

Darryl W. Schneider

Curriculum Vitae (Internet Version)

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Online Contact Information

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Education and Employment

1999–2003 B.Sc. (Honors) in Psychology, University of Alberta (Advisor: Peter Dixon)
2003–2008 Ph.D. in Psychology, Vanderbilt University (Advisor: Gordon D. Logan)
2008– Postdoctoral Researcher, Carnegie Mellon University (Advisor: John R. Anderson)

Publications

Peer-reviewed journal articles

1. **Schneider, D. W.**, & Logan, G. D. (2005). Modeling task switching without switching tasks: A short-term priming account of explicitly cued performance. *Journal of Experimental Psychology: General*, *134*, 343–367.
2. **Schneider, D. W.**, & Logan, G. D. (2006). Priming cue encoding by manipulating transition frequency in explicitly cued task switching. *Psychonomic Bulletin & Review*, *13*, 145–151.
3. Logan, G. D., & **Schneider, D. W.** (2006). Interpreting instructional cues in task switching procedures: The role of mediator retrieval. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *32*, 347–363.
4. Logan, G. D., & **Schneider, D. W.** (2006). Priming or executive control? Associative priming of cue encoding increases “switch costs” in the explicit task-cuing procedure. *Memory & Cognition*, *34*, 1250–1259.
5. **Schneider, D. W.**, & Logan, G. D. (2006). Hierarchical control of cognitive processes: Switching tasks in sequences. *Journal of Experimental Psychology: General*, *135*, 623–640.
6. **Schneider, D. W.**, & Logan, G. D. (2007). Defining task-set reconfiguration: The case of reference point switching. *Psychonomic Bulletin & Review*, *14*, 118–125.
7. **Schneider, D. W.**, & Logan, G. D. (2007). Task switching versus cue switching: Using transition cuing to disentangle sequential effects in task-switching performance. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *33*, 370–378.
8. Arrington, C. M., Logan, G. D., & **Schneider, D. W.** (2007). Separating cue encoding from target processing in the explicit task-cuing procedure: Are there “true” task switch effects? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *33*, 484–502.

9. Logan, G. D., **Schneider, D. W.**, & Bundesen, C. (2007). Still clever after all these years: Searching for the homunculus in explicitly cued task switching. *Journal of Experimental Psychology: Human Perception and Performance*, *33*, 978–994.
10. **Schneider, D. W.** (2007). Task-set inhibition in chunked task sequences. *Psychonomic Bulletin & Review*, *14*, 970–976.
11. **Schneider, D. W.**, & Logan, G. D. (2007). Retrieving information from a hierarchical plan. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *33*, 1076–1091.
12. Verbruggen, F., **Schneider, D. W.**, & Logan, G. D. (2008). How to stop and change a response: The role of goal activation in multitasking. *Journal of Experimental Psychology: Human Perception and Performance*, *34*, 1212–1228.
13. **Schneider, D. W.**, & Verbruggen, F. (2008). Inhibition of irrelevant category–response mappings. *Quarterly Journal of Experimental Psychology*, *61*, 1629–1640.
14. **Schneider, D. W.**, & Logan, G. D. (2009). Selecting a response in task switching: Testing a model of compound cue retrieval. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *35*, 122–136.
15. **Schneider, D. W.**, & Dixon, P. (2009). Visuospatial cues for reinstating mental models in working memory during interrupted reading. *Canadian Journal of Experimental Psychology*, *63*, 161–172.
16. **Schneider, D. W.**, & Logan, G. D. (2010). The target of task switching. *Canadian Journal of Experimental Psychology*, *64*, 129–133.
17. Logan, G. D., & **Schneider, D. W.** (2010). Distinguishing reconfiguration and compound-cue retrieval in task switching. *Psychologica Belgica*, *50*, 413–433.
18. **Schneider, D. W.**, & Anderson, J. R. (2010). Asymmetric switch costs as sequential difficulty effects. *Quarterly Journal of Experimental Psychology*, *63*, 1873–1894.
19. **Schneider, D. W.**, & Logan, G. D. (2011). Task-switching performance with 1:1 and 2:1 cue–task mappings: Not so different after all. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *37*, 405–415.
20. **Schneider, D. W.**, & Anderson, J. R. (2011). A memory-based model of Hick’s law. *Cognitive Psychology*, *62*, 193–222.
21. **Schneider, D. W.**, & Anderson, J. R. (2012). Modeling fan effects on the time course of associative recognition. *Cognitive Psychology*, *64*, 127–160.
22. Anderson, J. R., Fincham, J. M., **Schneider, D. W.**, & Yang, J. (2012). Using brain imaging to track problem solving in a complex state space. *NeuroImage*, *60*, 633–643.

Book chapters

- Schneider, D. W.**, & Logan, G. D. (2009). Task switching. In L. R. Squire (Ed.), *Encyclopedia of neuroscience* (Vol. 9, pp. 869–874). Oxford: Academic Press.

Presentations

Conference presentations

1. Dixon, P., & **Schneider, D.** (2002, May). *Working memory and memory for reference*. Paper presented at the 12th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Vancouver, Canada.
2. **Schneider, D.**, & Dixon, P. (2003, May). *Pictures can support situation models in working memory following interruption of reading*. Poster presented at the Banff Annual Seminar In Cognitive Science, Banff, Alberta, Canada.
3. **Schneider, D.**, & Dixon, P. (2003, June). *Referential representations of text and pictures in working memory*. Poster presented at the 13th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Hamilton, Ontario, Canada.
4. Dixon, P., Glover, S., & **Schneider, D. W.** (2003, November). *Visual information, memory, and the control of reaching*. Paper presented at the 44th annual meeting of the Psychonomic Society, Vancouver, Canada.
5. **Schneider, D. W.**, & Dixon, P. (2004, January). *Visuo-spatial representations in narrative comprehension*. Paper presented at the Winter Conference on Discourse, Text, and Cognition, Jackson Hole, WY.
6. **Schneider, D. W.**, & Logan, G. D. (2004, June). *A priming account of task switching performance in the explicit task-cuing procedure*. Paper presented at the 14th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, St. John's, Newfoundland, Canada.
7. **Schneider, D. W.**, & Logan, G. D. (2004, November). *A priming account of explicitly cued task switching*. Poster presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.
8. **Schneider, D. W.**, & Logan, G. D. (2005, July). *Switching tasks in sequences*. Paper presented at the 15th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Montréal, Canada.
9. **Schneider, D. W.**, & Logan, G. D. (2005, November). *Hierarchical control of cognitive processes in task switching*. Poster presented at the 46th annual meeting of the Psychonomic Society, Toronto, Canada.
10. Arrington, C. M., Logan, G. D., & **Schneider, D. W.** (2005, November). *Separating cue encoding from task performance in task switching*. Poster presented at the 46th annual meeting of the Psychonomic Society, Toronto, Canada.
11. **Schneider, D. W.**, & Logan, G. D. (2006, November). *Defining task-set reconfiguration: The case of reference point switching*. Poster presented at the 47th annual meeting of the Psychonomic Society, Houston, TX.
12. **Schneider, D. W.** (2007, June). *Task-set inhibition in chunked task sequences*. Paper presented at the 17th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Victoria, British Columbia, Canada.
13. **Schneider, D. W.**, & Logan, G. D. (2007, June). *The dynamics of retrieval from a hierarchical control structure*. Poster presented at the 17th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Victoria, British Columbia, Canada.

14. Logan, G. D., & **Schneider, D. W.** (2007, August). *Plans and the structure of behavior*. Paper presented at the 13th annual meeting of the Cognitive Science Association for Interdisciplinary Learning, Hood River, OR.
15. Logan, G. D., & **Schneider, D. W.** (2007, September). *Get ready, get set for task set*. Paper presented at the 15th conference of the European Society for Cognitive Psychology, Marseille, France.
16. **Schneider, D. W.** (2007, November). *Task-set inhibition in chunked task sequences*. Poster presented at the 48th annual meeting of the Psychonomic Society, Long Beach, CA.
17. Logan, G. D., & **Schneider, D. W.** (2007, November). *Hierarchical plans can produce non-hierarchical behavior*. Paper presented at the 48th annual meeting of the Psychonomic Society, Long Beach, CA.
18. Dixon, P., **Schneider, D. W.**, & Duffels, B. (2009, July). *Spontaneous task switching*. Paper presented at the 19th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, York, United Kingdom.
19. **Schneider, D. W.**, & Anderson, J. R. (2009, November). *Asymmetric switch costs as sequential difficulty effects*. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
20. **Schneider, D. W.**, & Anderson, J. R. (2010, November). *A memory-based model of Hick's law*. Paper presented at the 51st annual meeting of the Psychonomic Society, St. Louis, MO.
21. **Schneider, D. W.**, & Anderson, J. R. (2011, November). *Modeling fan effects on the time course of associative recognition*. Paper presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA.

Invited symposium talks

Schneider, D. W., & Logan, G. D. (2009, May). *Selecting a response in task switching*. Paper presented in a symposium on cognitive control at the 81st annual meeting of the Midwestern Psychological Association, Chicago, IL.

Invited colloquia

Schneider, D. W. (2004, July). *A short-term priming account of explicitly cued performance in task switching*. Department of Psychology, University of Alberta, Edmonton, Alberta, Canada.

Schneider, D. W. (2010, November). *A memory-based model of Hick's law*. Department of Psychology, Lehigh University, Bethlehem, PA.

Scholarships, Awards, and Honors

1999	ProGas Academic Excellence Scholarship, University of Alberta
1999	Rutherford Scholarship, Alberta Provincial Government
1999–2003	Dean's Honor Roll, University of Alberta (4 consecutive years)
2000–2002	Jason Lang Scholarship, Alberta Provincial Government (3 times)

2001	Faculty of Science Scholarship for Continuing Students in Third Year, University of Alberta
2002	MacEachran Humanities Scholarship in Psychology, University of Alberta
2002–2003	NSERC Undergraduate Student Research Award (2 times)
2003	Dean's Silver Medal in Science, University of Alberta
2003	NSERC PGS-A Scholarship (declined)
2003–2008	University Fellowship and Tuition Scholarship, Vanderbilt University
2003–2008	Arts & Sciences Select Scholarship, Vanderbilt University
2004	NSERC Canada Graduate Scholarship—Master's (declined)
2004	Hebb Student Award for Best Paper Presentation, 14th annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science
2004–2007	Graduate School Travel Grant, Vanderbilt University (5 times)
2005	NSERC PGS-D3 Scholarship (declined)
2006	William F. Hodges Teaching Assistant Award, Vanderbilt University
2006	Learning Sciences Institute Award for Excellence in Graduate Student Research, Vanderbilt University
2007	Pat Burns Memorial Graduate Student Research Award, Vanderbilt University

University Service and Teaching Experience

Department of Psychology, Vanderbilt University

2004	Teaching assistant to Thomas J. Palmeri (Principles of Experimental Design)
2005	Teaching assistant to Jeffery J. Franks (Quantitative Methods)
2005	Teaching assistant to Adriane E. Seiffert (Principles of Experimental Design)
2006	Teaching assistant to Jeffery J. Franks (Quantitative Methods)
2006–2007	Ad hoc tutor, grader, and lab instructor (Quantitative Methods)
2007	Guest lecturer for Gordon D. Logan (Attention Honors Seminar)
2007	Honors thesis committee member for Kathryn Michel
2008	Honors thesis committee member for Kate Livesay

Department of Psychology, Carnegie Mellon University

2009, 2011	Guest lecturer for John R. Anderson (Expertise and Skill Acquisition)
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Professional Service

Ad hoc reviewer for the following journals (21 journals; 80 reviews):

Acta Psychologica • *Attention, Perception, & Psychophysics* • *Canadian Journal of Experimental Psychology* • *Cerebral Cortex* • *Cognition* • *Cognition and Emotion* • *Cognitive Psychology* • *Cognitive Science* • *Developmental Psychology* • *Educational Psychology* • *Experimental Psychology* • *Journal of Experimental Psychology: General* • *Journal of Experimental Psychology: Human Perception and Performance* • *Journal of Experimental Psychology: Learning, Memory, and Cognition* • *Journal of Experimental Social Psychology* • *Memory & Cognition* •

Psychological Research • Psychological Review • Psychological Science • Psychonomic Bulletin & Review • Quarterly Journal of Experimental Psychology

Professional Affiliations

2002–2009 Canadian Society for Brain, Behaviour, and Cognitive Science
2004– Association for Psychological Science
2009– Psychonomic Society