

# JOSEPH M. SAITO

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## EDUCATION & TRAINING

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| <b>University of California, San Diego</b> , San Diego, CA, USA<br>Post-Doctoral Researcher, Advisor: Timothy F. Brady             | 2024 – Present |
| <b>University of Toronto</b> , Toronto, ON, CA<br>Ph.D. Psychology, Advisor: Keisuke Fukuda  | 2020 – 2024    |
| <b>University of Toronto</b> , Toronto, ON, CA<br>M.A. Psychology, Advisor: Keisuke Fukuda   | 2019 – 2020    |
| <b>University of Notre Dame</b> , South Bend, IN, USA<br>Lab Coordinator, Advisor: Nathan S. Rose                                  | 2017 – 2019    |
| <b>University of San Francisco</b> , San Francisco, CA, USA<br>B.A. Psychology (summa cum laude), Thesis Advisor: Benjamin J. Levy | 2013 – 2016    |

## HONORS, AWARDS, & FELLOWSHIPS

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| Cermak/Corkin Post-Doc Award, Memory Disorders Research Society                          | 2025        |
| Ontario Graduate Scholarship, Province of Ontario, \$15,000                              | 2023 – 2024 |
| Early Career Scientist Travel Grant, National Eye Institute, \$550                       | 2022        |
| Professional Development Award, Object Perception, Attention, & Memory Conference, \$200 | 2021        |
| Graduate Legacy Fellowship <sup>1</sup> , Florida State University, \$10,000/year        | 2019 – 2024 |
| Undergraduate Research Grant, Psi Chi Honor Society in Psychology, \$550                 | 2015 – 2016 |
| University Scholar, University of San Francisco, \$26,000/year                           | 2013 – 2016 |

## PUBLICATIONS

\* Denotes trainee under my supervision; † Denotes co-first authorship

### Refereed Contributions

- Saito, J. M.**, Printzlau, F. A. B., Yeo, Y.\*, & Fukuda, K. (2025). Working memory prioritization changes bidirectional interactions with visual inputs. *Journal of Experimental Psychology: General*. Advance online publication. <https://doi.org/10.1037/xge0001813>
- Teoh, J.\*, **Saito, J. M.**, Yeo, Y.\*, Winter, S., & Fukuda, K. (2024). Perceptual comparisons induce lasting and generalizing changes to face memory reports. *Cognitive Research: Principles and Implications*, 9(57). <https://doi.org/10.1186/s41235-024-00584-4>
- Rose, N. S. & **Saito, J.M.** (2024). Naturalistic assessments in virtual reality and in real life help resolve the age-prospective memory paradox. *Aging, Neuropsychology, & Cognition*. 1-38. <https://doi.org/10.1080/13825585.2024.2315791>
- Saito, J. M.**, Bae, G.-Y., & Fukuda, K. (2024). Judgments during perceptual comparisons predict distinct forms of memory updating. *Journal of Experimental Psychology: General*, 153(1), 38–55. <https://doi.org/10.1037/xge0001469>

<sup>1</sup> Declined, accepted admission to University of Toronto

- Zhao, C., Kim, J., Tang, T. H., **Saito, J. M.**, & Fukuda, K. (2024). Deep neural network decodes aspects of stimulus-intrinsic memorability inaccessible to humans. *Journal of Experimental Psychology: General*, 153(4), 1131–1138. <https://doi.org/10.1037/xge0001543>
- Saito, J. M.**, Duncan, K., & Fukuda, K. (2023). Comparing visual memories to similar visual inputs risks lasting memory distortion. *Journal of Experimental Psychology: General*, 152(8), 2318–2330. <https://doi.org/10.1037/xge0001400>
- Saito, J. M.**, Kolisnyk, M.<sup>†</sup>, & Fukuda, K. (2022). Judgments of learning reveal conscious access to stimulus memorability. *Psychonomic Bulletin & Review*, 30, 317–330. <https://doi.org/10.3758/s13423-022-02166-1>
- Fukuda, K., Tozios, C. J. I., & **Saito, J. M.** (2022). Limited access to an unlimited store: Mechanistic constraints and limitations in the voluntary control of visual long-term memory. In T. F. Brady & W. A. Bainbridge (Eds.), *Visual Memory*. Abingdon, England: Routledge.
- Saito, J. M.**, Kolisnyk, M.<sup>\*</sup>, & Fukuda, K. (2022). Perceptual comparisons modulate memory biases induced by new visual inputs. *Psychonomic Bulletin & Review*, 30, 291–302. <https://doi.org/10.3758/s13423-022-02133-w>
- Fukuda, K., Pereira, A. E., **Saito, J. M.**, Tang, T. Y., Tsubomi, H., & Bae, G.-Y. (2022). Working memory content is distorted by its use in perceptual comparisons. *Psychological Science*, 33(5), 816–829. <https://doi.org/10.1177%2F09567976211055375>

### **Forthcoming Contributions**

- Gekas, N., **Saito, J.M.**, Brady, T.F., Beierholm, U.R., Ahissar, M., Sulem, A., & Seitz, A.R. (in review). Attraction and repulsion in perception and working memory as complementary outcomes of learning. *Current Opinion in Neurobiology*
- Saito, J. M.**, & Fukuda, K. (in review). Comparison processes are necessary and sufficient for memory bias persistence. *Cognition*. [https://doi.org/10.31234/osf.io/p574z\\_v1](https://doi.org/10.31234/osf.io/p574z_v1)

### **CONFERENCE PRESENTATIONS**

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\* Denotes trainee under my supervision; † Denotes co-first authorship

#### **Oral Presentations**

- Saito, J. M.**, Chung, Y.H., Störmer, V.S., & Brady, T. F. (2026, May). *Semantically-rich objects increase the distinctiveness of low-level visual features*. Talk presented at the Annual meeting of the Vision Sciences Society (VSS), St. Pete Beach, FL.
- Saito, J. M.** & Brady, T. F. (2025, November). *Expectations reveal adaptive integration between perception and visual working memory*. Talk presented at the Object Perception, Attention, & Memory Conference (OPAM), Denver, CO.
- Saito, J. M.** & Brady, T. F. (2025, October). *Expectations reveal adaptive integration between perception and visual working memory*. Talk presented at the Annual Meeting of the Memory Disorders Research Society (MDRS), Montreal, ON.
- Saito, J. M.**, Printzlau, F. A. B., Yeo, Y.<sup>\*</sup>, & Fukuda, K. (2025, September). Working memory prioritization produces asymmetrical interactions with perception. In C. Hautekiet (Chair), *The Focus of Attention: Insights, Progress, and What Lies Ahead* [Symposium] Annual Meeting of the European Society for Cognitive Psychology, Sheffield, UK.
- Saito, J. M.**, Ferber, S., Barense, M. D., & Fukuda, K. (2024, July). *Perceptual comparisons are necessary and sufficient for the formation of persistent memory biases*. Talk presented at the Annual Working Memory Symposium (WMS).
- Saito, J. M.** & Fukuda, K. (2023, November). *Predictable Learning Demands Enable Down-regulation of Visual Long-Term Encoding*. Talk presented at the Annual Meeting of the Psychonomic Society, San Francisco, CA.

- Saito, J. M.**, Printzlau, F., Yeo, Y.\* , & Fukuda, K. (2022, November). *Attentional Prioritization in Working Memory Changes Interactions with Task-Relevant Perception*. Talk presented at the Object Perception, Attention, & Memory (OPAM) Conference, Boston, MA.
- Saito, J. M.**, Kolisnyk, M.\* , & Fukuda, K. (2022, July). *Judgments of Learning Reveal Conscious Access to Stimulus Memorability*. Talk presented at the Annual Meeting of the Canadian Society for Brain, Behavior, and Cognitive Science (CSBBCS), Halifax, NS.
- Saito, J. M.**, Printzlau, F., Yeo, Y., & Fukuda, K. (2022, June). *Attentional Prioritization in Working Memory Changes Interactions with Task-Relevant Perception*. Talk presented at the Annual Working Memory Symposium (WMS).
- Saito, J. M.**, Kolisnyk, M.\* , & Fukuda, K. (2022, May). *Subjective Judgments of Learning Reveal Conscious Access to Stimulus Memorability*. Talk presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Saito, J. M.**, Kolisnyk, M.\* , Bae, G. Y., & Fukuda, K. (2021, June). *Judgments During Perceptual Comparisons Predict Distinct Forms of Memory Updating*. Talk presented at the Annual Working Memory Symposium (WMS).
- Saito, J. M.**, Kolisnyk, M.\* , & Fukuda, K. (2020, November). *Task Demands Modulate Memory Biases Induced by Overlapping Perceptual Input*. Talk presented at the Object Perception, Attention, & Memory (OPAM) Conference, Austin, TX.

#### **Poster Presentations**

- Huang, J.<sup>†</sup>, **Saito, J. M.**<sup>†</sup>, & Wixted, J. T. (2025, November). *The Independent Source Rule on Trial: Lineups Rewrite the Witness' Memory of the Perpetrator*. Poster presented at the Annual Meeting of the Psychonomic Society, Denver, CO.
- Saito, J. M.**, Li, B.\* & Brady, T. F. (2025, May). *Decision-making modulates perceptual interference beyond sensory interactions*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Saito, J. M.**, Ferber, S., Barense, M. D., & Fukuda, K. (2024, November). *Perceptual comparisons are necessary and sufficient for the persistence of memory biases across time*. Poster presented at the Annual Meeting of the Psychonomic Society, New York City, NY.
- Saito, J. M.**, Ferber, S., Barense, M. D., & Fukuda, K. (2024, May). *Perceptual comparisons are necessary and sufficient for the persistence of memory biases across time*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Saito, J. M.** & Fukuda, K. (2024, April). *Voluntary down-regulation of memory encoding occurs via attentional withdrawal, not active suppression*. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS), Toronto, ON.
- Williams, R. S.<sup>†</sup>, **Saito, J. M.**<sup>†</sup>, Fukuda, K., & Ferber, S. (2024, April). *Tracking the transition from stimulus-specific object representations to category-level abstractions during visual search*. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS), Toronto, ON.
- Saito, J. M.** & Fukuda, K. (2023, May). *Predictable learning demands enable direct down-regulation of visual long-term memory encoding*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Saito, J. M.**, Printzlau, F. A. B., Yeo, Y.\* , & Fukuda, K. (2022, November). *Attentional Prioritization in Working Memory Changes Interactions with Task-Relevant Perception*. Poster presented at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Saito, J. M.**, Bae, G. Y., & Fukuda, K. (2021, November). *Judgments During Perceptual Comparisons Predict Distinct Forms of Memory Updating*. Poster presented at the Object Perception, Attention, & Memory (OPAM) Conference, New Orleans, LA.

- Saito, J. M.**, Kolisnyk, M.\*, & Fukuda, K. (2021, May). *Explicit Perceptual Comparisons Modulate Memory Biases Induced by Overlapping Visual Input*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Teoh, Y. J.\*, Khan, S.\*, Yeo, Y.\*, **Saito, J. M.**, & Fukuda, K. (2021, May). *Comparisons with Similar Faces Induce Lasting Distortions in Face Memories*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Babiy, Z.\*, Yeo, Y.\*, **Saito, J. M.**, & Fukuda, K. (2021, May). *Perceptual Comparisons Induce Varying Forms of Memory Updating*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Saito, J. M.**, & Fukuda, K. (2020, May). *Visual memories can recover from recognition-induced memory biases*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Pete Beach, FL.
- Fukuda, K., Pereira, A., **Saito, J. M.**, & Tsubomi, H. (2020, May). *Recognition-induced memory bias (RIMB) in visual working memory*. Poster presented at the Annual Meeting of the Vision Sciences Society (VSS), St. Petersburg, FL.
- Saito, J. M.**, & Fukuda, K. (2020, February). *Visual memories can recover from recognition-induced memory biases*. Poster presented at the Annual Meeting of the Lake Ontario Visionary Establishment (LOVE), Niagara Falls, ON.
- Saito, J. M.**, Lam, J., Rose, N. S., Villano, M., Cogle, J., Hames, J. L., (2019, March). *The Efficacy of Single-Session Exposure Therapy Using Virtual Reality*. Poster presented at Notre Dame Advanced Diagnostics & Therapeutics External Review Session, Notre Dame, IN.
- Saito, J. M.**, Rose, N. S. (2018, May). *Validation of Virtual Reality for Measuring Prospective Memory in Young and Older Adults*. Poster presented at the Annual Meeting for the Association of Psychological Science (APS), San Francisco, CA.
- Saito, J. M.**, Beloff, M.\*, Haile, L.\*, Levy, B. J. (2017, April). *The effects of attentional filtering on associative long-term memory formation across the lifespan*. Poster presented at the Annual Meeting of the Western Psychological Association (WPA), Sacramento, CA.
- Uchigakiuchi, T., **Saito, J. M.**, Biba, T., Chi, A., Soriano Smith, R., & Levy, B. J. (2017, April). *The reliability of retrieval-induced forgetting revisited*. Poster presented at the Annual Meeting of the Western Psychological Association (WPA), Sacramento, CA.

## INVITED TALKS

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| University of California Riverside, Memory & Context Lab (Dimsdale-Zucker, H.)      | 2025 |
| University of California San Diego, Psychology Department Annual Retreat Colloquium | 2025 |
| University of South Dakota, Memory & Attention Lab (Ricker, T.J.)                   | 2025 |
| University of San Francisco, Learning & Memory Lab (Levy, B.J.)                     | 2022 |
| University of Toronto Mississauga, Psychology Seminar                               | 2020 |

## TEACHING EXPERIENCE

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### Instructor of Record

PSYC174 Visual Cognition ([Course Evals](#))  
PSY372 Human Memory ([Course Evals](#))  
PSY100 Introduction to Psychology Tutorial

### Teaching Assistant

PSY100 Introduction to Psychology  
PSY270 Cognition  
PSY290 Introduction to Neuroscience  
PSY372 Human Memory  
PSY385 Human Factors  
PSY480 Special Topics in Perception

## MENTORSHIP

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### Graduate Students

Jiaqi 'Selina' Huang, University of California San Diego (Ph.D. Student) 2025 – Present

### Undergraduate Students

Clarissa Hodges, University of California San Diego (Honors Student) 2024 – Present  
Evangeline Morishige, University of California San Diego 2024 – Present  
Boheng Li, University of California San Diego (Honors Student) 2024 – 2025  
Hojae Kim, University of Toronto 2023 – 2024  
Sean Cai, University of Toronto 2023 – 2024  
Matthew Kolisnyk, University of Toronto (Honors Student) 2020 – 2022  
Yvanna Yeo, University of Toronto 2020 – 2022  
Sarah Kahn, University of Toronto 2020 – 2021  
Jerrick Teoh, University of Toronto (Honors Student) 2020 – 2021  
Zoryana Babiy, University of Toronto 2020 – 2021

## PROFESSIONAL SERVICE

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Sanford Research Fellowship Program, Reviewer, UC San Diego 2026  
Consulting Editor for *Psychonomic Bulletin & Review* 2025 – Present  
Undergraduate Journal Club, Organizer, UC San Diego 2025 – Present  
Editor-in-Chief Search for *Attention, Perception, & Psychophysics*, Committee Member 2025  
Cognitive Neuroscience Society Trainee Association, Organizer 2024  
Canadian Association for Girls in Science, Volunteer 2023  
Psychology Department Colloquium, Organizer, University of Toronto 2021 – 2022  
Undergraduate Journal Club, Organizer, University of Toronto 2020 – 2021

## REVIEWING

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*Attention, Perception, & Psychophysics*  
*Cognition*  
*Communications Psychology*  
*Current Biology*  
*Frontiers in Psychology*  
*Journal of Cognitive Neuroscience*

*Journal of Cognitive Psychology*  
*Journal of Exp Psych: General*  
*Journal of Exp Psych: Learning, Memory, & Cognition*  
*Journal of Memory & Language*  
*Journal of Vision*  
*Memory*

Joseph M. Saito, Department of Psychology, University of California San Diego

*Memory & Cognition*

*Psychonomic Bulletin & Review*

*Psychophysiology*

*Visual Cognition*

## **SOCIETAL MEMBERSHIP**

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Cognitive Neuroscience Society

Memory Disorders Research Society

Psychonomic Society

Vision Sciences Society