

CHANTAL LEMIEUX, Ph.D.

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Canadian citizen fluent in both official languages

SUMMARY

- **Areas of Research Interest**

- Spatial Cognition, Metacognition, Gender Differences, Eyetracking and Face Perception

- **Education**

- PhD in Experimental Psychology and undergraduate degree in Psychology with minor in Philosophy from the University of Ottawa.

- Doctoral thesis title: "Metacognitive aspects of gender differences in spatial navigation"

- Advanced knowledge of quantitative and qualitative statistical analyses

- Experience with various quantitative research methodologies and tools including eye-tracking, virtual reality, EEG/ERP, E-Prime, Matlab, physiological measures (e.g., HRV, BP, GSC, EMG)

- **Teaching experience (5 years)**

- Part-Time Professor at KPU since 2021

- Part-Time Professor at the University of Ottawa since 2016

- Extensive experience using D2L Brightspace and Moodle online teaching tools

- Extensive experience using Adobe Connect and Zoom for synchronous lectures

- Teaching Assistant for 9 lab-based undergraduate courses

- Experience co-supervising 5 undergraduate students for their honours thesis projects.

- 4 years of experience teaching a full time one-week mini course for high school students entitled "Jed-Eye Mind Tricks"

- **Research experience (9 years)**

- 9 peer-reviewed publications, 3 upcoming manuscripts

- Experience leading and coordinating a variety of research projects in the fields of perception, cognition, psychophysics, and neurocognition (see publication list).

- Experience writing scholarship and grant applications.

- Experience with public speaking and presenting research at several national and international scientific conferences.

- Over 3 years of experience doing health and social sciences research in two departments of the Canadian Federal Government

EDUCATION

Ph.D. Experimental Psychology
(March 2018)

University of Ottawa,
Ottawa, Canada

Thesis Title: “Metacognitive aspects of gender differences in spatial navigation”

B.A. with Honours Specialization in Psychology and
minor in Philosophy
(April 2010)

University of Ottawa
Ottawa, Canada

Thesis Title: “Driving assessment through virtual reality: A comparison of two simulated driving platforms”

TEACHING AND SUPERVISION

- 2021 – pres **Part-Time Professor, Kwantlen Polytechnic University**
- **PSYC3303 – Learning: Theory and Practice**
 - Online synchronous course
 - Professor evaluation score average of 4.9/5
- 2016 - pres **Part-Time Professor, uOttawa**
- **PSY 31/3508 Perception (French and English)**
 - **PSY 31/3503 Learning and Conditioning (French and English)**
 - **PSY 3791 – Special Topics in Psychology: Visual Cognition (In French)**
 - Creating engaging and fun class demonstrations (ex: illusions, physical concepts)
 - Professor evaluation scores (P-report, averages between 3.3/5 and 4.4/5)
- 2015 - 2018 **Enrichment Mini Course Professor, uOttawa**
“Jed-Eye Mind Tricks: Illusions and Perception”
- Creating material for 5 days (9am - 3pm) suited for high school students
- 2012 - 2016 **Honors Thesis Student Assistant Supervisor (5 Students), uOttawa**
Supervisor: Dr. Charles Collin, University of Ottawa
- Helping in the design and implementation of an honors student’s project.
 - Gave formal training on data collection as well as data cleaning and analysis.
- 2010 - 2015 **Teaching Assistant, uOttawa**
- PSY3108 – Perception
 - PSY3103 – Learning and Conditioning
 - PSY2174/2574 – Research Methods and Ethics (French and English)
 - PSY4727 – Sleep and Dreams (French)
 - PSY2701 – Biological Foundations of Behaviour (French)
 - PSY3122 – Human Sexual Behavior

- 2013 - 2018 **Grad Student Senior Mentor (5 Students)**
Graduate Association of Students in Psychology (GASP) at uOttawa
- Mentoring graduate students as they are introduced into the program
- 2013 - 2015 **Grad Mentor Speaker**
Graduate Association of Students in Psychology (GASP) at uOttawa
- Lead a discussion group with undergraduate students about graduate school

RESEARCH EXPERIENCE

- 2018 - 2020 **Post-Doctoral Researcher**
Perception and Cognition Laboratory (now Visual Cognition Research Lab),
University of Ottawa
Supervisor: Charles Collin, Ph.D.
- Fall 2018 **Research Assistant**
Centre for Applied Cognitive Research, Carleton University
Supervisor: Guy Lacroix, PhD
- 2017 - 2018 **Research Analyst**
Health Promotion and Chronic Disease Prevention Branch, Public Health
Agency of Canada
- Experience with the diabetes prevention and health equity scientific literature and statistical analyses including logistic regression and ROC curve analyses using SAS.
- 2010 - 2018 **Research Assistant – Graduate Student**
Perception and Cognition Laboratory, University of Ottawa
Supervisor: Charles Collin, Ph.D.
- 2016 - 2017 **Research Analyst**
Director General Military Personnel Research and Analysis, Department of
National Defense
- Survey development, implementation, and analysis (psychometrics)
- 2012 - 2014 **Research Assistant and Laboratory Coordinator**
INSPIRE Laboratory, University of Ottawa
Supervisor: Simon Beaudry, PhD and Luc Pelletier, PhD
- Lead several varying training seminars on Mindware Technologies equipment including EMG, GSC, ECG, BP, HR, and EEG, as well as on SR Research's Eyelink II and 1000 eye-tracker.
- 2009 - 2010 **Honours Student and Research Assistant**
Cognitive Aging Laboratory, University of Ottawa
Supervisor: Sylvain Gagnon, Ph.D.

PROFESSIONAL DEVELOPMENT

- 2020 (Summer) Techno-Pedagogy Webinar Series
Teaching and Learning Support Service, uOttawa
- 2020 (Winter) Adobe Connect E-Class
Contact North and uOttawa
- 2019 (Winter) Virtual Campus Brightspace D2L Workshop Series
Teaching and Learning Support Services, uOttawa
- 2017 (Feb) SAS Basic and Intermediate Workshop, Ottawa, ON
Social Determinants and Applied Research, Public Health Agency of Canada
- 2015 (Nov) SPSS Syntax Basic and Intermediate Workshop, Ottawa, ON
School of Psychology, University of Ottawa
- 2014 (Sept) Eprime Basic and Intermediate Webinar Workshop, Ottawa, ON
Psychology Software Tools
- 2014 (June) Mindware Technologies Seminar, Columbus, Ohio
Heart Rate Variability
Keynote Speaker: Dr. Gary Berntson
- 2013 (June) Mindware Technologies Seminar, Columbus, Ohio
Impedance Cardiography
Keynote Speaker: Dr. Gary Berntson
- 2012 (Sept) Eyelink 1000 Basic and Intermediate Seminar, Ottawa, ON
SR Research Ltd.
- 2012 (July) Eyelink II Intermediate Seminar, Ottawa, ON
SR Research Ltd.
- 2011 (May) Eyelink II Basic Seminar, Ottawa, ON
SR Research Ltd.
- 2011- 2012 Basic Matlab and Psych Toolbox Course
Dr Charles Collin, University of Ottawa
- 2013 (Fall) Theory and Practice of Undergraduate Teaching Course (ESG5300)

MANUSCRIPTS IN PREPARATION (3)

- Lemieux, C.L., Collin, C.A., & Watier, N.** (under review) Gender Differences in Judgments of Learning and Retrospective Confidence in a First-Person Virtual Maze Learning Task. Manuscript submitted to the *Journal of Cognitive Psychology*.
- Lemieux, C.L., Collin, C.A., & Watier, N.** (in prep) Effects of Stereotype Activation on Gender Differences in Metacognitive Accuracy and Navigation Performance. Manuscript in preparation for submission to the journal *Sex Roles*.
- Lemieux, C.L., Shah, D., Collin, C.A., Hamm, J., Large, M.E., Campbell, K.** (in prep) ERP Component Analysis of Basic and Subordinate Category Object Naming Depending on Mental Rotation. Manuscript in preparation for submission to *Brain and Cognition*.

PEER REVIEWED PUBLICATIONS (9)

- Lemieux, C., De Groh, M., Gibbons, L., Morrison, H, Jiang, Y.** (2020) A Tool to Assess Risk of Type 2 Diabetes in Canadian Adults. *Canadian Journal of Diabetes* (44), 445-447. doi: [10.1016/j.cjcd.2020.03.002](https://doi.org/10.1016/j.cjcd.2020.03.002)
- Lemieux, C.L., Collin, C.A., & Watier, N.** (2019) Gender Differences in Metacognitive Judgments and Performance on a Goal-Directed Wayfinding Task. *Journal of Cognitive Psychology* 31(4), 453 - 466. doi: [10.1080/20445911.2019.1625905](https://doi.org/10.1080/20445911.2019.1625905)
- Agarwal, G., Jiang Y., **Lemieux, C.**, Rogers Van Katwyk, S., Mao, Y., Mao, Y., Orpana, H., Fong, M., Morrison, H. (2018). Effectiveness of the CANRISK tool in the identification of dysglycemia in a Canadian South Asian Population. *Health Promotion and Chronic Disease Prevention*, 38(7/8), 290-298. doi: [10.24095/hpcdp.38.7/8.03](https://doi.org/10.24095/hpcdp.38.7/8.03)
- Agarwal, G., Jiang Y., Rogers Van Katwyk, S., **Lemieux, C.**, Orpana, H., Mao, Y., Hanley, B., Davis, K., Leuschen, L., Morrison, H. (2018) Effectiveness of the CANRISK tool in the identification of dysglycemia in First Nations and Métis in Canada. *Health Promotion and Chronic Disease Prevention*, 38(4), 55-63. doi: [10.24095/hpcdp.38.2.02](https://doi.org/10.24095/hpcdp.38.2.02)
- Booth, R., Jiang, Y., Morrison, H., Orpana, H., Rogers Van Katwyk, S., **Lemieux, C.** (2018) Ethnic dependent differences in diagnostic accuracy of glycosylated hemoglobin (HbA1c) in Canadian adults. *Diabetes Research and Clinical Practice*, 136, 143-149. doi: [10.1016/j.diabres.2017.11.035](https://doi.org/10.1016/j.diabres.2017.11.035).
- Boutet, I., **Lemieux, C. L.**, Goulet, M. A., & Collin, C. A. (2017). Faces elicit different scanning patterns depending on task demands. *Attention, Perception, & Psychophysics*, 79(4), 1050-1063. doi: [10.3758/s13414-017-1284-y](https://doi.org/10.3758/s13414-017-1284-y).

- Stinchcombe, A., Kadulina, Y., **Lemieux, C.**, Aljied, R., & Gagnon, S. (2017). Driving is not a game: Video game experience is associated with risk-taking behaviours in the driving simulator. *Computers in Human Behavior*, 69, 415-420. [doi: 10.1016/j.chb.2016.12.006](https://doi.org/10.1016/j.chb.2016.12.006)
- Lemieux, C.L.**, Collin, C.A., & Nelson, E.A (2015) Modulations of Eye Movement Patterns by Spatial Filtering During the Learning and Testing Phases of an Old/New Face Recognition Task. *Attention, Perception, & Psychophysics*, 77(2), 536 – 550. [doi: 10.3758/s13414-014-0778-0](https://doi.org/10.3758/s13414-014-0778-0).
- Lemieux, C. L.**, Stinchcombe, A., Gagnon, S., & Bédard, M. (2014) Comparing driving performance on ‘Low’ Level Fidelity Desktop’ and ‘Mid’ Level Fidelity’ driving simulators. *Advances in Transportation Studies*, 34, 33-42. [doi:10.4399/97888548767434](https://doi.org/10.4399/97888548767434)

CONFERENCE PRESENTATIONS (15)

- Lemieux, C.L.**, Watier, N., Collin, C.A. (2018, Sept). *Effects of Stereotype Activation on Gender Differences in Performance and Metacognition during A First-Person Virtual Maze Learning Task*. Poster presented at the International Spatial Cognition Conference, Rome, Italy.
- Ying, J., **Lemieux, C.L.**, Rogers Van Katwyk, S., Morrison, H., Orpana, H., Hanley, B., Davis, K. Fong, M. (2017, June) *Using CANRISK to identify dysglycemia risk in Canada’s Multi-ethnic population*. Poster presented at the American Diabetes Association’s 77th Scientific Session, San Diego, CA.
- Ying, J., **Lemieux, C.L.**, Rogers Van Katwyk, S., Morrison, H., Orpana, H., Davis, K. Fong, M. (2017, June) *Effectiveness of CANRISK in assessing dysglycemia risk in Canadians aged 20-39 years including three high-risk ethnic groups*. Poster presented at the Canadian Public Health Association’s annual conference, Halifax, Canada.
- Peach, J. M., Squires, E. C., & **Lemieux, C. L.** (2016, April). *Military leadership and members’ morale, identification, and intentions to stay*. Poster presented at the 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA.
- Peach, J., Squires, E., & **Lemieux, C.L.** (2016, April) *Impact of military leadership on work stress, morale, identification and intentions*. Poster presented at the 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA.
- Lemieux, C.L.**, Boutet, I., Goulet, M-A., & Collin, C.A. (2016, June). *Gaze patterns elicited during configural and featural face processing*. Poster presented at the 26th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Ottawa, Ontario.

- Peach, J. M., Squires, E. C., & Lemieux, C. L. (2016, October). *Military leadership and members' morale, identification, and intentions to stay*. Presented at the Health and Wellness Fair. Ottawa, Canada
- Lemieux, C.L., Watier, N., Collin, C.A. (2015, Sept). *Gender Differences When Manipulating Confidence During A First-Person Virtual Maze Learning Task*. Poster presented at the VI International Spatial Cognition Conference, Rome, Italy.
- Collin, C., Lemieux, C., Watier, N.N. (2015, June). *Gender differences in metacognitive judgements of navigational learning*. Poster presented at the 25th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Ottawa, Canada.
- Goulet, M.A., Lemieux, C.L., & Collin, C.A. (2015). *Eye movements during detection of configural and featural changes in faces: Conscious strategies differ, but automatic processes do not*. Talk presented at The Canadian Psychological Association's 76th Annual Convention, Ottawa, Canada.
- Lemieux, C.L., Watier, N., Collin, C.A. (2014, Sept). *Gender Differences in Metacognitive Judgments during a First-Person Virtual Maze Learning Task*. Poster presented at the 6th biannual international Spatial Cognition Conference, Bremen, Germany.
- Lemieux, C.L., Nelson, E.A., & Collin, C.A. (2013, May). *Eye Movement Patterns Suggest Different Facial Features are Most Informative at Different Spatial Frequencies*. Poster presented at the 13th annual meeting of the Vision Sciences Society, Naples, Florida.
- Nelson, E.A., Lemieux, C.L., & Collin, C.A. (2012). *Low and High Spatial Frequencies Respectively Elicit Holistic and Featural Eye Movement Patterns in Face Recognition*, Poster Presented at the 28th International Society of Psychophysics Annual Meeting, Ottawa, Canada.
- Lemieux, C.L., Nelson, E. A., & Collin, C.A. (2012, September) *Tracking Eye Movements While Encoding Faces*. Poster presented at the European Conference on Visual Perception, Sardinia, Italy.
- Lemieux, C.L., Nelson, E.A., & Collin, C.A. (2012, June) *Low and High Spatial Frequencies Respectively Elicit Holistic and Featural Eye Movement Patterns in Face Recognition*. Poster presented at the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, Canada.