

SOWON HAHN, Ph.D.

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PROFESSIONAL PROFILE

- **Associate Professor**, Seoul National University, 2015 to Present
- **Associate Professor**, University of Oklahoma, 2007 to 2014
- **Assistant Professor**, University of Oklahoma, 2001 to 2007
- **Post-doctoral Researcher**, University of California, Riverside, 1999 to 2001
- **Post-doctoral Researcher**, University of Illinois at Urbana-Champaign, 1998 to 1999

EDUCATION

- **Ph.D.**, Cognitive Psychology, University of Illinois at Urbana-Champaign, 1997
- **M.S.**, Cognitive Psychology, University of Illinois at Urbana-Champaign, 1994
- **B.S.**, Psychology, Seoul National University, 1991

PROFESSIONAL SERVICE

- **Director**, Center for Psychological Sciences, SNU, 2017 to Present
- **Coordinator**, Brain-Mind-Behavior Interdisciplinary Program, SNU, 2017 to Present
- **Chair**, Crisis Counseling Department, Center for Campus Life & Culture, SNU, 2017 to Present
- **Chair**, International Public Relations Committee, Korean Psychological Association, 2016 to Present

ACADEMIC HONORS AND AWARDS

- **Principal Investigator**, Assessing Perceptual/Cognitive/Psychomotor Ability of Older Adults to Develop Interface Design, Seoul National University, 2016-2017
- **Principal Investigator**, Emotion and Visual Information Processing, Seoul National University, 2015-2016
- **Principal Investigator**, Aging and Technology, College of Arts & Sciences, University of Oklahoma, 2012
- **Co-Investigator**, Brain Function Reorganization From Tumor Invasion and Radiotherapy: A Pilot fMRI Study. Presbyterian Health Foundation, 2006
- **Principal Investigator**, Emotion and Saccadic Eye Movement Control, College of Arts & Sciences, University of Oklahoma, 2006

- **Principal Investigator**, Facial Expression, Emotion, and Attention, Junior Faculty Summer Research Fellowship, University of Oklahoma, 2004
- **Principal Investigator**, Inhibition of Action, Research Council Grant, University of Oklahoma, 2003
- **Principal Investigator**, The Role of Temperament on Attention and Eye Movement, Junior Faculty Summer Research Fellowship, University of Oklahoma, 2002
- **Principal Investigator**, Aging and Decision Making, College of Arts & Sciences, University of Oklahoma, 2002

COURSES TAUGHT

Undergraduate

- Introduction to Psychology
- Cognitive Psychology
- Human Factors
- Psychology of Aging
- Research Methods

Graduate

- Affective Science
- Applied Cognitive Psychology
- Attention and Performance
- Human Factors and Performance
- Adult Development and Aging

PUBLICATIONS

- **Hahn, S., & Buttaccio, D. R.** (2017). Aging and guided visual search: The role of visual working memory. *Aging, Neuropsychology and Cognition*.
<http://dx.doi.org/10.1080/13825585.2017.1344185>
- **Hahn, S.** (2017). Emotion and attention: When the heart's eye guides the mind's eye. *Journal of Cognitive Science*, 18(2), 103-115.
- **Hahn, S.** (2017). 인지노화와 정보통신기술의 수용. *경제논집*, 56(1), 53-60.
- Huffman, W. B., & **Hahn, S.** (2017). Investigating Optimal Memory Enhancement Procedures in Foreign Language Learning. *Applied Cognitive Psychology*, 31(5), 539-545. DOI: 10.1002/acp.3351
- Kim, M., You, N., Kim, Y., **Hahn, S.**, & Yun, M. (2017). Acceptability of a robotic agent in older people using ICT ability. *The Japanese Journal of Ergonomics*, 53(2), S696-S698.
- **Hahn, S.**, & Chung, Y. (2016). Neuroticism, attention, and eye movements. In A. Di Fabio (Ed.), *Neuroticism: Characteristics, Impact on Job Performance and Health Outcomes* (pp. 103-112). New York: Nova Publishers.
- **Hahn, S.**, Buttaccio, D., Hahn, J., & Lee, T. (2015). Personality and attention: Levels of neuroticism and extraversion can predict attentional performance during a change detection task. *Quarterly Journal of Experimental Psychology*, 68(6), 1041-1048.
<http://dx.doi.org/10.1080/17470218.2015.1032986>
- Huffman, W. B., & **Hahn, S.** (2015). Cognitive principles in mobile learning. *Psychology*, 6, 456-463. <http://dx.doi.org/10.4236/psych.2015.64043>
- Buttaccio, D. R., Lange, N. L., **Hahn, S.**, Thomas, R. P. (2014). Explicit awareness

supports conditional visual search in the retrieval guidance paradigm. *Acta Psychologica*, 145, 44-53. doi:10.1016/j.actpsy.2013.10.014

- Buttaccio, D. R., Lange, N. D., **Hahn, S.**, Thomas, R. P., & Davelaar, E. J. (2013). Explicit awareness supports conditional visual search in the retrieval guidance paradigm. *Proceedings of the 35th Annual Meeting of the Cognitive Science Society*. Cognitive Science Society.
- Buttaccio, D. R., & **Hahn, S.** (2011). The influence of action on visual search: Behavioral response toward stimuli modifies the selection process. *Attention, Perception, & Psychophysics*, 73(5), 1453-1466.
- Buttaccio, D. R., & **Hahn, S.** (2010). The effect of behavioral response on affective evaluation. *Acta Psychologica*, 135, 343-348.
- Thomas, R. P., **Hahn, S.**, Lange, N.D., Buttaccio, D., Alberts, T., Dougherty, M.R., & Rose, L. (2010). Target identification and assessment in visual intelligence, surveillance, & reconnaissance. *Proceedings of the Missile Defense Sensors, Environments and Algorithms*; published by the Military Sensing Information Analysis Center (SENSIAC), a Department of Defense chartered Information Analysis Center.
- **Hahn, S.**, & Gronlund, S.D. (2007). Top-down guidance in visual search for facial expressions. *Psychonomic Bulletin & Review*, 14, 159-165.
- **Hahn, S.**, Carlson, C., Singer, S., & Gronlund, S. D. (2006). Aging and visual search: Automatic and controlled attentional bias to threat faces. *Acta Psychologica*, 123, 312-336.
- **Hahn, S.**, Andersen, G. J., & Kramer, A. F. (2004). Age influences on multi-dimensional set switching. *Aging, Neuropsychology, and Cognition*, 11, 25-36.
- **Hahn, S.**, Andersen, G. J., & Saidpour, A. (2003). Static scene analysis for the perception of heading. *Psychological Science*, 14, 543-548.
- **Hahn, S.**, Andersen, G. J., & Kramer, A. F. (2003). Multi-dimensional set switching. *Psychonomic Bulletin and Review*, 10, 503-509.
- Colcombe, A., Kramer, A.F., Irwin, D. E., Peterson, M., Colcombe, S., & **Hahn, S.** (2003). Age-related effects of attentional and oculomotor capture by onsets and color singletons as a function of experience. *Acta Psychologica*, 113, 205-225.
- Peterson, M., Kramer, A. F., Irwin, D. E., & **Hahn, S.** (2002). Modulating of oculomotor capture by abrupt onsets during attentionally demanding visual search. *Visual Cognition*, 9, 755-791.
- Kramer, A. F., **Hahn, S.**, McAuley, E., Cohen, N., Banich, M., Harrison, C., Chason, J., Boileau, R.A., Bardell, L., Colcombe, A., & Vakil, E. (2001). Exercise, Aging and Cognition: Healthy body, healthy mind? In W. A. Rogers & A. D. Fisk (Eds.), *Human factors interventions for the health care of older adults* (pp. 91-120). NJ: Erlbaum.
- Kramer, A. F., Cassavaugh, N. D., Irwin, D. E., Peterson, M. S., & **Hahn, S.** (2001). Influence of single and multiple onset distractors on visual search for singleton targets. *Perception and Psychophysics*, 63, 952-968.
- Kramer, A. F., **Hahn, S.**, Irwin, D. E., & Theeuwes, J. (2000). Age differences in the control of looking behavior: Do you know where your eyes have been? *Psychological*

Science, 3, 210-217.

- Irwin, D., Colcombe, A., Kramer, A. F., & **Hahn, S.** (2000). Capture of eyes by color and onset singletons. *Vision Research*, 40, 1443-1458.
- Kramer, A. F., **Hahn, S.**, McAuley, E. (2000). Influence of Aerobic Fitness on the Neurocognitive Function of Older Adults. *Journal of Aging and Physical Activity*, 8, 379-385.
- Kramer, A. F., **Hahn, S.**, Banich, M., Cohen, N., Colcombe, A., Bardell, L., Vakil, E., Chason, J., Harrison, C., & McAuley, E. (1999). Aging, fitness, and neurocognitive function. *Nature*, 400, 418-419.
- Kramer, A. F., **Hahn, S.**, Irwin, D. E., & Theeuwes, J. (1999). Attentional capture and aging: Implications for visual search performance and oculomotor control. *Psychology and Aging*, 14, 135-154.
- Theeuwes, J., Kramer, A. F., **Hahn, S.**, Irwin, D. E., & Zelinsky, G. (1999). Influence of attentional capture on oculomotor control. *Journal of Experimental Psychology: Human Perception and Performance*, 25, 1595-1608.
- Kramer, A. F., **Hahn, S.**, & Gopher, D. (1999). Coordinative executive processes during task switching. *Acta Psychologica*. 101, 339-378.
- **Hahn, S.**, & Kramer, A. F. (1998). Further evidence of division of attention over noncontiguous visual field. *Visual Cognition*, 5, 217-256.
- Theeuwes, J., Kramer, A. F., **Hahn, S.**, & Irwin, D. E. (1998). Our eyes do not always go where we want them to go: capture of the eyes by new objects. *Psychological Science*, 9, 379-385.
- **Hahn, S.**, Kramer, A. F., & Gopher, D. (1997). Aging and executive control. Proceedings of the 41st Annual Meeting on Human Factors and Ergonomics Society, Albuquerque, New Mexico.
- **Hahn, S.**, & Kramer, A. F. (1995). Attentional flexibility and aging: You don't need to be 20 years of age to split the beam. *Psychology and Aging*, 10, 597-609.
- Kramer, A. F., & **Hahn, S.** (1995). Splitting the beam: Division of attention over noncontiguous locations of the visual field. *Psychological Science*, 6, 381-386.

CONFERENCE PRESENTATIONS AND INVITED TALKS

- Kwon, D., & **Hahn, S.** (2016). The Effect of Cross-Modal Emotional Priming. *Poster presented for the 57th Annual Meeting of the Psychonomic Society*. November 17-20. Boston, MA.
- Kim, T., & **Hahn, S.** (2016). The Role of Perceptual Salience in Affective Conditioning. *Poster presented for the 57th Annual Meeting of the Psychonomic Society*. November 17-20. Boston, MA.
- **Hahn, S.**, & Buttaccio, D. R. (2015). Age Differences in Associative Learning to Guide Conditional Visual Search. *Poster presented for the 56th Annual Meeting of the Psychonomic Society*, November 19-22. Chicago, IL.

- Huffman, W. B., & **Hahn, S.** (2014). The effect of modality and retrieval practice in foreign language learning. *Poster presented for the 55th Annual Meeting of the Psychonomic Society*, November 20-23. Long Beach, CA.
- **Hahn, S.**, Buttaccio, D. R., & Hahn, J. (2013). Personality predicts attentional performance during a change detection task. *Poster presented for the 52nd Annual Meeting of the Psychonomic Society*, November 14-17. Toronto, Canada.
- Buttaccio, D. R., **Hahn, S.**, Brand, E., & Huffman, W. (2013). Aging and Probabilistic Visual Search. *Poster presented for the 52nd Annual Meeting of the Psychonomic Society*, November 14-17. Toronto, Canada.
- **Hahn, S.** (2013). The effect of behavioral response of affective evaluation. *Mind, Brain, and Cognitive Psychology*. Korea University. August 1-8. Seoul, Korea.
- **Hahn, S.** (2013). Emotion and action. *Invited Colloquium for the Psychology Department of Yeonsei University*. August 9. Seoul, Korea.
- **Hahn, S.**, & Buttaccio, D. R. (2012). After effects of action on selection: Attentional bias towards an acted upon object. *Paper presented for the 53rd Annual Meeting for the Psychonomic Society*, November. 15-18. Minneapolis, MN.
- Buttaccio, D. R., Lange, N., Thomas, R., **Hahn, S.**, & Dougherty, M. R. (2012). Hypothesis generation supports visual search: The influence of alternative outcomes and working memory capacity. *Poster presented for the 53rd Annual Meeting for the Psychonomic Society*, November. 15-18. Minneapolis, MN.
- Buttaccio, D. R., **Hahn, S.**, & Lange, N. D. (2011). Hypothesis Generation in a Probabilistic Visual Search Task. *Poster presented for the 52nd Annual Meeting for the Psychonomic Society*, November 3-6. Seattle, WA.
- Buttaccio, D. R., & **Hahn, S.** (2011). Visual search in a probabilistic context. *Paper presented at the annual meeting of the Oklahoma Judgment and Decision Making Conference*, Oklahoma City, OK.
- **Hahn, S.** & Buttaccio, D. R. (2010). Top-down influence of action on visual search. *Paper presented for the 51st Annual Meeting for the Psychonomic Society*, November 18-21. St. Louis, MO.
- Buttaccio, D. R., & **Hahn, S.** (2010). The effect of behavioral response on affective evaluation. *Poster presented for the 51st Annual Meeting for the Psychonomic Society*, November 18-21. St. Louis, MO.
- Thomas, R. P., **Hahn, S.**, Lange, N.D., Buttaccio, D., Alberts, T., Dougherty, M.R., & Rose, L. (2010). Target identification and assessment in visual intelligence, surveillance, & reconnaissance. *Paper presented at the MSS Missile Defense Sensors, Environment and Algorithms*, Oct. Orlando, FL.
- Buttaccio, D. R., & **Hahn, S.** (2009). Influence of Attention and Action on Affective evaluation of novel stimuli. *Poster presented for the 50th Annual Meeting of the Psychonomic Society*, November 19-22. Boston, MA.
- Lorat, T., & **Hahn, S.** (2008). Working memory and attention. *Poster presented for the 49th Annual Meeting of the Psychonomic Society*, November 13-16. Chicago, IL.
- Buttaccio, D., & **Hahn, S.** (2008). Attention, preference, and action. *Poster presented for the Southwestern Cognition Conference*, October 24-25. El Paso, TX,

- Lorat, T., & **Hahn, S.** (2008). Working memory and attention. *Poster presented for the Southwestern Cognition Conference*, October 24-25. El Paso, TX,
- **Hahn, S.** (2008). Action-based attention: Angry faces are detected faster but not more approachable. *Paper presented for the Interdisciplinary Conference on Human Performance*, March 28-29, Orlando, Florida.
- **Hahn, S.**, Nguyen, E., Lorat, T., & Jeon, A. (2006). Angry face is detected faster but not approachable. *Paper presented for the 47th Annual Meeting of the Psychonomic Society*. Houston, TX. November 16-19.
- **Hahn, S.**, Nguyen, E., Lorat, T., & Jeon, A. (2006). Visual search for facial expressions. *Paper presented for the Southwest Conference on Cognition*. Lubbock, TX. October 20-21.
- Lorat, T., Nguyen, E., & **Hahn, S.** (2006). Age influences on covert and overt attentional control to facial expressions. *Poster presented for the Cognitive Aging Conference*, Atlanta, GA. April 20-23.
- **Hahn, S.** (2004). Attentional guidance by emotionally valenced stimuli. *Invited Talk for the Psychology Department, University of Virginia*, July 23.
- **Hahn, S.** (2004). Facial Expression, Attention and Aging. *Poster presented for the Vision Science Society Meeting*, Sarasota, FL. April 29-May 5.
- **Hahn, S.**, & Andersen, G. J. (2002). Aging and multi-dimensional set switching. *Paper presented for the Cognitive Aging Conference*, Atlanta, GA. April 19-22.
- **Hahn, S.** (2002). Effects of sequence on task switching. *Poster presented for the 43rd Annual Meeting for Psychonomic Society*, Kansas City, MO, November 21-24.
- **Hahn, S.** (2002). Executive control of the task set preparation. *Paper presented for the Southwest Conference on Cognition*, San Antonio, Texas. October 25-26.
- Sauer, C., Andersen, G. J., Saidpour, A. & **Hahn, S.** (2001). Dual-task performance in driving: Steering and collision detection. *Paper presented for the 9th International Conference on Vision in Vehicles*, Brisbane, Australia.
- **Hahn, S.**, & Andersen, G. J. (2000). Response modality switching and aging. *Paper presented for the 8th Cognitive Aging Conference*, Atlanta, GA.
- Andersen, G. J. & **Hahn, S.** (2000). Priming of Action-based visual pathway. *Poster presented for the Annual Meeting on Association for Research in Vision and Ophthalmology*, Fort Lauderdale, Florida.
- **Hahn, S.**, & Andersen, G. J. (1999). High-level processing constraints in perception and action streams. *Poster presented for the 40th Annual Meeting of the Psychonomics Society*, Los Angeles, California.
- Kramer, A. F., **Hahn, S.**, & Irwin, D. (1999). Oculomotor capture and aging. *Paper presented for the 40th Annual Meeting of the Psychonomics Society*, Los Angeles, California.
- Peterson, M. S., Kramer, A. F., Irwin, D., & **Hahn, S.** (1999). Oculomotor capture by sudden onsets during visual search. *Poster presented for the 40th Annual Meeting of the Psychonomics Society*, Los Angeles, California.
- **Hahn, S.**, Kramer, A. F., De Jong, R., Gopher, D., Minear, M., & Glass, A. (1998). Aging and executive control in task switching. *Poster presented for the 7th Cognitive Aging Conference*, Atlanta, Georgia.

- Kramer, A. F., **Hahn, S.**, Banich, M., Cohen, N., McAuley, E., Bardell, L., Harrison, C., Chason, J., Vakil, Prioux, H., Glass, A., Minear, M., & Nash, C. (1998). Influence of aerobic fitness on the neurocognitive function of sedentary older adults. *Poster presented for the 7th Cognitive Aging Conference, Atlanta, Georgia.*
- Kramer, A. F., Irwin, D., **Hahn, S.**, Theeuwes, J., Glass, A. & Minear, M. (1998). Oculomotor control and attention: Inhibiting eye movements to task irrelevant objects. *Poster presented for the 7th Cognitive Aging Conference, Atlanta, Georgia.*
- Kramer, A. F., **Hahn, S.**, Irwin, D., & Theeuwes, J. (1998). Attentional capture and oculomotor control. *Advanced Displays and Interactive Displays. Paper presented for the 2nd Annual ARL Federated Laboratory Symposium, College Park, MD.*
- Theeuwes, J., Kramer, A. F., **Hahn, S.**, Irwin, D., & Zelinsky, G. (1997). Influence of attentional capture on oculomotor control. *Paper presented for the 38th Annual Meeting of the Psychonomics Society, Philadelphia, Pennsylvania.*
- Theeuwes, J., Kramer, A. F., **Hahn, S.**, Irwin, D., & Zelinsky, G. (1997). Effect of the appearance of a new object on oculomotor control. *Poster presented for the Annual Meeting on Association for Research in Vision and Ophthalmology, Fort Lauderdale, Florida.*
- Kramer, A. F., & **Hahn, S.** (1994). Distribution of attention in noncontiguous space. *Paper presented for the 35th Annual Meeting of the Psychonomics Society, St. Louis, MO.*
- **Hahn, S.**, & Kramer, A. F. (1994). Attention to noncontiguous locations. *Poster presented for the Converging Operations in the Study of Visual Selective Attention, Urbana-Champaign, Illinois.*