

*Curriculum Vitae*

**Sang Ho Lee**

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**EDUCATION**

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PhD in Cognitive Psychology, The Ohio State University *2015 - 2021*  
Co-advisors: Mark Pitt and Jay Myung  
Dissertation: Facilitatory and inhibitory mechanisms in the spatial distribution of attention:  
An empirical and model-based exploration

M.S. in Applied Statistics, Department of Statistics, The Ohio State University *2020*

M.A. in Cognitive Psychology, The Ohio State University *2017*

M.S. in Cognitive Psychology, Korea University *2015*

B.A. double major in Psychology & Economics, Korea University *2013*

**ACADEMIC EMPLOYMENT**

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Assistant Professor, *2024-Present*  
School of Digital Humanities and Computational Social Sciences, KAIST

Postdoctoral Fellow, Seoul National University *2021-2024*

**RESEARCH SUPPORT**

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**Ministry of Education in South Korea: 2022R1H1A1A01066530** *6/1/2022 – 5/31/2025*  
Developing real-time tasks and artificial intelligence frameworks for investigating individual differences in decision making and their neural mechanisms  
Role: PI  
Amount: 210,000,000 KRW

## PUBLICATIONS

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**Lee, S. H.,** Song, M. S., Oh, M. H., & Ahn, W. Y. (2024). Bridging the gap between self-report and behavioral laboratory measures: A real-time driving task with inverse reinforcement learning. *Psychological Science*, 35(4), 345-357.

**Lee, S. H.,** & Pitt, M. A. (2024). Implementation of an online spacing flanker task and evaluation of its test-retest reliability using measures of inhibitory control and the distribution of spatial attention. *Behavior Research Methods*, 1-12.

Kwon, M., **Lee, S. H.,** & Ahn, W. Y. (2023). Adaptive design optimization as a promising tool for reliable and efficient computational fingerprinting. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 8(8), 798-804.

**Lee, S. H.,** Kim, D., Opfer, J. E., Pitt, M. A., & Myung, J. I. (2022). A number-line task with a Bayesian active learning algorithm provides insights into the development of non-symbolic number estimation. *Psychonomic Bulletin & Review*, 1-14.

**Lee, S. H.,** & Pitt, M. A. (2022). Individual differences in selective attention reveal the nonmonotonicity of visual spatial attention and its association with working memory capacity. *Journal of experimental psychology: General*, 151(4), 749-762.

**Lee, S. H.,** Pitt, M. A., & Myung, J. I. (2018). Computational modeling of cognitive control in a flanker task. *Proceedings of the 40<sup>th</sup> Annual Meeting of the Cognitive Science Society*, pp.671-676.

Kim, S., **Lee, S. H.,** & Cho, Y. S. (2015). Control processes through the suppression of the automatic response activation triggered by task-irrelevant information in the Simon-type tasks. *Acta Psychologica*, 162, 51-61.

**Lee, S. H.,** Kim, S. P., & Cho, Y. S. (2015). Self-concept in fairness and rule establishment during a competitive game: a computational approach. *Frontiers in psychology*, 6, 1321.

## INVITED LECTURE

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**Lee, S. H.** (2022). A tutorial on model evaluation and comparison. *Annual Meeting of the Korean Society for Cognitive and Biological Psychology* (Virtual online conference).

## CONFERENCE ORAL PRESENTATIONS (Peer Reviewed)

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**Lee, S. H.,** Oh, M. H., & Ahn, W. Y. (2024). Inverse reinforcement learning captures value representations in the reward circuit in a real-time driving task: a preliminary study. *Cognitive Computational Neuroscience* (Boston, MA).

**Lee, S. H.,** Song, M. S., Oh, M. H., & Ahn, W. Y. (2023). Measuring impulsivity using a real-time driving task and inverse reinforcement learning. *The 56th Annual Meeting of the Society for Mathematical Psychology* (Amsterdam, Netherlands).

**Lee, S. H.,** Kim, D., Opfer, J., Pitt, M. A., & Myung, J. I. (2019). Active learning for a two-dimensional number-line task. *The 41st Annual Meeting of the Cognitive Science Society* (Montreal, Canada). (6-page submission was selected for \$500 Student Travel Award from the Cognitive Science Society.)

**Lee, S. H.,** & Pitt, M. A. (2019). Individual differences in working memory capacity reveal the non-monotonicity of visual spatial attention. *The 27th Conference on Object Perception, Visual Attention, and Visual Memory (OPAM: Montreal, Canada)*.

**Lee, S. H.,** Pitt, M. A., & Myung, J. I. (2018) Computational modeling of cognitive control in a flanker task. *The 40th Annual Meeting of the Cognitive Science Society* (Madison, WI).

## CONFERENCE POSTER PRESENTATIONS

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**Lee, S. H.,** & Pitt, M. A. (2023). Model-Based Exploration of Facilitatory and Inhibitory Mechanisms in Spatial Attention. *The 64th Annual Meeting of the Psychonomic Society* (San Francisco, CA).

**Lee, S. H.,** Song, M. S., Yang, J. Y., Oh, M. H., & Ahn, W. Y. (2022). Learning impulsive behaviors in a real-time task using inverse reinforcement learning. *The 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making* (Providence, RI).

**Lee, S. H.,** & Pitt, M. A. (2021). Facilitatory and inhibitory mechanisms underlying spatial attention in the flanker task. *The 62nd Annual Meeting of the Psychonomic Society* (Virtual online conference).

**Lee, S. H.,** Kim, D., Opfer, J., Pitt, M. A., & Myung, J. I. (2020). Machine learning optimizes assessment: New insights for the development of numerosity estimation. *The 42nd Annual Meeting of the Cognitive Science Society* (Virtual online conference).

**Lee, S. H.,** Han, J. H., Kim, H. J., Kim, S. P., & Cho, Y.S. (2014). The fairness model based on EEG hyper-scanning for behaviors in competitive games. *The 44th Annual Meeting of the Society for Neuroscience* (Washington, D.C.).

Lee, S. H., & Cho, Y. S. (2014). Computational model of inhibitory cognitive control in cross-task context. *The 55th Annual Meeting of the Psychonomic Society* (Long Beach, CA).

Lee, S. H., Kim, S. J., & Cho, Y. S. (2013). Congruency sequence effect between two different Simon congruencies. *The 21st Conference on Object Perception, Visual Attention, and Visual Memory (OPAM)*: Toronto, Canada).

## ACADEMIC SERVICE

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### Journal reviewer

- Psychological Science
- Behavior Research Methods
- Quarterly Journal of Experimental Psychology
- Psychological Review (co-reviewer)
- Biological Psychiatry: Cognitive Neuroscience and Neuroimaging (co-reviewer)

## REFERENCES

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Professor Mark Pitt

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Professor Jay Myung

Department of Psychology, The Ohio State University

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