

Rebekka Lagacé-Cusiac

Western Interdisciplinary Research Building (WIRB)
1151 Richmond Street North London, ON N6A 5B7
rlagacec@uwo.ca; rebekka.lagace-cusiac@hotmail.com

Education

Ph.D. Psychology (Cognitive, Developmental & Behavioural Sciences) Supervised by Jessica Grahn & Daniel Ansari University of Western Ontario	2021-present
M.Sc. Psychology (Cognitive, Developmental & Behavioural Sciences) Supervised by Jessica Grahn & Daniel Ansari University of Western Ontario	2019-2021
B.Sc. Cognitive Neuroscience (Fundamental Orientation) Université de Montréal	2016-2019
Double DCS (Diploma of College Studies) Natural sciences & Classical Music (Alto Saxophone) Lionel-Groulx College	2013-2016

Research experience

Research assistant Co-supervised by Jessica Grahn, Christine Carter, and Jonathan De Souza Western University	06/2020-present
Research assistant (course based) Co-supervised by Fanny Barlaam and Sébastien Jacquemont CHU Sainte-Justine	01/2019-04/2019
Research assistant (course based) Co-supervised by Victor Oswald and Karim Jerbi CHU Sainte-Justine	01/2018-04/2018
Volunteer research assistant Supervised by Nathalie Gosselin BRAMS	04/2017-07/2017

Teaching experience

Teaching assistantship

Western University

Neuroimaging of cognition	09/2021-04/2022
Data Science in Psychology	01/2021-04/2021
Neuroimaging of cognition	09/2020-12/2020
Research Methods and Statistical Analysis in Psychology	09/2019-04/2020

Université de Montréal

Language and cognition	09/2018-12/2018
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Honor thesis co-supervision (Western University):

Crystal Lee	2021-2022
<i>Investigating the relationship between temporal ratio perception and beat perception</i>	
Jaehyun (Jay) Hwang	2021-2022
<i>The effect of rhythmic context on temporal ratio perception</i>	
Seung Hyeck (Alex) Lee	2020-2021
<i>The Effect of Feedback and Contextual Interference on Learning Composers' Musical Styles</i>	

Online resources

Neuroimaging Web-Based Instruction (NEWBI) for fMRI (http://www.newbi4fmri.com/)	
Contributed to design and implementation of widgets	2020-present

Guest lectures

Cognitive Neuroscience of Music, Western University	25/02/2020
<i>Talk: Dissociation between Musical and Monetary Reward Responses in Specific Music Anhedonia</i>	

Other

Trampoline and gymnastics coach, Viagym	2012-2019
Tutor, Kumon Ste-Thérèse	2010-2017
Math (Pre-K to calculus)	
English as first and second language	
Tutor, Collège Lionel-Groulx	
Music theory and ear training	2015-2016
Pre-Calculus & Calculus	2014-2015

Honors & Awards

Dean's honor list, Université de Montréal	2017-2019
G. Keith Humphrey Memorial Award (650\$)	April 2022

Publications

Articles

Lagacé-Cusiac, R., Tremblay, P. F., Ansari, D., Grahn, J. (2023). Investigating the relationships between temporal and spatial ratio estimation and magnitude discrimination using SEM: Evidence for a common ratio processing system. *Journal of Experimental Psychology: Human Perception and Performance*, 49(1), 108–128. <https://doi.org/10.1037/xhp0001062>

Nguyen, T., **Lagacé-Cusiac, R.**, Everling, J. C., Henry, M. J., Grahn, J. A. (In preparation). Audiovisual Integration of Rhythm in Musicians and Dancers.

Lau, N. T. T., Wilkey, E. D., Soltanlou, M., **Lagacé Cusiac, R.**, Peters, L., Tremblay, P., ... Ansari, D. (2022). Numeracy and COVID-19: examining interrelationships between numeracy, health numeracy and behaviour. *Royal Society Open Science*, 9(3), 201303–201303. <https://doi.org/10.1098/rsos.201303>

Talks

Kinghorn, E., **Lagacé Cusiac, R.**, Demirkaplan, O., Grahn, J. A., De Souza, J., Carter, C. (July, 2021). The effects of blocked and interleaved practice on musical style recognition. ICMPC-ESCOM. University of Nottingham, Nottingham, UK. [Online].

Posters

Lagacé-Cusiac, R., Tremblay, P. F., Ansari, D., Grahn, J. Investigating the relationships between absolute and relative magnitude processing in space and time: An SEM study. 2022 *Mathematical Cognition and Learning Society*. June 1-3, 2022. Thomas More, Antwerp, Belgium.

Lee S.H., **Lagacé-Cusiac R.**, Grahn J. The effect of contextual interference and feedback on learning composers' musical styles. 2021 *Canadian Society for Brain, Behaviour and Cognitive Science Meeting*. June 17, 2021. [Online].

Nadon, E., **Lagacé-Cusiac, R.**, Pilon, J., Gosselin, N. The effect of the emotional characteristics of different sound environments on selective attention of adults. *CRBLM Scientific Day*. May 14, 2018. Université de Québec à Montréal, Montréal, Canada.

Oswald, V., **Lagacé-Cusiac, R.**, Létourneau, A., Trahan, H., Toupin, G., Younes, Z., Rabaey, P., Jerbi, K. À l'état de repos, la puissance spectrale des oscillations cérébrales prédit la performance de la vitesse de traitement. [The spectral power of neural oscillations during resting-state predicts speed of processing performance]. *12e Journée scientifique du Département de Psychologie*. April 6, 2018. Université de Montréal, Montréal, Canada.

Service

Committees

University of Western Ontario

Co-founder and organizer, Coding Social Series	2021-2022
Member, Research methods and statistics taskforce	2020-2021
Member, Psychology Colloquium Series	2019-2020

Polytechnique de Montréal	
Consultant, Polycortex	2018-2019

Reviewer

JIRIRI-Journal of Interpersonal Relations, Intergroup relations and Identity and NCACN (Applied and clinical neuropsychology)	2018-2021
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Training & Skills

Teaching training

Teaching Assistant Training Program, Western University	06/09/2019-08/09/2019
NCCP level 2 training in trampoline	2018
NCCP level 1 training in trampoline (certified in 2017)	2012

Languages

English (Native/Bilingual)
French (Native/Bilingual)

Programming Experience

Languages: R/RStudio, Python, Matlab, Javascript, HTML
Other research platforms: PsychoPy/Pavlovia, Qualtrics

Musical experience

Instruments (in decreasing order of proficiency): Saxophone (most proficient), flute, mallet percussion, electric bass, acoustic and electric guitar, trombone (least proficient)