

Myeong-Ho Sohn

A. Biographical Information

1. Personal

Address: Department of Psychology, George Washington University
 Phone: (202) 994-6322
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 E-mail: mhsohn@gwu.edu mhsohn@gmail.com (preferred)

2. Academic History

1998-2004 **Postdoctoral Fellow (Cognitive Neuroscience)**
 Carnegie Mellon University
Mentor: Dr. John R. Anderson

1993-1998 **Ph.D. (Psychology)** Pennsylvania State University
Supervisor: Dr. Richard A. Carlson
Thesis title: Effect of foreknowledge on disengagement and engagement in task-set reconfiguration
Specialty area: Cognitive psychology

1989-1991 **M.A. (Psychology)** Seoul National University, Seoul, Korea
Supervisor: Dr. Myeong-han Zoh

1985-1989 **B.A. (Psychology)** Seoul National University, Seoul, Korea

3. Professional Experience

2010-present **Associate Professor of Psychology**, George Washington University

2004-2010 **Assistant Professor of Psychology**, George Washington University

1998-2004 **Postdoctoral Research Associate**, Department of Psychology, Carnegie Mellon University

1994-1996 **Research Assistant** to Dr. L. Liben and Dr. R. Carlson, Pennsylvania State University

1993-1994 **Teaching Assistant** to Dr. J. Martin, Dr. R. Carlson, Dr. M. Burton, and Dr. J. Kroll, Pennsylvania State University

4. Teaching Experience

Memory and Cognition	<i>Advanced undergraduate course</i>	George Washington University
Cognitive Psychology	<i>Intermediate undergraduate course</i>	George Washington University
Cognitive Control: Attention and Working Memory,	<i>Undergraduate honors seminar</i>	George Washington University
Working Memory and Executive Control	<i>Graduate seminar</i>	George Washington University

Current Topics in Psychological Science <i>Graduate seminar</i>	George Washington University
Selective Control and Prefrontal Cortex <i>Graduate seminar</i>	George Washington University
Cognitive Control and Related Issues <i>Graduate seminar</i>	George Washington University
Undergraduate and Graduate Independent Research Mentor	George Washington University
Undergraduate Independent Research Mentor	Pennsylvania State University

5. Graduate Mentoring Experience

Doctoral Thesis Committee Member

Shannon O’Leary (PhD 2006)
Jonathan Brigman (PhD 2006)
Whitney Wharton (PhD 2007)
Neda Gould (PhD 2007)
Joeanna Arthur (PhD 2008)
Catherine Ngo (PhD 2008)
Jesse Sargent (PhD 2009)
Adam Woods (PhD 2010)
Kristin Padukiewicz (PhD 2012)
Becky Weldon (Ph.D., 2012)
Chris Hydock (Ph.D., 2012)
Leslie Drummond (PhD 2012)
Jungmi Lee (PhD 2013)
Darin Galyer (Ph D 2019)

Primary Graduate Advisor

Becky Weldon, PhD awarded in August 2012
Chris Hydock, PhD awarded in May 2012

6. Investigator-Initiated Research grants

University Facilitating Fund Award (George Washington University, Washington DC)

“Maintenance and manipulation: Two functions of working memory and their neural substrates” (7/2005 – 6/2006), \$5,632.

University Facilitating Fund Award (George Washington University, Washington DC) “The role of the prefrontal cortex in cognitive control: The inhibition hypothesis” (7/2008 – 6/2009), \$7,581.

National Research Foundation of Korea (NRF-2010-330-B00297) “The distinctiveness and universality of the thinking style in Korean culture: An integral approach to positive readjustments”. (9/2010 – Present), Request Budget in the amount of approximately \$100,000 annually.

PI: Hyun Jung Shin (Pusan National University, Pusan, Korea)

GW PI: Myeong-Ho Sohn

National Research Foundation of Korea (NRF- 2015S1A5A2A03049587) “Unhappy Koreans and the Culture of Social Upkeep: Investigating Cognitive Mechanisms of Emotion Perception, Evaluation, and Regulation with Cross-cultural and Neuroscientific Methodologies”. (11/2015 – 10/2017), Request Budget in the amount of approximately \$80,000 annually.

PI: Bia Kim (Pusan National University, Pusan, Korea)

GW PI: Myeong-Ho Sohn

Undergraduate Fellowship Sponsorship (George Washington University, Washington DC)
Luther Rice Undergraduate Research Fellowship awarded in July, 2013 to Thomas A. McWilliams, The George Washington University

Undergraduate Fellowship Sponsorship (George Washington University, Washington DC)
Luther Rice Undergraduate Research Fellowship awarded in July, 2017 to Margaret Benda, George Washington University

7. Membership in Professional Associations

Psychonomic Society

8. Editorial Activities

Ad-hoc grant reviewer

National Science Foundation

Ad-hoc Reviewer

Acta Psychologica

Cognitive Systems Research

Experimental Psychology

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human Perception and Performance

Journal of Experimental Psychology: Learning, Memory, and Cognition

Memory & Cognition

NeuroImage

Neuropsychologia

Psychonomic Bulletin and Review

Psychological Science

Proceedings of the National Academy of Sciences

Quarterly Journal of Experimental Psychology

Spanish Journal of Psychology

B. Publications

1. Refereed Journals: published

Lee, D., Shin, H. J., Weldon, R. B., & Sohn, M.-H. (2016). Cross-Cultural Differences in Consistent Mapping Effects of Targets and Distractors. *Journal of Cross Cultural Psychology*, 47, 525-539.

- Hyun, I. W., Sohn, M.-H., Shin, H. J., & Lee, D. H. (2014). Effects of Priming of Individualism-Collectivism on the Informational Processing in the Peripheral Vision. *The Korean Journal of Cognitive and Biological Psychology*, 26, 41-66.
- Hydock, C., Patai, Z. E., & Sohn, M. H. (2013). Distinct Response Components Indicate that Binding is the Primary Cause of Response Repetition Effects. *Journal of Experimental Psychology: Human Perception and Performance*, 39, 1598-1611.
- Weldon, R. B., Mushlin, H., Kim, B., & Sohn, M.-H. (2013). The Effect of Working Memory Capacity on Conflict Monitoring. *Acta Psychologica*, 142, 6-14.
- Lee, Y. K., Shin, H. J., Sohn, M.-H., Kim, B. (2012). Cultural disposition of individualism/collectivism and the perception of relevance between figures and grounds in natural scenes. *Korean Journal of Psychology: General*, 31, 897-916.
- Hydock, C. & Sohn, M. H. (2011). Dissociating the Components of Switch Cost Using Two to Two Cue-task Mapping. *Journal of Experimental Psychology: Human Perception and Performance*, 37, 903-913.
- Chen, Z., Mo, L., Honomichl, R., & Sohn, M.-H. (2010). Analogical symbols: The role of visual cues in long-term transfer. *Metaphor and Symbols*, 25, 93-113.
- Lee, B.-T., Ryu, J., Lee, D. H., Sohn, M.-H., Kang, N. H., Ham, B. J., Choi, N. H. (2008). Neural Substrates of Posttraumatic Stress Disorder: Functional Magnetic Resonance Imaging Study Using Negative Priming Task. *Korean Journal of Biological Psychiatry*, 15, 110-117.
- Sohn, M.-H., Albert, M. V., Jung, K., Carter, C. S., & Anderson, J. R. (2007). Anticipation of conflict monitoring in the anterior cingulate cortex and the prefrontal cortex. *Proceedings of Academy of Sciences*, 104, 10330-10334.
- Fu, W.-T., Bothell, D., Douglass, S., Haimson, C., Sohn, M.-H., Anderson, J. A. (2006), Toward a Real-Time Model-Based Training System. *Interacting with Computers*, 18, 1216-1230.
- Sohn, M.-H., Douglass, S. A., Chen, M.-C., & Anderson, J. R. (2005). Characteristics of fluent skills in a complex, dynamic problem-solving task. *Human Factors*, 47, 742-752.
- Sohn, M.-H., Goode, A., Stenger, V. A, Jung, K.-J., Carter, C. S., & Anderson, J. R. (2005). An information-processing model of three cortical regions: Evidence in episodic memory retrieval. *NeuroImage*, 25, 21-33.
- Sohn, M.-H., Anderson, J. R., Reder, L. M., & Goode, A. (2004). Differential fan effect and attentional focus. *Psychonomic Bulletin and Review*, 11, 729-734.
- Sohn, M.-H., Goode, A., Koedinger, K. R., Stenger, V. A, Fissell, K., Carter, C. S., & Anderson, J. R. (2004). Behavioral equivalence, but not neural equivalence: Neural evidence of alternative strategies in mathematical thinking. *Nature Neuroscience*, 7, 1193-1194.
- Terao, A., Koedinger, K. R., Sohn, M.-H., Qin, Y., Anderson, J. R., & Carter, C. S. (2004). An fMRI study of the interplay of symbolic and visuo-spatial systems in mathematical reasoning. In *Proceedings of the 26th Annual Conference of the Cognitive Science Society* (pp. 1327-1332)
- Sohn, M.-H., & Anderson, J. R. (2003). Stimulus-related priming during task switching. *Memory & Cognition*, 31, 775-780.

- Sohn, M.-H., & Carlson, R. A. (2003). Viewpoint alignment and response conflict during spatial judgment. *Psychonomic Bulletin and Review*, *10*, 907-916.
- Sohn, M.-H., & Carlson, R. A. (2003). Implicit temporal tuning of working memory strategy during cognitive skill acquisition. *American Journal of Psychology*, *116*, 239-256.
- Sohn, M.-H., Goode, A., Stenger, V. A., Carter, C. S., & Anderson, J. R. (2003). Competition and representation during memory retrieval: Roles of the prefrontal cortex and the posterior parietal cortex. *Proceedings of National Academy of Sciences*, *100*, 7412-7417.
- Anderson, J. R., Qin, Y., Sohn, M.-H., Stenger, V. A., & Carter, C. S. (2003). An information-processing model of the BOLD response in symbol manipulation tasks. *Psychonomic Bulletin and Review*, *10*, 241-261
- Qin, Y., Sohn, M.-H., Anderson, J. R., Stenger, V. A., Fissell, K., Goode, A., & Carter, C. S. (2003). Predicting the practice effects on the blood oxygenation level-dependent (BOLD) function of fMRI in a symbolic manipulation task. *Proceedings of National Academy of Sciences*, *100*, 4951-4956.
- Sohn, M.-H., & Anderson, J. R. (2001). Task preparation and task repetition: Two-component model of task switching. *Journal of Experimental Psychology: General*, *130*, 764-778.
- Sohn, M.-H., Ursu, S., Anderson, J. R., Stenger, V. A., & Carter, C. S. (2000). The role of prefrontal cortex and posterior parietal cortex in task-switching. *Proceedings of National Academy of Sciences*, *97*, 13448-13453.
- Sohn, M.-H., & Carlson, R. A. (2000). Effects of repetition and foreknowledge in task-set reconfiguration. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *26*, 1445-1460.
- Sohn, M.-H., & Carlson, R. A. (1998). Procedural frameworks for simple arithmetic skills. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *24*, 1052-1067.

2. Book Chapters

- Chen, M.-C., Anderson, J. R., & Sohn M.-H. (2002). Eye-Hand coordination during web browsing. In Ratner, Julie A. (ed.) *Human Factors and Web Development*, (pp 207-224) Lawrence Erlbaum Associates, Inc., Mahwah, NJ.
- Carlson, R. A., & Sohn, M.-H. (2000). Conscious control of complex mental activities: Building fluent routines from component skills. In S. Monsell & J. Driver (Eds.) *Attention & Performance XVIII: Cognitive Control* (pp. 443-464). MIT Press, Cambridge: MA.

3. Manuscripts

- Tae, J., Nam, Y., Weldon, R. B., Lee, Y., & Sohn, M. H. (under review). Neutral but not in the Middle: Cross-cultural Comparisons of Negative Bias of “Neutral” Emotional Stimuli.
- Woo, H., Hong, Y., Lee, Y., Weldon, R. B., & Sohn, M. H. (in preparation). Arousal rather than Valence of the preceding emotional stimuli modulate the Conflict Adaptation effect.
- Sohn, M.-H., Wynn, R. M., & Weldon, R. B. (under review). The Effects of Sequence Learning on the Simon Effect.
- Wynn, R. M., & Sohn, M.-H. (in preparation). Conflict Adaptation Effects Reveal Role for Cognitive Control in a False Belief Task.

- Wynn, R. M., & Sohn, M.-H. (in preparation). Evidence for Conflict Monitoring During a False Belief Task.
- Teng, C., & Sohn, M.-H. (in preparation). The Effect of Relative Salience of Target on Selective Attention.
- Teng, C., & Sohn, M.-H. (in preparation). Can a Salient Distractor Decide its Own Fate? Comparison of the Effects of Distractor Salience and Perceptual Grouping on Selective Attention.
- Hitchins, M., Weldon, R. B., & Sohn, M.-H. (in preparation). Response Repetition Cost is All in Your Head: A Case with Subliminal Priming.
- Ryherd, K. A., Weldon, R. B., Kim, B., & Sohn, M. H. (in preparation). Conflict Monitoring Under Pressure: Load-Specific Modulation of Conflict Adaptation with Concurrent Working Memory Load.
- Weldon, R. B., Patai, Z. E., Kim, B., & Sohn, M.-H. (in preparation). The Effect of Working Memory Capacity on the Binding Cost and the Simon Effect.
- Kwak, J., Lee, D., Weldon, R. B., & Sohn, M.-H. (in preparation). Cross-cultural differences in conflict monitoring.
- Lee, D., Sohn, M.-H., Hyun, Y., & Shin, H. J. (in preparation). Influence of Socio-Cultural Thinking Styles on the Müller-Lyer Illusion: Individualism vs. Collectivism.
- McWilliams, T. A., Lee, D. H., & Sohn, M. H. (in preparation). Perspective Specificity and Task Dependence of Action Comprehension
- Sohn, M. H., Hydock, C., & Hitchins, M. (in preparation). Stimulus-Response Binding as Source of Response Repetition Cost

C. Conference Presentations

- Sohn, M.-H., & Deng, X. (2019). Stimulus Salience and Probability of Salience in Visual Search. The 60th Annual Meeting of the Psychonomic Society; Montreal, Canada.
- Tae, J., Lee, Y., An, C., Sohn, M.-H. (2019). Conflict Adaption Between Cognition and Emotion in Proactive Control and Reactive Control. The 60th Annual Meeting of the Psychonomic Society; Montreal, Canada.
- Woo, H., Hong, Y., Lee, Y., Weldon, R. B., & Sohn, M.-H. (November, 2018). Arousal rather than Valence Affects Cognitive Control: The Effects of Emotional Stimuli on the Conflict Adaptation Effect. The 59th Annual Meeting of the Psychonomic Society; New Orleans, LA.
- Kim, H., Lee, D., & Sohn, M. H. (May, 2018). Cultural Differences in the Top-Down Control of Information Processing in the Peripheral vision. International Meeting of the Psychonomic Society; Amsterdam, The Netherlands.
- Lee, J., Lee, D., & Sohn, M. H. (May, 2018). Contextual Modulation of Emotion Perception Depends on the Social Relationship between Target and Context Faces. International Meeting of the Psychonomic Society; Amsterdam, The Netherlands.

- Sohn, M. H., Kwak, J., Weldon, R. B., & Lee, D. (November, 2017). Cross-cultural differences in conflict monitoring. The 58th Annual Meeting of the Psychonomic Society; Vancouver, Canada.
- Kim, B., Lee, G., Lim, S. L., Shin, H., & Sohn, M. H. (March 25, 2017). The Time Perspective and Well-Being: Korean Studies. International Convention of Psychological Science; Vienna, Austria.
- Kwak, J., Lee, D., Weldon, R. B., & Sohn, M.-H. (March 24, 2017). Cross-cultural differences in conflict monitoring. International Convention of Psychological Science; Vienna, Austria.
- Sohn, M.-H., Ryherd, K. A., Weldon, R. B., & Kim, B. (November 18, 2016). Conflict Monitoring Under Pressure: Load-Specific Modulation of Conflict Adaptation With Concurrent Working Memory Load. The 57th Annual Meeting of the Psychonomic Society; Boston, MA.
- Kim, B., Lee, D., & Sohn, M.-H. (July 25, 2016). Susceptibility to Feature Integration in the Simon Task Depends on Working Memory Capacity. The 31st International Congress of Psychology; Yokohama, Japan.
- Lee, D., Kim, S. Kim, B., Shin, H. J., Sohn, M.-H., & Carlson, R. A. (July, 27, 2016). Cross-Cultural and Gender Differences in Weighting Individual Input for Group Emotion Judgment. The 31st International Congress of Psychology; Yokohama, Japan.
- Sohn, M.-H., & Teng, C. (July 25, 2016). The Effect of Relative Salience between Target and Distractor on Selective Attention. The 31st International Congress of Psychology; Yokohama, Japan.
- Hitchins, M., Carlson, R. A., & Sohn, M.-H. (November, 2015). A test of the specialized load account: An individual differences approach. The 56th Annual Meeting of the Psychonomic Society; Chicago, IL.
- Teng, C., & Sohn, M.-H. (November, 2015). The Role of Relative Salience of Target and Distractor during Selective Attention. The 56th Annual Meeting of the Psychonomic Society; Chicago, IL.
- Wynn, R. M., Sohn, M.-H., & Hitchins, M. (November, 2015). Is There a Role of Cognitive Control in Resolving Conflict in a False Belief Task. The 56th Annual Meeting of the Psychonomic Society; Chicago, IL.
- Hitchins, M., Wynn, R. M., & Sohn, M.-H. (November, 2014). Working Memory Capacity and Cognitive Control: A test of the load specific interference effect. The 55th Annual Meeting of the Psychonomic Society; Long Beach, CA.
- Wynn, R. M., Hitchins, M., & Sohn, M.-H. (November, 2014). The Role of Cognitive Control in Resolving Conflict in a False Belief Task. The 55th Annual Meeting of the Psychonomic Society; Long Beach, CA.
- McWilliams, T. A., Lee, D. H., & Sohn, M.-H. (June, 2014). Goal-Dependency and Perspective-Change in Motor Resonance. Finding Common Ground: Social, Ecological, and Cognitive Perspectives on Language Use; Storrs, CT.
- Wynn, R. M., & Sohn, M. H. (May, 2014). The Role of Cognitive Control in Resolving Conflict in a False Belief Task. The 26th Annual Convention of the Association for Psychological Science; San Francisco, CA.

- McWilliams, T. A., & Sohn, M.-H. (November, 2013). Goal-Dependency and Perspective-Change in Motor Resonance. The 54th Annual Meeting of the Psychonomic Society; Toronto, ON.
- Wynn, R. M., Hitchins, M., & Sohn, M.-H. (November, 2012). The Effects of Implicit Sequence Knowledge on Distractor Interference. The 53rd Annual Meeting of the Psychonomic Society; Minneapolis, MN.
- Hitchins, M., Wynn, R. M., & Sohn, M.-H. (November, 2012). The Source of Response Repetition Cost: Evidence From a Subliminal Priming Study. The 53rd Annual Meeting of the Psychonomic Society; Minneapolis, MN.
- Hydock, C., Philbeck, J., & Sohn, M.-H. (November, 2012). Does Response Inhibition or Binding Cause Response Repetition Effects? The 53rd Annual Meeting of the Psychonomic Society; Minneapolis, MN.
- Weldon, R. B. & Sohn, M.-H. (November, 2012). The Effect of Working Memory Capacity on Task-Switching Ability. The 53rd Annual Meeting of the Psychonomic Society; Minneapolis, MN.
- Weldon, R. B. & Sohn, M.-H. (November, 2011) The effect of working memory capacity on conflict monitoring. The 52nd Annual Meeting of the Psychonomic Society; Seattle, WA.
- Hydock, C. & Sohn, M.-H. (, November, 2011) Do Stimulus-Response Bindings Influence Random Choice Decisions? The 52nd Annual Meeting of the Psychonomic Society; Seattle, WA.
- Lee, Y., Joo, M., Yoon, S., Kim, B., Weinberg, L., & Sohn, M.-H. (May, 2011). Cultural differences in processing regularities in task-irrelevant information in task switching. The 23rd Annual Meeting of the Association for Psychological Science: Washington, DC.
- Shin, C. W., Kim, H.-J., Lee, D., Shin, H. J., Weinberg, L., & Sohn, M.-H. (May, 2011). Effects of cultural differences on sequence learning of task-relevant and task-irrelevant information. The 23rd Annual Meeting of the Association for Psychological Science: Washington, DC.
- Lee, D., Jung, Y., Jeong, M.-y., Shin, C. Shin, H. J., Kang, M. G., Kim, H., & Sohn, M.-H. (April, 2011). Influence of handedness on the neural representation of object and action concepts. The 18th Annual Meeting of the Cognitive Neuroscience Society: San Francisco, CA.
- Weldon, R. B., Sohn, M.-H., & Philbeck, J. W. (November, 2010). The role of working memory capacity in conflict monitoring. The 51st Annual Meeting of the Psychonomic Society; St. Louis, MO.
- Hydock, C. & Sohn, M.-H. (November, 2010). Evidence for a binding account of response repetition effects. The 51st Annual Meeting of the Psychonomic Society; St. Louis, MO.
- Weldon, R. B. & Sohn, M.-H. (November, 2009). The Effect of Working Memory Capacity on Conflict Monitoring. The 50th Annual Meeting of the Psychonomic Society; Boston, MA.
- Sohn, M.-H. & Hydock, C. (November, 2008). Dissociation of cue-switch cost and task-switch cost. The 49th Annual Meeting of the Psychonomic Society; Chicago, IL.

- Sohn, M.-H., Lee, B. T., Patai, E. Z., & Weldon, R. B. (April, 2008). The anterior cingulate cortex and the prefrontal cortex in proactive and concurrent interferences -switching. The 15th Annual Meeting of the Cognitive Neuroscience Society; San Francisco, CA.
- Sohn, M.-H., Patai, E. Z., & Weldon, R. B. (November, 2007). Proactive and concurrent interferences in task-switching. The 48th Annual Meeting of the Psychonomic Society; Long Beach, CA.
- Sohn, M.-H., Ryu, J., Lee, D., Lee, B.-K., Ham, B.-J., Lyoo, I.-K., & Choi, N. (May, 2007). Processing of task-irrelevant information with Post-traumatic stress disorder (PTSD). The 14th Annual Meeting of the Cognitive Neuroscience Society; New York, NY.
- Sohn, M.-H. & Peterson, B. C. (November, 2006). Context-dependent modulation of task switch cost The 47th Annual Meeting of the Psychonomic Society; Houston, TX.
- Sohn, M.-H., Peterson, B. C., & Larson, M. V. (April, 2006). Maintenance and Retrieval: Cortical Dissociation of Working Memory Components. The 13th Annual Meeting of the Cognitive Neuroscience Society; San Francisco, CA.
- Sohn, M.-H., Anderson, J. R., & Peterson, B. C. (November, 2005). Repetition benefit in task switching. The 46th Annual Meeting of the Psychonomic Society; Toronto, ON.
- Sohn, M.-H. (November, 2004). Conflict monitoring in task switching. The 45th Annual Meeting of the Psychonomic Society; Minneapolis, MN.
- Sohn, M.-H., Stenger, V. A., Carter, C. S., & Anderson, J. R. (October, 2004). Dissociation of prefrontal-parietal contributions to working memory: Evidence with retrieval and maintenance. The 45th Annual Meeting of the Society for Neuroscience; San Diego, CA.
- Sohn, M.-H., Stenger, V. A., Carter, C. S., & Anderson, J. R. (October, 2004). Dissociation of prefrontal-parietal contributions to working memory: Evidence with retrieval and maintenance. The 45th Annual Meeting of the Society for Neuroscience; San Diego, CA.
- Sohn, M.-H., Stenger, V. A., Carter, C. S., & Anderson, J. R. (June, 2004). Dissociation of prefrontal-parietal contributions to working memory: Evidence with retrieval and maintenance. The 10th Annual Meeting of the Organization of Human Brain Mapping; Budapest, Hungary.
- Sohn, M.-H., Albert, M. V., Jung, K.-J., Carter, C. S., & Anderson, J. R. (April, 2004). Pay now or pay later: Preparatory conflict monitoring in the anterior cingulate cortex and the prefrontal cortex. The 11th Annual Meeting of the Cognitive Neuroscience Society; San Francisco, CA.
- Qin, Y., Anderson, J. R., Sohn, M.-H., Stenger, V. A., Fissell, K., Goode, A., Silk, E., & Carter, C. S. (April, 2004). Using fMRI to Inform the Components of a Cognitive Architecture. The 11th Annual Meeting of the Cognitive Neuroscience Society; San Francisco, CA.
- Sohn, M.-H., & Anderson, J. R. (November, 2003). Negative priming in task switching. The 44th Annual Meeting of the Psychonomic Society; Vancouver, BC.
- Sohn, M.-H., Qin, Y., Carter, C. S., & Anderson, J. R. (April, 2003). Changes in the basal ganglia during cognitive skill learning. The 10th Annual Meeting of the Cognitive Neuroscience Society; New York, NY.

- Sohn, M.-H., Goode, A. G., Koedinger, K. R., Carter, C. S., & Anderson, J. R. (November, 2002). Verbal processes and symbol manipulation during algebra problem solving. The 43rd Annual Meeting of the Psychonomic Society; Kansas City, MO.
- Qin, Y., Sohn, M.-H., Anderson, J. R., Stenger, V. A., Fissell, K., Goode, A., & Carter, C. S. (November, 2002). Practice study in event related fMRI and base-level activation learning in ACT-R. The 43rd Annual Meeting of the Society for Neuroscience; Orlando, FL.
- Sohn, M.-H., Qin, Y., Goode, A., Carter, C. S., & Anderson, J. R. (April, 2002). Changes in neural activities during cognitive skill learning: An Event-related fMRI study with pseudo-algebraic problem solving. The Annual Meeting of the 9th Cognitive Neuroscience Society; San Francisco, CA.
- Sohn, M.-H., & Anderson, J. R. (November, 2001). Priming of the stimulus set in task switching. The 42nd Annual Meeting of the Psychonomic Society; Orlando, FL.
- Anderson, J. R., Qin, Y., Sohn, M.-H., Carter, C. S., & Fincham, J. (November, 2001). ACT-R predicts BOLD activation function. The 42nd Annual Meeting of the Psychonomic Society; Orlando, FL.
- Qin, Y., Sohn, M.-H., Carter, C. S., Stenger, V. A., Fissell, K., & Anderson, J. R. (November, 2001). Event-related fMRI in algebra equation problem solving. The 42nd Annual Meeting of the Society for Neuroscience; San Diego, CA.
- Chen, M.-C., Anderson, J. R., & Sohn M.-H. (March, 2001). What can a mouse cursor tell us more? Correlation of eye/mouse movements on web browsing. In *Human Factors in Computing Systems: Extended Abstracts of CHI '01*, (pp. 281-282). Seattle, WA. Association for Computing and Machinery
- Sohn, M.-H., Ursu, S., Anderson, J. R., Stenger, V. A., & Carter, C. S. (November, 2000). The role of prefrontal cortex and posterior parietal cortex in task-switching. The 41st Annual Meeting of the Psychonomic Society; New Orleans, LA.
- Sohn, M.-H., Douglass, S. A., Chen, M.-C., & Anderson, J. R. (August, 2000). Eye-movement during unit-task execution in a complex problem solving situation. The 44th Annual Meeting of Human Factors and Ergonomics Society; San Diego, CA.
- Carter, C. S., Ursu, S., Sohn, M.-H., Schneider, W., Stenger, V. A., & Anderson, J. R. (June, 2000). Task representation and task switching in dorsolateral prefrontal cortex during event-related fMRI. The 6th Annual Meeting of the Organization for Human Brain Mapping; San Antonio, TX.
- Sohn, M.-H., & Anderson, J. R. (November, 1999). ACT-R does task switching: Effects of foreknowledge and repetition during task-set reconfiguration. The 40th Annual Meeting of the Psychonomic Society; Los Angeles, CA.
- Sohn, M.-H., & Carlson, R. A. (November, 1998). Coordinative modes and the transfer of mental skill. The 39th Annual Meeting of the Psychonomic Society; Dallas, TX.
- Carlson, R. A. & Sohn, M.-H. (July, 1998). Conscious control of complex mental activities: Building fluent routines from component skills. The 18th International Symposium on Attention and Performance; Windsor Great Park, England.

- Carlson, R. A. & Sohn, M.-H. (November, 1997). Operators and directions: Processing similarities in arithmetic and spatial reasoning. The 38th Annual Meeting of the Psychonomic Society; Philadelphia, PA.
- Sohn, M.-H. & Carlson, R. A. (April, 1997). Establishing a viewpoint in spatial judgment. The Annual Meeting of Eastern Psychological Association; Washington, DC
- Sohn, M.-H. (March, 1997). Does practice make perfect? Well, not exactly. The 12th Annual Graduate Research Exhibition, The Pennsylvania State University, University Park, PA.
- Sohn, M.-H. & Carlson, R. A. (October, 1996). Procedural frameworks for spatial judgment. The 37th Annual Meeting of the Psychonomic Society; Chicago, IL.
- Carlson, R. A., & Sohn, M.-H. (November, 1995). Rule application skills have internal structure. The 36th Annual Meeting of the Psychonomic Society; Los Angeles, CA.

D. Invited Colloquia

- 2012 Department of Psychology, Pusan National University, Pusan, Korea.
- 2006 Department of Psychology, Seoul National University, Medical School, Seoul, Korea
- 2006 Department of Psychology, Seoul National University, Seoul, Korea
- 2006 Department of Psychology, University of Provence, Marseille, France
- 2005 Cognitive Neuroscience Section, NINDS/NIH, Bethesda, MD
Department of Psychology, University of Maryland, College Park, MD
- 2004 Department of Neuroscience, George Washington University, Washington, DC
- 2004 Workshop on the neurocognitive bases of task-control, Max Planck Institute, Leipzig, Germany
- 2004 Department of Cognitive Science, University of California, Irvine, CA
- 2004 Department of Psychology, Texas A&M University, College Station, TX
- 2004 Department of Psychology, Kent State University, Kent, OH
- 2004 Department of Psychology, George Washington University, Washington, DC
- 2002 Institute of Gerontology, Wayne State University, Detroit, MI
- 2001 Department of Psychology, George Mason University, Fairfax, VA