

Jordana Wynn, Ph.D.

Curriculum Vitae

Department of Psychology
University of Victoria
Victoria, BC

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EDUCATION & TRAINING

Academic Positions

- July 2022- Assistant Professor, University of Victoria
- 2019- 2022 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

- 2023 NSERC Discovery Grant (\$245,000 over 5 years)
- 2023 NSERC Early Career Research Supplement (\$12,500)
- 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)
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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*, *100*, 103302.

Amer, T., **Wynn, J.S.**, Hasher, L. (2022). Cluttered memory representations shape cognition in old age. *Trends in Cognitive Sciences*, *26*, 255-267.

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*, *29*(3), 418-442.

***Wynn, J.S.**, *Liu, Z.X., & Ryan, J.D. (2021). Neural correlates of subsequent memory-related gaze reinstatement. *Journal of Cognitive Neuroscience*, *34*(9), 1547-1562.

* *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. (Apr 2022). Eye movements support active memory retrieval. Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.

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

Setton, R.*, **Wynn, J.S.***, Schacter, D. (Mar 2023). Repetition effects on eye-tracking, vividness ratings, and brain activity during future simulation. Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.

* *Equal contributions*

Amer, T.*, **Wynn, J.S.***, Schacter, D., & Davachi, L. (Apr 2023). An eye-tracking investigation of task demand effects on pattern separation. International Conference on Learning and Memory, Huntington Beach, CA, USA.
* *Equal contributions*

Wynn, J.S., van Genugten, R.D.I., Sheldon, S., & Schacter, D.L. (Apr 2022). Schema-related eye movements support episodic simulation. Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.

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. 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 EXPERIENCE

Teaching Positions

Instructor	Advanced Neuropsychology (PSYC 451B)	2022-2023	University of Victoria
Instructor	Seeing and Remembering in Old Age (PSYC 491)	2022	University of Victoria
Instructor	Memory & Aging (PSYC 391)	2023	University of Victoria
Course Moderator	Baycrest Presents: Understanding your Brain	2017-2018	Ryerson Life Institute, Terraces at Baycrest
Teaching Assistant	Introduction to Psychology (PSY100); Introduction to Abnormal Psychology (PSY240); Introduction to Cognitive Psychology (PSY270); Physiological Psychology (PSY290); Neuroscience of Complex Human Behaviour (PSY307); Social Cognition (PSY326); Physiology and Psychology of Emotion (PSY494)	2014-2018	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.

Training

2022	Gender Diversity on Campus , University of Victoria
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

SUPERVISION

Graduate Thesis Committee Member

- 2023 Amy vanWell, M.Sc. Student, University of Victoria
2023 Paula Brooks, Ph.D. Student, Princeton University

Honours Thesis Students

- 2023 Amanda Mcgilivray, Honours Student, University of Victoria
2023 Yannick Lapierre, Honours Student, University of Victoria
2023 Maggie Porterfield, Honours Student, University of Victoria
2022 Antonella Feeny, Honours Student, University of Victoria

Undergraduate Student Volunteers and Research Assistants

- 2022 Amanda Mcgilivray, Research Assistant, University of Victoria
2022 Maryam Shams, Research Assistant, University of Victoria
2022 Radana Biarozza, Research Assistant, University of Victoria
2022 Yannick Lapierre, Work Study Student, University of Victoria
2023 Maggie Porterfield, Work Study Student, University of Victoria
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
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

SERVICE

- 2023 **Doctoral Committee Member**, CIHR
2022- **PSYC Equity, Diversity, and Inclusion Committee**, University of Victoria
2018- **Ad-hoc Reviewer**, *Aging, Neuropsychology, & Cognition; Cognition; Journal of Experimental Psychology: General; Learning & Memory; Memory; Progress in Neurobiology; Psychology & Aging; Psychological Science; Quarterly Journal of Experimental Psychology; Science Advances; Trends in Cognitive Sciences*
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- 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
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