

Jordana Wynn, Ph.D.

Curriculum Vitae

Department of Psychology
Harvard University
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Cambridge, MA, 02138

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EDUCATION & TRAINING

Academic Positions

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

Education

2020 Ph.D. in Psychology (Cognitive Neuroscience), University of Toronto, Rotman Research Institute
Advisors: Dr. Jennifer Ryan and Dr. Bradley Buchsbaum

2014 M.A. in Psychology (Cognitive Neuroscience), University of Toronto, Rotman Research Institute
Advisors: Dr. Jennifer Ryan and Dr. Bradley Buchsbaum

2012 B.A. in Psychology with First Class Honours, McGill University
Advisor: Dr. Karim Nader

SELECTED SCHOLARSHIPS, HONOURS & AWARDS

Funding

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

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)

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

Wynn, J.S., van Genugten, R.D.I., Sheldon, S., & Schacter, D.L. (2022). Schema-related eye movements support episodic simulation. *Consciousness and Cognition*.

Amer, T., **Wynn, J.S.**, Hasher, L. (2022). Cluttered memory representations shape cognition in old age. *Trends in Cognitive Sciences*.

Ryan, J.D., **Wynn, J.S.**, Shen, K., Liu, Z.X. (2021). Aging changes the interactions between the oculomotor and memory systems. *Aging, Neuropsychology, & Cognition*.

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

* *Equal contributions*

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

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

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

Wynn, J.S. Eye movements support active memory retrieval. Talk to be presented at the 2022 Cognitive Neuroscience Society Annual Meeting as part of the symposium *How do eye movements structure hippocampal-dependent memories?*

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

Wynn, J.S., van Genugten, R.D.I., Sheldon, S., & Schacter, D.L. (to be presented, April 2022). Schema-related eye movements support episodic simulation. Cognitive Neuroscience Society Annual Meeting.

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).

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

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

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

2021	Leticia Sefia, Work Study Student, Harvard University
2021	Tomas Winegar, Research Assistant, Harvard University
2021	Aylin Tanriverdi, Research Assistant, Harvard University
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

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

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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