

Laurent GRÉGOIRE

✉ Department of Psychological and Brain Sciences
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Postdoctoral researcher at Texas A&M University, United States of America

Supervised by Brian A. Anderson

Education

University of Burgundy, Dijon, France

- 2009 - 2013 **Ph.D. in cognitive psychology**
The emergence and the development of the obligatory characteristic of cognitive automatisms
Supervised by Pierre Perruchet and 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: E-Prime, Psyscope, LabChart, PyCorder, Acqknowledge, Eyelink
- Data analysis: Matlab, Analyser (electroencephalography), FSL (fMRI), SPSS, Statistica
- Office: MS Office

Professional experiences

➤ Scientific research

- Since 2018 **Postdoctoral researcher at Texas A&M University, United States of America**
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 of America**
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 (CogNAC) 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 1st year undergraduate students, Lecturer (84 hours)
- ✓ Experimental methodology for 2nd year undergraduate students, Lecturer (208 hours)
- ✓ Cognitive methodology for 2nd year undergraduate students, Lecturer (12 hours)
- ✓ Statistics for 3rd year 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 (primary and secondary schools) at Acadomia**

2006 to 2009 **Mentoring in psychology, University of Burgundy**

➤ **Academic service**

Ad Hoc Reviewing: *Attention, Perception, & Psychophysics*

Biological Psychology

Brain Sciences

Cognition

Experimental Psychology

Journal of Anxiety Disorders

Journal of Traumatic Stress

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Learning, Memory, and Cognition

Memory & Cognition

Publications

Liao, M.-R., **Grégoire, L.**, & Anderson, B. A. (in press). The influence of threat and aversive motivation on conflict processing in the Stroop task. *Attention, Perception, & Psychophysics*.

Grégoire, L., Britton, M. K., Anderson, B. A. (in press). Motivated suppression of value- and threat-modulated attentional capture. *Emotion*.

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. doi: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. doi:10.1080/10615806.2019.1664477

Grégoire, L., & Poulin-Charronnat, B. (2019). Does a non-practiced cognitive automatism withstand the test of time? *The Quarterly Journal of Experimental Psychology*, 72(12), 2865-2869. doi:10.1177/1747021819879437

Grégoire, L., & Anderson, B. A. (2019). Semantic generalization of value-based attentional priority. *Learning & Memory*, 26(12), 460-464. doi: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. doi:10.1016/j.actpsy.2019.05.013

- Bugajska, A., **Grégoire, L.**, Camblats, A. M., Gelin, M., Méot, A., & Bonin, P. (2019). Animacy and attentional processes: Evidence from the Stroop task. *The Quarterly Journal of Experimental Psychology*, 72(4), 882-889. doi: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. doi: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. doi: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. doi: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. doi: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. doi:10.1037/xlm0000044
- Grégoire, L.**, Perruchet, P., & Poulin-Charronnat, B. (2014). About the unidirectionality of interference: Insight from the musical Stroop effect. *The Quarterly Journal of Experimental Psychology*, 67(11), 2071-2089. doi:10.1080/17470218.2014.896932
- Grégoire, L.**, Perruchet, P., & Poulin-Charronnat, B. (2014). 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. doi: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. doi:10.1027/1618-3169/a000197

Manuscripts submitted or in preparation

- Grégoire, L.**, Landry, L., & Blanchette, I. (submitted). Alteration of early attentional processing after analogue trauma exposure: Evidence from event-related potentials.
- Grégoire, L.**, Kim, H., & Anderson, B. A. (submitted). Threat-modulated attentional priority is context specific.
- Leblanc-Sirois, Y., Chouinard-Gaouette, L., **Grégoire, L.**, & Blanchette, I. (submitted). Perceptual processing of stimuli related to an analogue traumatic event: An ERP study.
- Greening, S. G., Lee, T. H., **Grégoire, L.**, Mather, M., & Kaplan, J. (in preparation). Ghost busting: Mental imagery in the regulation of fear conditioned reactivity.

Oral communications

- 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 (ARMADILLO), San Antonio, TX, United States of America.
- 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 of America.
- 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 23th 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 (CogNAC) 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., 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, St. Pete Beach, FL, United States of America.

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 (OPAM), 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 of America.

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 of America.

Xinrui, J., **Grégoire, L.,** & Greening, S. G. (2018, April). *Fear extinction through "the mind's eye"*. Poster presented at the 5th annual conference of the Society for Affective Science, Los Angeles, CA, United States of America.

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 (ARMADILLO), College Station, TX, United States of America.

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 (CogNAC) 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 22th 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.