

Laurent GRÉGOIRE
PhD in Cognitive Psychology

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21000 Dijon, France

Education

University of Burgundy, Dijon, France

- 2009 - 2013 **PhD in cognitive psychology**
The emergence and the development of the obligatory characteristic of cognitive automatisms
Supervised by Dr. Pierre Perruchet and Dr. Bénédicte Poulin-Charronnat
- 2008 - 2009 **Master 2 research in cognitive psychology**
Dissertation in Pavlovian conditioning
- 2007 - 2008 **Master 1 in cognitive psychology**
Dissertation in cognitive automatisms
- 2003 - 2006 **Bachelor of science in psychology**

Languages: French (mother tongue), English (advanced)

Computer skills: - Data acquisition: Acqknowledge, E-Prime, Eyelink, LabChart, MATLAB, PyCorder
- Signal processing: AFNI (fMRI), BrainVision Analyzer 2 (EEG), MATLAB
- Statistical analysis: Excel, SPSS, Statistica

Professional experiences

➤ Scientific research

- 2018 to 2025 **Postdoctoral researcher at Texas A&M University, United States**
Learning & Attention Laboratory
Study of associative learning and attention (effects of reward- and punishment-associative learning on subsequent attention) using human psychophysics (response time, accuracy, eye movements) and functional neuroimaging methodologies.
- 2016 to 2018 **Postdoctoral researcher at Louisiana State University, United States**
Cognitive Neuroscience of Affect and Psychopathology Laboratory
Study of neural bases of emotion-cognition interactions (associative learning and fear extinction) using functional magnetic resonance imaging and electrodermal activity.
- 2014 to 2016 **Postdoctoral researcher at the University of Quebec at Trois-Rivieres, Canada**
Cognition, Neurosciences, Affect and Behavior research group
Study of the relationship between emotion and cognition (effects of trauma exposure on attention and memory) using electroencephalographic measures and electrodermal activity.
- 2009 to 2014 **Study engineer in psychology for the National Center of the Scientific Research, France**
Laboratory for Research on Learning and Development, University of Burgundy
Study of cognitive automatisms and associative learning using human psychophysics (response time, accuracy) and electrodermal activity.

➤ **Teaching**

- 2016 **University of Quebec at Trois-Rivieres, Canada. Department of psychology**
- ✓ Cognitive psychology for undergraduate students, Lecturer (45 hours)
- 2010 to 2014 **University of Burgundy, Dijon, France. Department of psychology**
- ✓ Cognitive psychology for undergraduate students, Lecturer (84 hours)
 - ✓ Experimental methodology for undergraduate students, Lecturer (208 hours)
 - ✓ Cognitive methodology for undergraduate students, Lecturer (12 hours)
 - ✓ Statistics for undergraduate students, Lecturer (130 hours)
 - ✓ Cognitive psychology (implicit learning) for graduate students, Lecturer (36 hours)
 - ✓ Developmental psychology (visual deficiencies) for graduate students, Lecturer (3 hours)
- 2007 to 2012 **Mathematics teacher (high school and university levels) in private lessons (with Acadomia)**
- 2006 to 2009 **Mentoring in psychology, University of Burgundy**

➤ **Students mentored**

Undergraduate students:

- Carole-Anne Leblanc
- Lysanne Landry
- Isabelle Gosselin
- Simon Fortier-St-Pierre
- Leyla Ochoa
- Ana-Sofia Quijano
- Liliana Hepburn
- Shivam Pancholy
- Kirsten Moore
- Lana Mrkonja

Graduate students:

- Ming-Ray Liao
- Haena Kim
- Andy Jeesu Kim
- Niya Yan

➤ **Academic service**

Ad Hoc Reviewing: *Attention, Perception, & Psychophysics*
Biological Psychology
Brain Sciences
Cognition
Emotion
Emotion Review
Experimental Psychology
Journal of Anxiety Disorders
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Experimental Psychology: Human Perception and Performance
Journal of Vision
Memory & Cognition
Nature Communications
Psychonomic Bulletin & Review
Psychological Research

Awards and Honors

- Award for best graduate poster presentation (ARMADILLO Conference, 2017).
- Award for research proposal development program (Texas A&M University, 2024).

Publications

- Grégoire, L.**, Ochoa, L., Pancholy, S., Hepburn, L., Greening, S. G., Anderson, B. A. (in press). Does fear conditioning via mental imagery influence subsequent attention? *Cognition & Emotion*.
- Lyons, A. L., Jiang, X., Rawliuk, T., Burleigh, L., Horner, S., **Grégoire, L.**, & Greening, S. G. (2026). Ventromedial prefrontal cortex activity during extinction recall suggests successful extinction learning via mental imagery. *Social Cognitive and Affective Neuroscience*, 21(1), nsag031. <https://doi.org/10.1093/scan/nsag031>
- Lee, D. S., Clement, A., **Grégoire, L.**, & Anderson, B. A. (2025). Aversive conditioning, anxiety, and the strategic control of attention. *Cognition & Emotion*, 39(2), 476–484. <https://doi.org/10.1080/02699931.2024.2413360>
- Kim, A. J., **Grégoire, L.**, & Anderson, B. A. (2025). Reliably measuring learning-dependent distractor suppression with eye tracking. *Behavior Research Methods*, 57(1), 18. <https://doi.org/10.3758/s13428-024-02552-8>
- Grégoire, L.**, Dubravac, M., Moore, K., Kim, N., & Anderson, B. A. (2024). Observational learning of threat-related attentional bias. *Cognition & Emotion*, 38(5), 789–800. <https://doi.org/10.1080/02699931.2024.2317917>
- Kim, N.*, **Grégoire, L.***, Razavi, M., Yan, N., Lee, D., Lewis, P., Ahn, C. R., & Anderson, B. A. (2024). Protocol to evaluate the effectiveness of a virtual-reality-based behavioral intervention in enhancing sensory responses to real-world warning. *STAR protocols*, 5(3), 103262. <https://doi.org/10.1016/j.xpro.2024.103262>
*These authors contributed equally
- Anderson, B. A., Kim, N., **Grégoire, L.**, Yan, N., & Ahn, C. R. (2024). Attention failures cause workplace accidents: Why workers ignore hazards and what to do about it. *Policy Insights from the Behavioral and Brain Sciences*, 11(1), 27-35. <https://doi.org/10.1177/23727322231218190>
- Grégoire, L.**, Robinson, T. D., Choi, J. M., & Greening, S. G. (2023). Conscious expectancy rather than associative strength elicits brain activity during single-cue fear conditioning. *Social Cognitive and Affective Neuroscience*, 18(1), nsad054. <https://doi.org/10.1093/scan/nsad054>
- Grégoire, L.**, & Anderson, B. A. (2023). Instructional learning of threat-related attentional capture is modulated by state anxiety. *Emotion*, 24(2), 531–537. <https://doi.org/10.1037/emo0001291>
- Kim, N., Yan, N., **Grégoire, L.**, Anderson, B. A. & Ahn, C. R. (2023). Road construction workers' boredom susceptibility, habituation to warning alarms, and accident proneness: A virtual reality experiment. *Journal of Construction Engineering and Management*, 149(2), 04022175. <https://doi.org/10.1061/JCEMD4.COENG-12818>
- Clement, A., **Grégoire, L.**, & Anderson, B. A. (2023). Generalisation of value-based attentional priority is category-specific. *Quarterly Journal of Experimental Psychology*, 76(10), 2401–2409. <https://doi.org/10.1177/17470218221144318>
- Kim, N.*, **Grégoire, L.***, Razavi, M., Yan, N., Ahn, C. R., & Anderson, B. A. (2022). Virtual accident curb risk habituation in workers by restoring sensory responses to real-world warning. *iScience*, 26(1), 105827. <https://doi.org/10.1016/j.isci.2022.105827> *These authors contributed equally
- Grégoire, L.**, Mrkonja, L. & Anderson, B. A. (2022). Cross-modal generalization of value-based attentional priority. *Attention, Perception, & Psychophysics*, 84(8), 2423–2431. <https://doi.org/10.3758/s13414-022-02551-x>
- Grégoire, L.**, Britton, M. K., & Anderson, B. A. (2022). Motivated suppression of value- and threat-modulated attentional capture. *Emotion*, 22(4), 780-794. <https://doi.org/10.1037/emo0000777>

- Anderson, B. A., Liao, M.-R., & **Grégoire, L.** (2022). Pavlovian learning in the selection history-dependent control of overt spatial attention. *Journal of Experimental Psychology: Human Perception and Performance*, 48(8), 783–789. <https://doi.org/10.1037/xhp0001030>
- Greening, S. G., Lee, T.-H., Burleigh, L., **Grégoire, L.**, Robinson, T., Xinrui, J., Millin, R., Mather, M., & Kaplan, J. (2022). Mental imagery can generate and regulate acquired differential fear conditioned reactivity. *Scientific Reports*, 12, 997. <https://doi.org/10.1038/s41598-022-05019-y>
- Grégoire, L.**, Landry, L., Gustafsson, E., & Blanchette, I. (2021). Alteration of early attentional processing after analogue trauma exposure: Evidence from event-related potentials. *Experimental Brain Research*, 239(12), 3671-3686. <https://doi.org/10.1007/s00221-021-06234-1>
- Kim, A. J., **Grégoire, L.**, & Anderson, B. A. (2021). Value-biased competition in the auditory system of the brain. *Journal of Cognitive Neuroscience*, 34(1), 180-191. https://doi.org/10.1162/jocn_a_01785
- Leblanc-Sirois, Y., Chouinard-Gaouette, L., **Grégoire, L.**, & Blanchette, I. (2021). Perceptual processing of stimuli related to an analogue traumatic event: An ERP study. *Brain and Cognition*, 153(3):105774. <https://doi.org/10.1016/j.bandc.2021.105774>
- Anderson, B. A., Kim, H., Kim, A. J., Liao, M.-R., Mrkonja, L., Clement, A., & **Grégoire, L.** (2021). The past, present, and future of selection history. *Neuroscience and Biobehavioral Reviews*, 130, 326-350. <https://doi.org/10.1016/j.neubiorev.2021.09.004>
- Grégoire, L.**, Kim, H., & Anderson, B. A. (2021). Punishment-modulated attentional capture is context specific. *Motivation Science*, 7(2), 165–175. <https://doi.org/10.1037/mot0000211>
- Grégoire, L.**, Kim, A. J., & Anderson, B. A. (2021). Semantic generalization of punishment-related attentional priority. *Visual Cognition*, 29(5), 310-317. <https://doi.org/10.1080/13506285.2021.1914796>
- Liao, M.-R., **Grégoire, L.**, & Anderson, B. A. (2020). The influence of threat and aversive motivation on conflict processing in the Stroop task. *Attention, Perception, & Psychophysics*, 82(6), 2802–2813. <https://doi.org/10.3758/s13414-020-02072-5>
- Grégoire, L.**, & Greening, S. G. (2020). Fear of the known: Semantic generalisation of fear conditioning across languages in bilinguals. *Cognition & Emotion*, 34(2), 352-358. <https://doi.org/10.1080/02699931.2019.1604319>
- Grégoire, L.**, Gosselin, I., & Blanchette, I. (2020). The impact of trauma exposure on explicit and implicit memory. *Anxiety, Stress, & Coping*, 33(1), 1-18. <https://doi.org/10.1080/10615806.2019.1664477>
- Grégoire, L.**, & Poulin-Charronnat, B. (2019). Does a non-practiced cognitive automatism withstand the test of time? *Quarterly Journal of Experimental Psychology*, 72(12), 2865-2869. <https://doi.org/10.1177/1747021819879437>
- Grégoire, L.**, & Anderson, B. A. (2019). Semantic generalization of value-based attentional priority. *Learning & Memory*, 26(12), 460-464. <https://doi.org/10.1101/lm.050336.119>
- Grégoire, L.**, Poulin-Charronnat, B., & Perruchet, P. (2019). Stroop interference depends also on the level of automaticity of the to-be-interfered process. *Acta Psychologica*, 197, 143-152. <https://doi.org/10.1016/j.actpsy.2019.05.013>
- Bugaiska, A., **Grégoire, L.**, Camblats, A.-M., Gelin, M., Méot, A., & Bonin, P. (2019). Animacy and attentional processes: Evidence from the Stroop task. *Quarterly Journal of Experimental Psychology*, 72(4), 882-889. <https://doi.org/10.1177/1747021818771514>
- Fortier-St-Pierre, S., **Grégoire, L.**, & Blanchette, I. (2019). Do different types of US produce similar evaluative conditioning? An examination with contingency-awareness and cognitive load. *Journal of Cognitive Psychology*, 31(2), 196-205. <https://doi.org/10.1080/20445911.2019.1585436>
- Grégoire, L.**, & Greening, S. G. (2019). Opening the reconsolidation window using the mind's eye: Extinction training during reconsolidation disrupts fear memory expression following mental imagery reactivation. *Cognition*, 183, 277-281. <https://doi.org/10.1016/j.cognition.2018.12.001>

- Grégoire, L.,** Caparos, S., Leblanc, C.-A., Brisson, B., & Blanchette, I. (2018). Sexual abuse exposure alters early processing of emotional words: Evidence from event-related potentials. *Frontiers in Human Neuroscience*, 11, 655. <https://doi.org/10.3389/fnhum.2017.00655>
- Perruchet, P., **Grégoire, L.,** Aerts, K., & Poulin-Charronnat, B. (2016). Dissociating conscious expectancies from automatic-link formation in an electrodermal conditioning paradigm. *Psychological Research*, 80(4), 581-589. <https://doi.org/10.1007/s00426-015-0676-7>
- Grégoire, L.,** Perruchet, P., & Poulin-Charronnat, B. (2015). How does Stroop interference change with practice? A reappraisal from the musical Stroop paradigm. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 41(2), 417-425. <https://doi.org/10.1037/xlm0000044>
- Grégoire, L.,** Perruchet, P., & Poulin-Charronnat, B. (2014b). About the unidirectionality of interference: Insight from the musical Stroop effect. *Quarterly Journal of Experimental Psychology*, 67(11), 2071-2089. <https://doi.org/10.1080/17470218.2014.896932>
- Grégoire, L.,** Perruchet, P., & Poulin-Charronnat, B. (2014a). Is the musical Stroop effect able to keep its promises? A reply to Akiva-Kabiri and Henik (2014), Gast (2014), Moeller and Frings (2014), and Zakay (2014). *Experimental Psychology*, 61(1), 80-83. <https://doi.org/10.1027/1618-3169/a000222>
- Grégoire, L.,** Perruchet, P., & Poulin-Charronnat, B. (2013). The musical Stroop effect: Opening a new avenue to research on automatisms. *Experimental Psychology*, 60(4), 269-278. <https://doi.org/10.1027/1618-3169/a000197>

Oral communications

- Kim, N., **Grégoire, L.,** Anderson, B. A., Suermann, P., & Ahn, C. R. (2022, November). *How personality affects construction workers' vigilance to repeatedly exposed struck-by hazards in road work zones*. The 22nd International Conference on Construction Applications of Virtual Reality, Seoul, South Korea.
- Kim, N., **Grégoire, L.,** Anderson, B. A., & Ahn, C. R. (2022, June). *Construction workers' sensation-seeking and inattentiveness to warning alarms from construction vehicles*. Paper presented at the 9th International Conference on Construction Engineering and Project Management, Las Vegas, NV, United States.
- Anderson, B. A., **Grégoire, L.,** Kim, H., Kim, A. J., & Liao, M.-R. (2020, November). *Overcoming value-driven attentional capture*. Paper presented at the 61st annual meeting of the Psychonomic Society (virtual conference).
- Anderson, B. A., Kim, H., Kim, A. J., **Grégoire, L.,** & Liao, M.-R. (2019, October). *Reward and punishment bias attention through a common underlying mechanism*. Paper presented at the 27th annual conference of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization, San Antonio, TX, United States.
- Grégoire, L.,** & Greening, S. G. (2018, April). *Semantic generalization of fear conditioning across language*. Paper (poster spotlights session) presented at the 5th annual conference of the Society for Affective Science, Los Angeles, CA, United States.
- Grégoire, L.,** Gosselin, I., & Blanchette, I. (2016, April). L'influence du contenu émotionnel sur la mémoire implicite et explicite chez des victimes d'agressions sexuelles. In I. Blanchette (Chair), *Maltraitance, génocide, agressions sexuelles... Quels peuvent être les impacts d'événements traumatiques sur le fonctionnement cognitif?* Symposium conducted at the 38th general meeting of the Quebec Society for Research in Psychology, Trois-Rivieres, QC, Canada.
- Grégoire, L.,** Perruchet, P., & Poulin-Charronnat, B. (2015, March). *Le développement de l'automatisme*. Paper presented at the 37th general meeting of the Quebec Society for Research in Psychology, Gatineau, QC, Canada.
- Grégoire, L.,** Perruchet, P., & Poulin-Charronnat, B. (2015, March). *L'évolution du caractère obligatoire des automatismes cognitifs: Une nouvelle approche*. Paper presented at the 23rd scientific day of the Neuropsychology and Cognition Research Center, Saint-Sauveur, QC, Canada.

- Grégoire, L.** (2014, December). *L'émergence et l'évolution du caractère obligatoire des automatismes cognitifs*. Invited speaker at the Cognition, Neurosciences, Affect and Behavior research group, University of Quebec at Trois-Rivieres, Trois-Rivieres, QC, Canada.
- Grégoire, L.** (2011, January). *Étude de l'automatisme et de son développement*. Invited speaker at the Laboratory for Research on Learning and Development, University of Burgundy, Dijon, France.
- Grégoire, L.** (2010, December). *L'automatisme de la dénomination de notes*. Invited speaker at the Regional Conservatory, Dijon, France.

Poster presentations

- Grégoire, L.,** Ochoa, L., Pancholy, S., Hepburn, L., Greening, S. G., & Anderson, B. A. (2025, May). *Can fear learning via mental imagery affect subsequent attention?* Poster presented at the 25th annual meeting of the Vision Sciences Society, St. Pete Beach, FL, United States.
- Grégoire, L.,** Lee, D. S., & Anderson, B. A. (2024, May). *Do physical effort and electrical stimulations similarly affect attentional capture?* Poster presented at the 24th annual meeting of the Vision Sciences Society, St. Pete Beach, FL, United States.
- Yan, N., **Grégoire, L.,** & Anderson, B. A. (2023, November). *An exploration of the cross-modal generalizability of selection history-dependent attentional bias*. Poster presented at the 64th annual meeting of the Psychonomic Society, San Francisco, CA, United States.
- Jahan, N., Bailon, E., Spencer, J. C., **Grégoire, L.,** & Anderson, B. A. (2023, November). *Risk preferences in attention and decision-making*. Poster presented at the 64th annual meeting of the Psychonomic Society, San Francisco, CA, United States.
- Grégoire, L.,** Dubravac, M., Moore, K., Kim, N., & Anderson, B. A. (2023, May). *Vicarious learning of threat-related attentional capture*. Poster presented at the 23rd annual meeting of the Vision Sciences Society, St. Pete Beach, FL, United States.
- Moore, K., **Grégoire, L.,** Clement, A., & Anderson, B. A. (2023, May). *Generalization of threat-related attentional priority with visual objects*. Poster presented at the 23rd annual meeting of the Vision Sciences Society, St. Pete Beach, FL, United States.
- Grégoire, L.,** & Anderson, B. A. (2022, November). *Instructional learning of threat-related attentional bias*. Poster presented at the 63rd annual meeting of the Psychonomic Society, Boston, MA, United States.
- Grégoire, L.,** Mrkonja, L. & Anderson, B. A. (2022, November). *Semantic cross-modal generalization of value-driven attention*. Poster presented at the 30th annual workshop on Object Perception, Attention, and Memory, Boston, MA, United States.
- Grégoire, L.,** Kim, N., Razavi, M., Yan, N., Ahn, C. R., & Anderson, B. A. (2022, May). *Reducing risk habituation to struck-by hazards in a road construction environment using virtual reality behavioral intervention*. Poster presented at the 22nd annual meeting of the Vision Sciences Society, St. Pete Beach, FL, United States.
- Clement, A., **Grégoire, L.,** & Anderson, B. A. (2021, November). *Semantic generalization of value-based attentional priority is category-specific*. Poster presented at the 62nd annual meeting of the Psychonomic Society (virtual conference).
- Kim, A. J., **Grégoire, L.,** & Anderson, B. A. (2021, November). *Value-biased competition in the auditory system of the brain*. Poster presented at the 62nd annual meeting of the Psychonomic Society (virtual conference).
- Grégoire, L.,** Kim, H., Kim, A. J., & Anderson, B. A. (2021, May). *Semantic generalization of punishment-related attentional priority*. Poster presented at the 21st annual meeting of the Vision Sciences Society (virtual conference).
- Grégoire, L.,** Kim, H., Kim, A. J., & Anderson, B. A. (2020, November). *Does threat-based attentional capture generalize across contexts?* Poster presented at the 61st annual meeting of the Psychonomic Society (virtual conference).

- Grégoire, L.,** Landry, L., & Blanchette, I. (2020, November). *Alteration of early attentional processing after analogue trauma exposure: Evidence from event-related potentials*. Poster presented at the 28th annual workshop on Object Perception, Attention, and Memory (virtual conference).
- Grégoire, L.,** Kim, H., Kim, A. J., & Anderson, B. A. (2020, June). *Threat-modulated attentional priority is context-specific*. Poster presented at the 20th annual meeting of the Vision Sciences Society (virtual conference).
- Grégoire, L.,** Britton, M. K., & Anderson, B. A. (2019, November). *Motivated suppression of the value- and threat-modulated attentional capture*. Poster presented at the 60th annual meeting of the Psychonomic Society, Montreal, QC, Canada.
- Liao, M.-R., **Grégoire, L.,** & Anderson, B. A. (2019, November). *The influence of punishment associations on conflict processing in the Stroop task*. Poster presented at the 60th annual meeting of the Psychonomic Society, Montreal, QC, Canada.
- Grégoire, L.,** & Anderson, B. A. (2019, November). *Semantic generalization of value-based attentional priority*. Poster presented at the 27th annual workshop on Object Perception, Attention, and Memory, Montreal, QC, Canada.
- Greening, S. G., Lee, T.-H., **Grégoire, L.,** Mather, M., & Kaplan, J. (2019, May). *Ghost busting: Mental Imagery in the regulation of fear conditioned reactivity*. Poster presented at the 12th annual meeting of the Social & Affective Neuroscience Society, Miami, FL, United States.
- Grégoire, L.,** & Greening, S. G. (2018, April). *Semantic generalization of fear conditioning across language*. Poster presented at the 5th annual conference of the Society for Affective Science, Los Angeles, CA, United States.
- Grégoire, L.,** & Greening, S. G. (2017, October). *The generalization of fear association across language*. Poster presented at the 25th annual conference of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization, College Station, TX, United States.
- Landry, L., **Grégoire, L.,** & Blanchette, I. (2016, September). *L'impact des symptômes intrusifs suite à un événement stressant sur les fonctions cognitives: Une étude en électroencéphalographie*. Poster presented at the 3rd scientific day of the Cognition, Neurosciences, Affect and Behavior research group, Trois-Rivieres, QC, Canada.
- Grégoire, L.,** Gosselin, I., & Blanchette, I. (2016, March). *Impact of the traumatic exposition on explicit and implicit memory*. Poster presented at the 24th scientific day of the Neuropsychology and Cognition Research Center, Saint-Sauveur, QC, Canada.
- Gosselin, I., **Grégoire, L.,** & Blanchette, I. (2015, March). *Mémoire implicite et explicite d'individus ayant vécu un événement potentiellement traumatique pour différents contenus*. Poster presented at the 22nd annual scientific poster competition of the University of Quebec at Trois-Rivieres, Trois-Rivieres, QC, Canada.
- Leblanc, C.-A., **Grégoire, L.,** Caparos, S., Brisson, B., & Blanchette, I. (2015, March). *Emotional Stroop effect would affect only the late event-related potentials in sexual abuse survivors*. Poster presented at the 37th general meeting of the Quebec Society for Research in Psychology, Gatineau, QC, Canada.