

DARYL E. WILSON

Curriculum Vitae

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PERSONAL

Address: Department of Psychology
Queen's University
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EDUCATION

1995 University of Waterloo, Waterloo, Ontario
B.Sc., Major in Psychology

1997 Wilfrid Laurier University, Waterloo, Ontario
M.A., Psychology
Title: *Estimating Automatic Influences of Memory Over Time*
Supervisor: Dr. Keith D. Horton

2003 University of Toronto, Toronto, Ontario
Ph.D., Psychology
Title: *Load Effects on Selective Attention*
Supervisors: Dr. Colin M. MacLeod
Dr. Jay Pratt

ACADEMIC APPOINTMENTS:

2003 – 2006 Postdoctoral fellow, Johns Hopkins University
Supervisor: Dr. Steven Yantis

2006 – present Assistant Professor, Queen's University

FUNDING

Natural Sciences and Engineering Research Council Operating Grant: “Cortical and behavioural aspects of attentional control.” Wilson (PI). (2007-2012).

Leaders Opportunity Fund – Canada Foundation for Innovation and Ontario Research Fund for Research Infrastructure Funding: “Behavioural properties and cortical mechanisms of cognitive control.” Wilson (PI). (2007-2012).

Queen’s University Advisory Research Council Grant: “Functional imaging studies of cognitive control.” Wilson (PI). (2007-2008).

TEACHING

2002	Instructor, University of Toronto PSY375 – Attention and Performance
2006	Instructor, Queen’s University PSYC970 – Advanced Special Topics in Cognitive Science
2007	Instructor, Queen’s University PSYC420 – Advanced Topics in Cognitive Psychology
2008	PSYC203 – Research Methods in Psychology PSYC422 – Selected Topics in Attention

SCHOLARSHIPS

1996 – 1997	Wilfrid Laurier University, Graduate scholarship (\$4,450)
1998 – 2000	Natural Sciences and Engineering Research Council of Canada, Graduate scholarship (total amount awarded: \$38,200)
2000 – 2001	University of Toronto Fellowship (\$7,200)
2001	John Davidson Ketchum Memorial Graduate Award in Psychology, University of Toronto (\$3,300)
2001 – 2002	Ontario Ministry of Training, Colleges and Universities, Ontario Graduate Scholarship (\$15,000)
2001 – 2002	Toronto Western Hospital Research Institute, Vision Science Research Scholarship (\$7,500)
2002 – 2003	Ontario Ministry of Training, Colleges and Universities, Ontario Graduate Scholarship (\$15,000)
2002 – 2003	Toronto Western Hospital Research Institute, Vision Science Research Scholarship (\$9,500)
2003 – 2006	NIDA, Postdoctoral Fellowship (~\$36,000 per year)

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

- Wilson, D. E., & Pratt, J. (2007). Evidence from a response choice task reveals a selection bias in the attentional cueing paradigm. *Acta Psychologica*, *126*, 216-225.
- Yang, L., Hasher, L., & Wilson, D. E. (2007). Synchrony effects in automatic and controlled retrieval. *Psychonomic Bulletin and Review*, *14*, 51-56.
- 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.
- 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.
- 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.
- Wilson, D. E., & Horton, K. D. (2002). Comparing techniques for estimating automatic retrieval: Effects of retention interval. *Psychonomic Bulletin & Review*, *9*, 566-574.
- Horton, K. D., Wilson, D. E., & Evans, M. (2001). Measuring automatic retrieval. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *27*, 958-966.
- Servos, P., Lederman, S., Wilson, D., & Gati, J. (2001). fMRI-derived cortical maps for shape, texture, and hardness. *Cognitive Brain Research*, *12*, 307-313.

MANUSCRIPTS SUBMITTED OR UNDER REVISION

- Wilson, D. E., Muroi, M., & MacLeod, C. M. (submitted). Dilution, not load, affects selective attention. *Journal of Experimental Psychology: Human Perception & Performance*.
- Wilson, D. E., MacLeod, C. M., & Muroi, M. (submitted). Practice in visual search produces decreased capacity demands but increased distraction. *Perception & Psychophysics*.
- Dodd, M. D., & Wilson, D. E. (under revision). Training attention: Interactions between central cues and reflexive attention. *Visual Cognition*.

Sheard, E. D., Dodd, M. D., Wilson, D. E., & MacLeod, C. M. (under revision). *Strategic control in directed forgetting*.

Joordens, S., Wilson, D. E., & Spalek, T. M. (under revision). Turning the process-dissociation procedure inside-out: A new technique for understanding the relation between conscious and unconscious influences. *Consciousness and Cognition*.

MANUSCRIPTS IN PREPARATION (all data collected)

Wilson, D. E., Serences, J. T., Greenberg, A. S., & Yantis, S. *Neural regions involved in the control of perceptual and response conflict*.

Wilson, D. E., Serences, J. T., & Yantis, S. *Cortical control of attention and response set in task switching*.

Wilson, D. E., Dodd, M. D., & MacLeod, C. M. *Load manipulations which fail to affect selective attention*.

Wilson, D. E. & Pratt, J. *Inhibition to return to a previous eccentricity*.

Wilson, D. E. & Vigneau, F. *Discriminant analysis of memory retrieval*.

Wilson, D. E. & MacLeod, C. M. *Effect of load on memory retrieval*.

Greenberg, A. S., Wilson, D. E., Serences, J. T., & Yantis, S. *Common areas involved in the control of spatial attention and feature attention*.

CONFERENCE PRESENTATIONS (as presenting author)

Wilson, D. E., & Pratt, J. (2007). *Motor selection bias in a no-target, response choice version of the attentional cueing paradigm*. Paper presented at the 7th Annual Meeting of the Vision Sciences Society, Sarasota, Florida.

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 Society for Neuroscience, Washington, DC.

Wilson, D. E., Serences, J. T., & Yantis, S. (2004). *Cortical control of attention and response set in task switching*. Paper presented at the Society for Neuroscience, San Diego, California.

- 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.
- Wilson, D. E., Dodd, M. D., & MacLeod, C. M. (2002). *Interaction of target-distractor spatial separability and load on selective attention*. Poster presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Vancouver, British Columbia.
- 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*. Poster presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Quebec City, Quebec.
- Wilson, D. E., Muroi, M., & MacLeod, C. M. (2000). *Different effects of search load and perceptual load on selective attention*. Paper presented at the 41st annual meeting of the Psychonomic Society, New Orleans, Louisiana.
- Wilson, D. E., Muroi, M., & MacLeod, C. M. (2000). *Search load and perceptual load: Opposite influences on selective attention*. Poster presented at the XXVII International Congress of Psychology, Stockholm, Sweden.
- Wilson, D. E., Muroi, M., & MacLeod, C. M. (2000). *Allocation of spare capacity: Opposite effects of search load and perceptual load*. Poster presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Cambridge, England.
- Wilson, D. E., & Horton, K. D. (1999). *Assessing implicit memory and process dissociation estimates of automatic retrieval*. Paper presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Edmonton, Alberta.

CONFERENCE PRESENTATIONS (as co-author)

- Dodd, M. D., Van der Stigchel, S., Wilson, D. E. (2007). *Training attention: Examining interactions between the attentional, motor, and oculomotor systems*. Poster presented at the 7th Annual Meeting of the Vision Sciences Society, Sarasota, Florida.
- 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*. Poster presented at the Society for Neuroscience, Atlanta, Georgia.
- Yantis, S., Greenberg, A. S., & Wilson, D. E. (2006). *Domain-independent mechanisms of cognitive control*. Poster presented at Cognitive Science Association for Interdisciplinary Learning, Hood River, Oregon.

Greenberg, A. S., Wilson, D. E., Serences, J. T., & Yantis, S. (2005). *Domain-independent attention shift signals in human frontoparietal cortex*. Poster presented at the Society for Neuroscience, Washington, DC.

Sheard, E. D., Dodd, M. D., Wilson, D. E., & MacLeod, C. M. (2001). *Evidence in support of a selective rehearsal account of list-method directed forgetting*. Poster presented at the annual meeting of the Psychonomic Society, Orlando, Florida.

Sheard, E. D., Dodd, M. D., Wilson, D. E., Niewiadomski, M. W., & MacLeod, C. M. (2001). *Strategic control of rehearsal in directed forgetting*. Poster presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Quebec City, Quebec.

Joordens, S., Wilson, D. E., & Spalek, T. M. (2001). *Do divisions of attention surgically reduce the likelihood of a stimulus entering consciousness while having no effect on the unconscious processing of the stimulus?* Paper presented at the fifth conference of the Association for the Scientific Study of Consciousness, Durham, North Carolina.

Joordens, S., Wilson, D. E., & Spalek, T. M. (2000). *Turning the process dissociation procedure inside out: A new approach for investigating the relation between controlled and automatic influences*. Paper presented at the 33rd annual meeting of the Society for Mathematical Psychology, Kingston, Ontario.

Muroi, M., Wilson, D. E., & MacLeod, C. M. (2000). *Reducing interference by increasing load: The influence of flanker location and distinctiveness*. Poster presented at the XXVII International Congress of Psychology, Stockholm, Sweden.

Servos, P., Lederman, S., Wilson, D., Gati, J. (1998). *fMRI-derived cortical maps for haptic shape, texture, and hardness*. Poster presented at the Society for Neuroscience, Los Angeles, California.

INVITED PRESENTATIONS

Wilson, D. E. (2002). *Three or four short talks about attention and memory*. Presented at the Ebbinghaus Empire, University of Toronto, Toronto, Ontario.

Wilson, D. E., & Horton, K. D. (1998). *Automatic retrieval as a function of retention interval*. Presented at the Ebbinghaus Empire, University of Toronto, Toronto, Ontario.

PROFESSIONAL Affiliations

Society for Neuroscience
Association for Psychological Science
Canadian Society for Brain, Behaviour, and Cognitive Science

Vision Sciences Society

AD HOC REVIEWER

Memory and Cognition
Psychonomic Bulletin & Review
Canadian Journal of Experimental Psychology