Jordana Wynn, Ph.D.

#### Curriculum Vitae

Department of Psychology jordwynn@uvic.ca

University of Victoria wynnlab.org Victoria, BC

**EDUCATION & TRAINING**

**Academic Positions**

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

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| --- | --- |
| 2023 | NSERC Discovery Grant ($343,000 over 7 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) |

**Honours & Awards**

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| 2024 | Rising Star Award, Association for Psychological Science |
| 2023 | Elected Fellow, Memory Disorders Research Society |
| 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**

Setton, R, **Wynn, J.S.**, Schacter, D.L. (2024). Peering into the future: Eye movements predict neural repetition effects during future simulation. *Neuropsychologia, 197,* 108852.

**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. (2022). 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. (2022). 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.**, Schacter, D.L. (invited resubmission). Eye movements reinstate remembered locations during episodic simulation. *Cognition.*

\*Amer, T., \***Wynn, J.S.**, Schacter, D.L., Davachi, L. (under review). Gaze patterns reveal attention-based modulation of pattern separation. *Journal of Experimental Psychology: General.*

\* *Equal contributions*

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

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

**PRESENTATIONS**

**Invited Talks**

**Wynn, J.S.** (Dec 2023). The interplay between eye movements and constructive episodic memory. Cognitive Area Workshop. University of British Columbia. Vancouver, BC, Canada.

**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.

**Oral Presentations**

**Wynn, J.S.** (Sep 2023). Eye movements support active memory retrieval. Memory Disorders Research Society Annual Meeting. Los Angeles, CA, USA.

**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.

**Select Poster Presentations**

\*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*

\*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*

**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**

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| --- | --- | --- | --- |
| Instructor | Cognition & Brain Sciences Seminar (PSYC 577) | 2023-2024 | University of Victoria |
| Instructor | Advanced Neuropsychology (PSYC 451B) | 2022-2024 | 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**

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| 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**

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

**Honours Thesis Students**

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| 2024 | Amanda Mcgilivray, Honours Student, University of Victoria |
| 2024 | Yannick Lapierre, Honours Student, University of Victoria |
| 2024 | Maggie Porterfield, Honours Student, University of Victoria |
| 2023 | Antonella Feeny, Honours Student, University of Victoria |

**Undergraduate Student Volunteers and Research Assistants**

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| 2023  2022-24  2022 | Ritu Randhawa, Research Assistant, University of Victoria  Radana Biaroza, Research Assistant, University of Victoria  Amanda Mcgilivray, Research Assistant, University of Victoria |
| 2022 | Maryam Shams, 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**

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| 2023-24 | **Coordinator,** Cognition & Brain Sciences Seminar series, University of Victoria |
| 2023  2022-  2018- | **Doctoral Committee Member,** CIHR  **PSYC Equity, Diversity, and Inclusion Committee**, University of Victoria  **Ad-hoc Reviewer**, *Aging, Neuropsychology, & Cognition; Cognition; Cortex; Journal of Experimental Psychology: General; The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences; Learning & Memory; Memory; Progress in Neurobiology; 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**

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| 2024 | **Lecturer**, “Aging, Memory, and Your Brain” Silver Threads Service for Seniors, Victoria, Canada |
| 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 |