

Jae-Young Son - Curriculum Vitae

Email: jae@brown.edu

Website: www.jaeyoungson.com

Last updated December 20, 2023

Education

- | | |
|--------------|--|
| Ph.D. | Brown University
Dept. of Cognitive, Linguistic, & Psychological Sciences (CLPS)
2018 - 2024 (expected)
Advisor: Oriel FeldmanHall |
| Sc.M. | Brown University
Dept. of Cognitive, Linguistic, & Psychological Sciences (CLPS)
2023 |
| B.A. | Stanford University
2012 - 2016 |

Employment

- | | |
|--------------------|--|
| 2016 - 2018 | Lab Manager
Brown University
Dept. of Cognitive, Linguistic, & Psychological Sciences (CLPS)
Supervisor: Oriel FeldmanHall |
| 2013 - 2016 | Research Assistant
Stanford University
Dept. of Psychology
Supervisors: Jamil Zaki & W. Craig Williams |

Preprints

1. **Son, J.***, Vives, M-L.*, Bhandari, A., & FeldmanHall, O. (preprint). Replay shapes abstract cognitive maps for efficient social navigation. *bioRxiv*.
 * *Equal contribution*.
[Online \(preprint\)](#) | [Data & Code](#)

Publications

2. **Son, J.**, Bhandari, A., & FeldmanHall, O. (2023). Abstract cognitive maps of social network structure aid adaptive inference. *Proceedings of the National Academy of Sciences*.
[Online](#) | [PDF](#) | [Data & Code](#)

3. **Son, J.**, Bhandari, A., & FeldmanHall, O. (2021). Cognitive maps of social features enable flexible inference in social networks. *Proceedings of the National Academy of Sciences*.
[Online](#) | [PDF](#) | [Data & Code](#)
4. Heffner, J., **Son, J.**, & FeldmanHall, O. (2021). Emotion prediction errors guide socially adaptive behaviour. *Nature Human Behaviour*.
[Online](#) | [PDF](#) | [Data & Code](#)
5. **Son, J.**, Bhandari, A., & FeldmanHall, O. (2019). Crowdsourcing punishment: Individuals reference group preferences to inform their own punitive decisions. *Scientific Reports*.
[Online \(open access\)](#) | [PDF](#) | [Data & Code](#)
6. FeldmanHall, O., **Son, J.**, & Heffner, J. (2018). Norms and the flexibility of moral action. *Personality Neuroscience*.
[Online \(open access\)](#) | [PDF](#)

Unpublished Work

7. Williams, W.C., Leong, Y.C., Collier, E.A., Nook, E.C., **Son, J.**, & Zaki, J. (preprint). Communicating emotion through facial expressions: Social consequences and neural correlates. *PsyArXiv*.
[Online \(preprint\)](#)

Talks

- | | |
|------|--|
| 2024 | Lab meeting (PIs Matthew Apps, Romy Froemer, Arkady Konovalov, Patricia Lockwood, & Lei Zhang), University of Birmingham, Birmingham, UK. <i>Forthcoming</i> |
| 2023 | New England Research on Decision-Making, Cambridge, MA. |
| 2023 | Lab meeting (PIs Fiery Cushman, Mina Cikara, & Joshua Greene), Harvard University, Cambridge, MA. |
| 2023 | Lab meeting (PI Rebecca Saxe), Massachusetts Institute of Technology (MIT), Cambridge, MA. |
| 2022 | Emerging Scholars of Psychological Science, Princeton University, Princeton, NJ. |
| 2022 | Lab meeting (PI Soyoung Park), Decisional Neuroscience and Nutrition at the German Institute of Human Nutrition (DIfE), Potsdam, Germany. |
| 2022 | Social Minds Reading Group, Center for Adaptive Rationality at the Max Planck Institute for Human Development, Berlin, Germany. |
| 2021 | Lab meeting (co-PIs Amit Goldenberg and Jillian Jordan), Harvard Business School, Cambridge, MA. |
| 2021 | Lab meeting (PI Daphna Buchsbaum), Brown University, Providence, RI. |
| 2021 | Seminar, Indian Institute of Technology (IIT) Gandhinagar, Gujarat, India. |
| 2021 | Social Cognitive Seminar, Brown University, Providence, RI. |
| 2021 | Seminar, University of Limerick, Limerick, Ireland. |
| 2021 | Lab meeting (PI Matthew Nassar), Brown University, Providence, RI. |

- 2021 Lab meeting (PI Hyowon Gweon), Stanford, CA.
- 2021 Lab meeting (PI Yuko Munakata), UC Davis, Davis, CA.
- 2019 Social Cognitive Seminar, Brown University, Providence, RI.
- 2019 New England Research on Decision-Making, Cambridge, MA.
- 2018 Lab meeting (PI Liane Young), Boston College, Boston, MA.
- 2017 New England Research on Decision-Making, Providence, RI.

Posters & Conference Abstracts * Indicates mentored student.

1. **Son, J.**, Bhandari, A., & FeldmanHall, O. (June 2022). The Successor Representation Explains How People Infer Unobserved Relationships in Social Networks. Presented at the 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making, Providence, RI.
2. **Son, J.**, Bhandari, A., & FeldmanHall, O. (October 2020). Structural knowledge adaptively shapes the representation of social networks. Presented at the 18th Annual Meeting of the Society for NeuroEconomics (virtual).
3. **Son, J.**, Bhandari, A., & FeldmanHall, O. (March 2019). Crowdsourcing punishment: Individuals reference group preferences to inform their own punitive decisions. Presented at the 6th Annual Meeting of the Society for Affective Science, Boston, MA.
4. Heffner, J., **Son, J.**, & FeldmanHall, O. (March 2018). Emotion prediction errors predict decisions to punish. Presented at the 21st Annual Mind/Brain Research Day, Providence, RI.
5. Lee, W.*, **Son, J.**, & FeldmanHall, O. (March 2018). Social influence increases preferences for uncertain gambles. Presented at the 21st Annual Mind/Brain Research Day, Providence, RI.
6. Hu, M.*, **Son, J.**, & FeldmanHall, O. (August 2017). Acquired equivalence: Evidence for mechanisms supporting moral learning. Presented at the annual Brown Summer Research Symposium, Providence, RI.
7. **Son, J.**, & FeldmanHall, O. (May 2017). A tipping-point conformity effect for justice: Group choice shifts preferences for punishment. Presented at the 29th Annual Meeting of the Association for Psychological Science, Boston, MA.
8. **Son, J.**, & FeldmanHall, O. (March 2017). A tipping-point conformity effect for justice: Group choice shifts preferences for punishment. Presented at the 20th Annual Mind/Brain Research Day, Providence, RI.
9. Williams, W.C., Leong, Y.C., **Son, J.**, Alqueza, K., & Zaki, J. (April 2016). Facial expressions track brain regions associated with affective salience and theory of mind.

Presented at the 9th Annual Meeting of the Social & Affective Neuroscience Society, New York, NY.

10. Williams, W.C., Leong, Y.C., **Son, J.**, Alqueza, K., & Zaki, J. (March 2016). Facial expressions track brain regions associated with affective salience and theory of mind. Presented at the 3rd Annual Meeting of the Society for Affective Science, Chicago, IL.
11. Williams, W.C., Leong, Y.C., **Son, J.**, Alqueza, K., & Zaki, J. (January 2016). Facial expressions track brain regions associated with affective salience and theory of mind. Presented at the 17th Annual Emotion Pre-Conference to the Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.
12. Williams, W.C., Nook, E., **Son, J.**, & Zaki, J. (April 2014). Audiences enhance the expression and communication but not the experience of emotion. Presented at the 7th Annual Meeting of the Social & Affective Neuroscience Society, Denver, CO.
13. Williams, W.C., Nook, E., **Son, J.**, & Zaki, J. (February 2014). Audiences enhance the expression and communication but not the experience of emotion. Presented at the 9th Annual Emotion Pre-Conference to the Annual Meeting of the Society for Personality and Social Psychology, Austin, TX.
14. Williams, W.C., Nook, E., **Son, J.**, & Zaki, J. (June 2013). Audiences enhance the expression and communication but not the experience of emotion. Presented at the Stanford PsychSummer Conference.

Grants & Fellowships

2023 - 2024	Carney Institute for Brain Science Graduate Award (\$68,000)
2022 - 2023	Betty R.H. and James M. Pickett Endowed Fellowship in Psychology
2019 - 2022	National Science Foundation Graduate Research Fellowship Program (\$138,000, award #2040433)
2015	Stanford Undergraduate Advising & Research "Small Grant" (\$1,500)
2014	Stanford Undergraduate Teaching Fellowship (\$1,000)
2013	Stanford PsychSummer Grant (\$7,500)

Awards & Honors

2022	Brown University Presidential Award for Excellence in Teaching
2016	Stanford University Departmental Honors (B.A. Psychology)
2013	Stanford University PsychSummer "Best of Show" Poster Award

Research Training

2019	Methods in Neuroscience at Dartmouth (MIND). Dartmouth College, Hanover, NH.
2017	Computational Modeling Workshop. Brown Institute for Brain Science, Brown University, Providence, RI.

Teaching

2021	Guest Instructor, Computational Psychiatry Course Zurich. Translational Neuromodeling Unit, Zurich, Switzerland. Delivered introductory lecture on drift diffusion modeling (DDM) to an audience of 400+ attendees. Taught hands-on tutorial for using the HDDM package.
2021	Teaching Assistant, CLPS 0010: Mind, Brain, and Behavior: An Interdisciplinary Approach. Brown University, Providence, RI. Supervisor: Dr. Elena Festa. Taught in both Summer 2021 and Fall 2021. Taught weekly sections in an introductory lecture course with an enrollment of 200 students. Delivered solo guest lecture on social psychology.
2019 - 2021	Guest Instructor, Computational Modeling Workshop. Carney Institute for Brain Science, Brown University, Providence, RI. Delivered hands-on workshop for using the HDDM package.
2020	Teaching Assistant, CLPS 0700: Social Psychology. Brown University, Providence, RI. Supervisor: Dr. Oriel FeldmanHall. Introductory lecture course with an enrollment of 300 students. Delivered solo guest lecture on attribution.
2019	Teaching Assistant, CLPS 1790: Personality and Clinical Assessment. Brown University, Providence, RI. Supervisor: Dr. Jack Wright. Upper-level lab course with capped enrollment of 24 students.
2019	Workshop Instructor, Data Science Using R. Brown University, Providence, RI. Primary instructor. Weekly undergraduate-level workshop. Covered data wrangling, visualization, and mixed-effects regression.
2019	Guest Lecturer, Summer @ Brown. Brown University, Providence, RI. Delivered a lecture entitled "Social Preferences and the Brain" for the class "Neuroeconomics: The science of decision-making", which was part of the "Summer @ Brown" summer school for high school students.
2018	Workshop Instructor, Programming Psychology Experiments. Brown University, Providence, RI. Primary instructor. Three-part workshop teaching the fundamentals of programming computerized psychology experiments using PsychToolbox in Matlab.
2014 - 2016	Teaching Fellow, Psych One: Introduction to Psychology. Stanford University, Stanford, CA. Supervisors: Drs. Bridgette Martin-Hard, James Gross, Jamil Zaki, & Greg Walton. Taught weekly sections (13-15 students each) in F14, W15, W16, and S16.

Scientific & Community Outreach

2023	Volunteer, College Day at Brown. Led interactive demos with high schoolers interested in neuroscience and social decision making.
2023	Volunteer, Brown Brain Fair.

- Helped design materials to introduce community members (primarily children) to the science of affect, emotion, and social decision making. Delivered a “flash talk” on the neuroscience of cognitive maps.
- 2020 - 2021 Study Group Mentor, Leadership Alliance. Provided mentorship for undergraduate students (the Carney Brain Science cohort) participating in Leadership Alliance, an organization that provides research opportunities to students from historically underrepresented and marginalized groups.
- 2021 Lesson Plan Designer, Brain Week Rhode Island. Helped design a lesson plan and multimedia materials to introduce Rhode Island students to the brain sciences, specifically to the science of intergroup cognition.
- 2019 Guest Workshop Instructor, Leadership Alliance. Delivered workshop to students participating in Leadership Alliance, an organization that provides research opportunities to students from historically underrepresented and marginalized groups. Discussed and practiced the principles of effective scientific writing and communication.
- 2016 Co-organizer, Stanford Undergraduate Psychology Conference. An entirely undergraduate-organized conference hosted at Stanford University, featuring research from undergraduates from around the U.S. and internationally.
- 2014 - 2016 Organizer, Stanford Undergraduate Psychology Association. Helped organized events for undergraduate students and community members to learn about (and engage in) psychological science. Primary organizer for a discussion with Dr. Albert Bandura regarding his newly-published book, *Moral Disengagement*. Co-organizer for a screening of the film *The Stanford Prison Experiment*, and a panel discussion with Dr. Philip Zimbardo afterwards.



Left: Facilitating a discussion with Dr. Bandura about his newly-published book, *Moral Disengagement*.
Right: SUPA event organizers posing with Dr. Zimbardo following a special screening of the *Stanford Prison Experiment* movie and subsequent panel discussion.

Professional & Departmental Service

2020 - 2022	Graduate council, Carney Institute for Brain Science CLPS graduate student representative
2020 - 2022	Diversity & Inclusion Action Plan (DIAP) committee Member of "Hiring & Recruitment" sub-committee
2020 - 2022	Social cognitive seminar series, Brown Dept. of CLPS Co-organizer
2019 - 2021	Student Committee, Society for Affective Science (SAS) Member of "Diversity & Innovation" sub-committee
2019 - 2020	Personality Neuroscience, Cambridge University Press Social media editor
2019 - 2020	Brown Dept. of CLPS Graduate student representative
2018 - 2019	Brown Dept. of CLPS Co-chair, social events planning
2017	New England Research on Decision-Making (NERD) Co-organizer

Ad Hoc Review

Cognition
Cognitive Science
eLife
Journal of Experimental Psychology: General (JEPG)
Psychonomic Bulletin & Review
Royal Society Open Science
Social, Cognitive, and Affective Neuroscience (SCAN)
Social Neuroscience

"Popular Science"

Carney Institute for Brain Sciences
2021: [Cognitive maps play decisive role in helping people learn social information, study finds](#)
2019: [What is love? Here's what brain science can tell us.](#)

Media Coverage

Carney Institute for Brain Sciences
2021: [The next generation of scientists on the future of brain science.](#)

Brown Daily Herald
2021: [U. researchers find that cognitive maps are used to navigate social networks](#)
2018: [FeldmanHall Lab demystifies human behavior](#)
2017: [New lab studies emotional decision-making](#)