

## Yeon Soon Shin

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### Education and Training

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- 2020- **Postdoctoral Research Associate**  
Department of Psychology, Yale University  
Department of Psychology, Princeton University  
Advisor: Molly J. Crockett, Ph.D.
- 2014-2020 **Ph.D. in Neuroscience**  
Princeton Neuroscience Institute, Princeton University  
Advisors: Yael Niv, Ph.D. and Kenneth A. Norman, Ph.D.  
Thesis: *The organization of experiences and its effects on episodic memory and decision-making*
- 2013-2014 **Post-Master's Research Associate**  
Integrated Neurocognitive Functional Imaging Center (INFIC),  
Yonsei University, Seoul, Korea
- 2011-2013 **M.A. in Psychology**  
Department of Psychology, Yonsei University, Seoul, Korea  
Advisor: Sanghoon Han, Ph.D.
- 2006-2011 **B.A. in Psychology**  
Yonsei University, Seoul, Korea

### Working Papers/ In Prep

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- Mirea, D.- M.\*, **Shin, Y. S.\***, DuBrow, S., & Niv, Y. (Submitted). The ubiquity of time in latent-cause inference. *Journal of Cognitive Neuroscience*
- Crockett, M. J., Kim, J. S., & **Shin, Y. S.** (Under Revision). Intuitive theories and the cultural evolution of morality. *Current Directions in Psychological Science*
- Shin, Y. S.**, Wilkins, L., Siegel, J., Mathys, C., Rutledge, R., Saunders, K. & Crockett, M. J. (In Prep). Adaptive social decisions are disrupted in highly antagonistic individuals
- Shin, Y. S.**, Zoh, Y., Kim, J. S. & Crockett, M. J. (In Prep). Revealing structural causes of social inequality with individualizing narratives
- Zoh, Y., **Shin, Y. S.**, Carlson, R. W., Chang, S. W. C., & Crockett, M. J. (In Prep). Historical principles in distributive decision-making are common, politically variant and malleable
- Mirea, D.- M.\*, **Shin, Y. S.\***, Yusina, Y., DuBrow, S., & Niv, Y. (In Prep). Quantifying the latent-cause inference and its relationship with psychiatric symptoms
- Shin, Y. S.\***, Bedder, R.\*, Klevak, N. DuBrow, S., & Niv, Y. (In Prep). Uncovering and utilizing the hidden structure in categorization: an fMRI study

\*equally contributing first authors

## Publications

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- Everett, J. A., Colombatto, C., Awad, E., Boggio, P., Bos, B., Brady, W. J., ..., **Shin, Y. S.**, ... & Crockett, M. J. (2021). Moral dilemmas and trust in leaders during a global health crisis. *Nature Human Behaviour*, 5(8), 1074-1088.
- Radulescu, A., **Shin, Y. S.**, & Niv, Y. (2021). Human representation learning. *Annual Review of Neuroscience*, 44(1), 253-273.
- Shin, Y. S.** & Niv, Y. (2021). Biased evaluations emerge from inferring hidden causes, *Nature Human Behaviour*, 1180–1189.
- Shin, Y. S.\***, Masís-Obando, R.\*, Keshavarzian, N., Dáve, R., & Norman, K. A. (2021). Context-dependent memory effects in two immersive virtual reality environments: On Mars and underwater. *Psychonomic Bulletin & Review*, 28, 574-582.
- Shin, Y. S.**, & DuBrow, S. (2021). Structuring memory through inference-based event segmentation. *Topics in Cognitive Science*, 13(1), 106-127.
- Shin, Y. S.**, Kim, H-Y., Min, S., & Han, S. (2017). Estimation of reward probability in the fronto-parietal functional network: an fMRI study. *Science of Emotion & Sensibility*, 20(4), 101-112.
- Shin, N-Y., **Shin, Y. S.**, Lee, P., Yoon, U., Han, S., Kim D., & Lee, S-K. (2016). Different functional and microstructural changes depending on duration of mild cognitive impairment in Parkinson disease. *American Journal of Neuroradiology*. 37(5), 897-903.
- Shin, Y. S.**, Kim, H-Y., & Han, S. (2014). Neural correlates of social perception on response bias, *Brain and Cognition*, 88, 55-65.
- Kim, H-Y., **Shin, Y. S.**, & Han, S. (2014). The reconstruction of choice value in the brain: a look into the size of consideration sets and their affective consequences, *Journal of Cognitive Neuroscience*, 26(4), 810-824.
- Kim, H-Y., **Shin, Y. S.**, & Han, S. (2014). Self-concept molds choice experiences among multiple alternatives: an fMRI study, *Korean Journal of the Science of Emotion and Sensibility*, 16(4), 445-456.
- Shin, Y. S.**, Han, S. (2013). Goal-directed learning and memory, *Korean Journal of the Science of Emotion and Sensibility*, 16(3), 319-332.
- Shin, Y. S.**, Kim, H-Y., Han, S. (2013). Imagining negative futures to reduce the delay neutralization of negativity, *Korean Journal of the Science of Emotion and Sensibility*. 16(3), 293-304.
- Kim, H-Y., **Shin, Y. S.**, & Han, S. (2011). Being another person to be future-minded: common neural substrates of perspective-taking, prospective memory, and intertemporal choice, *Korean Journal of Cognitive & Biological Psychology*, 23(4), 505-531.

## Contributed Conference Presentations and Talks

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- Wilkins, L., **Shin, Y. S.**, Siegel, J., Mathys, C., Rutledge, R., Saunders, K. & Crockett, M. J. (May 2023). Optimistic social beliefs and attachment security buffer the link between childhood trauma and psychopathy, Poster presented at *2023 Association for Psychological Science (APS) Annual Convention, Washington, DC*
- Shin, Y. S.**, Wilkins, L., Siegel, J., Mathys, C., Rutledge, R., Saunders, K. & Crockett, M. J. (April 2023). Strong pessimistic priors in highly antagonistic individuals disrupts adaptive social

learning, Poster presented at *the 78<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry, San Diego, CA*

- Shin, Y. S.**, & Crockett, M. J. (July 2022). Constructing positive illusions in close relationships through latent-cause inference, Flash Talk given at *the 44<sup>th</sup> Annual Meeting of the Cognitive Science Society, Toronto, Ontario, Canada*
- Chawla, M., **Shin, Y. S.**, Chang, S. & Crockett, M. J. (July 2022) Gender disparities in blame and praise for moral norm violation and adherence, Talk given at the 3<sup>rd</sup> joint meeting of *the Society for Philosophy and Psychology (SPP) and European Society for Philosophy and Psychology, Milan, Italy*
- Mirea, D- M., **Shin, Y. S.**, DuBrow, S., & Niv, Y. (July 2022). Individual differences in latent-cause inference map onto transdiagnostic dimensions of mental health, Data Blitz presented at *Computational Psychiatry Course (CPP++)*, New York City, NY
- Rapp, A. M., Mirea, D- M., **Shin, Y. S.**, DuBrow, S., Niv, Y., & Simpson, H. B. (July 2022). Individual differences in latent-cause inference are associated with clinical symptoms of obsessive compulsive disorder, Poster presented at *Computational Psychiatry Course (CPC++)*, New York City, NY
- Yusina, Y., Mirea, D- M., **Shin, Y. S.**, DuBrow, S., & Niv, Y. (July 2022). Latent-cause inference: a new way to look at schizotypy, Poster presented at *Computational Psychiatry Course (CPC++)*, New York City, NY
- Mirea, D- M., **Shin, Y. S.**, Yusina, Y., DuBrow, S., & Niv, Y. (June 2022). Quantifying the latent-cause inference and its relationship with psychiatric symptoms, Poster presented at *the multi-disciplinary conference on Reinforcement Learning and Decision Making (RLDM)*, Providence, RI
- Mirea, D- M., **Shin, Y. S.**, DuBrow, S., & Niv, Y. (April 2022). Associations between latent-cause inference and transdiagnostic mental health dimensions, Poster presented at *the 77<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry, New Orleans, LA*
- Shin, Y. S.**, & Niv, Y. (October 2021). Biased evaluations emerge from inferring hidden causes, Symposium given at *the Society for Experimental Social Psychology (SESP)*, Santa Barbara, CA
- Shin, Y. S.** (May 2021). The inference-based organization of experiences in episodic memory and decision-making, Invited Talk given at *University of California, Irvine CogSci Colloquium, Irvine, CA*
- Shin, Y. S.**, Niv, Y., & DuBrow, S. (May 2019). A latent-cause inference account of event segmentation under perceptual ambiguity, Talk given at *the Manhattan Area Memory Meeting (MAMM)*, Princeton, NJ
- Shin, Y. S.**, Masis-Obando, R., Davé R., Keshavarzian, N., Norman, K.A. (May 2019). Context-dependent memory effects in two immersive virtual reality environments: on Mars and underwater, Poster presented at *the Context and Episodic Memory Symposium (CEMS)*, Philadelphia, PA
- Shin, Y. S.**, Niv, Y., & DuBrow, S. (May 2019). A latent-cause inference account of event segmentation under perceptual ambiguity, Poster presented at *the Context and Episodic Memory Symposium (CEMS)*, Philadelphia, PA
- Shin, Y. S.**, Niv, Y., & DuBrow, S. (March 2019). A latent-cause inference account of event segmentation under perceptual ambiguity, Poster presented at *the Cognitive Neuroscience Society (CNS) Annual Meeting, San Francisco, CA*

- Shin, Y. S.** & Niv, Y. (May 2018). Latent-cause inference in social biases, Poster presented at *the Social & Affective Neuroscience Society (SANS) Annual Meeting, Brooklyn, NY*
- Shin, Y. S.** & Niv, Y. (January 2018). Latent-cause inference in social biases, Talk given at *the Neuroscience and Social Decision-Making (NSDM) talk series, Princeton University, Princeton, NJ*
- Shin, Y. S.** & Niv, Y. (November 2017). Latent cause inference in social biases, Poster presented at *the Society for Neuroscience (SfN) Annual Meeting, Washington, D.C.*
- Shin, Y. S.** & Niv, Y. (September 2017). Latent cause inference in social biases, Poster presented at *the Computational Cognitive Neuroscience (CCN) Annual Meeting, New York, NY*
- Shin, Y. S.** & Niv, Y. (June 2017). Latent cause inference in social biases, Poster presented at *the multi-disciplinary conference on Reinforcement Learning and Decision Making (RLDM), Ann Arbor, MI*
- Shin, Y. S.** & Niv, Y. (May 2017). Latent cause inference in social biases, Talk given at *the Princeton Neuroscience Institute Retreat, Avalon, NJ*
- Shin, Y. S.** & Niv, Y. (May 2017). Finding it hard to change your mind after one bad experience? You might be too (approximately) Bayesian, Poster presented at *the Context and Episodic Memory Symposium (CEMS), Philadelphia, PA*
- Shin, Y. S.** & Niv, Y. (August 2016). Finding it hard to change your mind after one bad experience? You might be too Bayesian, Poster presented at *the Society for Neuroeconomics (SNE) Annual Meeting, Berlin, Germany*
- Shin, N-Y., **Shin, Y. S.**, Yi, S., Han, S., & Lee, S.-K. (June 2014). Cognitive impairments and abnormal resting-state functional connectivity in Parkinson's disease, Poster presented at *the Organization for Human Brain Mapping (OHBM) Annual Meeting, Hamburg, Germany*
- Shin, Y. S.**, Yi, S., & Han, S. (April 2013). Theory of memory: neural correlates of successful differentiation of shared versus non-shared memory, Poster presented at *the Cognitive Neuroscience Society (CNS) Annual Meeting, San Francisco, CA*
- Kim, H.-Y., **Shin, Y. S.**, & Han, S. (April 2013). You will like it as much as it hurts: interplay of striatum, dorsal anterior cingulate cortex, and insula, Poster presented at *the Cognitive Neuroscience Society (CNS) Annual Meeting, San Francisco, CA*
- Shin, Y. S.**, Shin, J.H., & Han, S. (January 2013). A Risk-taking behavior in recognition memory judgment of striatal lesion patients, Talk given at *the Annual Conference of the Korean Society for Cognitive Science, Gyeongju, Korea*
- Shin, Y. S.**, Yi, S., & Han, S. (November 2012). Representational similarity of theory of memory in episodic decision, Poster presented at *the Korean Society for Human Brain Mapping Fall Conference, Seoul, Korea*
- Shin, Y. S.**, Kim, H.-Y., & Han, S. (September 2012). Neural substrates of learning about response bias, Poster presented at *the Society for Neuroeconomics (SNE) Annual Meeting, Miami, FL*
- Kim, H.-Y., **Shin, Y. S.**, & Han, S. (September 2012). Modulatory effect of consideration set size and contrast on choice satisfaction, Poster presented at *the Society for Neuroeconomics (SNE) Annual Meeting, Miami, FL*
- Shin, Y. S.**, Kim, H., Kim, H.-Y., & Han, S. (April 2012). First impression matters: the influence of initial impression on reversal learning, Poster presented at *the Cognitive Neuroscience Society (CNS) Annual Meeting, Chicago, IL*

- Shin, Y. S.**, Kim, H.-Y., & Han, S. (February 2012). Devil takes the hindmost: an investigation of reducing delay discounting of negativity, Talk given at *the Annual International Conference on Cognitive and Behavioral Psychology, Singapore*
- Kim, H.-Y., **Shin, Y. S.**, & Han, S. (February 2012). Being another person to be future-minded: common neural substrates of perspective-taking, prospective memory, and intertemporal choice, Talk given at *the Annual International Conference on Cognitive and Behavioral Psychology, Singapore*
- Shin, E., **Shin, Y. S.**, Han, S., Schneider, K.A., Saults, J.S., & Sher, K.J. (September, 2011). Suppressive effects of alcohol on fMRI bold response during face attractiveness evaluation, Poster presented at *the Society for Psychophysiological Research Annual Meeting, Boston, MA*
- Shin, Y. S.**, Kim, H.-Y., & Han, S. (June 2011). A state-space analysis of feedback-based learning for yeasayer and naysayer's response tendency, Talk given at *the Korean Society for Cognitive Science, Seoul, Korea*
- Kim, H.-Y., **Shin, Y. S.**, & Han, S. (June 2011). Neural similarity of perspective-taking and future thinking and its influence of intertemporal choice, Talk given at *the Korean Society for Cognitive Science, Seoul, Korea*
- Kim, H.-Y., **Shin, Y. S.**, & Han, S. (May 2011). Fronto-parietal functional connectivity during recognition of gain probability: an fMRI study, Poster presented at *the Korean Society for Cognitive and Biological Psychology, Changwon, Korea*

## Teaching and Mentoring Experiences

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Fall 2020-Fall 2021	<b>Jenny Cheng</b> (Undergraduate thesis student) PI: Molly Crockett, Ph.D.
Fall 2020-Spring 2021	<b>Mira Raju</b> (Undergraduate research assistant) PI: Molly Crockett, Ph.D.
Spring 2017-Spring 2019	<b>Riya Davé</b> (Undergraduate thesis student) PI: Kenneth A. Norman, Ph.D.
Summer 2018	<b>Paul Kazelis Jr.</b> (Undergraduate summer intern) PI: Yael Niv, Ph.D.
Fall 2016-Fall 2017	<b>Yotam Sagiv</b> (Undergraduate thesis student) PIs: Yael Niv, Ph.D. and Jonathan D. Cohen, Ph.D.
Fall 2015	<b>Fundamentals of Neuroscience</b> Instructor: Ilana Witten, Ph.D.
Spring 2012	<b>Experimental Methodology of Psychology</b> Instructor: Sanghoon Han, Ph.D.
Spring 2011	<b>Experimental Methodology of Psychology</b> Instructor: Sanghoon Han, Ph.D.

## Honors and Awards

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- 2017      **Trainee Professional Development Awards**  
Society for Neuroscience (SfN) Annual Meeting, *Washington D.C.*
- 2015      **Student Travel Fellowships**  
The multi-disciplinary conference on Reinforcement Learning and Decision Making (RLDM), *Edmonton, Canada*
- 2013-2019      **Doctoral Study Abroad Scholarship**  
Korea Foundation for Advanced Studies (KFAS)
- 2012-2013      **National Research Scholarship**  
Korea Student Aid Foundation (KOSAF)
- 2012      **Best Student Paper Award**  
Annual International Conference on Cognitive and Behavioral Psychology, *Singapore*

## Service

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- Fall 2017-Fall 2018      Co-organizer, Neuroscience and Social Decision-Making (NSDM) talk series, *Princeton Neuroscience Institute*
- 2023      Application Statement Feedback Program (ASFP; asfp.io) editor

## Ad-hoc Reviews

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*Nature Communications, Cognition, Journal of Experimental Psychology: Learning, Memory, and Cognition, Psychonomic Bulletin & Review, PLOS computational biology, Social Cognitive and Affective Neuroscience, Royal Society Open Science, Scientific Reports*