self-control. Paper presented at 2nd International Convention of Psychological Science, Vienna (Austria)
- Verbruggen, F., McLaren, R., Pereg, M., & Meiran, N. (2016). The development of proactive control and intention-based reflexivity: A cross-sectional study. Paper presented at the 57th Meeting of the Psychonomic Society, Boston (USA)
- Verbruggen, F., & Logan, G.D. (2015). Evidence for capacity sharing when stopping, Paper presented at the 56th Meeting of the Psychonomic Society, Chicago (USA)
- Verbruggen, F. (2015) Effects of losing and winning on approach motivation and decision-making. Paper presented at 19th Conference of the European Society for Cognitive Psychology (ES COP), Paphos (Cyprus)
- Verbruggen, F., & McLaren, IPL. (2015). A Framework for Understanding the Effect of Inhibition Training on Impulse Control. Paper presented at 1st International Convention of Psychological Science, Amsterdam (Netherlands)
- Verbruggen, F. (2014). Proactive and reactive stopping; An attentional account. Paper presented at the Annual Meeting Society for Psychophysiological Research, Atlanta (USA)
- Verbruggen, F. (2014). Repetition priming and associative learning in response-inhibitions tasks: Automaticity of stopping? Paper presented at the Experimental Psychology Society meeting, London (UK).
- Verbruggen, F., Adams, R. Chambers, C.D. (2012). Proactive motor control reduces monetary gambling. Paper presented at the Experimental Psychology Society meeting, Bristol (UK).
- Verbruggen, F. Adams, R. Chambers, C.D. (2011). Do Executive Motor-Control Mechanisms Regulate Monetary Choice And Gambling? Paper presented at the 52th Meeting of the Psychonomic Society, Seattle (USA)
- Verbruggen, F., Adams, R., Chambers, CD. (2011). Low-level motor control biases monetary choice under risk. Paper presented at the The 4th Annual WICN Research Conference, Deganwy, Conwy (Wales, UK)
- Verbruggen, F., Aron, A.R., Stevens, M.A., Chambers, C.D. (2010). Theta burst stimulation dissociates attention and action updating in human inferior frontal cortex. Poster presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona (Spain)
- Verbruggen, F., Aron, A.R., Stevens, M., Chambers, C.D. (2010). Dissociable contributions of human prefrontal cortex in dynamically updating behavior. Paper presented at the CNS 2010 Meeting, Montreal (Canada).
- Verbruggen, F., Aron, A.R., Chambers, C.D. (2009). Dissociating neuro-cognitive components underlying response inhibition using transcranial stimulation of ventrolateral prefrontal cortex. Paper presented at the 50th Annual Meeting of the Psychonomic Society, Boston (USA)
- Verbruggen, F., Chambers, C.D., Aron, A.R. (2009). Dissociating neuro-cognitive components underlying response inhibition using transcranial stimulation of prefrontal cortex. Paper presented at the The 3rd Annual WICN Research Conference, Deganwy, Conwy (Wales, UK)
- Verbruggen, F., & Logan, G.D. (2008). Proactive adjustments of response strategies in the stop-signal paradigm. Paper presented at the 49th Annual Meeting of the Psychonomic Society, Chicago (USA)
- Verbruggen, F., & Logan, G.D. (2007). Control, goals, and memory: automatic inhibition in the go/no-go paradigm. Paper presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach (USA)
- Verbruggen, F., & Logan, G.D. (2007). Cognitive control, task goals, and memory retrieval. Paper presented at the XIV ESCOP Conference, Marseille (France).
- Verbruggen, F., Liefoghe, B., Vandierendonck, A. (2006). After-effects of response inhibition in the stop signal paradigm. Poster presented at the 47th annual meeting of the Psychonomic Society, Houston, Texas (USA).
- Verbruggen, F., Notebaert, W., Liefoghe, B., Vandierendonck, A., & Verguts, T. (2005) Stimulus and response conflict-induced cognitive control in the flanker task. Poster presented at the 46th annual meeting of the Psychonomic Society, Toronto (Canada).

- Verbruggen, F., Notebaert, W., Liefoghe, B. & Vandierendonck A. (2005). Stimulus- and response conflict-induced cognitive control in the flanker task. Paper presented at the Annual Meeting of the Belgian Psychological Society, Brussels (Belgium).
- Verbruggen, F., Liefoghe, B., & Vandierendonck, A. (2004). Selective stopping in task switching: Further evidence for the role of response selection. Poster presented at 'Neuroscience and Cognitive Control' meeting, Ghent (Belgium).
- Verbruggen, F., Liefoghe, B., Szmalec, A., & Vandierendonck, A. (2004). Inhibiting responses when switching: Does it matter? Poster presented at EPOS (Experimenteel Psychologische Onderzoeksschool) meeting: 'Unique and shared processing limitations in dual-task performance', Leiden (the Netherlands).
- Verbruggen, F., Liefoghe, B., & Vandierendonck, A. (2004). Don't bother me, I'm stopping! The effect of perceptual interference on response inhibition. Paper presented at the National Symposium 'Congruency effects: For a better understanding of cognitive control' on the Annual Meeting of the Belgian Psychological Society, Brussels (Belgium).
- Verbruggen, F., & Vandierendonck, A. (2003). The relation between different inhibitory functions: Behavioral evidence. Poster presented at the XIII ESCOP Conference, September 17-20, Granada (Spain).
- Verbruggen, F., Szmalec, A., De Baene, W., & Vandierendonck, A. (2002). Event-related potentials during response selection. Poster presented at the first European Working Memory Symposium, Ghent (Belgium).
- Vandorpe, S. & Verbruggen, F. (2002). Pragmatic reasoning schemas versus social contracts: reasoning with the Wason selection task in adolescents. Paper presented together with Vandorpe S. at the Workshop on Deductive Reasoning, Ghent (Belgium)

In addition, I have presented in several departmental seminars and workshops at Ghent University, Vanderbilt University, Cardiff University, and University of Exeter, and I have co-authored many posters and talks.

Symposium organisation

- 'Making Open Science a Reality', International symposium, Ghent University (21 March, 2019), <https://osf.io/tmpx2>
- 'On the challenges that cognitive psychology currently faces', 20th Conference of the European Society for Cognitive Psychology (ES COP), Potsdam, September 3–6 2017 (co-organised with Jan de Houwer).
- 'Multidisciplinary Perspectives on Self-Control', 2nd International Convention of Psychological Science (ICPS), Vienna, March 23–25 2017
- 'Inhibition training, impulse control, and associative learning', 1st International Convention of Psychological Science, Amsterdam, March 12–14 March 2015 (co-organised with Ian McLaren).
- 'Banishing the stop homunculus from theories of executive control', 54th Annual Meeting Society for Psychophysiological Research, Atlanta, September 10–14, 2014
- 'Executive control of attention, thought, and action', EPS Symposium in honour of Gordon Logan, January 9 2014, London
- 'Cognitive Control and Associative Learning', International workshop, University of Exeter (21–23 June, 2012)

Public engagement activities

- Speaker 'Wetenschappelijke Nascholing' Ghent, 02/02/20 (audience: 1000+)
- Guest speaker opening academic year 2019-2020, Hoger Instituut voor Opvoedkunde (Brussels)
- 'Meeting of Minds for Youth' festival, 2017, 2018, Belgium
- [Breinwijzer](#), Ghent (Belgium), October 20 2016
- Media interviews (e.g. on executive control and addiction)

- 'The mysterious story of self-control', ESRC Social Science Festival, November 8 2014.
- Research presentations and lab tours for schools (QE Crediton, Petroc College Tiverton, Sandford School), societies (e.g. Orde van de Prince, various Probus clubs in Flanders), and for medical doctors & pediatricians (AZ Palfijn, Ghent)

Media coverage

Our research on gambling and overeating has received extensive coverage in the national and international media (e.g. [Time Magazine](#), [BBC News](#), or [Knack Magazine](#)).

Editorial duties

- Associate editor Quarterly Journal of Experimental Psychology (2013– 2019)
- Associate editor Cognitive Psychology (2016–2018)
- Associate editor Experimental Psychology (2011–2016)

Ad hoc reviewing

- **Journals (40+ in total):** E.g. Acta Neuropsychiatrica, Acta Psychologica, Biological Psychiatry, Brain Research, Brain Structure & Function, Cognition, Cognition & Emotion, Cognitive Processing, Cognitive Psychology, Cognitive Affective and Behavioral Neuroscience, Current Biology, Current Directions in Psychological Science, Developmental Psychology, Developmental Science, Drug and Alcohol Dependence, Emotion, European Journal of Cognitive Psychology, Experimental Brain Research, Experimental Psychology, Frontiers in Psychology, Infant and Child Development, International Journal of Psychophysiology, Journal of Clinical and Experimental Neuropsychology, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: Learning, Memory and Cognition, Journal of Cognitive Neuroscience, Journal of Neurophysiology, Journal of Neuroscience, Journal of the Royal Society Interface, Memory and Cognition, Motivation and Emotion, Nature Human Behaviour, Neuropsychologia, PLoS ONE, Progress in Neurobiology, Psychologia, Psychological Research, Psychological Science, Psychology and Aging, Psychonomic Bulletin and Review, Psychophysiology, Quarterly Journal of Experimental Psychology
- **Book proposals:** Psychology Press & Routledge Mental Health Books
- **Research grants:**
 - **External reviewer:** Action Medical Research (UK); Economic and Social Research Council (ESRC, UK); Israel Science Foundation; Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO); the Neurological Foundation of New Zealand; Wellcome Trust (UK); European Research Council (ERC); Deutschen Forschungsgemeinschaft (DFG; Germany); British Academy/Leverhulme Trust (UK); U.S.-Israel Binational Science Foundation; Member ESRC Peer Review College (2012–2015)
 - **Internal reviewer for grants submitted to:** British Academy, ESRC, Royal Society, Wellcome Trust.

Teaching, supervision, and examination

Teaching

- **2019–** : Paradigms of Experimental Psychology (third year bachelor of psychology, main subject: theoretical and experimental psychology), Ghent University
- **2017–** : Supervisor and reviewer of research projects, Ghent University
- **2010–2017:** Supervision undergraduate research projects, University of Exeter
- **2010–2017:** Supervision MSc research projects, University of Exeter

- **2010–2015:** PSYM203/12, Advances and Methods in Cognitive Psychology and Clinical Neuropsychology (one session on transcranial magnetic stimulation), University of Exeter
- **2011–2013:** PSYM201, Advanced statistics (masters programs)
- **2010–2012:** PSY3276, 10-week seminar on Cognitive Control, University of Exeter
- **2010–2012:** PSY2207/12, Cognitive Psychology II Practical, University of Exeter
- **2009:** Instructor TMS workshop WICN Summer School, Cardiff (10–11 Sept. 2009)
- **2008–2010:** Lecturing part of the course 'Psychological Methods', Ghent University
- **2004–2006:** Lecturing part of 'Instrumentarium (C/Tscope)' (C-programming for experimental psychologists), Ghent University
- **2003–2009:** Supervisor and reviewer of research projects, Ghent University
- **2002–2004:** Teaching assistant, 'Psychologische Functieleer II' (*Psychonomics*), Ghent University

Supervision of graduate students

Current

- Main supervisor Charlotte Eben, Ghent University, Belgium
- Co-supervisor Roos Doekemeijer, Ghent University, Belgium
- Co-supervisor Mathias van der Biest, Ghent University, Belgium
- Co-supervisor Lucy Porter, University of Exeter, UK (ESRC studentship)

Completed

- Co-supervisor Will Nicholson, University of Exeter, UK (ESRC studentship)
- Co-supervisor Kathryn Carpenter, University of Exeter, 04/04/2017 (ESRC studentship)
- Supervisor Maisy Best, University of Exeter, 14/10/2016 (ESRC studentship)
- Co-supervisor Will Bowditch, University of Exeter, 09/09/2016 (ESRC studentship)
- Co-supervisor Leah Maizey, Cardiff University, 18/07/2016
- Co-supervisor Rachel Adams, Cardiff University, 19/12/2014
- Co-supervisor Jaimie O'Sullivan (DClin), University of Exeter, 08/07/2014
- Co-supervisor Amy McAndrew, University of Exeter, 07/07/2015 (ESRC studentship)

Examiner Phd theses

Internal examiner (Psychology)

- Heike Elchlepp
- Hannah Filmer
- Charlotte Forrest
- Amanda Clapp
- Cai Longman
- Vincent Hoofs

External examiner

- Sarah Jahfari (University of Amsterdam)
- Charles Hounsell (Cardiff University)
- Samantha Van Beurden (Medical School University of Exeter)
- Zachary Langford (Ghent University)
- Lize Hermans (KU Leuven)
- Liisa Raud (Oslo University)
- Jeggan Tiego (Monash University)
- Karlye A. M. Damaso (University of Newcastle Australia)

Doctoral Guidance committees

- Jonne Oldenburg, Ghent University, Belgium

- Wout Duthoo, Ghent University, Belgium
- Nathalie Schouppe, Ghent University, Belgium
- Ariane Jim, Ghent University, Belgium
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- Cedric Reculez, Ghent University, Belgium
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Memberships and fellowships

- Executive board member of the International Association for the Study of Attention and Performance (2016–)
- Fellow Psychonomic Society
- Member Young Academy of Europe (2017-2022)
- Member of European Society of Cognitive Psychology, Experimental Psychological Society
- Other: Association for Psychological Science (2008-2015), Society for Psychophysiological Research (2014), The Organization for Human Brain Mapping (2010), and Cognitive Neuroscience Society (2010).