

Yeon Soon Shin

Curriculum Vitae

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Academic Positions

- 2024-present Bryn Mawr College, Department of Psychology
Affiliated with the Bi-College Neuroscience Program at Bryn Mawr/Haverford
Assistant Professor
- 2022-2024 Princeton University, Department of Psychology
Postdoctoral Research Associate
Advisor: Dr. M.J. Crockett
- 2020-2022 Yale University, Department of Psychology
Postdoctoral Research Associate
Advisor: Dr. M.J. Crockett

Education

- 2020 Princeton University, Princeton Neuroscience Institute
Ph.D. in Neuroscience
Advisors: Drs. Yael Niv and Kenneth A. Norman
Thesis: *The organization of experiences and its effects on episodic memory and decision-making*
- 2013 Yonsei University, Department of Psychology
M.A. in Psychology
Advisor: Dr. Sanghoon Han
Thesis: *The roles of caudate nucleus and DLPFC in social perception of response bias*
- 2011 Yonsei University, Department of Psychology
B.A. in Psychology
Graduated with Highest Honor

Publications

*: equal contribution, #: mentee

Peer-Reviewed Journal Articles

*Mirea, D-. M., ***Shin, Y. S.**, DuBrow, S., & Niv, Y. (2024). The ubiquity of time in latent-cause inference. *Journal of Cognitive Neuroscience*

Crockett, M. J., Kim, J. S., & **Shin, Y. S.** (2024). Intuitive theories and the cultural evolution of morality. *Current Directions in Psychological Science*

- 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.

Manuscripts in Preparation

- 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
- 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

Talks and Presentations

External Colloquia and Invited Talks

- Apr 2024 MCP (Mathematical and Computational Psychology)/Cog (Cognitive Psychology)
Colloquium, Purdue University
A rational analysis of biased social cognition
- Mar 2024 Department of Psychology Seminar, Bryn Mawr College
A computational analysis of biased social cognition
- Jan 2023 Department of Psychology Seminar, University of British Columbia
Making sense of the world through structuring experiences
- Dec 2021 Department of Psychology Seminar, University of Michigan
Constructing mental summaries to guide decisions
- Jun 2021 Social Cognitive Development Lab, Yale University
The organization of experiences and its effects on episodic memory and decision-making
- May 2021 Cognitive Sciences Colloquium, University of California, Irvine
The organization of experiences and its effects on episodic memory and decision-making
- Sep 2019 Crockett Lab, Yale University
What comes to mind: the organization of experiences through inference and its effects on decision-making and episodic memory

Conference Talks

*: equal contribution, #: mentee

- Shin, Y. S.**, Zoh, Y., Kim, J. S., & Crockett, M. J. (June 2024). Epistemic risks of identity-blind causal inference under structural inequality, Symposium given at *the 50th annual meeting of the Society for Philosophy and Psychology (SPP)*, West Lafayette, IN
- #Chawla, M., **Shin, Y. S.**, Fagan, N., Chang, S., & Crockett, M. J. (February 2024) Gender biases in moral judgments are predicted by disparities in surprise following norm violations, Student Award Winner Talk given at *the Gender Preference of the Annual Convention of the Society for Personality and Social Psychology (SPSP)*, 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 44th 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 3rd 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
- 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.**, 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.**, 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.**, 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, 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*

Conference Poster

*: equal contribution, #: mentee

- #Chawla, M., **Shin, Y. S.**, Fagan, N., Chang, S., & Crockett, M. J. (February 2024) Gender biases in moral judgments are predicted by disparities in surprise following norm violations, Poster presented at *the Gender Preconference of the Annual Convention of the Society for Personality and Social Psychology (SPSP), San Diego, CA*
- #graduate student mentee awarded first place in the SPSP gender preconference student awards*
- #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 78th Annual Meeting of the Society of Biological Psychiatry (SOBP), San Diego, CA*
- 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 77th Annual Meeting of the Society of Biological Psychiatry, New Orleans, LA*
- Shin, Y. S.**, Masís-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. (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). 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.**, 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, 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*

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 Research Mentoring

Teaching

Lead Instructor, Bryn Mawr College
PSYC B265 Computational Neuroscience (Fall 2024)

Assistant in Instruction, Princeton University
NEU201/PSY258 Fundamentals of Neuroscience (Fall 2015)

Teaching Assistant, Yonsei University
PSY2104 Experimental Methodology of Psychology (Spring 2011, Spring 2012)

Research Mentoring

Fall 2020-Fall 2021	Jenny Cheng, undergraduate thesis student at Yale University Thesis title: <i>Subcomponents of psychopathy on moral impression formation</i>
Fall 2020-Spring 2021	Mira Raju, undergraduate research assistant at Yale University
Spring 2017-Spring 2019	Riya Davé, undergraduate thesis student at Princeton University Thesis title: <i>Context-dependent memory effects in two immersive virtual environments: on Mars and underwater</i>
Summer 2018	Paul Kazelis Jr., undergraduate summer intern at Princeton University via Research Experiences for Undergraduates (REU) program
Fall 2016-Fall 2017	Yotam Sagiv, undergraduate research assistant at Princeton University

Honors and Awards

2017	Trainee Professional Development Award (TPDA), Society for Neuroscience (SfN)
2015	Student Travel Fellowship, The multi-disciplinary conference on Reinforcement Learning and Decision-making (RLDM)

- 2013-2019 Doctoral Study Abroad Fellowship, Korea Foundation for Advanced Studies (KFAS)
- 2012-2013 National Research Scholarship, Korea Student Aid Foundation
- 2012 Best Student Paper Award, Annual International Conference on Cognitive and Behavioral Psychology

Professional Service and Activities

Service

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

Ad-hoc Journal Reviewer

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, Neuron, Memory and Cognition, Open Mind

Ad-hoc Grant Reviewer

National Science Foundation (NSF)

Ad-hoc Conference Reviewer

Cognitive Science Society (CogSci)