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Curriculum Vitae

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# CURRICULUM VITAE

## FORMATION

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- 2003-**                      **Université du Québec à Montréal**
- Post-doctorat. Département de psychologie. Lab. du Dr. F. Richer

- 2001- 2003**                **Arizona State University**
- Post-doctorat. Department of kinesiology. Lab. du Dr. G.E. Stelmach

- 1997- 2001**                **Université de Montréal**
- Doctorat en kinésiologie
- Thèse disponible au : <http://wwwlib.umi.com/cr/umontreal/fullcit?pNQ65361>

- 1995-1997**                **Université du Québec à Trois-Rivières**
- Maîtrise en sciences de l'activité physique

- 1993-1995**                **Université du Québec à Trois-Rivières**
- Baccalauréat en psychologie

## ENSEIGNEMENT

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### **Enseignement au 1<sup>er</sup> cycle**

- Apprentissage et performance du mouvement humain (KIN-1031). Université de Montréal (1998, 1999).

### **Enseignement aux cycles supérieurs**

- Ingénierie avancée des systèmes humains (GTS-802). Séminaires en neurosciences (9 heures). École de Technologie Supérieure (2006).
- Traitement de signaux biomédicaux (SYS-867). École de Technologie Supérieure (2006).
- Séminaire sectoriel en neuropsychologie (PSY-7123). Apprentissage moteur et contrôle du mouvement (6 heures), Université du Québec à Montréal (2005).
- Séminaire sectoriel en neuropsychologie (PSY-7123). Planification et contrôle du mouvement (6 heures), Université du Québec à Montréal (2004).

### Autre

- Enseignement bénévole des neurosciences à des enfants du niveau primaire (2004-2006).

## RECHERCHE

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### Revue avec comité de lecture

- **Lemay, M., Chouinard, S., & Richer, F.** (Sous presse). Movement termination deficit in Huntington's disease. *Behavioural Brain Research*.
- Paquet, F., Bédard, M-A., Gilbert-Tremblay, P-L., Lévesque, M., **Lemay, M., Blanchet, P., & Chouinard, S.** (Sous presse). Sensorimotor adaptation in Parkinson's disease: Evidence for a dopamine dependent remapping disturbance. *Experimental Brain Research*.
- **Lemay, M., Termoz, N., Lesperance, P., Chouinard, S., Rouleau, G.A., & Richer, F.** (2007). Postural control anomalies in children with Tourette syndrome. *Experimental Brain Research*, 179(3), 525-530.
- Rand, M.K., **Lemay, M., Squire, L.M., Shimansky, Y.P., & Stelmach, G.E.** (2007). Role of vision on aperture closure during reach-to-grasp movements. *Experimental Brain Research*, 181(3), 447-460.
- Fimbel, E., **Lemay, M., & Arguin, M.** (2006). Speed-accuracy trade-offs in myocontrol. *Human Movement Science*, 25 (2), 165-180.
- **Lemay, M., Fimbel, E., Beuter, A., Chouinard, S., & Richer, F.** (2005). Spatial mapping affects movement correction deficits in early Huntington's disease. *Experimental Brain Research*, 165(4), 454-460.
- **Lemay, M. & Stelmach, G.E.** (2005). Multiple frames of reference for pointing to a remembered target. *Experimental Brain Research*, 164, 301-310.
- Boulet, C., **Lemay, M., Bédard, M.A., Chouinard, M.J., Chouinard, S., & Richer F.** (2005). Early Huntington's disease affects movements in transformed sensorimotor mappings. *Brain and Cognition*, 57, 236-243.

- Bertram, C.P., **Lemay**, M., & Stelmach, G.E. (2005). The control of multijoint synergies in Parkinson's disease. *Brain and Cognition*, 57, 16-20.
- **Lemay**, M. & Bertram, C.P., & Stelmach, G.E. (2004). Pointing to a remembered allocentric and egocentric target. *Motor Control*, 8(1), 16-32.
- **Lemay**, M. & Bertram, C.P., & Stelmach, G.E. (2004). Pointing to a remembered allocentric and egocentric target: effect of aging. *Experimental Aging Research*, 30(4), 391-406.
- **Lemay**, M., Gagnon, S., & Proteau, L. (2004). Manual pointing to remembered target ...But also in a remembered visual context. *Acta Psychologica*, 117, 139-153.
- **Lemay**, M. & Proteau, L. (2003). Aging affects pointing to unseen targets encoded in an allocentric frame of reference. *Experimental Aging Research*, 23, 319-333.
- **Lemay**, M. & Proteau, L. (2002). The effects of target presentation time, recall delay and aging on the accuracy of manual pointing to no longer visible targets. *Journal of Motor Behavior*, 34, 11-23.
- **Lemay**, M. & Proteau, L. (2001). Distance effect in a manual aiming task to remembered targets: a test of three hypotheses. *Experimental Brain Research*, 140, 357-368.

### Résumés publiés

- **Lemay**, M, Chouinard, S., Richer, F. (Sous presse). Movement termination deficit in Huntington's disease. *Brain and Cognition*.
- **Lemay**, M, Chouinard, S., Richer, F. (2007). The movement correction deficit in Huntington' disease is sensitive to terminal control requirements. *The Canadian Journal of Neurological Science*, 34 (Suppl. 3), S50.
- Philibert, M., **Lemay**, M., Djerroud, N., Chouinard, S., & Richer, F. (2007). Task-related pupillary activation in Huntington's disease. *The Canadian Journal of Neurological Science*, 34 (Suppl. 3), S47.

- **Lemay, M.**, Chouinard, S., Lesperance, P., Rouleau, G., Richer, F. (2006). Postural Anomalies in Tourette Syndrome. *Movement Disorders*, 21(9), 1555.
- Rand, M.K. Squire, L.M., **Lemay, M.**, Shimansky, Y.P., & Stelmach, G.E. (2006). Effect of the presence of vision on finger closure during reach-to-grasp movements. *Society for Neuroscience Abstracts*, 147.1.
- **Lemay, M.** Richer, F., & Proteau, L. (2006). The role of visual context in pointing to a remembered target. *Brain and Cognition*, 60, 313.
- Philibert, M, **Lemay, M.**, Boulet, C., Chouinard, S., & Richer, F. (2006). Attention and movement selection in Huntington's disease. *Brain and Cognition*, 60, 317.
- Rand, M.K., Squire, L.M., **Lemay, M.**, Shimansky, Y.P. & Stelmach G.E. (2006) Altering the presence of vision and trunk movement during reach-to-grasp movements in Parkinson's disease. *Movement Disorders*, 21 (Suppl. 15), S502-S503.
- **Lemay, M.**, Boulet, C., Lafrance, C., Chouinard, S., & Richer, F. (2005). Attention to visual feedback affects movement impairments in Huntington's disease. *Journal of Neurology, Neurosurgery & Psychiatry*, 76 (Supplement IV), A30.
- **Lemay, M.**, Richer, F., & Proteau, L. (2005). Visual context affects both planning and execution in pointing to remembered targets. *Canadian Psychology*, 46 (2a), 259.
- Philibert, M., **Lemay, M.**, Boulet, C., Chouinard, S., & Richer, F. (2005). Cognition, movement selection and striatal damage in Huntington's disease. *Canadian Psychology*, 46 (2a), 88.
- Rand, M.K., Squire, L.M., **Lemay, M.**, & Stelmach, G.E. (2005). Role of vision during trunk assisted reach-to-grasp movement in Parkinson's disease. *Society for Neuroscience Abstracts*, 867.12.
- **Lemay, M.** & Stelmach, G.E. (2005). Frames of references for pointing to a remembered target. *Tennet XV Abstracts, Brain and Cognition*, 57, 283.

- **Lemay, M., Teuling, H.-L., Fimbel, E., & Richer, F. (2004).** Control of continuous movement in early Huntington's disease. Society for Neuroscience Abstracts, 181.20.
- **Lemay, M., Boulet, C., & Richer, F. (2004).** The control of a continuous movement in Huntington's disease. Motor control: trends and perspective symposium abstracts, p. 14.
- **Lemay, M., Teuling, H.-L., & Stelmach, G.E. (2003).** Pointing to a remembered target. Society for Neuroscience Abstracts, 619.13.

### **Manuscrits soumis ou en préparation**

- **Lemay, M., Termoz, N., Lesperance, P., Chouinard, S., Rouleau, G.A., & Richer, F.** Postural control anomalies in Tourette's syndrome is affected by increased attentional load.
- Richer, F., **Lemay, M., Djerroud, N., & Chouinard, S.** Task-related activation in Huntington's disease: a pupillometric study.
- Richer, F., Lafrance, C., Marcantoni, W., Boulet, C., **Lemay, M., & Chouinard, S.** Sensorimotor cortex activation during precision movements in early Huntington's disease.
- Rand, M.K., **Lemay, M., Squire, L.M., & Stelmach, G.E.** Role of vision during trunk assisted reach-to-grasp movement in Parkinson's disease.
- **Lemay, M., Richer, F., & Proteau, L.** Visual background affects both planning and execution in pointing to remembered targets.

### **Chapitre**

- Richer, F., **Lemay, M., & Lepage, M. (en préparation).** Episodic memory in the context of significant cognitive control problems: The case of Huntington's disease. In Ekrem Dere, Alexander Easton and Joseph P. Huston (Eds). Handbook of Behavioral Neuroscience: Episodic Memory Research. Elsevier: London.

### Présentations invitées

- **Lemay, M.** (2007). Retrouver ses clés dans le noir à 20 ans et 70 ans : effet de l'âge sur l'exécution de mouvements vers une cible mémorisée. Conférence organisée par l'unité de recherche en gériatrie de l'université Laval. Québec, Canada.
- **Lemay, M.** (2005). Motor anomalies as markers of short-term progression in Huntington's disease. HDSA Ninth annual scientific meeting, Miami Lakes, États-Unis.
- **Lemay, M.** (2005). Évolution du mouvement volontaire dans la maladie d'Huntington. Unité des troubles du mouvement, CHUM, Montréal, Canada.
- **Lemay, M., Boulet, C., & Richer, F.** (2004). The control of a continuous movement in Huntington's disease. Motor control: trends and perspective symposium, Tempe, États-Unis.
- **Lemay, M. & Proteau, L.** (2001). Egocentric and allocentric representation of a remembered target for manual pointing in younger and older adults. Arizona State University, États-Unis.

### Présentations récentes

- **Lemay, M., Termoz, N., Lesperance, P., Chouinard, S., Rouleau, G.A., & Richer, F.** (2007). Le contrôle de la posture est affecté chez les enfants avec un syndrome de Gilles-de-la-Tourette. Congrès sur le syndrome de Gilles-de-la-Tourette. Montréal, Canada.
- **Lemay, M.** (2007). Contrôle volontaire et involontaire du mouvement dans les atteintes frontostriatales. Retraite des chercheurs du Centre de recherche du CHU Sainte-Justine. Montréal, Canada.
- **Lemay, M., Chouinard, S., & Richer, F.** (2007). The movement correction deficit in Huntington's disease is sensitive to terminal control requirements. Canadian Association for Neuroscience, Toronto, Canada.
- **Philibert, M., Lemay, M., Djerroud, N., Chouinard, S., & Richer, F.** (2007). Task-related pupillary activation in Huntington's disease. Canadian Association for Neuroscience, Toronto, Canada.

- **Lemay, M., Chouinard, S., Richer, F. (2007).** Movement termination deficit in Huntington's disease. Tennesse XVI, Montréal, Canada.
- **Lemay, M., Richer, F., Chouinard, M.-J., Lesperance, P., Rouleau, G.A., Chouinard, S., & the Montreal Tourette Study Group (2007).** Prenatal factors and behavioral symptoms in Tourette syndrome. Deuxième retraite annuelle du centre d'étude des maladies du cerveau. Orford, Canada.
- **Lemay, M., Chouinard, S., & Richer, F. (2006).** Increased attentional demands affect voluntary movement in Huntington's disease. Congrès du CRCHUM, Montréal, Canada.
- **Lemay, M. (2006).** La maladie d'Huntington: mouvements volontaires comme marqueurs précliniques. Première retraite annuelle du centre d'étude des maladies du cerveau. Ste-Marguerite, Canada.
- **Lemay, M., Chouinard, S., Lesperance, P., Rouleau, G., Richer, F. (2006).** Postural Anomalies in Tourette Syndrome. Annual Symposia on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. Chicago, États-Unis.
- **Lemay, M., Chouinard, S., & Richer, F. (2006)** Increased attentional demands affect voluntary movement in Huntington's disease. HD 2006: Changes, Advances, and Good News (CAG)n. Cambridge, États-Unis.
- **Rand, M.K., Squire, L.M., Lemay, M., Shimansky, Y.P. & Stelmach G.E. (2006)** Effect of the presence of vision on finger closure during reach-to-grasp movements. Society for Neuroscience 36th annual meeting. Atlanta, États-Unis.
- **Rand, M.K., Squire, L.M., Lemay, M., Shimansky, Y.P. & Stelmach, G.E. (2006)** Altering the presence of vision and trunk movement during reach-to-grasp movements in Parkinson's disease. The Movement Disorder Society's 10th International Congress of Parkinson's Disease and Movement Disorders. Kyoto, Japan.

- **Lemay, M., Boulet, C., Lafrance, C., Chouinard, S., & Richer, F.** (2005). Attention to visual feedback affects movement impairments in Huntington's disease. World congress on Huntington's disease, Manchester, Angleterre.
- **Lemay, M. Richer, F., & Proteau, L.** (2005). The effects of remembered and visual cues on memory-guided pointing movement. Canadian Society for Brain, Behaviour and Cognitive Science, Montréal, Canada.
- **Lemay, M. Richer, F., & Proteau, L.** (2005). The role of visual context in pointing to a remembered target. Tennesse XVI, Montréal, Canada.
- Philibert, M., **Lemay, M., Boulet, C., Chouinard, S., & Richer, F.** (2005) Attention and movement selection in Huntington's disease. Tennesse XVI, Montréal, Canada.
- Philibert, M., **Lemay, M., Boulet, C., Chouinard, S., & Richer, F.** (2005). Cognition, movement selection and striatal damage in Huntington's disease. Canadian psychological association, Montréal, Canada.
- Rand, M.K., Squire, L.M., **Lemay, M., & Stelmach, G.E.** (2005) Altering the presence of vision during trunk-assisted reach-to-grasp movement in Parkinson's disease. Society for Neuroscience 35th annual meeting, Washington, États-Unis.
- **Lemay, M, Fimbel, E., & Richer, F.** (2004). La représentation sensorimotrice de l'espace affecte la correction du mouvement chez les patients atteints de la maladie d'Huntington. Congrès du CRCHUM, Montréal, Canada.
- **Lemay, M., Teuling, H.-L., Fimbel, E., & Richer, F.** (2004). Control of continuous movement in early Huntington's disease. Neuroscience, San-Diego, États-Unis.
- **Lemay, M. & Stelmach, G.E.** (2004). Frames of references for pointing to a remembered target. Tennesse XV, Montréal, Canada.

- Boulet, C., Chouinard, M.J., **Lemay**, M., Chouinard, S., & Richer, F. (2004). Movement control in transformed sensorimotor mappings in early Huntington's disease. Tennesse XV, Montréal, Canada.
- Bertram, C.P., **Lemay**, M., & Stelmach, G.E. (2004). The control of multijoint synergies in Parkinson's disease. Tennesse XV, Montréal, Canada.
- **Lemay**, M. & Stelmach, G.E. (2004). Le maintien d'une cible en mémoire. Association francophone pour le savoir, Montréal.
- **Lemay**, M., Teuling, H.-L., & Stelmach, G.E. (2003). Pointing to a remembered target. Neuroscience, Nouvelle-Orléans, États-unis.

#### SUBVENTIONS, BOURSES ET HONNEURS

- 2007-2012. Subvention à la découverte. Conseil de recherches en sciences naturelles et en génie du Canada (CRSNG). 120 000\$
- 2005-2007. Bourse post-doctorale. Huntington's Disease Society of America (HDSA). 100 000\$.
- 2005. Young Investigator's Award. The Huntington's Disease Association. 1 500\$
- 2003-2005. Bourse post-doctorale. Université du Québec à Montréal. 70 000\$ (35 000\$/an).
- 2001-2003. Bourse post-doctorale. Arizona State University. 65 000\$ (32 500\$/an).
- 1999. Bourse spéciale de la faculté. Bourse remis pour « récompenser la qualité du travail d'un étudiant au doctorat ». Université de Montréal. 5 000\$
- 1998-2000. Bourses de l'université de Montréal. 15 000\$ (5 000\$/an).

## EXPÉRIENCES ACADÉMIQUES PERTINENTES

- Participation à la supervision d'étudiants au doctorat en psychologie (Claudine Boulet, Maxime Philibert) (2003-).
- Chercheur associé à l'école de technologie supérieure, Montréal, (2003-).
- Collaborateur au Groupe de recherche Tourette de Montréal (2003-).
- Auxiliaire de recherche au laboratoire de kinésiologie de l'université de Montréal (1997-1998).
- Auxiliaire de recherche au laboratoire de kinésiologie de l'université de Waterloo (1998, 2001).
- Évaluateur ad hoc d'articles scientifiques: Behavioral and Brain Research, Experimental Brain Research, Canadian Journal of Experimental Psychology.

## EXPÉRIENCES NON-ACADÉMIQUES PERTINENTES

- Intervenant auprès d'adolescents et d'adultes souffrant d'un problème de santé mentale (1995-1997).
- Intervenant auprès de personnes âgées (1994).
- Membre du conseil d'administration d'un centre d'aide pour personnes souffrant d'un problème de santé mentale (1996).