

LAUREN HOMANN

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EDUCATION

Doctor of Philosophy in Psychology
University of Toronto, Toronto, Canada

Expected: 2027

Supervisor: Dr. Morgan Barense

Committee Members: Dr. Bradley Buchsbaum and Dr. Brian Levine

Honours Bachelor of Science in Psychology, Biology Minor
University of Waterloo, Waterloo, Canada

2022

Advisors: Dr. Daniel Smilek and Allison Drody

Honours Thesis Title: “The effects of self-selected background music and task difficulty on task engagement and performance in a visual vigilance task”

Graduated with Dean’s Honours

PUBLICATIONS

* Denotes shared first authorship

Homann, L. A., Drody, A. C., Smilek, D. (2023). The effects of self-selected music and task difficulty on task engagement and performance in a visual vigilance task. *Psychological Research*, 87, 2460–2476. <https://doi.org/10.1007/s00426-023-01836-6>

Homann, L. A.*, Roberts, B. R. T.*, Ahmed, S., Fernandes, M. A. (2022). Are emojis processed visuo-spatially or verbally? Evidence for dual codes. *Visual Cognition*, 30(4), 267–279. <https://doi.org/10.1080/13506285.2022.2050871>

Articles in preparation

Golestani, A., **Homann, L. A.**, Bouffard, N. R., Barense, M. D., Moscovitch, M. Brain function induces alteration in the autocorrelation of the fMRI signal. *Status: Being reviewed by co-authors.*

PRESENTATIONS

* Denotes shared first authorship | Supervised students are underlined | (v) Denotes a virtual presentation

Homann, L. A., Golestani, A., Bouffard, N. R., Moscovitch, M., Barense, M. B. “Novel dynamic autocorrelation measure (dAC) uncovers time-dependent changes in the organization of neural timescales along the hippocampal long axis”.

Accepted Poster: Society for Neuroscience (SfN) Annual Meeting, Nov. 2024 (Chicago, IL, USA)

Homann, L. A., Sun, J., An, J., Barense, M. B. “The influence of retrieval practice on real-life event memory”.

Poster: Cognitive Neuroscience Society (CNS) Annual Meeting, Apr. 2024 (Toronto, ON, Canada)

Poster: Lake Ontario Visionary Establishment (LOVE) Conference, Feb. 2024 (Niagara Falls, ON, Canada)

Homann, L. A., Drody, A. C., Smilek, D. “The effects of self-selected music and task difficulty on task engagement and performance in a visual vigilance task”.

Invited Q & A: Seminar in Attention and Multi-Tasking (taught by Dr. Nathan Ward) at Tufts University, Oct. 2023 (v)

Invited Talk: Laboratory for Attention and Social Cognition at McGill University, Jan. 2022 (v)

Homann, L. A.,* Roberts, B. R. T. *, Ahmed, S., Fernandes, M. A. “Are emojis processed visuo-spatially or verbally? Evidence for dual codes”.

Poster: Psychonomic Society Annual Meeting, Nov. 2021 (v)

FELLOWSHIPS AND GRANTS

Canada Graduate Scholarship—Doctoral Natural Sciences and Engineering Research Council of Canada	<i>\$105,000</i>	2023–2026
Canada Graduate Scholarship—Masters Natural Sciences and Engineering Research Council of Canada	<i>\$17,500</i>	2022–2023
Undergraduate Student Research Award Natural Sciences and Engineering Research Council of Canada	<i>\$4,500</i>	2020

HONOURS AND AWARDS

Award of Academic Excellence Canadian Psychological Association		2022
Recruitment Award University of Toronto, Department of Psychology	<i>\$5,000</i>	2022
Honours Thesis Award University of Waterloo, Department of Psychology		2022
Term Distinction University of Waterloo		2020–2022
University of Toronto Scholars Award University of Toronto	<i>\$6,000</i>	2016

RESEARCH EXPERIENCE

Ph.D. Student Memory and Perception Lab, University of Toronto <u>Principal Investigator:</u> Dr. Morgan Barensse	Sep. 2022–present
Honours Thesis Student and Research Assistant	Jan. 2021–Aug. 2022

Vision and Attention Lab, University of Waterloo

Principal Investigator: Dr. Daniel Smilek

Research Assistant

Cognitive Neuroscience Lab, University of Waterloo

Principal Investigator: Dr. Myra Fernandes

Jan. 2020–May 2022

Research Assistant

May 2019–Aug. 2020

Psychological Interventions Research Team, University of Waterloo

Principal Investigator: Dr. Jonathan Oakman

STUDENTS SUPERVISED

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|---|---------------------|
| ▪ Jia Gu, <i>Volunteer</i> | Mar. 2023–present |
| ▪ Simran Grewal, <i>Volunteer</i> | Mar. 2023–present |
| ▪ Mursal Jahed, <i>Individual Project</i> | Jan. 2023–present |
| ▪ Amir Samadi, <i>Individual Project</i> | Jan. 2023–Apr. 2024 |
| ▪ Janice An, <i>Research Opportunity Program</i> | Sep. 2023–Apr. 2024 |
| ▪ Jessica Sun, <i>Research Opportunity Program and Individual Project</i> | May 2023–present |
| ▪ Shelby Davies, <i>Mini-Thesis</i> | Jan. 2023–Apr. 2023 |

TECHNICAL SKILLS

Programming languages and tools: R, JavaScript, Python, Bash, Git, HTML, FSL, AFNI

Data analysis: SPSS, jamovi, NVivo, Taguette, Excel

Experiment programming: JSPsych, PsychoPy, E-Prime, OpenSesame, Qualtrics, JATOS
Experiment Manager, cognition.run

Apparatus: EyeLink eye-tracking system

TEACHING EXPERIENCE

Co-Lecturer for High School Workshop Series

Apr. 2024

University of Toronto Faculty of Arts and Science

- Title of Lecture: “Highlights of Experimental Psychology from the Summer Psychology Research Initiative” (co-instructed with Logan Doyle and Catalina Yang)

Guest Instructor for the Summer Psychology Research Initiative (SPRINT)

Jul. 2023

Psychology Equity Diversity and Inclusion Committee, University of Toronto

- Title of Lecture: “The Testing Effect: Applications to Real-World Event Memory”

Teaching Assistant

Department of Psychology, University of Toronto

- PSY201: Statistics I

Fall 2022, Fall 2023

MENTORSHIP AND SERVICES

Ad Hoc Reviewer

Journal of Cognitive Neuroscience, Canadian Journal of Experimental Psychology

Chair

Jul. 2024–present

Cognitive Neuroscience Society Trainee Association (CNSTA), Cognitive Neuroscience Society (CNS)

- Representing the student and post doc affiliates of the Cognitive Neuroscience Society (CNS) and serving in an advisory capacity to the CNS Executive Committee

Core Logistics Team Member

Sep. 2023–present

Summer Psychology Research Initiative (SPRINT), Psychology Equity Diversity and Inclusion Committee, University of Toronto

- Planning SPRINT, an outreach program aimed to support high school students underrepresented in higher education in learning about psychology and gaining research experience

Orientation Coordinator

Sep. 2023–present

Psychology Graduate Students Association, University of Toronto

- Organizing and executing events during recruitment and orientation weeks for incoming graduate students

Conference Co-organizer

Sep. 2023–May 2024

Toronto Area Memory Group (TAMeG)

- Coordinating and planning an annual conference for memory researchers in southern Ontario

Graduate Mentor

Jul. 2023

Summer Psychology Research Initiative (SPRINT), Psychology Equity Diversity and Inclusion Committee, University of Toronto

- Mentored a group of six high school students and advised them on creating a university-level research proposal and presentation

Committee Lead

Jan. 2023–May 2023

Workshop/Keynote Committee, Psychology Graduate Students Association, University of Toronto

- Led a committee that planned the keynote and workshop components of the annual symposium
- Created, organized, and moderated a panel on academic publishing

Graduate Mentor

Sep. 2022–Mar. 2023

Psychology Equity Diversity and Inclusion Committee, University of Toronto

- Advised undergraduate students applying to research-based graduate programs and research assistant positions, provided feedback on application materials, and aided in facilitating CV and personal statement workshops

Peer Mentor

Sep. 2021–Apr. 2022

Department of Psychology, University of Waterloo

- Mentored seven undergraduate psychology students

President

Jan. 2020–Aug. 2021

Undergraduate Psychology Society (PsychSoc), University of Waterloo

- Oversaw day-to-day functioning of PsychSoc, its executive members, and the tuck shop

Vice President of Events

Sep. 2019–Dec. 2020

Undergraduate Psychology Society (PsychSoc), University of Waterloo

- Led a group of volunteers in the planning of academic and social events for undergraduate psychology students