

# Jordana Wynn, Ph.D.

## Curriculum Vitae

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Department of Psychology  
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## EDUCATION & TRAINING

### Academic Positions

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2019- Postdoctoral Research Fellow, Harvard University  
Advisor: Dr. Daniel Schacter

### Education

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2020 Ph.D. in Psychology (Cognitive Neuroscience), University of Toronto, Rotman Research Institute  
Advisors: Dr. Jennifer Ryan and Dr. Bradley Buchsbaum  
Dissertation: *Gaze reinstatement supports relational memory in younger and older adults*

2014 M.A. in Psychology (Cognitive Neuroscience), University of Toronto, Rotman Research Institute  
Advisors: Dr. Jennifer Ryan and Dr. Bradley Buchsbaum  
Dissertation: *Rethinking repetition: Selective scanpath recapitulation supports mnemonic performance on a change detection task*

2012 B.A. in Psychology with First Class Honours, McGill University  
Advisor: Dr. Karim Nader  
Dissertation: *Mechanisms of reconsolidation for strong versus weak memories*

## SELECTED SCHOLARSHIPS, HONOURS & AWARDS

### Funding

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2021 CIHR Banting Postdoctoral Fellowship (\$140,000 over 2 years)  
2018 Ontario Graduate Scholarship (\$15,000)  
2016 NSERC Alexander Graham Bell Canada Graduate Scholarship, Doctoral (\$70,000 over 2 years)  
2015 NSERC Alexander Graham Bell Canada Graduate Scholarship, Masters (\$17,500)

### Awards

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2020 Graduate Student Award, Cognitive Neuroscience Society Annual Meeting (\$100)  
2019 Keith Rayner Memorial Award, European Conference on Eye Movements (\$1,000)  
2019 University of Toronto Doctoral Completion Award (\$4,154)  
2018 J. Davidson Ketchum Graduate Scholarship in Psychology (\$10,000)  
2018 Finkler Graduate Student Fellowship (\$4,820)  
2017 Men's Service Group Graduate Student Fellowship (\$6,587)

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2016 Sallie P. Asche Travel Award, Dallas Aging and Cognition Conference (\$500)  
 2015 Wiseman Graduate Student Fellowship (\$3,745)  
 2015 Soupcoff Graduate Student Fellowship (\$2,123)

## PUBLICATIONS

### Peer Reviewed Publications

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**Wynn, J.S.**, Liu, Z.X., & Ryan, J.D. (2021). Neural correlates of subsequent memory-related gaze reinstatement. *Journal of Cognitive Neuroscience*.

**Wynn, J.S.**, Buchsbaum, B.R., & Ryan, J.D. (2021). Encoding and retrieval eye movements mediate age differences in pattern completion. *Cognition*, 214, 104746.

**Wynn, J.S.**, Amer, T., & Schacter, D.L. (2020). How older adults remember the world depends on how they see it. *Trends in Cognitive Sciences*, 24(11), 858-861.

**Wynn, J.S.**, Ryan, J.D., & Buchsbaum, B.R. (2020). Eye movements support behavioral pattern completion. *Proceedings of the National Academy of Sciences*, 117(11), 6246-6254.

**Wynn, J.S.**, Ryan, J.D., & Moscovitch, M. (2020). Effects of prior knowledge on active vision and memory in younger and older adults. *Journal of Experimental Psychology: General*, 149(3), 518-529.

**Wynn, J.S.**, Shen, K., Ryan, J.D. (2019). Eye movements actively reinstate spatiotemporal mnemonic content. *Vision*, 3(2), 21.

**Wynn, J.S.**, Olsen, R.K., Binns, M., Buchsbaum, B.R., & Ryan, J.D. (2018). Fixation reinstatement supports visuospatial memory in older adults. *Journal of Experimental Psychology: Human Perception & Performance*, 44(7), 1119-1127.

Dragan, M.C., Leonard, T.K., Lozano, A.M., McAndrews, M.P., Ng, K., Ryan, J.D., Tang-Wei, D.F., **Wynn, J.S.**, & Hoffman, K.L. (2017). Pupillary responses and memory-guided visual search reveal age-related and Alzheimer's-related memory decline. *Behavioural Brain Research*, 322, 351-361.

**Wynn, J.S.**, Bone, M., Dragan, M.C., Hoffman, K.L., Buchsbaum, B.R., & Ryan, J.D. (2016). Selective scanpath repetition during memory-guided visual search. *Visual Cognition*, 24(1), 15-37.

Robin, J., **Wynn, J.S.**, & Moscovitch, M. (2016). The spatial scaffold: the effects of spatial context on memory for events. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 42(2), 308-315.

### Manuscripts Under Review and in Preparation

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**Wynn, J.S.**, van Genugten, R.D.I., Sheldon, S., & Schacter, D.L. (invited to resubmit). Schema-related eye movements support episodic simulation. *Psychonomic Bulletin & Review*. PBR-BR-21-191.  
<https://psyarxiv.com/36uyx/>

Ryan, J.D., **Wynn, J.S.**, Shen, K., Liu, Z.X. (invited to resubmit). Aging changes the interactions between the oculomotor and memory systems. *Aging, Neuropsychology, & Cognition*. ANC-RA 21-113.

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Amer, T., **Wynn, J.S.**, Hasher, L. (invited to resubmit). Cluttered memory representations shape cognition in old age. *Trends in Cognitive Sciences*. TICS-D-21-00227.

**Wynn, J.S.**, Ryan, J.D., & Buchsbaum, B.R. (in prep). Hippocampal contributions to functional gaze reinstatement.

**Wynn, J.S.**, Khosla, A., Kacollja, A. Shahmiri, E., Shen, K., & Ryan, J.D. (in prep). Exploratory gaze patterns index hippocampal health.

## PRESENTATIONS

### Invited Talks

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**Wynn, J.S.** (Jul 2020). Eye movements support reinstatement of mnemonic content. Aging & Cognition Research Group, German Center for Neurodegenerative Diseases (DZNE). Magdeburg, Germany (presented online).

**Wynn, J.S.** (May 2020). Do age-related changes in prior knowledge impact perception? Moscovitch Neuropsychology Lab. Toronto, ON, Canada (presented online).

**Wynn, J.S.** (Apr 2019). Eye movements actively reinstate spatiotemporal mnemonic content. Aly and Baldassano lab. Columbia University, NY, USA.

**Wynn, J.S.** (Oct 2016). What can eye movements tell us about memory (and aging)? Rotman Research Institute Speak-Easy Speaker Series, Rotman Research Institute, Baycrest Hospital. Toronto, ON, Canada.

**Wynn, J.S.** (Dec 2014). Eye movement pattern reinstatement during memory-guided visual search. Rotman Research Institute Rounds, Baycrest Hospital. Toronto, ON, Canada.

### Conference Oral Presentations

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**Wynn, J.S.**, Ryan, J.D., & Moscovitch, M. (Aug 2019). Prior knowledge effects on visual search and memory in younger and older adults. European Conference on Eye Movements. Alicante, Spain. \*Awarded the best graduate student talk.

**Wynn, J.S.**, Ryan, J.D., & Buchsbaum, B.R. (May 2018). Encoding- retrieval fixation similarity as a predictor of memory performance. Context and Episodic Memory Symposium. Philadelphia, PA, USA.

**Wynn, J.S.**, Ryan, J.D., & Moscovitch, M. (May 2018). Prior knowledge effects on visual search and memory in younger and older adults. Toronto Area Memory Group Meeting. Toronto, ON, Canada.

### Conference Poster Presentations

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Khosla, A. **Wynn, J.S.**, Kacollja, A., Shahmiri, E., Tanaka, L., Shen, K., & Ryan, J.D. (May 2021). Visual exploration in healthy aging & mild cognitive impairment. Poster presented at the Vision Sciences Society Conference (presented online).

**Wynn, J.S.**, Buchsbaum, B.R., & Ryan, J.D. (Mar 2020). Eye movements reveal age differences in the use of retrieved content during pattern completion. Cognitive Neuroscience Society Annual Meeting (presented online).

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- Wynn, J.S.**, Ryan, J.D., & Moscovitch, M. (May 2018). Prior knowledge effects on visual search in younger and older adults. International Conference on Learning and Memory. Huntington Beach, CA, USA.
- Wynn, J.S.**, Olsen, R.K., Binns, M., Buchsbaum, B.R., & Ryan, J.D. (Mar 2017). Fixation reinstatement supports visuospatial memory in older adults: An eye movement compensation effect. Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.
- Wynn, J.S.**, Olsen, R.K., Binns, M., Buchsbaum, B.R., & Ryan, J.D. (May 2017). Fixation reinstatement supports visuospatial memory in older adults: An eye movement compensation effect. Dallas Aging and Cognition Conference. Dallas, TX, USA.
- Wynn, J.S.**, Bone, M., Dragan, M.C., Hoffman, K.L., Buchsbaum, B.R., & Ryan, J.D. (May 2016). Selective scanpath repetition supports memory-guided visual search. Canadian Action and Perception Network –Canadian Psychological Society- Canadian Association for Neuroscience (CAPnet-CPS CAN) Satellite Symposium. Toronto, ON, Canada.
- Wynn, J.S.**, Bone, M., Dragan, M.C., Hoffman, K.L., Buchsbaum, B.R., & Ryan, J.D. (May 2015). Selective scanpath repetition supports memory-guided visual search. Vision Sciences Society Conference. St. Pete Beach, FL, USA.
- Wynn, J.S.**, Bone, M., Dragan, M.C., Hoffman, K.L., Buchsbaum, B.R., & Ryan, J.D. (Mar 2015). Selective scanpath repetition supports memory-guided visual search. Rotman Research Institute Conference. Toronto, ON, Canada.
- Dragan, M.C., Leonard, T.K., Lozano, A.M., McAndrews, M.P., Ng, K., Ryan, J.D., Tang-Wei, D.F., **Wynn, J.S.**, & Hoffman, K.L. (Nov 2014). Memory-guided visual search reveals behavioral and autonomic markers of aging and Alzheimer’s disease. Society for Neuroscience Annual Meeting. Washington, DC, USA.
- Robin, J., **Wynn, J.S.**, & Moscovitch, M. (Nov 2013). Investigating the effects of cue familiarity and modality on imagined events. Psychonomic Society Annual Meeting. Toronto, ON, Canada.
- Robin, J., **Wynn, J.S.**, & Moscovitch, M. (Mar 2013). Age-related changes in autobiographical memory, future-imagination and memory for scenes based on real-world landmark cues. Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.

## TEACHING & ADVISING EXPERIENCE

### Teaching Positions

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|--------------------|--|------------------------|
| Course Instructor  | Psychology Sophomore Tutorial (PSY975), 2022             | Harvard University     |
| Course Moderator   | Baycrest Presents: Understanding your Brain, 2018        | Terraces at Baycrest   |
| Course Moderator   | Baycrest Presents: Understanding your Brain, 2017, 2018  | Ryerson Life Institute |
| Teaching Assistant | Social Cognition (PSY326), 2017                          | University of Toronto  |
| Teaching Assistant | Neuroscience of Complex Human Behaviour (PSY307), 2016   | University of Toronto  |
| Teaching Assistant | Physiological Psychology (PSY290), 2016-2018             | University of Toronto  |
| Teaching Assistant | Introduction to Psychology (PSY100), 2015-2018           | University of Toronto  |
| Teaching Assistant | Physiology and Psychology of Emotion (PSY494), 2015      | University of Toronto  |
| Teaching Assistant | Introduction to Abnormal Psychology (PSY240), 2015       | University of Toronto  |
| Teaching Assistant | Introduction to Cognitive Psychology (PSY270), 2014-2017 | University of Toronto  |

## Lectures & Workshops

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**Wynn, J.S.** (Jun 2018). “Science literacy and the state of modern science” for “Baycrest presents: Understanding your brain”, Ryerson University Life Institute & Terraces at Baycrest. Toronto, ON, Canada.

**Wynn, J.S.** (May 2017, 2018). “Memory and the brain” for “Baycrest presents: Understanding your brain”, Ryerson University Life Institute & Terraces at Baycrest. Toronto, ON, Canada.

**Wynn, J.S.** (Mar 2018). “Eye movements and memory” for Human Memory at the University of Toronto. Toronto, ON, Canada.

**Wynn, J.S.** (Oct 2017). “Introduction to human memory”, William Lyon Mackenzie Collegiate Institute. Toronto, ON, Canada.

**Wynn, J.S., & Amer, T.** (May 2017). “Attention and the Brain” for “Baycrest presents: Understanding your brain”, Ryerson University Life Institute. Toronto, ON, Canada.

**Wynn, J.S.** (Jan 2017). “Processing Eyetracking Data with Data Viewer” for the Rotman Research Institute Research Training Center’s Eyetracker Curriculum Series. Toronto, ON, Canada.

**Wynn, J.S.** (Apr 2014, 2016, Dec 2016, 2017). “Emotion, Stress, and Psychiatric Disorders” for Physiological Psychology at the University of Toronto. Toronto, ON, Canada.

**Wynn, J.S.** (Mar 2016). “Long Term Memory: Reconsolidation, Emotion, and Memory Errors” for Introduction to Cognitive Psychology at the University of Toronto. Toronto, ON, Canada.

## Mentorship

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| 2020 | Charlotte Johnstone, Lab Course Student, Harvard University       |
| 2018 | Kayli Chen, Student Volunteer, Rotman Research Institute          |
| 2018 | Jonathan Musat, Student Volunteer, Rotman Research Institute      |
| 2018 | Meggie Kuypers, Student Volunteer, Rotman Research Institute      |
| 2017 | Sam Alain, Summer Student, Rotman Research Institute              |
| 2017 | Rahim Ahmed, Student Volunteer, Rotman Research Institute         |
| 2017 | Kevin Mak, Student Volunteer, Rotman Research Institute           |
| 2016 | Jessica Zylberlicht, Student Volunteer, Rotman Research Institute |
| 2016 | Corey Loo, Summer Student, Rotman Research Institute              |
| 2016 | Stephanie Rak, Student Volunteer, Rotman Research Institute       |
| 2016 | Vanessa Pontes, Student Volunteer, Rotman Research Institute      |

## Training

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| 2021 | <b>Writing in Psychology Workshop</b> , Harvard University  |
| 2021 | <b>Cultural Expectations: Diversity and Inclusion in the Classroom</b> , Derek Bok Center for Teaching and Learning, Harvard University                       |
| 2021 | <b>Mentoring Undergraduates: Handling Challenges, Celebrating Successes, Diversity and Inclusion, Supporting Student Science Writing</b> , Harvard University |
| 2017 | <b>Teaching Workshop</b> , University of Toronto  |

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## SERVICE

- 2018- **Ad-hoc Reviewer**, *Aging, Neuropsychology, & Cognition; Cognition; Journal of Experimental Psychology: General; Learning & Memory; Memory; Psychology & Aging; Psychological Science; Quarterly Journal of Experimental Psychology; Science Advances; Trends in Cognitive Sciences*
- 2017- 2018 **Working Group Member**, NeuroBrite Educational Program (recipient of the NSERC PromoScience Grant)
- 2016- 2018 **Trainee Representative**, Baycrest Research Training Centre Steering Committee
- 2016- 2017 **Working Group Member**, Innovative Perspectives in Neuroscience Conference
- 2016- 2017 **Vice President**, University of Toronto Psychology Graduate Students Association
- 2015- 2017 **Rotman Research Institute Representative**, University of Toronto Psychology Graduate Students Association
- 2013- 2014 **Social Coordinator**, University of Toronto Psychology Graduate Students Association

## KNOWLEDGE TRANSLATION & OUTREACH ACTIVITIES

- 2021- **Mentor**, Harvard Graduate Women in Science and Engineering Mentorship Program  
Harvard Graduate School of Arts and Sciences
- 2020- **Founding Member**, BreakThrough initiative to promote equity, diversity, and inclusion in STEM
- 2020- **Mentor**, Women in STEM Mentorship Program  
Harvard College Women's Center
- 2020- **Peer Reviewer**, Journal of Emerging Investigators, science journal and mentorship program for middle and high school scientists
- 2020 **Judge**, Women in STEM, ENVISION high school science proposal competition
- 2016 **Demonstrator and Educator**, Innovation Exposition  
Canadian Centre for Aging & Brain Health Innovation, Toronto, Canada
- 2016 **Volunteer**, Science Rendezvous, nation-wide family science festival  
University of Toronto, Toronto, Canada
- 2015 **Lecturer**, "Memory: Myths and Facts"  
Beth Tzedek Congregation, Toronto, Canada
- 2015 **Lecturer**, "Frontiers in Memory and Aging Research"  
Raymond James Ltd. Financial Services, Toronto, Canada
- 2013 **Volunteer**, My Virtual Dream: Powered by the Virtual Brain, art and science installation  
Scotiabank Nuit Blanche, Toronto, Canada
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