

FUNDING

Innovation for Defence Excellence and Security Grant, “Intelligent, Dynamically Adaptive Simulation and Operational Support to Enhance Medical Trauma Response (Phase 1b).”

Department of National Defence, Government of Canada. \$859,780 (October 2020).

Principal Investigator: Paul Hungler

Co-investigators: Daryl Wilson, Daniel Howes, Adam Szulewski, James McLellan, Ali Etemad, Dirk Rodenburg

Enhanced Road Safety Transfer Payment Program, “Looking Under the Hood—Developing InCogNito, an Intelligent, Validated, and User Friendly Real Time Cognitive Load and Expertise Classifier for Road Safety Analysis and Driver Training.” Transport Canada, Government of Canada. \$1,604,886 (applied May, 2021).

Co-Principal Investigators: Paul Hungler, Dirk Rodenburg

Co-Investigators: Daryl Wilson, Daniel Howes, Adam Szulewski, James McLellan, Ali Etemad, Aaron Ruberto, Behnam Bangini, Heather Braund, Rob Theriault

- PSYC970 – Advanced Special Topics in Cognitive Science: Attentional Processes
- 2007 Instructor, Queen’s University
PSYC420 – Advanced Topics in Cognitive Psychology
- 2008 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC220S – Cognitive Psychology (correspondence)
PSYC323 – Laboratory in Attention
PSYC422 – Selected Topics in Attention
- 2009 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC220S – Cognitive Psychology (correspondence)
PSYC422 – Selected Topics in Attention
PSYC970 – Cognitive Control: Theory and Application
- 2010 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC220S – Cognitive Psychology (correspondence)
PSYC323 – Laboratory in Attention
PSYC422 – Selected Topics in Attention
- 2011 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC323 – Visual Cognition Lab
PSYC422 – Selected Topics in Attention
- 2012 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
- 2013 Instructor, Queen’s University
PSYC323 – Visual Cognition Lab
- 2014 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC323 – Visual Cognition Lab
PSYC422/971 (winter) – Selected Topics in Attention
PSYC422/971 (fall) – Selected Topics in Attention

2019 PSYC221S – Cognitive Psychology
PSYC323 – Visual Cognition Lab
Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC422 – Selected Topics in Attention

2020 Instructor, Queen’s University
PSYC221S – Cognitive Psychology
PSYC323 – Visual Cognition Lab

2021 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC221S – Cognitive Psychology
PSYC323 – Visual Cognition Lab
PSYC907 – Cognitive Neuroscience Research Seminar

2022 Instructor, Queen’s University
PSYC203 – Research Methods in Psychology
PSYC221S – Cognitive Psychology
PSYC323 – Visual Cognition Lab
PSYC907 – Cognitive Neuroscience Research Seminar

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AWARDS

- 1997 Academic Gold Medal, Wilfrid Laurier University,
for the best Master's thesis in the Faculty of Arts and Science
- 1997 Governor-General's Academic Medal, Wilfrid Laurier University,
for the highest academic standing in a Master's programme

PUBLICATIONS

1. **Ruberto, A**, Rodenburg, D, Ross, K, Sarkar, P, Hungler, P, Etemad, A, Howes D, Clarke, D, McLellan, J, Wilson, D, & Szulewski, A (April, 2021). The future of simulation based medical education: Adaptive simulation utilizing a deep multitask neural network. *AEM Education and Training*. doi:10.1002/aet2.10605.
2. **Harrison, GW, Kang M**, & Wilson DE (March, 2021). Remembering more than you can say: Examining “amnesia” in attended attributes. *Acta Psychologica*, 214, doi: 10.1016/j.actpsy.2021.103265.
3. **Tan P**, Ensor TM, Hockley WE, **Harrison GW**, & Wilson DE (June, 2020). In support of selective rehearsal: Double-item presentation in item-method directed forgetting. *Psychonomic Bulletin & Review*, 27, 529-535, doi: 10.3758/s13423-020-01723-w.
4. **Rajsic J**, Wilson D. E., Pratt J (April, 2018). The price of information: Increased inspection costs reduce the confirmation bias in visual search. *Quarterly Journal of Experimental Psychology*. 71(4), 832-849, doi: 10.1080/17470218.2016.1278249.
5. **Harrison G, Rajsic J**, & Wilson D. E. (October, 2017). Temporal Trimming: Evidence that common onset masking shortens perceptual sampling of conscious object representations. *Attention, Perception, & Psychophysics*, 79(7), 2171-2178, doi: 10.3758/s13414-017-1384-8.
6. **Rajsic J**, Ouslis N, Wilson D. E., & Pratt J (August, 2017). Looking sharp: Becoming a search template boosts precision and stability in visual working memory. *Attention, Perception, & Psychophysics*. 79(6),1643-1651. doi: 10.3758/s13414-017-1342-5.
7. **Rajsic J**, Swan G, Wilson D. E., & Pratt J (September, 2017). Accessibility limits recall from visual working memory. *Journal of Experimental Psychology: Learning, Memory, & Cognition*. 43(9), 1415-1431, doi: 10.1037/xlm0000387.
8. **Harrison, G. W., Rajsic, J.**, & Wilson, D. E. (February, 2016). Object-Substitution Masking Degrades the Quality of Conscious Object Representations. *Psychonomic Bulletin & Review*, 23(1), 180-186, doi: 10.3758/s13423-015-0875-7.

9. **Rajsic, J.**, Wilson, D. E., & Pratt, J. (October, 2015). Confirmation bias in visual search. *Journal of Experimental Psychology; Human Perception & Performance*, 41(5), 1353-1364. doi: 10.1037/xhp0000090.

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21. Wilson, D. E., Castel, A. D., & Pratt, J. (2006). Long-term inhibition of return for spatial locations: Evidence for a memory retrieval account. *Quarterly Journal of Experimental Psychology*, *59*, 2135-2147.
22. Horton, K. D., Wilson, D. E., Vonk, J., Kirby, S. L., & Nielsen, T. (2005). Measuring automatic retrieval: A comparison of implicit memory, process dissociation, and speeded response procedures. *Acta Psychologica*, *119*, 235-263.
23. Wilson, D. E., & Horton, K. D. (2002). Comparing techniques for estimating automatic retrieval: Effects of retention interval. *Psychonomic Bulletin & Review*, *9*, 566-574.
24. Horton, K. D., Wilson, D. E., & Evans, M. (2001). Measuring automatic retrieval. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *27*, 958-966.
25. Servos, P., Lederman, S., Wilson, D., & Gati, J. (2001). fMRI-derived cortical maps for shape, texture, and hardness. *Cognitive Brain Research*, *12*, 307-313.

BOOK CHAPTERS

1. MacLeod, C.M., Dodd, M. D., Sheard, E. D., Wilson, D. E., & Bibi, U. (2003). In opposition to inhibition. B. H. Ross (Ed.), *The Psychology of Learning and Motivation*, Vol. 43, 163-206.

REFEREED ABSTRACTS

1. **Blumberg, M. J., Harrison, G. W., & Wilson, D. E.** (2021). Examining overt and covert attentional capture by task irrelevant stimuli during a novel continuous performance task. *Journal of Vision*, *21*(9), 2173-2173. doi: 10.1167/jov.21.9.2173
2. **Harrison, G. W., Wood-Ross, C., Best, M., Eriksen, J., Wilson, D. E., Bowie, C.** (2021). Isolating Word Memory

18. Dawson, S. J., **Harrison, G. W., & Wilson, D. E.** (2017, July). *May I Have Your Attention, Please? A Multi-Method Approach to Understanding Attentional Processing of Sexual Cues*. Paper presented at the International Academy of Sex Research. Charleston, South Carolina.
19. **Harrison, G. W., Kang, M., & Wilson, D. E.** (2016, November). *Are non-reported attended attributes really forgotten? Remembering more than you can say*. Poster presented at the 57th annual meeting of the Psychonomic Society, Boston, Massachusetts.
20. **Rajsic, J., Ouslis, N., Wilson, D. E., Pratt, J.** (2016, November). *Looking Sharp: Becoming a search template boosts precision and stability in visual working memory*. Poster presented at the 57th annual meeting of the Psychonomic Society, Boston, Massachusetts.
21. **Kang, M., Harrison, G. W., & Wilson, D. E.** (2016, June). *Remembering more than you can say: Re-* Poster presented at the 26th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Ottawa, Ontario.
22. **Harrison, G. W., & Wilson, D. E.** (2016, June). *Using Stroop to investigate the spatial specificity of visual working memory representations*. Talk presented at the 26th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Ottawa, Ontario.
23. **Britton, E., Harrison, G. W., & Wilson, D. E.** (2015, June). *Comparison of perceptual and working memory distractors on a search task*. Poster /MC/F1 12/n1pfh A.77 559.3ence, Ottawa,

28. **Rajsic, J.**, Wilson, D. E., & Pratt, J. (2015, March) Controlled stimulus selection attenuates confirmation bias in visual search. Poster presented at the *International Convention of Psychological Science*, Amsterdam, Netherlands.
29. Furlano, R., Kelley, E., Hall, L., & Wilson, D. (2014, October). *Self-perception of competencies in adolescents with Attention-Deficit Hyperactivity Disorder*. Poster presented at the Canadian ADHD Resource Alliance Research Day, Toronto, ON.
30. Hall, L., Kelley, E., Wilson, D., Ladwig, E., Furlano, R., & **Rajsic, J.** (2014, October). *Academic achievement is predicted by attention and executive functioning in adolescents with ADHD*. Poster presented at the Canadian ADHD Resource Alliance Research Day, Toronto, ON.
31. Hall, L., Kelley, E., Wilson, D., **Rajsic, J.**, Ladwig, E., & Furlano, R. (2014, July). *Antisaccade saccadic reaction time after completion of videogame training program for individuals with Autism Spectrum Disorder*. Poster presented at Biennial Meeting of the International Society for Developmental Neuroscience. Montreal, QC. doi: 10.1016/j.ijdevneu.2015.04.188
32. **Harrison, G. W., Rajsic, J.**, Wilson, D. E. (2014). *Object-substitution masking reveals the graded nature of conscious perception*. Paper presented at the 24th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Toronto, Ontario.
33. Hall, L., Kelley, E. A., Wilson, D. E., Ladwig, E., Furlano, R., & **Rajsic, J.** (2014, May). *Eye-Tracking Measures of Executive Functioning Correlate with Academic Achievement in Adolescents with ASD*. Paper to be presented at the International Meeting for Autism Research, Atlanta, Georgia.
34. Furlano, R., Kelley, E. A., Hall, L., & Wilson, D. E. (2014, May). *Examining the Causal Mechanisms of Positively-Biased Self-*

38. **Rajsic, J.**, Wilson, D. E., Kelley E., Hall L. & Furlano, R. (2013). Development of a Cognitive Training Program for Treatment of Attentional Difficulties. Paper presented at the 4th Annual Brain Development Conference, Vancouver, British Columbia.
39. **Rajsic, J., Yu, D., & Wilson, D. E.**, (2013). Interactions between remembered visual features and search performance. Paper presented at the 23rd Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Calgary, Alberta.
40. Furlano, R., Kelley, E. A., **Ladwig, E.**, Hall, L., Wilson, D. E. (2013). *Self-perception of competencies in adolescents with attention-deficit hyperactivity disorder and autism spectrum disorders*. Paper presented at the International Meeting for Autism Research, Donostia, Spain.
41. Hall, L., Kelley, E. A., Wilson, D. E., Furlano, R., **Ladwig, E., & Rajsic, J.** (2013). *Attention and executive function as predictors of functional impairments in adolescents with autism spectrum disorder*. Paper presented at the International Meeting for Autism Research, Donostia, Spain.
42. Wilson, D. E., Kelley E., **Ladwig, E., Rajsic, J.**, Hall L. & Furlano S. (2012). *Development of an adaptive cognitive training program for treatment of attentional difficulties*. Paper presented at the 3rd Annual Brain Development Conference, Toronto, Ontario.
43. Kelley, E., Wilson, D. E., **Ladwig, E., Rajsic, J.**, Hall L. & Furlano S. (2012). *Improvements in executive functioning after videogame training*. Paper presented at the 3rd Annual Brain Development Conference, Toronto, Ontario.
44. Furlano, R., Kelley, E. A., **Ladwig, E.**, Hall, L., Wilson, D. E. (2012). *Self-perception of competencies in adolescents with attention-deficit hyperactivity disorder and autism spectrum disorders*. Paper presented at the 3rd Annual Brain Development Conference, Toronto, Ontario.
45. Hall, L., Kelley, E. A., Wilson, D. E., Furlano, R., **Ladwig, E., & Rajsic, J.** (2012). *Attention and executive function as predictors of functional impairments in adolescents with autism spectrum disorder*. Paper presented at the 3rd Annual Brain Development Conference, Toronto, Ontario.
46. **Harrison, G., Rajsic, J.**, Wilson, D. E. (2012). *The effect of cue size on local and global processing*. Paper presented at the 22nd Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Kingston, Ontario.
47. **Yoon, W. S., Rajsic, J.**, Wilson, D. E. (2012). *Impact of visual search training on the efficiency of saccadic deployment*. Paper presented at the 22nd Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Kingston, Ontario.

59. Wilson, D. E. (2009). *Interaction of perception and memory retrieval*. Paper presented at the Summer Workshop on Attention and Performance, Hamilton, Ontario.
60. Wilson, D. E., & **Charbonneau, C.** (2008). *Impact of working memory on a visual search task*. Paper presented at the 18th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, London, Ontario.
61. **Gilbert, D. A. E.**, & Wilson, D. E. (2008). *Independence of attentional control and response control*. Paper presented at the 18th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, London, Ontario.
62. Greenberg, A. S., Wilson, D. E., Serences, J. T., & Yantis, S. (2006). *Sources and Targets of Space-based and Feature-based Attention in Human Cortex*. Paper presented at the 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia.
63. Yantis, S., Greenberg, A. S., & Wilson, D. E. (2006). *Domain-independent mechanisms of cognitive control*. Paper presented at Cognitive Science Association for Interdisciplinary Learning, Hood River, Oregon.
64. Wilson, D. E., Serences, J. T., Greenberg, A. S., & Yantis, S. (2005). *Dissociating task switching components with behavioral and cortical measures*. Paper presented at the 35th Annual Meeting of the Society for Neuroscience, Washington, DC.
65. Greenberg, A. S., Wilson, D. E., Serences, J. T., & Yantis, S. (2005). *Domain-independent attention shift signals in human frontoparietal cortex*. Paper presented at the 35th Annual Meeting of the Society for Neuroscience, Washington, DC.
66. Wilson, D. E., Serences, J. T., & Yantis, S. (2004). *Cortical control of attention and response set in task switching*. Paper presented at the 34th Annual Meeting of the Society for Neuroscience, San Diego, California.
67. Wilson, D. E., & MacLeod, C. M. (2003). *Perceptual load affects memory retrieval*. Paper presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Hamilton, Ontario.
68. Wilson, D. E., Dodd, M. D., & MacLeod, C. M. (2002). *Interaction of target-distractor spatial separability and load on selective attention*. Paper presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Vancouver, British Columbia.
69. Wilson, D. E., Vigneau, F., & Horton, K. D. (2001). *Response time profiles on speeded implicit and speeded explicit memory tasks: Discriminating controlled and automatic retrieval*. Paper presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Quebec City, Quebec.

