

RICHARD SCHWEICKERT  
Vita

Office Address: Department of Psychological Sciences  
Purdue University  
West Lafayette, IN 47907 USA  
(765)-494-7986; schweick@purdue.edu

Professional Experience:

8/92-Present Professor; Department of Psychological Sciences,  
Purdue University.

Taught: Cognition (Graduate and Undergraduate)  
Elementary Psychology for Science and Engineering Students  
Elementary Psychology (Honors Section)  
Human Factors  
Introduction to Mathematical Psychology  
Mathematical Modeling for Social Scientists  
Psychology of Consciousness  
Quantitative Psychology (Honors Section)  
Scaling and Measurement  
Statistics (Graduate and Undergraduate)

6/84-7/92 Associate Professor.

9/79-5/84 Assistant Professor.

9/78-8/79 Visiting Assistant Professor.

9/77-12/77 Instructor; Olivet College, Olivet, Michigan

Taught: Cognition & Perception  
Human Information Processing Laboratory

9/73-6/75 Teaching Fellow; Department of Psychology,  
University of Michigan

Taught: Psychology as a Natural Science  
Elementary Laboratory

9/71-6/72 Associate Instructor; Department of Mathematics, Indiana University.  
and Taught: Calculus

9/68-6/69

1/70-9/71 Statistician and Programmer; Biometric Laboratory,  
Bellevue Psychiatric Hospital, New York, N. Y.

7/69-12/69 Patient Escort; Bellevue Psychiatric Hospital, New York, N. Y.

Education: Ph.D. (1979) University of Michigan (Psychology)  
 M.A. (1972) Indiana University (Mathematics)  
 B.A. (1968) University of Santa Clara (Mathematics, Honors)

Grants Received:

Rackham Dissertation Grant (University of Michigan).  
 XL Grant, Purdue University, Summer 1981.  
 NSF Grant No. IST-8110535. Analysis of Reaction Times Using Scheduling Theory. Sept. 1981-Feb. 1984.  
 NIMH Grant No. 1 R01 MH35757-01 BBP. Analysis of Reaction Times Using Scheduling Theory.  
 The two grants above were offered at the same time; the NSF grant was accepted.

NSF Grant No. IST-8110535. Analysis of Reaction Times Using Scheduling Theory.  
 NIMH Grant No. 1 R01 MH38675-01. Analysis of Reaction Times Using Scheduling Theory. Sept. 1983-Aug. 1986.  
 The two grants above were offered at the same time; the NIMH grant was accepted.

XL Grant, Purdue University, Summer 1985.  
 NIMH Grant No. 1 R01 MH41452. Memory Span and Trace Duration. May 1987-May 1989.  
 NSF Grant No. DBS-9123865. Latent Network Analysis of Central Processing. July 1992-June 1996.  
 NSF Grant No. SBR-9601465. Latent Network Analysis of Central Processing. August 1996-July 2000.  
 AFOSR Grant No. FA9550-06-0383. Planning and Scheduling in Human Machine Interaction. Feb. 2006-Feb 2009.  
 AFOSR Grant No. FA9550-09-1-0252. Causal Networks with Selectively Influenced Components. Mar 2009-Jan 2012. With Co-Equal PI Ehtibar Dzhafarov.

Editorial Boards:

Editor: *Journal of Mathematical Psychology* (2001-2004).  
 Associate Editor: *Psychonomic Bulletin & Review* (1993-1998).  
 Consulting Editor: *Journal of Experimental Psychology: Learning, Memory, and Cognition* (1985-1989, 1991-1994).  
 Board of Editors: *Journal of Mathematical Psychology* (1986-1994, 2005-2014).  
 Editorial Advisory Board: *Journal of Mathematical Psychology* (2015- )



Publications:

Refereed Journals:

Schweickert, R. (1978). A critical path generalization of the additive factor method: Analysis of a Stroop task. *Journal of Mathematical Psychology*, 18, 105-139.

Schweickert, R. (1980). Critical path scheduling of mental processes in a dual task. *Science*, 209, 704-706.

Schweickert, R. (1982). The bias of an estimate of coupled slack in stochastic PERT networks. *Journal of Mathematical Psychology*, 26, 1-12.

Schweickert, R. (1983). Latent network theory: Scheduling of processes in sentence verification and the Stroop effect. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 9, 353-383.

Schweickert, R. (1983). Synthesizing partial orders given comparability information: Partitive sets and slack in critical path networks. *Journal of Mathematical Psychology*, 27, 261-276.

Schweickert, R., & Boggs, G. (1984). Models of central capacity and concurrency. *Journal of Mathematical Psychology*, 28, 121-176.

Schweickert, R. (1985). Separable effects of factors on speed and accuracy: Memory scanning, lexical decision, and choice tasks. *Psychological Bulletin*, 97, 530-546.

Schweickert R., & Boruff, B. (1986). Short term memory capacity: Magic number or magic spell? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 12, 419-425.

Schweickert, R., Burton, A. M., Taylor, N. K., Corlett, E. N., Shadbolt, N. R., & Hedgecock, A. P. (1987). Comparing knowledge elicitation techniques: A case study. *Artificial Intelligence Review*, 1, 245-253.

Schweickert, R., Dahn, C., & McGuigan, K. (1988). Intensity and number of alternatives in hue identification: Pieron's law and choice reaction time. *Perception & Psychophysics*, 44, 383-389.

Townsend, J. T., & Schweickert, R. (1989). Toward the trichotomy method of reaction times: Laying the foundation of stochastic mental networks. *Journal of Mathematical Psychology*, 33, 309-327.

Schweickert, R., & Townsend, J. T. (1989). A trichotomy: Interactions of factors prolonging sequential and concurrent mental processes in stochastic discrete mental (PERT) networks. *Journal of Mathematical Psychology*, 33, 328-347.

- Schweickert, R. (1989). Separable effects of factors on activation functions in discrete and continuous models:  $d'$  and evoked potentials. *Psychological Bulletin*, *106*, 318-328.
- Schweickert, R., Guentert, L., & Hersberger, L. (1990). Phonological similarity, pronunciation rate, and memory span. *Psychological Science*, *1*, 74-77.
- Schweickert, R. (1992). Constructing a stochastic critical path network given the slacks: Representation. *Mathematical Social Sciences*, *23*, 343-366.
- Schweickert, R. (1993). A multinomial processing tree model for degradation and reintegration in immediate recall. *Memory & Cognition*, *21*, 168-175.
- Schweickert, R. and Wang, Z. (1993). Effects on response time of factors selectively influencing processes in acyclic task networks with OR gates. *British Journal of Mathematical and Statistical Psychology*, *46*, 1-30.
- Schweickert, R., McDaniel, M., & Riegler, G. (1994). Effects of generation on immediate memory span and delayed unexpected free recall. *Quarterly Journal of Experimental Psychology*, *47A*, 781-804.
- Dzhafarov, E. N., & Schweickert, R. (1995). Decompositions of response times: An almost general theory. *Journal of Mathematical Psychology*, *39*, 285-314.
- Dutta, A., Schweickert, R., Choi, S., & Proctor, R. W. (1995). Cross-task cross talk in memory and perception. *Acta Psychologica*, *90*, 49-62.
- Hulme, C., Roodenrys, S., Schweickert, R., Brown, G. D. A., Martin, S., & Stuart, G. (1997). Word-frequency effects on short-term memory tasks: Evidence for a reintegration process in immediate serial recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *23*, 1217-1232.
- Ehrenstein, A., Schweickert, R., Choi, S., Proctor, R. W. (1997). Scheduling processes in working memory: Instructions control the order of memory search and mental arithmetic. *The Quarterly Journal of Experimental Psychology*, *50A*, 766-802.
- Schweickert, R., & Giorgini, M. (1999). Response time distributions: Some simple effects of factors selectively influencing mental processes. *Psychonomic Bulletin & Review*, *6*, 269-288.
- Schweickert, R., Chen, S., & Poirier, M. (1999). Reintegration and the useful lifetime of the verbal memory representation. *International Journal of Psychology*, *74*, 447-453.
- Schweickert, R., Giorgini, M., & Dzhafarov, E. (2000). Selective influence and response time cumulative distribution function in serial-parallel task networks. *Journal of Mathematical Psychology*, *44*, 504-535.

- Li, X., Schweickert, R., & Gandour, J. (2000). The phonological similarity effect in immediate recall: Positions of shared phonemes. *Memory & Cognition*, *28*, 1116-1125.
- Schweickert, R., Fisher, D. L., & Proctor, R. W. (2003). Steps toward building mathematical and computer models from cognitive task networks. *Human Factors*, *45*, 77-103.
- Lien, M.C., Schweickert, R., & Proctor, R. W. (2003). Task switching and response correspondence in the psychological refractory period paradigm. *Journal of Experimental Psychology: Human Perception and Performance*, *29*, 692-712.
- Chen, S., & Schweickert, R. (2004). Predicting immediate recall of lists with products of probabilities. *Journal of Mathematical Psychology*, *48*, 135-154.
- Dzhafarov, E. N., Schweickert, R., & Sung, K. (2004). Mental architectures with selectively influenced but stochastically interdependent components. *Journal of Mathematical Psychology*, *48*, 51-64.
- Poirier, M., Schweickert, R., & Oliver, J. (2005). Silent reading rate and memory span. *Memory*, *13*, 380-387.
- Schweickert, R. (2007). Properties of the organization of memory for people: Evidence from dream reports. *Psychonomic Bulletin & Review*, *14*, 270-276.
- Schweickert, R., Fortin, C., & Sung, K. (2007.). Parallel visual search and time reproduction. *Journal of Mathematical Psychology*, *51*, 99-121.
- Schweickert, R., & Chen, S. (2008). Tree inference with factors selectively influencing processes in a processing tree. *Journal of Mathematical Psychology*, *52*, 158-183.
- Schweickert, R., & Xi, Z. (2010). Metamorphosed characters in dreams: Constraints of conceptual structure and amount of Theory of Mind. *Cognitive Science*, *34*, 665-684.
- Fortin, C., Schweickert, R., Gaudreault, R., & Viau-Quesnel, C. (2010). Timing is affected by demands in memory search, but not by task switching. *Journal of Experimental Psychology: Human Performance and Cognition*, *36*, 580-595.
- Schweickert, R., Fisher, D. L., & Goldstein, W. M. (2010). Additive factors and stages of mental processes in task networks. *Journal of Mathematical Psychology*, *54*, 405-414.
- Schweickert, R., & Xi, Z. (2011). Multiplicatively interacting factors selectively influencing parameters in multiple response class processing and rate trees. *Journal of Mathematical Psychology*, *55*, 348-364.

- Schweickert, R., Han, H. J., Yamaguchi, M., & Fortin, C. (2014) Estimating averages from distributions of tone durations. *Attention, Perception & Psychophysics*, 76, 605-620. DOI: 10.3758/s13414-013-0591-1
- Schweickert, R., Fortin, C., Xi, Z., & Viau-Quesnel, C. (2014). Parallel effects of memory set activation and search on timing and working memory capacity. *Frontiers in Psychology*, 5, Article Number 779. DOI: 10.3389/fpsyg.2014.00779
- Han, H. J., Schweickert, R., Xi, Z., & Viau-Quesnel, C. (2016). The cognitive social network in dreams: Transitivity, assortativity, and giant component proportion are monotonic. *Cognitive Science*, 40, 671-696. DOI: 10.1111/cogs.12244
- Schweickert, R., & Han, H. J. (2016). Two topics in Tree Inference: Locating a phonological network effect in immediate recall and arborescence partitive set form. *Journal of Mathematical Psychology*, 71, 7-21.
- Han, H. J., & Schweickert, R. (2016). Continuity: Knowing Each Other, Emotional Closeness, and Appearing Together in Dreams. *Dreaming*, 26, 299-307.
- Fortin, C., & Schweickert, R. (2016). Timing, working memory and expectancy: A review of interference studies. *Current Opinion in Behavioral Sciences*, 8, 67-72.
- Benham, S., Goffman, L., & Schweickert, R. (2018) An application of network science to phonological sequence learning in children with developmental language disorder. *Journal of Speech, Language, and Hearing Research*. doi:10.1044/2018\_JSLHR-L-18-0036.
- Schweickert, R., & Zheng, X. (2018). Tree Inference: Selective influence in multinomial processing trees with supplementary measures such as response time. *Journal of Mathematical Psychology*, 86, 10-29. [doi.org/10.1016/j.jmp.2018.07.001](https://doi.org/10.1016/j.jmp.2018.07.001)
- Schweickert, R., & Zheng, X. (2019). Tree Inference: Uniqueness of multinomial processing trees representing response time when two factors selectively influence processes. *Journal of Mathematical Psychology*, 88, 58-77. <http://dx.doi.org/10.1016/j.jmp.2018.12.001>.
- Schweickert, R., & Zheng, X. (2019). Tree Inference: Response time in Multinomial Processing Trees, representation and uniqueness of parameters. *Journal of Mathematical Psychology*, 91, 51-69.
- Schweickert, R., & Zheng, X. (2019). Multinomial processing trees with response times: Changing speed and accuracy by selectively influencing a vertex. *Journal of Mathematical Psychology*, 92, 102254. <https://doi.org/10.1016/j.jmp.2019.02.005>.

#### Refereed Publications Not in Journals:

- Schweickert, R., & Fisher, D. L. (1987). Stochastic network models. In G. Salvendy (Ed.), *Handbook of Human Factors/Ergonomics* (pp. 1177-1211). New York: John Wiley and Sons.
- Schweickert, R. (1992). Time, information, and the structure of mental events: A twenty-five year review. In D. Meyer & S. Kornblum (Eds.), *Attention & Performance, XIV: Synergies in Experimental Psychology, Artificial Intelligence, and Cognitive Neuroscience--A Silver Jubilee*. Cambridge, MA: MIT Press.

#### Books:

- Leverage, P., Mancing, H., Schweickert, R., & William, J. M. (Eds.) (2011). *Theory of mind and literature*. West Lafayette, IN: Purdue University Press.
- Schweickert, R., Fisher, D. L., & Sung, K. (2012). *Discovering cognitive architecture by selectively influencing mental processes*. Singapore: World Scientific.

#### Book Chapters and Other Publications:

- Schweickert, R. (1984). The representation of mental activities in critical path networks. *Annals of the New York Academy of Science*, 423, 82-95.
- Townsend, J. T., & Schweickert, R. (1985). Interactive effects of factors affecting processes in stochastic PERT networks. In G. d'Ydewalle (Ed.), *Cognition, information processing, and motivation*. Amsterdam: North Holland.
- Schweickert, R., & Hayt, C. (1988). Short-term memory load and pronunciation rate. In J. R. Comstock (Ed.), *Mental-state estimation*. (NASA conference Publication 2504).
- Schweickert, R., Dahn, C., & McGuigan, K. (1989). Inferring mental process organization from reaction times. In D. Vickers & P. L. Smith (Eds.), *Human information processing: Measures, mechanisms, and models*. Amsterdam: North-Holland, pp. 325-333.
- Schweickert, R., Guentert, L., & Hersberger, L. (1989). Neural network models of memory span. *Proceedings of the Eleventh Annual Conference of the Cognitive Science Society*, Hillsdale, NJ: Erlbaum, pp. 852-859.
- Schweickert, R., Hayt, C., Hersberger, L., & Guentert, L. (1996). How many words can be held in working memory? A model and a method. In S. Gathercole (Ed.), *Models of short-term memory*. East Sussex, UK: Erlbaum (UK).



- Schweickert, R., & Mounts, J. (1998). Additive effects of factors on reaction time and evoked potentials in continuous flow models. In F. S. Roberts, C. Dowling & P. Theuns (Eds.), *Progress in Mathematical Psychology*. Mahwah, NJ: Erlbaum, pp. 311-329.
- Schweickert, R., Chen, S., & Poirier, M. (1999). Redintegration and the useful lifetime of the verbal memory representation. In I. Neath, G. D. A. Brown, M. Poirier & C. Fortin (Eds.), *Short-term/working memory*. East Sussex, UK: Psychology Press (pp. 447-453).
- Schweickert, R. (2001). Network models of tasks. In A.A.J. Marley (Ed.), *International encyclopedia of the social and behavioral sciences, 7: Mathematics and Computer Sciences*. Oxford, UK: Pergamon.
- Schweickert, R. (2001). Additive factor models. In A.A.J. Marley (Ed.), *International encyclopedia of the social and behavioral sciences, 7: Mathematics and Computer Sciences*. Oxford, UK: Pergamon.
- Poirier, M., & Schweickert, R. (2005). Silent reading rate and memory span. In I. Neath, G. D. A. Brown, M. Poirier & C. Fortin (Eds.), *Short-term/working memory*. East Sussex, UK: Psychology Press.
- Fisher, D. L., Schweickert, R., Drury, C. (2006). Mathematical models in engineering psychology: Optimizing performance. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics*, 3rd ed. Hoboken, NJ: Wiley (pp 997-1024).
- Schweickert, R. (2007). The structure of semantic and phonological networks and the structure of a social network in dreams. In J. S. Nairne (Ed.), *The foundations of remembering: Essays in honor of Henry L. Roediger III*. East Sussex, UK: Psychology Press., (pp. 283-298).
- Schweickert, R. (2007). Social networks of characters in dreams. In P. McNamara & D. Barrett (Eds.), *The new science of dreaming*. NY: Praeger Publications (pp. 277-298).
- Han, H. J., Viau-Quesnel, C., Xi, Z., Schweickert, R., & Fortin, C. (2010). Self-timing in memory and visual search tasks. In Bastianelli, Alessia, & Vidotto, Giulio (Eds.) Fechner Day 2010. *Proceeding of the 26th Annual Meeting of the International Society for Psychophysics*, Padua, Italy: The International Society for Psychophysics, 363-368.
- Schweickert, R., & Xi, Z. (2011) Theory of mind and metamorphoses in dreams: Dr. Jekyll and Mr. Hyde and The metamorphosis. In P. Leverage, H. Mancing, R. Schweickert & J. William (Eds.), *Theory of Mind and Literature*, West Lafayette, IN: Purdue University Press, (pp. 219-228).
- Schweickert, R. (2012). Social network analysis of dream content. In D. Barrett and P. McNamara (Eds.), *Encyclopedia of Sleep and Dreams*, NY: Praeger Press.

- Fisher, D. L., Schweickert, R., Drury, C. (2012). Mathematical models in engineering psychology: Optimizing performance. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics*, 4 th ed. Hoboken, NJ: Wiley (pp 997-1024).
- Schweickert, R. (2015). Network Models of Tasks. In: James D. Wright (Ed.), *International Encyclopedia of the Social & Behavioral Sciences*, 2nd edition, Vol 16. Oxford: Elsevier. pp. 540–545.
- Schweickert, R., & Han, H. J. (2016). Uniqueness of a multinomial processing tree constructed by knowing which pairs of processes are ordered. In J. W. Houpt & L. M. Blaha (Eds.), *Mathematical models of perception and cognition: A Festschrift for James T. Townsend* (Vol. 1, pp. 65-76). NY: Routledge.
- Schweickert, R., Han, H., Xi, Z., & Viau\_Quesnel, C. (2020) Dreaming as a Random Walk through the Dreamer's Associative Network. In M. Vitevitch Ed.), *Network science in cognitive psychology* (pp. 80-96). NY:Routledge.
- Yamaguchi, M., & Schweickert, R. (In press). Response time measures in memory research. In H. Otani and B. Schwartz (Eds.) *Research methods in human memory*.

#### Book Reviews:

- Schweickert, R. (1986). [Review of *Human computer interaction*]. *Applied Ergonomics*, 17, 222.
- Schweickert, R. (1987). [Review of *Working memory*]. *Contemporary Psychology*, 32, 940-942.
- Schweickert, R. (1988). [Review of *Response times: Their role in inferring elementary mental organization.*] *Contemporary Psychology*, 33, 524-525.

#### Invited Talks:

- Schweickert, R. (1982). Scheduling of decisions in critical path networks of mental processes. Symposium on Temporal Models of Cognitive Processing, Mathematical Psychology Meeting.
- Schweickert, R. (1983). The representation of mental activities in critical path networks. New York Academy of Sciences Conference on Timing and Time Perception.
- Townsend, J. T., & Schweickert, R. (1984). Interactive effects of factors affecting processes in stochastic PERT networks. The XXIII International Congress of Psychology, Acapulco, Mexico.

- Schweickert, R. (1987). Inferring the organization of mental processes. Midwestern Psychological Association.
- Schweickert, R., Dahn, C., & McGuigan, K. (1988). Inferring mental process organization from reaction times. The XXIV International Congress of Psychology, Sidney, Australia.
- Schweickert, R. (1990). Time, information, and the structure of mental events: A twenty-five year review. *Attention & Performance, XIII: A Silver Jubilee*. Ann Arbor.
- Schweickert, R. (1990). Representation of processes in precedence networks. Conference on Stochastic Models of Choice and Reaction Time, in the Workshop on Measurement and the Mathematical Representations of Empirical Structures, Irvine, CA.
- Schweickert, R. (1992). Mental process organization. Departmental Colloquium at the University of Illinois.
- Schweickert, R., Dutta, A., Choi, S., & Proctor, R. W. (1994). Predictions of acyclic task networks with discrete events: Multiple sources of information. Royal Netherlands Academy of Arts and Sciences Symposium on Discrete vs. Continuous Processing of Information. Amsterdam, December.
- Schweickert, R. (1997). Inferring cognitive structure with selective influence. Symposium on Selective Influence in the Analysis of Mental Architectures, Mathematical Psychology Meeting, Bloomington, IN, August.
- Schweickert, R. (2004). Constructing a binomial processing tree through selective influence with application to immediate serial recall. Colloquium, Institute for Mathematical Behavioral Sciences, University of California at Irvine, October.
- Schweickert, R. (2006). Selective influence in the diffusion model. Freiburg Workshop on Diffusion Models, Freiburg, Germany, February.
- Schweickert, R. (2007). Social networks of characters in dreams. Series on Networks and Complex Systems, Indiana University, March.
- Schweickert, R. (2007). Large scale properties of social networks of characters in dreams. Keynote Talk, European Mathematical Psychology Group, Luxembourg, September.
- Schweickert, R. (2008). Social networks of characters in dreams. Department of Psychology, University of Montreal, September.
- Schweickert, R. (2012). Social networks of characters in dreams. Tippecanoe County Library, June.

Schweickert, R., Han, H. J., Viau-Quesnel, C., & Xi, Z. (2012). Networks of dreams. Symposium, What's genuinely new in the scientific study of dreams? G. W. Domhoff (chair). International Association for the Study of Dreams, Berkeley, CA, June.

Schweickert, R. (2013). Dream social networks. Science on Tap, Lafayette Brewing Company, May.

Schweickert, R. (2013). Overlapping demands of complex memory span and timing. Centre de Recherche en Neuropsychologie et Cognition, University of Montreal, November.

#### Workshop Participation:

Attention and Brain Communication Theory Workshop, Jackson Hole, Wyoming, August 1986.

#### Convention Papers:

Schweickert, R. (1975). A critical path analysis of the additive factor method. Mathematical Psychology Meeting.

Schweickert, R. (1976). A generalization of the additive factor method and a model of psychological refractoriness. Mathematical Psychology Meeting.

Schweickert, R. (1976). A generalization of the additive factor method and a model of psychological refractoriness. Psychonomic Society Meeting.

Schweickert, R. (1978). A theory of the Stroop effect based on a generalization of Sternberg's method. Joint meeting of Psychometric Society and Society for Mathematical Psychology.

Schweickert, R. (1978). Additive factors and parallel processing in a word/nonword task. Psychonomic Society Meeting.

Schweickert, R. (1981). A theorem on the optimal order of execution of mental processes. Mathematical Psychology Meeting.

Schweickert, R. (1982). Uniqueness of critical path networks representing reaction time. Mathematical Psychology Meeting.

Schweickert, R. (1983). Synthesis of PERT networks given slacks. The Institute of Management Sciences/Operations Research Society of America Joint National Meeting.

Schweickert, R., & Boruff, B. (1983). Memory span and pronunciation rate. Mathematical Psychology Meeting.

- Schweickert, R. (1983). Extension of the Additive Factor Method to Accuracy. American Psychological Association Meeting.
- Schweickert, R. (1983). Speed-accuracy and additive factors: Lexical decision, Memory scanning and choice. Psychonomic Society Meeting.
- Townsend, J. T., & Schweickert, R. (1984). Additive effects of factors selectively affecting partially ordered mental processes. Presented at R. Schweickert (Organizer and Chair), Mathematical Models of Reaction Time. Symposium conducted at the Mathematical Psychology Meeting.
- Schweickert, R., & Dahn, C. (1984). Sequential processes in color identification and visual search. Psychonomic Society Meeting.
- Townsend, J. T., & Schweickert, R. (1984). Cognitive process interactions in complex networks. Psychonomic Society Meeting.
- Schweickert, R., & Townsend, J. T. (1986). Distinguishing sequential and concurrent mental processes. Experimental Psychology Society Meeting, Durham, England.
- Schweickert, R. (1986). The rectangle condition: A test of simple partial output models. Mathematical Psychology Meeting.
- Schweickert, R. (1987). Interactive effects of factors in stochastic PERT networks: Theory, Data, and Simulations. Annual Conference on the Mental Life of Hoosiers.
- Schweickert, R., Townsend, J. T., & Fisher, D. L. (1987). Simple tests distinguishing sequential and concurrent processes in task networks. Psychonomic Society Meeting.
- Schweickert, R., Dahn, C., & McGuigan, K. (1988). Effects of intensity and number of alternatives in a color identification task. Midwestern Psychological Association.
- Schweickert, R., Guentert, L., & Hersberger, L. (1988). Memory span, pronunciation rate, and phonological similarity. Psychonomic Society Meeting.
- Schweickert, R. (1989). Tests of partial output and complete output systems. Annual Conference on the Mental Life of Hoosiers.
- Schweickert, R. (1989). Separable effects of factors on activation functions. Mathematical Psychology Meeting.
- Schweickert, R., Guentert, L., & Hersberger, L. (1989). Neural network models of memory span. Conference of the Cognitive Science Society.
- Schweickert, R. (1989). Factorial tests of complete and partial output systems. Psychonomic Society Meeting.

- Schweickert, R., McDaniel, M. A., & Riegler, G. L. (1990). The generation effect on memory span. Midwest Psychological Association.
- Schweickert, R. (1990). Discovering the paths through a latent network. Mathematical Psychology Meetings.
- Schweickert, R., Fisher, D. L., & Goldstein, W. (1990). Interpreting additive factors in processing networks. Psychonomic Society Meeting.
- Schweickert, R. (1991). Constructing a critical path network given slacks: Uniqueness. Mathematical Psychology Meeting.
- Schweickert, R., Ansel, B., & McDaniel, M. (1991). Lexicality and generation effects on memory span. Psychonomic Society Meeting.
- Schweickert, R. (1992). A degradation and reintegration model of immediate recall. Mathematical Psychology Meeting, Stanford.
- Schweickert, R., Dutta, A., Choi, S., & Proctor, R. W. (1992). Scheduling processes using working memory. Psychonomic Society Meeting, St. Louis.
- Schweickert, R. (1993) Organizer. Symposium on Operations Research Models in Cognitive Science, at The Institute for Management Science/Operations Research Society of America Conference, Chicago.
- Dzhafarov, E. N., & Schweickert, R. (1993). Internal and external compositions of processing times selectively influenced by different factors. Mathematical Psychology Meeting, Norman, OK.
- Schweickert, R., Dutta, A., Choi, S., & Proctor, R. W. (1994). Scheduling processes in working memory: Instructions control the order of memory search and mental arithmetic. International Conference on Working Memory, Magdalene College, Cambridge, UK.
- Roodenrys, S., Hulme, C., Schweickert, R., & Brown, G. (1994). Word frequency in short-term memory: A multinomial processing tree model. Mathematical Psychology Meeting, Seattle.
- Schweickert, R., & Dzhafarov, E. N. (1994). Response time distributions: Some simple effects of selective influence. Psychonomics Society Meeting, St. Louis.
- Li, X., & Schweickert, R. (1995). Phonological similarity effect on span: Variable positions of repeated phonemes. Psychonomics Society Meeting, LA.

- Poirier, M., Schweickert, R., & Oliver, J. (1996). Lexicality and the relationship between memory span and speaking rate. International Conference on Memory, Abano Terme (Padova), Italy, July.
- Hulme, C., Roodenrys, S., & Brown, G. D. A. & Schweickert, R. (1996). The effects of word frequency and phonological neighbors on immediate memory span. International Conference on Memory, Abano Terme (Padova), Italy, July.
- Schweickert, R., & Giorgini, M. (1996). Response time distributions: Some simple effects of factors selectively influencing mental processes. Mathematical Psychology Meeting, Chapel Hill, NC, August.
- Poirier, M., Schweickert, R., & Oliver, J. (1996). Word length, lexicality, and memory span: Is the representation duration constant? XXVI International Congress of Psychology, Montreal, August.
- Li, X., & Schweickert, R., & Gandour, J. (1997). The phonological similarity effect and memory span. Mathematical Psychology Meeting, Bloomington, IN, August.
- Schweickert, R., & Poirer, M. (1998). A simple model of serial position and span. Quebec 98 Conference on Short Term Memory, Quebec, June.
- Lin, A., & Schweickert, R. (1998). Timing the movement of a mental image. Mathematical Psychology Meeting, Nashville, TN, August.
- Schweickert, R., Chen, S., & Gozo, M. (1999). Constructing a binomial tree via selective influence. Mathematical Psychology Society Meeting, Santa Cruz, CA, August.
- Poirier, M. & Schweickert, R. (1999). Does span really equal "rt + c"? Psychonomic Society Meeting, LA, November.
- Schweickert, R., & Poirier, M. (2000). Effects of factors on measures at immediate memory. Mathematical Psychology Meeting, Kingston, Ontario, August.
- Lien, M. C., Schweickert, R., & Proctor, R. (2000). A reverse task switching effect in a dual task: Importance of response-response spatial correspondence. Psychonomic Society Meeting, New Orleans, November.
- Schweickert, R., Fisher, D. L., & Proctor, R. (2001). Estimating activity durations in cognitive task analysis. Mathematical Psychology Meeting, Providence, RI, August.
- Li, X., & Schweickert, R. (2001). Finite Markov chain model on measuring thresholds with staircase method. Third International Conference of Cognitive Science, Beijing, August.

- Chen, S., & Schweickert, R. (2001). Immediate ordered recall: Product of adjacent conditionals approximation. Psychonomic Society Meeting, Orlando, November.
- Schweickert, R., Poirier, M., & Chen, S. (2002). Two relations: Adjacent conditionals predict recall of lists and silent reading predicts span from rate. Quebec '02 Conference on Short-Term/Working Memory. Quebec, July.
- Schweickert, R., Fortin, C., & Sung, K. (2003). Testing concurrent time reproduction and visual search with cumulative distribution functions. Society for Mathematical Psychology Meeting, Ogden, UT, July.
- Schweickert, R., Fortin, C., & Sung, K. (2003). Parallel time reproduction and visual search revealed by selective influence. Psychonomic Society Meeting, Vancouver, BC, November.
- Schweickert, R., Fisher, D. L., & Sung, K. (2004). Basis for Selective Influence Despite Cross Talk and Resource Sharing. Psychonomic Society Meeting, Minneapolis, MN, November.
- Schweickert, R., & Chen, S. (2005). Constructing a binary processing tree through selective influence. Conference on Cognitive Psychometrics: Cognitive Models as Measurement Tools. Irvine, CA, January.
- Schweickert, R. (2005). The structure of semantic networks and the structure of a social network in dreams. Roddyfest: A conference in honor of Henry L. Roediger, III, March.
- Schweickert, R. (2005). Testing the small world properties of associative memory with a social network in dreams. Society for Mathematical Psychology Meeting, Memphis, TN, August.
- Schweickert, R., & Chen, S. (2005). Analysis of errors through selective influence. Symposium on Cognitive Psychometrics, Organized by W. H. Batchelder. Society for Mathematical Psychology Meeting, Memphis, TN, August.
- Schweickert, R. (2005). Properties of Social and Semantic Networks Appear in Dreams. Psychonomic Society Meeting, Toronto, November.
- Schweickert, R., & Chen, S. (2006). Constructing a binomial binary processing tree through selective influence. Air Force Office of Scientific Research Spring Review, Dayton, April.
- Schweickert, R. (2006). Social networks of characters in dreams. International Association for the Study of Dreams Conference, Bridgewater, MA, June.



- Schweickert, R. (2007). Planning and scheduling in human machine interaction. Air Force Office of Scientific Research Spring Review, Wright State University, March.
- Schweickert, R., & Xi, J. (2007). Frequency distributions of characters in dreams. International Association for the Study of Dreams. Sonoma State University, Sonoma, CA, June.
- Schweickert, R., & Chen, S. (2007). Factors selectively influencing processes in multinomial processing trees. Society for Mathematical Psychology Meeting, Irvine, July.
- Xi, J., & Schweickert, R. (2007). Zipf distributions of characters in dreams. Society for Mathematical Psychology Meeting, Irvine, July.
- Rattat, A. C., Fortin, C., & Schweickert, R. (2007). Decisional process in time discrimination: A dual task analysis. European Society for Cognitive Psychology Conference, Marseille, France, August.
- Fortin, C., & Schweickert, R. (2007). Timing and task switching without interference. Psychonomic Society Meeting, Long Beach, CA, November.
- Schweickert, R., & Chen, S. (2007). Using factors selectively influencing processes to construct a multinomial processing tree. Psychonomic Society Meeting, Long Beach, CA, November.
- Fortin, C., Schweickert, R., Gaudreault, R., & Viau-Quesnel, C. (2008). Timing and control processes: The case of task switching. Journées d'étude – Le Temps, comportement, cerveau et modélisation. Université Blaise-Pascal, Clermont-Ferrand, France, 25-27 juin.
- Schweickert, R., & Xi, Z. J. (2008). Theory of mind activities and metamorphosed characters. International Association for the Study of Dreams, Montreal, July.
- Schweickert, R., & Chen, S. (2008). Processing trees equivalent to mixtures of processing trees. Society for Mathematical Psychology Meeting, Washington, DC, July.
- Schweickert, R., & Xi, Z. (2008). Theory of mind, conceptual structure, and metamorphoses in dreams. Psychonomic Society Meeting, Chicago, November.
- Viau-Quesnel, C., Fortin, C., & Schweickert, R. (2008). Independence between timing and task-switching with univalent and bivalent stimuli. Psychonomic Society Meeting, Chicago, November.
- Schweickert, R. (2009). Processing tree inference and time estimation. Socio-Cultural Modeling and Cognition & Decision, Human Systems Interface Joint Program Review, Air Force Office of Scientific Research, Arlington, VA, January.

- Schweickert, R., Xi, Z., & Han, H. J. (2009). Workshop: Computer analysis of social networks of characters in dreams. International Association for the Study of Dreams, Chicago, July.
- Schweickert, R., Fisher, D. L., & Goldstein, W. L. (2009). Additive factors and stages of mental processes. Meeting of Society for Mathematical Psychology and European Mathematical Psychology Group, Amsterdam, August.
- Schweickert, R., & Xi, Z. (2009). Multiplicatively interacting factors in multiple response class processing trees. Meeting of Society for Mathematical Psychology and European Mathematical Psychology Group, Amsterdam, August.
- Schweickert, R., & Xi, Z. (2009). Human associative memory in sleep: The dream world is a small world. Poster, Northwestern Institute on Complex Systems Complexity Conference, Evanston, IL, September.
- Viau-Quesnel, C., Schweickert, R., & Fortin, C. (2010). L'étude des réseaux sociaux en psychologie cognitive : un exemple basé sur l'étude de l'organisation des rêves. Société Québécoise pour la Recherche en Psychologie. Montreal, April.
- Schweickert, R., Viau-Quesnel, C., Xi, Z., Han, H. J., & Fortin, C. (2010). Regularities in dream social networks. Meeting of Society for Mathematical Psychology, Portland, OR, August.
- Viau-Quesnel, C., Fortin, C., & Schweickert, R. (2010). Task switch costs on concurrent timing: an apparent dissociation between voluntary and involuntary task switching. Meeting of the Psychonomic Society, St. Louis, November.
- Xi, Z., & Schweickert, R. (2011). Tree inference with multiplicatively interacting factors in a multiple response processing tree. Midwest Cog Science Meeting, East Lansing, MI April.
- Schweickert, R., Xi, Z., Viau-Quesnel, C., & Han, H. J. (2011). Subnetworks of a dream social network. Midwest Cog Science Meeting, East Lansing, MI April.
- Han, H. J., Viau-Quesnel, C., Xi, Z., & Schweickert, R. (2011). Self-timing in memory and visual search. Midwest Cog Science Meeting, East Lansing, MI April.
- Schweickert, R., Viau-Quesnel, C., Xi, Z., & Han, H. J. (2011). Structure in dream social networks. Symposium on Memory Consolidation and Structure in Sleep and Dreams (R. Schweickert, Chair and Organizer). Annual Convention of the Association for Psychological Science, Washington, DC, May.
- Schweickert, R. (2011). Determining the order of mental processes by selectively influencing them. Meeting of the Society for Mathematical Psychology, Boston, July.

- Schweickert, R., Xi, Z., Viau-Quesnel, C., Yamaguchi, M., & Fortin, C. (2011). Activating a memory set and searching it have different effects on time production. Psychonomic Society Meeting, Seattle, November.
- Schweickert, R., & Dzhavarov, E. (2012). Causal networks with selectively influenced components. Air Force Office of Scientific Research Joint Program Review, Arlington, VA: January.
- Schweickert, R., & Han, H. J. (2012). Reaction time predictions for factors selectively influencing processes in processing trees. Meeting of the Society for Mathematical Psychology, Columbus, OH, July.
- Schweickert, R., Han, H. J., Yamaguchi, M., & Fortin, C. (2012). Estimating averages of skewed distributions of tone durations. Poster, Psychonomic Society Meeting, Minneapolis, November.
- Schweickert, R., Han, H. J., Yamaguchi, M., & Fortin, C. (2013). Estimating averages of skewed tone durations. Poster, Meeting of the Society for Mathematical Psychology, Potsdam, Germany, August.
- Schweickert, R. (2014, November). Organizer and Chair. Memory, Sleep, and Dreams. Symposium conducted at the Psychonomic Society Meeting, Long Beach, CA.
- Schweickert, R., Han, H. J., Xi, Z., & Viau-Quesnel, C. (2014, November). Associative Memory Networks and the Systematic Occurrence of People in Dreams. In R. Schweickert (Chair), Memory, Sleep, and Dreams. Symposium conducted at the Psychonomic Society Meeting, Long Beach, CA.
- Han, H. J., & Schweickert, R. (2014, November). The continuity and discontinuity between dream and waking-life social networks. Poster presented at the Psychonomic Society Meeting, Long Beach, CA.
- Han, H. J., Viau-Quesnel, C., Xi, Z., Schweickert, R., & Fortin, C. (2015, November). Estimating one's own reaction times. Poster presented at the meeting of the Psychonomic Society, Chicago.
- Schweickert, R., Xi, J., Han, H. J., & Viau-Quesnel, C. (2016, May). Appearances of characters in dreams follow power laws. Poster presented at the meeting of the Association for Psychological Science, Chicago.
- Schweickert, R., Han, H. J., & Zheng, X. (2016, August). Tree inference: Reaction time and other measures in processing trees. Paper presented at the Meeting of the Society for Mathematical Psychology, New Brunswick, NJ.
- Schweickert, R., & Vitevitch, M. (2016, October). Organizers of the 2016 Winer Conference: Network Science in Cognitive Science, West Lafayette, IN.

- Schweickert, R. (2016, October). Social networks of characters in dreams. Paper presented at the Winer Conference, West Lafayette, IN.
- Schweickert, R., Viau-Quesnel, C., Xi, J., & Han, H. J. (2016, November). Power law distributions of people appearing in dreams. Poster presented at the Psychonomic Society Meeting, Boston.
- Schweickert, R., Han, H. J., Viau-Quesnel, C., & Xi, Z. (2017, June). Power laws in dream social networks. Cognitive Network Science: A Satellite Workshop at NetSci2017, Indianapolis.
- Schweickert, R., Han, H. J., & Zheng, X. (2017, July). Tree inference: Factors selectively influencing processes in multinomial processing trees with response times. Paper presented at the Meeting of the Society for Mathematical Psychology, Coventry, UK.
- Schweickert, R., Saletsky, L., & Zheng, X. (2017, November). Appearances of characters in the dreams of an adolescent follow the Zipf-Mandelbrot Law. Poster presented at the College of Health and Human Sciences Fall Research Day, West Lafayette, IN.
- Schweickert, R., & Zheng, X. (2017, November). Response time tests of whether factors selectively influence processes in Multinomial Processing Trees. Paper presented at the Psychonomic Society Meeting, Vancouver, CA.
- Schweickert, R., & Zheng, X. (2018, July). Tree Inference: Mixtures of multinomial processing trees predicting response time when factors selectively influence processes. Paper presented at the Meeting of the Society for Mathematical Psychology, Madison, WI.
- Schweickert, R., & Zheng, X. (2018, November). Tree Inference: Factors Selectively Influencing Vertices in Mixtures of Multinomial Processing Trees That Represent Both Response Time and Accuracy. Paper presented at the Meeting of the Psychonomic Society, New Orleans, LA.
- Schweickert, R., & Zheng, X., Saletski, L. (2019, June). Aggressive, friendly, sexual, and co-occurrence networks in dreams of an adolescent girl. Paper presented at the Conference of the International Association for the Study of Dreams, Kerkrade, The Netherlands.
- Zheng, X., & Schweickert, R., Song, M., & Zhu, W. (2019, June). Automatic content analysis of dream reports: Test of Continuity Hypothesis and detection of gender and blindness. Paper presented at the Conference of the International Association for the Study of Dreams, Kerkrade, The Netherlands.
- Schweickert, R., & Zheng, X. (2019, July). Frequencies of characters occurring in dreams. Paper presented at the Meeting of the Society for Mathematical Psychology, Montreal, Canada.

Professional Societies:

American Association for the Advancement of Science  
Association for Psychological Science  
Experimental Psychology Society (Britain). Visiting member, 1985-86.  
Gesellschaft für Unendliche Versuche (GUV) (retired)  
International Association for the Study of Dreams  
New York Academy of Sciences  
Psychonomic Society  
Sleep Research Society  
Society for Mathematical Psychology  
(Charter Student Member, Board of Directors, 1986-1991)