

# Curriculum Vitae

## Rémy Allard

Name Rémy Allard  
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Nationality Canadian  
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Position Associate researcher at Université Pierre et Marie Curie (UPMC)  
Jan 2014 - Institut de la Vision, UMR 7210, CNRS, INSERM, UPMC  
Responsible for research axis *Ageing & visual perception*, Chair *SilverSight* (ANR–Essilor)

### RESEARCH INTERESTS

**Motion perception.** Despite more than 3 decades of research, there is no consensus on the existence of the motion systems enabling motion perception. It is well accepted that there are at least two qualitatively distinct motion systems: a low-level, energy-based system sensitive to luminance motion and a high-level, feature tracking system that attentively tracks features defined by various attributes such as luminance, color or texture. However, many researchers also suggest the existence of dedicated low-level, energy-based motion systems sensitive to color- and/or texture-defined motion. My goal is to determine the motion systems enabling motion perception.

**Using visual noise.** Noise is widely used to study visual functions and it is generally assumed that the same processing strategies (i.e., mechanisms) operate whether the dominant noise source comes from the observer (internal noise) or the stimulus (external noise). However, I recently found conditions under which the processing strategy drastically changes depending on the noise source, which violates the noise-invariant processing assumption. I am now trying to determine the conditions under which the processing strategy changes.

**Vision & Aging.** Healthy aging alters all processing levels of the visual system, such as optics of the eye, retinal processing, early pre-attentive processing, and high-level attention-based processing. These alterations affect many visual functions such as contrast sensitivity, motion perception and visual attention. Although many effects of aging on visual functions are known, the specific functional and neurobiological factors responsible for age-related sensitivity loss in various visual functions remain unknown. I am investigating which underlying factors are responsible for age-related visual losses.

### ACADEMIC POSITIONS

2014 - **Associate researcher**  
Aging in Vision and Action team (dir. A. Arleo)  
Research Chair *SilverSight* (dir. A. Arleo), ANR-Essilor  
Institut de la Vision (dir. J.-A. Sahel), UMR7210, CNRS-INSERM-UPMC, Paris, France

2014 - **Adjunct professor**  
École d'optométrie, Université de Montréal, Montréal, Canada

2010 - 2013 **Postdoctoral fellow**  
Visual Psychophysics and Perception Laboratory (dir. J. Faubert)  
Université de Montréal, Montréal, Québec, Canada

2008 - 2010 **Postdoctoral fellow**  
Laboratoire Psychologie de la Perception (dir. P. Cavanagh)  
Université Paris Descartes, Paris, France

**ACADEMIC QUALIFICATIONS**

- 2003 - 2009    **Ph.D. - Experimental Psychology**  
Visual Psychophysics and Perception Laboratory (supervisor J. Faubert),  
Université de Montréal, Montréal, Québec, Canada  
Thesis: *La perception d'attributs visuels de premier et deuxième ordres*
- 2001 - 2003    **MSc - Vision Sciences**  
Visual Psychophysics and Perception Laboratory (supervisor J. Faubert),  
Université de Montréal, Montréal, Québec, Canada  
Thesis: *Modélisation d'un réseau de neurones humains dans le but de comprendre la dégradation neurale lors du vieillissement*
- 1997 - 2001    **BSc - Computer Sciences (Major), Mathematics (Minor)**  
Université de Moncton, Moncton, New Brunswick, Canada

**EDITORIAL EXPERIENCE**

Guest Associate Editor for *Research Topic* in *Frontiers in Psychology*  
Noise is widely used in psychophysics and recent findings questioned underlying assumptions made when using noise. The *Research Topic* "Using noise to characterize vision" addressed this fundamental issue.

Ad-hoc reviewer for *Journal of Vision* (ranked "Exceptionally Good Review")

Ad-hoc reviewer for *Attention, Perception, & Psychophysics*

Ad-hoc reviewer for *Frontiers in Human Neuroscience*

Ad-hoc reviewer for *Behavior Research Methods*

**TEACHING EXPERIENCE**

- 2014            UPMC, Master of Integrative Biology, Paris, France  
Specialization in Biology of Aging & Longevity,  
Invited lecturer (teaching *Vision and Aging*, 2h/y)  
~20 Master students
- 2012-3        McGill University, Bachelor in Psychology, Montréal, Québec, Canada  
Invited lecturer (teaching *Motion* in the *Perception* course, 3h/y)  
~500 undergraduate students
- 2012            Concordia University, Bachelor in Psychology, Montréal, Québec, Canada  
Lecturer (*Fundamentals of Sensation And Perception*, 45h/y)  
~50 undergraduate students
- 2011            McGill University, Bachelor in Psychology, Montréal, Québec, Canada  
Lecturer (*Perception*, 45h/y)  
~500 undergraduate students
- 2003-5-7      Workshop on aging, Canadian Institutes of Health Research (CIHR)  
Invited lecturer (teaching *Spatial and Temporal Vision* and *Screen Calibration*, 5h/y)  
~20 Master and PhD students

## HONORS AND AWARDS

- 2008 - 2010    **Postdoctoral fellowship**  
Fonds québécois de la recherche sur la nature et les technologies (FQRNT)  
Amount: 60 000\$CND
- 2006 - 2007    **Excellence award**  
Université de Montréal  
Amount: 8 000\$CND
- 2005 - 2007    **Graduate fellowship**  
Natural Sciences and Engineering Research Council (NSERC)  
Amount: 42 000\$CND
- 2007            **Student Travel Fellowship**  
American academy of optometry, Tampa, FL  
Amount: 750\$US
- 2007            **Scientific communication fellowship**  
Entretiens ophtalmologiques de l'Université de Montréal  
Amount: 900\$CND
- 2006            **Student Travel Fellowship**  
American academy of optometry, Denver, CO  
Amount: 500\$US
- 2004 - 2005    **Excellence masters award**  
École d'optométrie, Université de Montréal  
Amount: 6 000\$CND

## MEDIA INTERVIEW

ElderBranch (23 octobre 2013)

Vision Deterioration in Older Adults: A Conversation with Dr. Rémy Allard

<http://www.elderbranch.com/blog/vision-deterioration-in-older-adults>

## SCIENTIFIC PUBLICATIONS

### Summary

- 18 original articles published in peer-reviewed journals (+2 in revision)
- 1 patent
- 3 peer-reviewed proceedings
- 2 invited articles in clinical journals
- 3 invited talks
- 10 oral presentations at international conferences
- 30 poster presentations at international conferences
- 20 oral presentations at national conferences
- 8 poster presentations at national conferences

### Original Journal Articles

**Allard R.** & Faubert J. (in revision) Furrow illusion explained by reduced attentional resolution in the periphery. *Frontiers in Human Neuroscience*. 14 pages.

Greffou S., Faubert J. & **Allard R.** (in revision) Visually driven postural reactivity in healthy aging. *Journal of Vision*. 28 pages.

1. **Allard R.** & Faubert J. (2014) An expansive, cone-specific nonlinearity enabling the luminance motion system to process color-defined motion. *Journal of Vision*, 14(8):2, 1-10
2. **Allard R.** & Faubert J. (2014) Motion processing: The most sensitive detectors differ in temporally localized and extended noise. *Frontiers in Psychology*, 5, 1-5
3. **Allard R.** & Faubert, J. (2014) To characterize contrast detection, noise should be extended, not localized. *Frontiers in Psychology*, 5, 1-7
4. **Allard R.**, Renaud J., Molinatti S. & Faubert J. (2013) Contrast sensitivity, healthy aging and noise. *Vision Research*, 92:47-52
5. **Allard R.** & Faubert J. (2013) No dedicated second-order motion system. *Journal of Vision*, 13(11):2, 1-9
6. **Allard R.** & Faubert J. (2013) Zero-dimensional noise is not suitable for characterizing processing properties of detection mechanisms. *Journal of Vision*, 13(10):25, 1-3
7. **Allard R.**, Lagacé-Nadon S. & Faubert J. (2013) Feature tracking and aging. *Frontiers in Psychology*. 4:427, 1-8
8. **Allard R.** & Faubert J. (2013) No second-order motion system sensitive to high temporal frequencies. *Journal of Vision*, 13(5):4, 1-14
9. Legault I., **Allard R.** & Faubert J. (2013) Healthy older observers show equivalent perceptual-cognitive training benefits to young adults for multiple object tracking. *Frontiers in Psychology*, 4:323, 1-7
10. Hanssens J.-M., **Allard R.**, Giraudet G. & Faubert J. (2013) Visually induced postural reactivity is velocity-dependent at low temporal frequencies and frequency-dependent at high temporal frequencies. *Experimental Brain Research*, 229(1), 75–84
11. **Allard R.** & Cavanagh P. (2012) Different processing strategies underlie voluntary averaging in low and high noise. *Journal of Vision*, 12(11):6, 1-12
12. **Allard R.** & Cavanagh P. (2011) Crowding in a detection task: external noise triggers change in processing strategy. *Vision Research*, 51(4):408-16
13. Lagacé-Nadon S., **Allard R.** & Faubert J. (2009) Exploring the spatiotemporal properties of fractal rotation perception. *Journal of Vision*, 9(7):3, 1-15
14. **Allard R.** & Faubert J. (2008) First- and second-order motion mechanisms are distinct at low but common at high temporal frequencies. *Journal of Vision*, 8(2):12, 1-17
15. **Allard R.** & Faubert J. (2008) The noisy-bit method for digital displays: converting a 256 luminance resolution into a continuous resolution. *Behavior Research Methods*. 40(3), 735-743
16. **Allard R.** & Faubert J. (2007) Double dissociation between first- and second-order processing. *Vision Research*, 47(9):1129-41
17. Legault I., **Allard R.** & Faubert J. (2007). Normal Aging and the Perception of Curvature Shapes. *Optometry and Vision Science*, 84(12):1087-92

18. **Allard R.** & Faubert J. (2006) Same calculation efficiency but different internal noise for luminance- and contrast-modulated stimuli detection. *Journal of Vision*, 6(4), 322-334

### Patents

Faubert J & **Allard R** (2009). Method and Module for Improving Image Fidelity. PCT patent application WO 2009/149552 A1.

### Peer-review proceedings

Hanssens JM, Piponnier JC, **Allard R** & Faubert J. (2008) How central and peripheral visual fields influence postural control. In *Research and rehabilitation partnerships*. École d'optométrie, Université de Montréal et Institut Nazareth et Louis-Braille, Montréal, 580-583.

**Allard R.** & Faubert J. (2004) Neural networks: Different problems require different learning rate adaptive methods. In: *Image processing: Algorithms and Systems III*, edited by Edward R. Dougherty, Jaakko T. Astola, Karen O. Egiazarian, Proceedings of SPIE-IS&T Electronic Imaging, SPIE Vol. **5298**, 516-527.

Faubert J. & **Allard R.** (2004) Effect of visual distortion on postural balance in a full immersion stereoscopic environment. In: *Stereoscopic Displays and Virtual Reality Systems XI*, edited by Andrew J. Woods, John O. Merrit, Stephen A. Benton, Mark T. Bolas, Proceedings of SPIE-IS&T Electronic Imaging, SPIE Vol. **5291**, 491-500.

### Invited articles in clinical journals

Faubert J., Etiévant Y., **Allard R.** & Bourdoncle B. (2007) Eye/head coordination in a full immersion virtual environment. Study on the influence of a dynamic environment. *Points de Vue*, 57, 23-27.

Faubert J., **Allard R.** & Hanssens J.-M. (2005) Visual distortion, postural balance and perception-action in a full-immersion virtual reality environment: The NSERC-Essilor industrial Chair projects. *Points de Vue*, 53, 13-19.

### Invited talks

**Allard R.** (2013) Adding external noise can trigger a change in processing strategy. Symposium at *European Conference on Visual Perception*, Bremen, Germany

**Allard R.** (2013) The impact of healthy aging on contrast sensitivity and motion perception. *Séminaires Scientifiques de l'Institut de la vision*. Paris, France

**Allard R.** (2011) Crowding and noise: psychophysical tools to investigate contrast sensitivity. *Les Conférences Optique Nikon Canada*. Montréal, Canada

### Refereed conference abstracts

#### Oral presentations at International Conferences

**Allard R.** & Faubert J. (2014) No color-defined motion system. *Vision Science Society* (abstract published in *Journal of Vision*, 14(10): 19)

**Allard R.** & Faubert J. (2013) No dedicated second-order motion system in the periphery. *Vision Science Society* (abstract published in *Journal of Vision*, 13(9): 766)

**Allard R.** & Faubert J. (2012) No second-order motion system sensitive to high temporal frequencies. *Vision Science Society* (abstract published in *Journal of Vision*, 12(9): 773)

Hanssens J.-M., Giraudet G., **Allard R.** & Faubert J. (2011) Modulating Somatosensory Input Makes People More Visually Dependant For Postural Control. *The Association for Research in Vision and Ophthalmology* (abstract published in *Investigative Ophthalmology & Visual Science*. 52:3014)

Faubert J., Giroud M., Tinjust D. & **Allard R.** (2009) Elders can be trained to process fast moving objects in complex 3D scenes as well as untrained young adults. *19th IAGG World Congress of Gerontology and Geriatrics*

Hanssens J.-M., Piponnier J.-C., **Allard R.** & Faubert J. (2008) Do central and peripheral visual fields play a role in postural control? *American Academy of Optometry* (abstract published in *Optometry and Vision Science*, 85:E-abstract 080090)

**Allard R.** & Faubert J. (2007) First- and second-order motion processing are separate at low temporal frequencies but common at high temporal frequencies. *Vision Science Society* (abstract published in *Journal of Vision*, 7(9):1006)

**Allard R.**, Carcenac G. & Faubert J. (2006) Aging and the sensitivity loss to complex stimuli. *American Academy of Optometry* (abstract published in *Optometry and Vision Science*, 83:E-abstract 060059)

**Allard R.** & Faubert J. (2006) Contrast-modulated stimuli detection is unaffected by luminance-modulated noise. *Vision Science Society* (abstract published in *Journal of Vision*, 6(6), 378a)

Renaud J., **Allard R.**, Yelle B., Yelle V. & Faubert J. (2005) Different presbyopic contact lenses for different needs. *American Academy of Optometry* (abstract published in *Optometry and Vision Science*, 82:E-abstract 050054)

Poster presentations at International Conferences

**Allard R.** & Faubert J. (2013) Second-order motion processed by the first-order motion system at high carrier contrasts. *European Conference on Visual Perception* (abstract published in *Perception* 42 ECVF Abstract Supplement, page 208)

Faubert J. & **Allard R.** (2013) Stereoscopy benefits processing of dynamic visual scenes by disambiguating object occlusions. *Vision Science Society* (abstract published in *Journal of Vision*, 13(9): 1292)

Renaud J., **Allard R.**, Molinatti S. & Faubert J. (2013) External noise paradigms, contrast sensitivity and aging. *Vision Science Society* (abstract published in *Journal of Vision*, 13(9): 274)

Hanssens J.M., Giraudet G., **Allard R.** & Faubert J. (2012) Visually Induced Motion Sickness Depends on Velocity, Not Temporal Frequency. *American Academy of Optometry* (abstract published in *Optometry and Vision Science*, 89:E-abstract 125203)

**Allard R.** & Faubert J. (2011) Color contribution to motion due to early expansive nonlinearities within the luminance pathway. *Vision Science Society* (abstract published in *Journal of Vision*, 11(11): 745)

Legault I., **Allard R.** & Faubert J. (2011) Trained Older Observers Are Equivalent to Untrained Young Adults for 3D Multiple-Object-Tracking Speed Thresholds. *Vision Science Society* (abstract published in *Journal of Vision*, 11(11):288)

**Allard R.** & Cavanagh P. (2010) Different processing strategies underlie mean orientation discrimination in low and high orientation variance. *European Conference on Visual Perception* (abstract published in *Perception* 39 ECVF Abstract Supplement, page 186)

**Allard R.** & Cavanagh P. (2010) Orientation uncertainty reveals different detection strategies in noise. *Vision Science Society* (abstract published in *Journal of Vision*, 10(7):1371)

Nguyen-Tri D., **Allard R.** & Faubert J. (2010) No impact of luminance noise on chromatic motion perception. *Vision Science Society* (abstract published in *Journal of Vision*, 10(7):820)

**Allard R.**, Renaud J. & Faubert J. (2010) No cross-frequency facilitation for older adult observers. *American Academy of Optometry* (abstract published in *Optometry and Vision Science*, 87:E-abstract 105302)

**Allard R.** & Cavanagh. P. (2009) Endogenous attention and contrast detection in external noise. *Rovereto Attention Workshop*

**Allard R.** & Cavanagh. P. (2009) External noise reveals crowding in detection. *European Conference on Visual Perception* (abstract published in *Perception* 38 Abstract Supplement, page 93)

**Allard R.** & Cavanagh P. (2009) Detection mechanisms selective to combinations of luminance- and contrast-modulations. *Vision Science Society* (abstract published in *Journal of Vision*, 9(8):973, 973a)

Hanssens J.-M., Moulin M., **Allard R.** & Faubert J. (2009) The impact of aging on postural reactivity generated by simulated ophthalmic lenses distortions. *Vision Science Society* (abstract published in *Journal of Vision*, 9(8):1130, 1130a)

Hanssens J.-M., Moulin M., **Allard R.** & Faubert J. (2009) Does Simulated Dynamic Visual Distortions from Positive and Negative Ophthalmic Lenses Generate Postural Reactivity. *The Association for Research in Vision and Ophthalmology* (abstract published in *Investigative Ophthalmology & Visual Science*. 50:3983)

**Allard R.** & Faubert J. (2008) Simulating age-related visual sensitivity loss to assess cognitive functions. *The 9th International Conference on Low Vision*

Lagacé-Nadon S, **Allard R.**, Faubert J. (2008) The effects of aging on motion direction identification. *The 9th International Conference on Low Vision*

Hanssens J.M., Pionnier J.C., **Allard R.**, Faubert J. (2008). How central and peripheral visual fields influence postural control. *The 9th International Conference on Low Vision*

**Allard R.** & Faubert J. (2008). Common first- and second-order motion processing at high temporal frequencies. *Vision Science Society* (abstract published in *Journal of Vision*, 8(6):18, 18a)

Lagacé-Nadon, S., **Allard, R.** & Faubert, J. (2008). Exploring the spatiotemporal properties of fractal rotation. *Vision Science Society* (abstract published in *Journal of Vision*, 8(6):596, 596a)

Tinjust D., **Allard R.** & Faubert J. (2008). Impact of stereoscopic vision and 3D representation of visual space on multiple object tracking performance. *Vision Science Society* (abstract published in *Journal of Vision*, 8(6):509, 509a)

**Allard R.** & Faubert J. (2007) Bypassing ocular aging deficits to assess perceptual functions. *American Academy of Optometry* (abstract published in *Optometry and Vision Science*, 84:E-abstract 075044)

Legault I., **Allard R.** & Faubert J. (2007). Adaptation to circular patterns influences the perception of distorted squares. *Vision Science Society* (abstract published in *Journal of Vision*, 7(9):273, 273a)

Hanssens J.-M., **Allard R.** & Faubert J. (2007). Progressive lenses distortions effect on postural stability in virtual reality environment. *Vision Science Society* (abstract published in *Journal of Vision*, 7(9):1026, 1026a)

Legault I., **Allard R.** & Faubert J. (2006). Curvature perception in aging. *Vision Science Society* (abstract published in *Journal of Vision*, 6(6), 197a)

**Allard R.**, Créach O. & Faubert J. (2005). Different internal noise but same calculation efficiency for processing luminance-modulated (LM) and contrast-modulated (CM) stimuli. *Vision Science Society* (abstract published in *Journal of Vision*, 5(8), 483a)

Legault I., **Allard R.** & Faubert J. (2005). Detecting curvature in first and second-order periodic line stimuli. *Vision Science Society* (abstract published in *Journal of Vision*, 5(8), 464a)

Faubert J., **Allard R.** & Hanssens J.-M. (2005). Effect of visual sway on postural balance in a full immersive environment. *Vision Science Society* (abstract published in *Journal of Vision*, 5(8), 320a)

**Allard R.** & Faubert J. (2004). Simulating the effect of age-related neurobiological alterations (NBAs) on a first- and second-order orientation-identification task. *Vision Science Society* (abstract published in *Journal of Vision*, 4(8), 751a)

**Allard R.** & Faubert J. (2004) Simulating the effect of age-related neurobiological alterations on a visuo-perceptual task. *Society for Neuroscience*

#### Oral presentations at National Conferences

**Allard R.**, Lagacé-Nadon S. & Faubert J. (2013) Le vieillissement normal et la perception du mouvement. *Journée scientifique de l'École d'optométrie Groupe de recherche en sciences de la vision*, Montréal, QC

**Allard R.** & Faubert J. (2012) La perception du mouvement. *Journée scientifique de l'École d'optométrie Groupe de recherche en sciences de la vision*, Montréal, QC

**Allard R.**, Renaud J. & Faubert J. (2011) Le vieillissement normal et la perception de stimuli naturels. *Journée scientifique de l'École d'optométrie Groupe de recherche en sciences de la vision*, Montréal, QC

Hanssens J.M., Piponnier J.C., **Allard R.** & Faubert J. (2008) Les champs visuels centraux et périphériques influencent-ils le contrôle postural ? *Journée annuelle du Réseau Vision*, Montréal, QC

**Allard R.** & Faubert J. (2008) Simulating age-related visual sensitivity loss to assess cognitive functions. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Hanssens J.M., Piponnier J.C., **Allard R.** & Faubert J. (2008) Rôle des champs visuels centraux et périphériques dans le contrôle postural. *Journée Scientifique de l'École d'Optométrie*, Montréal, QC



Lagacé-Nadon, S., **Allard, R.** & Faubert, J. (2008) Fractal rotation and aging. Research Symposium: Strategic Training Grant: Communication and Social Interaction in Healthy Aging (CIHR). Banff, AB

**Allard R.** & Faubert J. (2007) Aging and the impact of visual noise on contrast sensitivity. *Journée annuelle du Réseau Vision*, Québec, QC

**Allard R.** & Faubert J. (2007) Traitement de stimuli complexes en mouvement. *Journée Scientifique du département de psychologie*, Montréal, QC

**Allard R.** & Faubert J. (2007) Mouvement de stimuli simples et complexes. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Legault, I. **Allard, R.** & Faubert, J. (2007). L'adaptation à des patrons radiaux influence la perception de la courbure. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Hanssens J.M., **Allard R.** & Faubert J. (2007). Distorsions visuelles et interaction des systèmes vestibulaire, proprioceptif et visuel. *Journée scientifique de l'École d'optométrie*, Montréal, QC

**Allard R.** & Faubert J. (2006) Traitement de stimuli simple et complexe. *Journée Scientifique du département de psychologie*, Montréal, QC

**Allard R.** & Faubert J. (2006) Double dissociation entre le traitement de stimuli modulés par la luminance et le contraste. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Hanssens J.M., **Allard R.** & Faubert J. (2006) Influence des distorsions visuelles sur la stabilité posturale dans un environnement dynamique virtuel. *Journée scientifique de l'École d'optométrie*, Montréal, QC

**Allard R.** & Faubert J. (2006) Traitement de stimuli modulés par la luminance et le contraste. *Journée annuelle du Réseau Vision*, Montréal, QC

Hanssens J.M., **Allard R.** & Faubert J. (2006) Mécanismes d'adaptation posturale aux distorsions visuelles dans un environnement de réalité virtuelle. *Journée annuelle du Réseau Vision*, Montréal, QC

Legault I., **Allard R.** & Faubert J. (2006) A psychophysical study on curvature perception in aging. *Research Symposium: Strategic Training Grant: Communication and Social Interaction in Healthy Aging (CIHR)*. Banff, AB

**Allard R.**, Créach O. & Faubert J. (2005) Traitement de stimuli modulés par la luminance et le contraste : différents bruits internes, mais même efficacité de calcul. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Legault I., **Allard R.** & Faubert J. (2005) Vieillesse et perception de courbes. *Journée scientifique de l'École d'optométrie*, Montréal, QC

**Allard R.**, Renaud J. & Faubert J. (2004) Stimuli modulés par la luminance et stimuli modulés par le contraste : dépendance ou indépendance. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Poster presentations at National Conferences

Hanssens JM, Dubor G, **Allard R.** Faubert J. (2009) Mes lunettes me font-elles tomber ? 6e *Journée scientifique de l'École d'optométrie*, Montréal, QC

**Allard R.** & Faubert J. (2008) Simulating age-related visual sensitivity loss to assess cognitive functions. *Research Symposium: Strategic Training Grant: Communication and Social Interaction in Healthy Aging (CIHR)*. Banff, AB

Hanssens J.M., **Allard R.** & Faubert J. (2006) The effect of visual distortions on postural stability assessed in a fully immersive virtual reality environment. *Cognitio 2006*, Montréal, QC

Legault I., **Allard R.** & Faubert J. (2006) Curvature perception in young and older adults. *Journée annuelle du Réseau Vision*, Montréal, QC

Couture M.J., Goyard-Ruel J., Hanssens J.M., **Allard R.**, Lachance A & Faubert J (2006) L'influence de la courbure de base d'une lentille ophtalmique sur la réponse posturale à un stimulus oscillatoire stéréoscopique. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Tran V.L., Duhaime Y., Brazeau D., Hanssens J.M., **Allard R.** & Faubert J (2006) Comparaison des différents ajustements pour presbytes en lentilles cornéennes sur l'équilibre postural dans un environnement dynamique virtuel. *Journée scientifique de l'École d'optométrie*, Montréal, QC

Legault I., **Allard R.** & Faubert J. (2005) First and second-order curvature. *Canadian Society for Brain, Behaviour and Cognitive Science 15th Annual Meeting*. Montréal, QC

Yelle B., Yelle V., Renaud J., **Allard R.** & Faubert J. (2005) Étude de la sommation binoculaire chez des presbytes corrigés en lentilles cornéennes molles multifocales ou en monovision. *Journée scientifique de l'École d'optométrie*, Montréal, QC