

## Curriculum Vitae

**Name:** Michael John Dixon

**Department:** Psychology

**Degrees:**

- Ph. D. (Experimental Psychology) Concordia University, 1990
- M. A. (Experimental Psychology) Concordia University, 1987
- B. Sc. (Honours Psychology) Trent University, 1983
- B. A. (English and Psychology) Trent University, 1981

**Dissertation Title:** Hypnotic Susceptibility Differences in the Automaticity of Verbal Information Processing.

**Post Ph.D. Employment (other than at the University of Waterloo):**

- Sep, 1995 - July 1997 Assistant Professor, Department of Psychiatry, McGill University.
- Sep, 1993 - Sep, 1995 Postdoctoral Fellow, Department of Neurology and Neurosurgery, McGill University/Montreal Neurological Institute (Funded by Alzheimer Society of Canada).
- Sep, 1992 - Sep, 1993 Postdoctoral Fellow, Department of Psychiatry, McGill University/Douglas Hospital Research Centre.
- Sep, 1991- Sep, 1992 Research Associate, Concordia University (Laboratory of Campbell Perry and Jean-Roch Laurence).
- Aug, 1991 - Sep, 1991 Statistical Consultant Montreal Neurological Institute.
- Oct, 1990 - July, 1991 Independent Scholar.

**Employment at University of Waterloo:**

- July, 2015-June, 2016 Acting Chair of Department of Psychology
- July, 2006-present Professor
- July, 2005-2007 Chair of Department of Psychology
- July, 2004-July 2005 Chair of Behavioural Neuroscience Division
- July, 2001- 2006 Associate Professor, Department of Psychology
- July, 2001- July 2003 Deputy Chair, Department of Psychology
- July, 1997- 2001 Assistant Professor, Department of Psychology

### Awards and Scholarships

- Outstanding Performance Award University of Waterloo (May 2019)
- Outstanding Performance Award University of Waterloo (May 2012)
- Best Oral Presentation (peer reviewed) at the Annual Conference of the Alberta Gaming Research Institute (April 2011)
- Outstanding Performance Award University of Waterloo (May 2008)
- Outstanding Performance Award University of Waterloo (May 2004)
- Premier's Research Excellence Award (2001-2006)
- Chercheur Boursier Fonds de la Recherche en Santé du Québec (1997-2001)  
Young Investigator Salary Support Award (declined)
- Nelson Butters Award (1995)  
(best postdoctoral submission at the International Neuropsychological Society).
- Alzheimer Society of Canada Postdoctoral Fellowship (1993-1995)
- Finalist for the Academy of Great Montrealer's Prix D'excellence (1990/91)

(Runner up for the best doctoral thesis among Montréal's four universities)

- Natural Sciences and Engineering Research Council, Ph. D. (1988/89)
- Fonds pour la Formation de Chercheurs et l'Aide a la Recherche (1988/89, declined)
- Natural Sciences and Engineering Research Council, M.A. (1985/86)
- Ontario Graduate Scholarship (1985, declined)
- Trent University Honours Psychology Award (1983)
- Natural Sciences and Engineering Research Council, Undergraduate (1982)
- Natural Sciences and Engineering Research Council, Undergraduate (1981)

### Grants

Dixon, M.J. (PI). Exploring the motivational and emotional aspects of gambling. April, 2018- Mar, 23 2023.  
\$64,250 per annum.

Graydon, C.(PI), Balodis, I., **Dixon, M.J.** MacKillop, J. The negatively reinforcing effects of modern Multiline video slot machines. Gambling Research Exchange Ontario, December 1, 2017 – December 1, 2018  
\$24,948

**Dixon, M.J.** (PI) Smith, S., Smilek, D., & Seli, P. Problem Gambling and the slot machine “zone”: a dissociative state that contributes to the appeal of slots play and may increase the potential for harm. Manitoba Gambling Research Program, July 1 2016 – June 30<sup>th</sup>, 2019. \$399,898.18

Harrigan, K. (PI) Brown, D., **Dixon, M.J.** The University of Waterloo Gambling Research Lab KTE Knowledge Hub. Sep 1 2015 – March 2017. \$157,758.

Dixon, M.J. (PI). NSERC Reward processing, motivation and emotional responding during slot machine play. April 2013 – March 2018. \$33,000 per annum.

**Dixon, M.J.**, (PI), Fugelsang, J.A. (PI), Harrigan, K. Collins, K. Exploring the relations between erroneous cognitions and slot machines. (July 2011-June 2013). \$237,591.

Harrigan, K. (PI), **Dixon, M.J.**, Fugelsang, J.A. Collins, K. An investigation of reinforcement schedules and near misses in modern multiline video slot machines. (July 2011-June 2012). \$148,000.

Collins, K., (PI) **Dixon, M.J.**, Harrigan, K.A. Fugelsang, J.A. The impact of sound on psychophysical response to slot machine play. (Apr 2011-Feb 2012) \$149,215

**Dixon, M.J. (PI)**, Harrigan, K. Ontario Problem Gambling Research Centre. Hiding Losses in Video Slot Machines: Disguising Losses as Wins, and Using Visual Distraction to Mask Losses. (March, 2010 – Dec 31, 2010) **\$35,240.00 [received the highest ranking among all applications to the OPGRC]**

**Dixon, M.J. (PI)**, Harrigan, K., Collins, K., and Fugelsang, J.A. Ontario Problem Gambling Research Centre. Psychophysical, and psychological responses to the sights, sounds, and payback percentages of slot machines. (January 1, 2010 – Dec 31, 2010) **\$196,502.00 [received the highest ranking among all applications to the OPGRC]**

MacLaren, V.V. (PI), Harrigan, K., Fugelsang, J.A., and **Dixon, M.J** *Meta-analyses of Disinhibition-related and Impulsivity-related Personality Traits as Risk factors for Problem Gambling.* (January 1, 2010 – Dec 31, 2010) **\$9,996**

- Jarick, M. (PI), **Dixon, M.J.**, Harrigan, K. *How the Brain Interprets a "Near Miss": A comparison between problem and non-problem gamblers* (July 1, 2010 – April 29, 2011) **\$9,933**
- Jarick (PI), **Dixon, M.J.**, Harrigan, K. *An electrophysiological investigation of losses disguised as wins.* (July 1, 2010 – April 29, 2011) **\$9,960**
- Harrigan, K. (co-PI), **Dixon, M.J.** (co-PI) Ontario Problem Gambling Research Centre. Level III grant: Effectiveness of a Brief Educational Intervention and ATM-relocation in Reducing Erroneous Cognitions and Over-Expenditure during Slot Machine Play in a Sample of Problem, At Risk, and Non-Problem Gamblers (July 1, 2009 – June 29, 2010) **\$99,933** (P.I. on **contracted research**)
- Harrigan, K (PI), **Dixon, M.J.** (co-PI) Ontario Problem Gambling Research Centre. Increasing correct knowledge and beliefs about slot machine structural characteristics (January 1, 2010 – Dec 31-2010) **\$211,768** (co P.I. on **contracted research**)
- Dixon, M.J.** (PI) & Harrigan, K. Ontario Problem Gambling Research Centre. Psychophysical Investigations of Wins, Losses and Near Misses in Problem Gambling (January 1, 2009 – Dec 31, 2010) **\$135,506.00** [received the highest ranking among 20 applications to the OPGRC]
- Collins, K. (PI), Harrigan, K., **Dixon, M.J.** An Investigation into Audio's Impact on Gambling Behaviour: Annotated Literature Review and Research Plan Development (January 1, 2009- Dec 31, 2009) \$10,000
- Harrigan, K (PI), Stillar, G., Bringelson, L., Goodwin, D., Tomasson-Goodwin, J., **Dixon, M.J.** , Ontario Problem Gambling Research Center. *Emerging Team Grant: Multi-disciplinary Perspectives on Forms of Bias in Gambling Environments as Indirect Risk Factors for Problem Gambling* (January 1, 2008 – Dec 31, 2013) **\$100,000.00 p.a.**
- Roy, E. (PI), Black S., & **Dixon, M.J.** , Danckert, J., Park, N., Hebert, D., Adams, S., Staines, R., Buxbaum, L. Heart and Stroke Foundation of Canada. *Limb Apraxia: Neuropsychological Profiles and Neuroanatomical Correlates - Renewal.* (April 1, 2007 - April 1, 2012) **\$70,000.00 p.a.**
- Dixon, M.J.** Natural Sciences and Engineering Research Council. *The Influence of Meaning on Attention and Memory.* (April 1, 2006 - March 31, 2011). **\$30,000.00 p.a. RGPIN203130-06**
- Dixon, M.J.** Premier's Research Excellence Award. *A novel approach to the early detection of Alzheimer's Disease.* (April 1, 2001 - March 31, 2006). **\$150,000.00 PREA- 00/5-0814**
- Dixon, M.J.** Natural Sciences and Engineering Research Council. *The Influence of Meaning on Perception and Memory.* (April 1, 2002 - March 31, 2006). **\$30,000.00 p.a. RGPIN203130-02**
- Roy, E.(PI), Black S., & **Dixon, M.J.** & Hebert, D., & Square, P. Heart and Stroke Foundation of Canada. *Neuropsychological Profiles of Apraxia- Renewal.* (April 1, 2001 - April 1, 2004) **\$47,000.00 p.a.**
- Roy, E., Black S., & **Dixon, M.J.** Heart and Stroke Foundation of Canada. *Neuropsychological Profiles of Apraxia.* (April 1, 1999 - April 1, 2001) **\$47,000.00 p.a.**
- Dixon, M.J.** Natural Sciences and Engineering Research Council. *Semantic and Visual Determinants of Confusions in Memory.* (April 1, 1998 - March 31, 2002). **\$21,000.00 p.a. RGPIN203130-98**
- Dixon, M.J.** R.A. Support Program for New Faculty. *Ramifications of Object Form on Object Confusions in Memory.* (May 1, 1998 - Jan 1, 1999). **\$6750.00**

**Dixon, M.J.** UW Social Sciences and Humanities Research Council, *Colour Agnosia, Pure Alexia and the Continuum of Automaticity*, (January 1, 1998 - Aug 1, 1998). **\$4,962.96**

**Salary Support: Dixon, M.J.** Fonds de la Recherche en Santé du Québec Chercheur-boursier (July 1, 1997 - June, 30, 2001) Salary support for independent investigators, **\$46,348** per annum. (declined: untenable outside of Québec)

**Dixon, M.J. (principal investigator).** *Object recognition deficits in early Alzheimer's disease.* (April 1, 1996 – Mar 31, 1997). Awarded by the Alzheimer Society of Canada. **[received the 2nd highest ranking among the 40 applications submitted to the psychosocial division of the Alzheimer Society of Canada] \$21,000 per annum.**

**Dixon, M.J. (principal investigator),** King, S., Stip, E., & Cormier, H. *A Psychophysical Construct Validation of Expressed Emotion.* (April 1, 1994 – Mar 1, 1996) Awarded by the FRSQ-CQRS joint initiative for multidisciplinary studies. **\$62,000 per annum.**

### **Lifetime Summary of Grants 3,747,012**

#### **OPGRC-Funded Graduate Studentships (Supervisor)**

2011 Jensen, Candice. PhD Studentship.

- \$42,500 (She was awarded \$2,500 for her first year due to other scholarships and restrictions on the total amount of scholarships, and \$20,000 per year for two additional years).
- Candice was awarded a Master's studentship in 2010 but declined the award due to her other scholarships and restrictions on the total amount of all scholarships.

2011 Lee, Jackey. 2-year Masters Studentship.

- \$35,000 (He was awarded \$2,500 for his first year due to other scholarships and restrictions on the total amount of scholarships, and \$17,500 per year for one additional year).

2010 Aquino, Jennifer. PhD Studentship.

- \$21,500 (She was awarded \$20,000 per year for two years but could only accept \$21,500 due to her other scholarships and restrictions on the total amount of all scholarships)

2009 Jarick, Michelle. PhD Studentship.

- \$15,500 (She was awarded \$20,000 per year for two years but could only accept \$15,500 due to her other scholarships and restrictions on the total amount of all scholarships.)

## **PUBLICATIONS**

### **Lifetime Summary**

<b>Book Chapters</b>	<b>Refereed Articles</b>	<b>Book Reviews</b>	<b>Invited Preview</b>
<b>10</b>	<b>110</b>	<b>2</b>	<b>1</b>

### Chapters in Books (Students Underlined)

1. Dixon, M.J, Templeton, J., Collins, K., Wojtowicz, L., Harrigan, K., Fugelsang, J., Siu, V. (2015). Exploring attention in the “reel” world” visual and auditory influences on reactions to wins and near-misses in multi-line slot machine play. In J. Fawcett, E. F. Risko, & A. Kingstone (Eds.), *The handbook of attention*, (pp. 589-621) (MIT Press, Cambridge, MA).
2. Collins, K., Harrigan, K.A., **Dixon, M.**, & Fugelsang, J.A. (2010). Sound in Electronic Gambling Machines. In M. Grimshaw, (Ed). Game Sound Technology and Player Interaction: Concepts and Developments (pp. 1-22). Information Science Reference, Hersey PA.
3. **Dixon, M.**, & Smilek, D. (2009). Synesthesia. In T. Bayne, Axel Cleermans, Patrick Wilken (Eds). The Oxford Companion to Consciousness, (pp. 620-623). Oxford University Press, Oxford, UK.
4. Smilek, D., **Dixon, M.J.**, & Merikle, P.M. (2005). Binding of Graphemes and Synaesthetic Colors in Color-Graphemic Synaesthesia. In Lynn Robertson and Noam Sagiv (eds.), Synesthesia: Perspectives from Cognitive Neuroscience (pp. 74-89). Oxford University Press, Oxford, UK.
5. **Dixon, M.J.**, Smilek, D, Wagar, B.M., & Merikle, P.M. (2004). Grapheme-Colour Synaesthesia: When 7 is Yellow and D is Blue. In Charles Spence, Gemma Calvert and Barry Stein (eds.), The Handbook of Multisensory Processes (pp. 837-849). MIT Press. Cambridge, Mass.
6. Arguin, M., Dudek, G., **Dixon, M.**, & Bub, D. (1997). Coding simple shapes and the human integration of shape descriptors. In M Jenkin and L Harris (eds.) Computational And Psychophysical Mechanisms Of Visual Coding (pp. 44-60). Cambridge University Press. Cambridge, UK.
7. King, S., & **Dixon, M.J.** (1996). The influence of expressed emotion, family dynamics, and symptom type on the social adjustment of schizophrenic young adults selected for reprint in R.O. Pihl, (ed.) Compendium of Readings in Abnormal Psychology (pp. 333-339). PS Press, Montreal, PQ.
8. **Dixon, M.**, & Laurence, J.-R. (1992). Two hundred years of hypnosis research: questions resolved and questions unanswered! In E. Fromm and M. Nash (eds.) Contemporary Hypnosis Research. (pp. 34-66). Guilford Press, New York.
9. **Dixon, M.**, & Brussell, E. M., (1986). A quantifiable metric for assessing visual loss with multi-flash campimetry. In A. Fiorentini, D.L. Guyton, and I.M. Siegel (Eds.), Advances in Diagnostic Visual Optics. (pp. 126-131). Springer-Verlag, Berlin.
10. Faubert, J., Brussell, E. M., Overbury, O., Balazsi, G., & **Dixon, M.** (1986). Spatial VS temporal information in suspected and confirmed chronic open angle glaucoma. In G. C. Woo (Ed.), Low Vision: Principles and Applications. Springer Verlag, Berlin.

### Articles in Refereed Journals (Students Underlined)

#### Published Articles in Refereed Journals

1. Stange, M., Walker, A.C., Fugelsang, J.A., Koehler, D.J. & **Dixon, M.J.** (2020 in press). Unclaimed prize information increases the appeal of scratch card games. *International Gambling Studies*, <https://doi.org/10.1080/14459795.2020.1826558>

2. Graydon, C., Dixon, M.J., Gutierrez, J., Stange, M., Larche, C., Kruger, T.B., (2020 in press) Do losses disguised as wins create a “sweet spot” for win overestimates in multiline slots play? *Addictive Behaviours* <https://doi.org/10.1016/j.addbeh.2020.106598>
3. Larch, C.J, Chini, K., Lee, C. Dixon, M.J., & Fernandes M. (2019). Rare loot box rewards trigger larger arousal and reward responses, and greater urge to open more loot boxes. *Journal of Gambling Studies*, online first <https://doi.org/10.1007/s10899-019-09913-5>.
4. Dixon, M.J., Gutierrez, J., Larche, C.J., Stange, M., Graydon, C.M., Kruger, T.B., Smith S.D. (in press). Reward reactivity and dark flow in slot-machine gambling: “Light” and “dark” routes to enjoyment. *Journal of Behavioural Addictions*. DOI: 101556/2006.8.2019.38
5. Stange, M., Walker, A.C., Koehler, D.J., Fugelsang, J.A., & Dixon, M.J. (in press, Nov 23). Exploring relationships between problem gambling, scratch card gambling, and individual differences in thinking style. *Journal of Behavioral Addictions*.
6. Dixon, M.J., Gutierrez, J., Stange, M., Larche, C.J., Graydon, C.M., Vintan, S., Kruger, T.B. (2019). Mindfulness problems and depression symptoms in everyday life predict dark flow during slots play: implications for gambling as a form of escape. *Psychology of Addictive Behaviors*, 33, 81-90.
7. Graydon, C., Dixon, M.J., Stange, M., Fugelsang, J. (2018). Gambling despite financial loss -The role of losses disguised as wins in multiline slots. *Addiction*, e-pub ahead of print. <http://dx.doi.org/10.1111/add.14406>
8. Graydon, C., Stange, M., & Dixon, M.J. (2018). Losses disguised as wins affect game selection on multiline slots. *Journal of Gambling Studies*, 34 (4), 1377-1390.
9. Walker, A.C., Stange, M., Fugelsang, J.A., Koehler, D., Dixon, M.J. (2018). Unclaimed Prize Information Biases Perceptions of Winning in Scratch Card Gambling. *Journal of Gambling Studies*, 34:1355-1375 <https://doi.org/10.1007/s10899-018-9770-2>
10. Dixon, M.J., Larche, C., Stange, M., Graydon, C., Fugelsang, J. (2018). Near-misses and stop buttons in slot machine play: an investigation of how they affect players, and may foster erroneous cognitions. *Journal of Gambling Studies*, 34(1), 161-180.
11. Dixon, M.J., Stange, M., Larche, C., Graydon, C., Fugelsang, J., & Harrigan, K. (2018). Dark flow, depression, and multiline slot machine play. *Journal of Gambling Studies*, 34(1), 73-84.
12. Stange, M., Graydon, C., Dixon, M.J. (2017). Increased urge to gamble following near-miss outcomes may drive purchasing behaviour in scratch card gambling. *Journal of Gambling Studies*, 33(3), 867-879.
13. Stange, M., Brown, D.G., Harrigan, K., Dixon, M.J. (2017). Built-in bad luck: Evidence of nearmisses by design in scratch cards. *Journal of Gambling Issues*, 36, 51-64.
14. Stange, M., Grau, M., Osazuwa, S., Graydon, C., Dixon, M.J. (2017). Reinforcing small wins and frustrating near-misses: further investigation into scratch card gambling. *Journal of Gambling Studies*, 33(1), 47-63.

15. Larche, C.J., Musielak, N., and Dixon, M.J. (2017). The Candy Crush sweet tooth: How ‘near-misses in Candy Crush increase frustration, and the urge to continue gameplay. *Journal of Gambling Studies*, 33 (2),599-615
16. Graydon C, Dixon M.J., Fugelsang J.A. (2017). Losses disguised as wins in multiline slots: Using an educational animation to reduce erroneous win overestimates. *International Gambling Studies*, 17, 442-458
17. Levy A, Dixon MJ, & Soliman, S. (2017). Isolating automatic photosism generation from strategic photism use in grapheme-colour synaesthesia. *Consciousness and Cognition*, 56, 165-177.
18. Stange, M., Graydon, D., & Dixon, M.J. (2016). “I was that close”: Investigating player’s reactions to losses, wins and near-misses on scratch cards. *Journal of Gambling Studies*, 32, 187-203. doi: 10.1007/s10899-015-9538-x
19. Harrigan, K., **Dixon, M.** & Brown, D. (2015). Modern multi-line slot machine games: The effect of lines wagered on winners, losers, bonuses, and losses disguised as wins. *Journal of Gambling Studies*, 31, 423-439. doi: 10.1007/s10899-013-9436-z
20. MacLaren, VV, Harrigan, K.A., Dixon, M.J. (2015). An introduction to video instant ticket vending machines. *Journal of Gambling Issues*, 30, 22-34. doi: <http://dx.doi.org/10.4309/jgi.2015.30.3>
21. Templeton J.A., **Dixon M.J.**, Harrigan K.A., Fugelsang J.A. (2015) Upping the reinforcement rate by playing the maximum lines in multi-line slot machine play. *Journal of Gambling Studies*, 31, 949-964. doi: 10.1007/s10899-014-9446-5
22. **Dixon, M.J.**, Collins, K., Harrigan, K.A., Graydon, C., & Fugelsang, J.A. (2015). Using sound to unmask losses disguised as wins in multiline slot machines. *Journal of Gambling Studies*, 31, 183-196. doi: 10.1007/s10899-013-9411-8.
23. **Dixon, M.J.**, Graydon, C. Harrigan, K.A., Wojtowicz, L., Siu, V. & Fugelsang, J.A. (2014). The allure of multi-line games in modern slot machines. *Addiction*, 109, 1920-1928. doi: 10.1007/s10899-014-9446-5.
24. Harrigan, K., MacLaren, V., Brown, D., **Dixon, M.J.**, & Livingstone, C. (2014). Games of chance or masters of illusion: Multiline slots design may promote cognitive distortions. *International Gambling Studies*, 14, 301-317. doi: <http://dx.doi.org/10.1080/14459795.2014.918163>
25. Dixon, M.J., Harrigan, K.A., Santesso, D.L., Graydon, C., Fugelsang, J.A., & Collins, K. (2014). The impact of sound in modern multiline video slot machine play. *Journal of Gambling Studies*, 30, 913-929. doi: 10.1007/s10899-013-9391-8.
26. Jarick, M., Stewart, M.T., Smilek, D., Dixon, M.J. (2013). Do you see what I hear?: Vantage point preference and visual dominance in a time-space synaesthete. *Frontiers in Psychology*, 4, 695-702. doi: 10.3389/fpsyg.2013.00695.
27. **Dixon, M.J.**, MacLaren, V.V., Jarick, M., Fugelsang, J.A., & Harrigan, K.A. (2013). The frustrating effects of just missing the jackpot: Slot machine near-misses trigger large skin conductance responses, but no post reinforcement pauses. *Journal of Gambling Studies*, 29, 661-674. doi: 10.1007/s10899-012-9333-x.

28. Dixon, M.J., Fugelsang, J.A., MacLaren, V.V. & Harrigan, K.A. (2013) Gamblers can discriminate 'tight' from loose' electronic gambling machines. *International Gambling Studies*, 13, 98-111. doi: <http://dx.doi.org/10.1080/14459795.2012.712151>
29. Jensen, C., **Dixon, M.J.**, Harrigan, K.A., Sheepy, E., Fugelsang, J.A., & Jarick, M. (2013). Misinterpreting "winning" in multiline slot machine games. *International Gambling Studies*, 13, 112-126. doi: <http://dx.doi.org/10.1080/14459795.2012.717635>
30. MacLaren V.V., Fugelsang, J.A., Harrigan, K.A., **Dixon, M.J.** (2012). Effects of impulsivity, reinforcement sensitivity, and cognitive style on pathological gambling symptoms among frequent slot machine players. *Personality and Individual Differences*, 52, 390-394. doi: <http://dx.doi.org/10.1016/j.paid.2011.10.044>
31. MacLaren, V.V, Harrigan, K.A., **Dixon, M.** (2012). Gambling motives and symptoms of problem gambling in frequent slots players. *Journal of Gambling Issues*, 27, 1-13 doi: <http://dx.doi.org/10.4309/jgi.2012.27.8>
32. Harrigan, K. A., **Dixon, M.J.**, MacLaren V., Collins, K., & Fugelsang, J. (2011). The maximum rewards at the minimum price: Reinforcement rates and payback percentages in multi-line slot machines. *Journal of Gambling Issues*, 26, 11-29. doi: <http://dx.doi.org/10.4309/jgi.2011.26.3>
33. Fernandes, M.A., Koji, S., **Dixon, M.J.**, Aquino, J.M. (2011). Changing the focus of attention: The interacting effect of valence and arousal. *Visual Cognition*, 19, 1191-211. doi: <http://dx.doi.org/10.1080/13506285.2011.618151>
34. MacLaren V. V., Fugelsang, J. A., Harrigan, K. A. & **Dixon, M. J.** (2011). The personality of pathological gamblers: A meta-analysis. *Clinical Psychology Review*, 31, 1057-1067. doi: 10.1016/j.cpr.2011.02.002.
35. **Dixon, M.J.**, Harrigan, K.A., Jarick, M., MacLaren V.V, Fugelsang, J.A., & Sheepy, E. (2011). Psychophysical arousal signatures of near-misses in slot machine play. *International Gambling Studies*, 11, 393-407. doi: <http://dx.doi.org/10.1080/14459795.2011.603134>
36. Jarick, M., Jensen, C., **Dixon, M.J.**, & Smilek, D. (2011). The automaticity of vantage point shifts within a synaesthetes' mental calendar. *Journal of Neuropsychology*, 5, 333-352. doi: <http://dx.doi.org/10.1111/j.1748-6653.2011.02011.x>
37. Jarick, M., **Dixon, M.J.**, & Smilek, D. (2011). 9 is always on top: Assessing the automaticity of synaesthetic number-forms. *Brain and Cognition*, 77, 96-105. doi: <http://dx.doi.org/10.1016/j.bandc.2011.05.003>
38. MacLaren, V. V., Best, L. A., **Dixon, M. J.**, & Harrigan, K. A. (2011). Problem gambling and the Five Factor Model in university students. *Personality and Individual Differences*, 50, 335-338. doi: <http://dx.doi.org/10.1016/j.paid.2010.10.011>
39. Harrigan, K.A., & **Dixon, M.J.** (2010). Government sanctioned "tight" and "loose" slot machines: How having multiple versions of the same slot machine game may impact problem gambling. *Journal of Gambling Studies*, 26, 159-174. doi: <http://dx.doi.org/10.1007/s10899-009-9154-8>



40. **Dixon, M.J.**, Harrigan, K.A., Sandhu, R., Collins, K., Fugelsang, J.A. (2010). Losses disguised as wins in multiline video slot machines. *Addiction*, *105*, 1819-1824. doi: <http://dx.doi.org/10.1111/j.1360-0443.2010.03050.x>
41. Jarick, M., **Dixon, M.J.**, Maxwell E.C., Nicholls, M.E.R. & Smilek, D. (2009). The ups, and downs (and lefts and rights) of synaesthetic number forms: Validation from spatial cueing and SNARC-type tasks. *Cortex*, *45*, 1190-1199. doi: <http://dx.doi.org/10.1016/j.cortex.2009.04.015>
42. Jarick, M., **Dixon, M.J.**, Stewart, M.T., Maxwell, E.C., & Smilek, D. (2009). A different outlook on time: Visual and auditory month names elicit different mental vantage points for a time-space synaesthete. *Cortex*, *45*, 1217-1228. doi: <http://dx.doi.org/10.1016/j.cortex.2009.05.014>
43. Mann, H.E. Korzenko, J.M.L., Carrier, J.S.A. & **Dixon, M.J.** (2009) Time-Space Synaesthesia – a cognitive advantage? *Consciousness and Cognition*, *18*, 619-627. doi: <http://dx.doi.org/10.1016/j.concog.2009.06.005>
44. Harrigan, K. A., & **Dixon, M.J.** (2009). PAR Sheets, probabilities, and slot machine play: Implications for problem and non-problem gambling. *Journal of Gambling Issues*, *23*, 81-110. doi: <http://dx.doi.org/10.4309/jgi.2009.23.5>
45. Carriere JSA, Eaton D, Reynolds MG, **Dixon, MJ**, and Smilek, D. (2009). Grapheme-color synesthesia influences overt visual attention. *Journal of Cognitive Neuroscience*, *21*, 246-248. doi: <http://dx.doi.org/10.1162/jocn.2009.21048>
46. Striemer, C., Gingerich, T., Striemer, D., **Dixon, M.J.** (2009). Covert face priming reveals a “true face effect” in a case of congenital prosopagnosia. *Neurocase*, *15*, 509-514. doi: <http://dx.doi.org/10.1080/13554790902971166>
47. Desmarais, G., Pensa, C.M. & **Dixon, M.J.**, Roy, E.A. (2007). The importance of object similarity in the production and identification of actions associated with object. *Journal of the International Neuropsychological Society*, *13*, 1021-1034. doi: <http://dx.doi.org/10.1017/S1355617707071287>
48. Desmarais, G. & **Dixon, M.J.** (2007). A role for action knowledge in visual object identification. *Memory & Cognition*, *35*, 1712-1723. doi: <http://dx.doi.org/10.3758/BF03193504>
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#### Articles Submitted

- Kruger, T.B., Dixon, M.J., Graydon, C., Larche, C.J., **Stange, M.**, & Smith, S.D. Smilek, D. (Submitted). Problem Gamblers Deliberately Mind-Wandering to Escape Negative Mood States: Implications for Gambling to Escape. *Journal of Behavioral Addictions*
- Walker, A.C., **Stange, M.**, Dixon, M.J., Fugelsang, J.A., & Koehler, D.J. Using Icon Arrays to Communicate Gambling Information Lowers the Appeal of Scratch Card Games. Under review at *Journal of Experimental Psychology: Applied*.
- Stange, M.**, Pinnau, M., & Dixon, M.J. Scratch card game type impacts psychophysiological reactivity, but not subjective evaluations of experienced outcomes. Submitted to the *Journal of Gambling Issues*.
- Stange, M.**, Walker, A.C., Fugelsang, J.A., Koehler, D.K., & Dixon, M.J. Unclaimed Prize Information Increases the Appeal of Scratch Card Games. Revise and resubmit at *International Gambling Studies*.
- Kruger, T.B., Dixon, M.J., Graydon, C., Larche, C.J., **Stange, M.**, & Smith, S.D. Contrasting Mind-Wandering, (Dark) Flow, and Affect During Multiline and Single-Line Slot Machine Play. Under review at the *Journal of Gambling Studies*.
- Larche, C. J., Dixon, M. J. (under review). The nuanced relationship between the skill-challenge balance, game expertise, flow and the urge to keep playing complex mobile games. *Journal of Behavioural Addictions*.

Larche, C. J., Tran, P., Daliwal, N., Kruger, T. B., Dixon, M. J. (under review). Escaping the woes through flow?: Exploring the relationship between gaming to escape, depression and flow in problematic videogame play. *Journal of Gambling Issues*.

Graydon, C., Dixon, M. J., Guitierrez, J., Stange, M., Larche, C. J. (under review). Losses Disguised as Wins (LDWs) in multiline slots affect players' win estimates: A review. *Journal of Addictive Behaviours*.

#### Articles in Refereed Journals (Refereed Conference Proceedings)

88. Harrigan, K.A., Collins, K., Dixon, M.J., Fugelsang, J. (2010) Addictive gameplay: What casual game designers can learn from slot machine research, Proceedings of the International Academic Conference on the Future of Game Design and Technology, Vancouver, British Columbia.
89. Wagar, B. M., and Dixon, M. J. (2005). Past experience influences object representation in working memory. Proceedings of TENNET 14, *Brain and Cognition*, 57(3), 248-256.
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91. Myles, K.M., Dixon, M.J., Smilek, D., & Merikle, P.M. (2003) Seeing Double: The role of meaning in alphanumeric-colour synaesthesia. Proceedings of the 13th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 13), *Brain and Cognition*, 53, 342-345.
92. Smilek, D., Dixon, M.J., & Merikle, P.M. (2003). Synaesthetic photisms guide attention. Proceedings of the 13th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 13), *Brain and Cognition*, 53, 364-367.
93. Schweizer, T.A., Dixon, M.J., Desmarais, G. & Smith, S.D. (2002). Not all triads are created equal: Further support for the importance of visual and semantic proximity in object identification. Proceedings of the 12th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 12), *Brain and Cognition*, 48, 537-541.
94. Smith, S.D., Tays, W.J., Dixon, M.J., Bulman-Fleming, M.B. (2002). The right hemisphere as an anomaly-detector: Evidence from visual perception. Proceedings of TENNET 12, *Brain and Cognition*, 48, 574-579.
95. Smilek, D., Dixon, M.J., Cudahy, C., Merikle, P.M. (2002). Concept-driven colour experiences in digit colour synaesthesia. Proceedings of the 12th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 12), *Brain and Cognition*, 48, 570-573.
96. Wagar, B.M., Dixon, M.J., Smilek, D. & Cudahy, C. (2002) Coloured photisms prevent object-substitution masking in digit colour synaesthesia. Proceedings of the 12th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 12), *Brain and Cognition*, 48, 606-611.

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98. Westwood, D.A., Schweizer, T.A., Heath, M.D., Roy, E.A., Dixon, M.J., & Black, S.E. (2001). Transitive gesture production in apraxia : Visual and non-visual sensory contributions. Proceedings of the 11th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 11), Brain and Cognition, 46, 300-304.
99. **Dixon, M.J., Koehler, D., Schweizer, T., & Guylee, M.J. (2000).** Superior single dimension relative to 'exclusive or' categorization performance by a patient with category-specific visual agnosia: empirical data and an alcove simulation. Proceedings of the 11th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 11), Brain and Cognition, 43, 152-158.
100. **Dixon, M.J., Piskopos, M., & Schweizer, T. (2000).** Musical instrument naming impairments: the crucial exception to the living/nonliving dichotomy in category-specific agnosia. Proceedings of the 11th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 11), Brain and Cognition, 43, 158-164.
101. Dowhaniuk, M., Dixon, M.J., Roy, E., Square, P., & Black, S. (2000). The use of reaction time measures to evaluate non-word reading in primary progressive aphasia Proceedings of the 11th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 11), Brain & Cognition, 43, 168-172.
102. Guylee, M.J., Elias, L.J., Bulman-Fleming, M.B., & Dixon, M.J., (2000). Tactile gap detection and language lateralization. Proceedings of the 11th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 11), Brain and Cognition, 43, 234-238.
103. Dixon, M.J., & Arguin, M. (1999). Shape set dimensionality vs. structural distance effects in a patient with category-specific visual agnosia. Proceedings of the 10th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 10), Brain & Cognition, 40, 100-104.
104. Dixon, M. J. (1999). Tool and bird-exemplar identification in a patient with category specific visual agnosia. Proceedings of the 10th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 10), Brain & Cognition, 40, 97-100.
105. Dowhaniuk, M., Dixon, M.J., Roy, E., Square, P., & Black, S. (1999). Rhyme judgment failures in a case of primary progressive aphasia: A precursor to phonological alexia. Proceedings of the 10th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 10), Brain & Cognition, 40, 108-112.
106. **Dixon, M.J., Mill, D., Chertkow, H., Bub, D., & Arguin, M. (1997).** Visual and semantic determinants of object recognition deficits in early Alzheimer's disease. Proceedings of the 2nd annual Rotman Research Conference, Brain and Cognition, 35, 361-364.
107. Arguin, M., Bub, D., **Dixon, M.J.**, Caille, S., & Fontaine, S. (1996). Shape integration and semantic proximity effects in visual agnosia for biological objects: a replication. Proceedings of the 10th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 7), Brain and Cognition, 32, 259-261.

Invited Articles in Refereed Journals

108. **Dixon, M.J., Smilek, D., Duffy, P.L. Zanna, M.P. & Merikle, P.M.** (2006). The role of meaning in grapheme colour synaesthesia, Cortex, 42, 243-252.
109. **Dixon, M.J.** (2000). A new paradigm for investigating category-specific agnosia in the new millennium. Brain and Cognition, 42, 142-145.
110. Roy, E., Black, S.E., Heath, M., Westwood, D., Schweizer, T., Dixon, M.J, Kalbfleisch, L, Barbour, K., & Square, P. (2000). Task demands and limb apraxia in stroke. Brain and Cognition, 44, 253-279.

Other PublicationsInvited Book Reviews

Smilek, D., & Dixon, M. J. (2008). Two complementary perspectives on synaesthesia. Trends in Cognitive Sciences, 12, 364 – 366.

Dixon, M.J. (2004). Review of Synesthesia: A Union of the Senses by Richard Cytowic M.D. Quarterly Review of Biology, 78, 507-508.

Invited Article Preview

Dixon, M.J., & Smilek, D. (2005). The importance of individual differences in grapheme colour synaesthesia, Neuron, 45, 821-823.

**Other Scholarly Work**Keynote Addresses

- Dixon, M.J., (2017, April).** Dark flow: the allure of modern multiline slot machines. Keynote address at the Prairie Undergraduate Research Conference, University of Winnipeg, (Winnipeg, Alberta)
- Dixon, M.J., (2017, June).** Of blue 2s and lucky 7s. Explorations of synaesthesia and insights into slot machine addictions. Graduate Research Conference of the Douglas Hospital Research Centre, McGill University, Montreal, Quebec.
- Dixon, M.J., (2007, January).** Of Blue Twos and the Purple Edges of June: the colouring of cognition in synaesthesia. Keynote Address at the Sixth Annual Meeting of the American Synesthesia Association, University of South Florida, St. Petersburg, FL.

Invited Presentations

- Dixon, M.J.** (November 2019). Dark flow depression and gambling to escape. Colloquium presented to the Department of Psychology, Neurosciences, and Health Sciences, University of Lethbridge, Lethbridge, Alberta.
- Dixon, M.J.** (November 2019). The allure of just missing the jackpot. Invited address to the Gambling Research Group Department of Psychology, Neurosciences, and Health Sciences, University of Lethbridge, Lethbridge, Alberta.
- Dixon, M.J.** (October 2019). Deceptive design: How slot machines keep players in the dark. Invited address to Toronto Action Design, Toronto, Ontario.
- Dixon, M.J.** (June 2019). Bells, lights, and losses disguised as wins: Dark flow and its relationship to gambling disorder. Paper to be presented at World Congress on Biological Psychiatry, Vancouver, British Columbia.
- Dixon, M.J.** (April 2018). Dark Flow and reactivity to rewards: Distinct routes to slot machine enjoyment for

problem and recreational slots players. Paper to be presented at Alberta Gaming Research Institute's 22nd Annual Conference, Banff, Alberta.

- Dixon, M.J.**, (2017, September). Dark flow: the allure of modern multiline slot machines. Presentation to the Department of Psychology at University of British Columbia (Vancouver, British Columbia)
- Dixon, M.J.** (April, 2015). Dark flow in the "reel world": Problem gamblers, mindfulness difficulties and becoming absorbed during slot machine play. Engaging the Wandering Mind: Exploring the cognitive, neural and applied consequences of boredom, Waterloo, Canada
- Dixon, M.J.** (April, 2015). Dark flow in the "reel world": Problem gamblers, mindfulness difficulties and becoming absorbed during slot machine play. Engaging the Wandering Mind: Exploring the cognitive, neural and applied consequences of boredom, Waterloo, Canada
- Dixon, M.J.** (April, 2014). Disguising losses as wins in modern multiline slot machines. Clarkson University, Potsdam, NY.
- Dixon, M.J.** (February, 2013). Spinning with my emotions: psychophysiological and psychological responses to near-misses in slot machine play. Homewood Health Centre, Guelph, Ontario
- Dixon, M.J.** (October, 2012) Arousal Signatures of wins, losses and near misses in slot machine play. University of British Columbia, Vancouver, British Columbia
- Dixon, M.J.** (October, 2012) Arousal Signatures of wins, losses and near misses in slot machine play. University of Victoria, Victoria, British Columbia
- Dixon M.J., Jarick, M.** (2009, April). June must be right: Assessing the automaticity with which month names cue spatial attention in a time-space synaesthete: Congresso Internacional Sobre Sinestesia Parque des Las Ciencias, Granada, Spain.
- Jarick, M., **Dixon M.J.**, (2009, April). Numbers automatically direct spatial attention in a number-form synaesthete: Congresso Internacional Sobre Sinestesia Parque des Las Ciencias, Granada, Spain.
- Dixon M.J.**, (2008, July). Roses are Red and Sixes are Blue: The colouring of Cognition in Synaesthesia. University of Melbourne, Melbourne, Australia.
- Dixon, M.J.**, (2008, July). Number lines, number forms, and the shapes of time: how atypical mental representations influence spatial attention in synaesthesia. Asia-Pacific Conference on Vision. Brisbane, Australia
- Dixon, M., Jarick, M., & Smilek, D.** Confirming synaesthetic number forms using spatial cueing and SNARC-type tasks. (March, 2008). Invited paper presented at the Annual General Meeting of the UK Synaesthesia Association (UKSA), Edinburgh, Scotland.
- Dixon, M.J.**, (2006, February). Of Blue Twos and the Purple Edges of June: the colouring of cognition in synaesthesia. Invited address, Colloquium, Department of Psychology, University of Guelph, Guelph, Ontario.
- Dixon, M.J.**, (2005, September). Roses are red and sixes are blue: the colouring of cognition in synaesthesia. Invited address, Colloquium, Department of Psychology, Trent University Peterborough, Ontario.
- Dixon, M.J.**, (2004, May). Roses are red and sixes are blue: the colourful world of synaesthesia. Invited address for the Cognitive Seminar Series, Department of Psychology, University of Victoria, Victoria, British Columbia.



- Dixon, M.J.**, (2004, April). Roses are red and sixes are blue: the basics of grapheme-colour synaesthesia. 23<sup>rd</sup> Annual meeting of Banff Annual Seminar in Cognitive Science (BASICS), Banff, Alberta.
- Dixon, M.J.**, Smilek, D., & Merikle, P.M. (2002, April). Does the meaning of objects influence the efficiency of visual search. 4th meeting of the Perceptual Expertise Network (PEN 4). Calistoga, California.
- Dixon, M.J.**, Smilek, D., Wagar, B.M., & Merikle, P.M. (2002, February). Coloured Cognition: the influence of synaesthetic photisms on perception, conception and memory. Thirty first annual meeting of the Lake Ontario Visionary Establishment, Niagara Falls, Ontario.
- Dixon, M.J.**, Smilek, D., Wagar, B.M., & Merikle, P.M. (2001, November). Roses are red and sixes are blue: the influence of synaesthetic photisms on perception, conception and memory. Invited address at the Rotman Research Institute, Toronto, Ontario.
- Dixon, M.J.** (2000, November). Five plus two equals yellow: cognitive neuropsychological investigations of digit colour synaesthesia. Invited address at the University of Western Ontario, London, Ontario.
- Dixon, M.J.** (2000, May). Five plus two equals yellow: concept driven photisms in digit colour synaesthesia. Invited address at the University of Victoria. Victoria, British Columbia.
- Dixon, M.J.** (1999, November). Category specific object identification deficits in temporal lobe stroke, and Alzheimer's disease: the interaction of object form and meaning. Invited address at Concordia University, Montréal, Québec.
- Dixon, M.J.** (1999, March). Object identification deficits in temporal lobe stroke, early Alzheimer's disease and Herpes Encephalitis: Pitting the living/nonliving distinction against a psychological distance account. Invited address at the Ebbinghaus Empire Meeting University of Toronto, Toronto, Ontario
- Dixon, M.J.** (1999, February). Category- Specific object identification deficits in temporal lobe stroke, Herpes Encephalitis and Alzheimer's disease: The interaction of object form and object meaning. Invited address at State University of New York at Buffalo (Cognitive Sciences), Tonawanda, New York.
- Dixon, M.J.** (1998, November). Object identification deficits in Temporal Lobe Stroke and Early Alzheimer's disease. Invited address at Brock University. November, St. Catharines, Ontario.
- Dixon, M.J.** (1998, November). Object identification deficits in Temporal Lobe Stroke and Early Alzheimer's disease. Invited address at Trent University. Peterborough, Ontario.
- Dixon, M.J.** (1996, January). Object recognition deficits in early Alzheimer's Disease. Invited address at the annual meeting of the Alzheimer's Society of Canada. February, Ottawa, Ontario.
- Dixon, M.J.** (1995, October). The role of semantic proximity on object recognition in category-specific visual agnosia. Invited address to the Groupe de Recherche Neurolinguistique et Neuropsychologie, Centre de Recherche Cotes-des-Neiges, November, Montréal, Quebec.
- Dixon, M.J.** (1995, January). Locating the functional deficit in a prosopagnosic patient. Invited address to the Group du Recherche en Neuropsychologie, Université de Montréal. December, Montréal, Québec.
- Dixon, M.J.** (1995, February). The influence of semantics on object recognition in category specific visual agnosia. Invited address to the Cognition Group at University of Victoria, February, Victoria British Columbia.

Workshops Presented

**Dixon, M.J.**, & Smilek, D. (2001, May). Current investigations of synaesthesia: When a 4 just has to be blue. Workshop presented at the 5th annual meeting of the Association for the Scientific Study of Consciousness (ASSC5). Duke University, Durham NC.

Published (Refereed) Abstracts

**Jarick, M., Dixon, M.J.**, Stewart, M., Maxwell, E., & Smilek, D. (2008). Time-space associations in synaesthesia: When input modality matters. *Journal of Vision*, 8, 525a.

**Dabbagh, A.**, Desmarais, G., Roy, E.A., & **Dixon, M.J.** (2008). Comparing the impact of incorrect object identification on object use to the impact of incorrect action production on naming objects. *Journal of Vision*, 8, 617a.

**Korzenko, J., Mann, H., Carriere, J., Dixon, M.J.** (2008). Beware the sides of March: Exploring spatial representations of time in time-space synaesthesia. *Brain and Cognition*, 67(1). 26-27.

Desmarais, G., **Dixon, M.J.**, & Roy, E.A. (2008). Task characteristics modulate the impact of action similarity on visual object identification. *Journal of Vision*, 8, 521a.

Desmarais, G., **Pensa, M.C., Dixon, M.J.**, Roy, E.A. (2008). Adding and omitting components of actions: differences in salience between pulling, twisting, and sliding. *Brain and Cognition* 67(1), 18-19.

**Kwan, D., Carriere, J., Eaton, D., Guild, E., Dixon, M.J.** Smilek, D. (2008). What happens when a grapheme-color synaesthete learns a new language? Proceedings of the the Cognitive Neuroscience Society, 15th Annual Meeting, G3.

**Striener, C., Wagar, B., Gingerich, T., Striener, D., Dixon, M.J.** (2008). Covert face recognition is dependent on the prior acquisition of face representations: evidence from a case study of congenital prosopagnosia. *Brain and Cognition* 67(1), 41.

**Desmarais, G., Dixon, M.J.**, Roy, E.A. (2007). The impact of action similarity on visual object identification. *Journal of Vision*, 7, 923a.

Stamenova, V, Almeida, Q.A., Black, S.E., **Dixon, M.**, Park, N., **Desmarais, G.** & Roy, E.A. (2006) Hemispheric Differences in the Production and Recognition of Gesture Errors, Proceedings of the 16th Annual Rotman Research Institute Conference, March, 2006, Toronto, ON

**Carriere, J. S. A., Smilek, D., Reynolds, M. G., Dixon, M. J., & Merikle, P. M.** (2006). The influence of grapheme-colour synaesthesia on eye movements. *Journal of Vision*, 6, 1074a.

**Wagar, B. M., and Dixon, M. J.** (2005, April). Automatic prejudice in the amygdala: facial or racial? Proceedings of the the Cognitive Neuroscience Society, 12th Annual Meeting, 201.

**Desmarais, G., Dixon, M.J., Roy, E. A.** (2005, April). Looking at, holding, and interacting with objects: the richness of our experience influences the quality of object representations in memory as indexed by naming performance. Proceedings of the Cognitive Neuroscience Society, 12th Annual Meeting, 201.

**Desmarais, G., Dixon, (2004, April).** The importance of movement similarity in action (gesture) Proceedings of the Cognitive Neuroscience Society, 11th Annual Meeting, 201.

- Schweizer, T.A., Vogel-Sprott, M., Jolicoeur, P. & Dixon, M.J. (2003). Alcohol, and the bottleneck in the information processing stream. Alcoholism: Clinical and Experimental Research, 27(5), 138.
- Merikle, P.M., Smilek, D., Thompson, H. & Dixon, M.J. (2003, March). Activation of synaesthetic color prior to awareness. Proceedings of the the Cognitive Neuroscience Society, Tenth Annual Meeting, 50-51.
- Merikle, P. M., Smilek, D., Myles, K. M., & Dixon, M. J. (2002). Individual differences in alphanumeric-colour synaesthesia. Perception, 31, S39 (Abstract).
- Dixon, M.J.** Smilek, D., Wagar, B.M., Cudahy, C. & Merikle, P.M. (2002). Five plus two equals yellow: Perceptual and conceptual aspects of synaesthesia. Proceedings of the 12th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 12) Symposia Abstracts, Brain and Cognition, 48, 236.
- Merikle, P.M., **Dixon, M.J.** & Smilek, D. (2002). The role of synaesthetic photisms in perception, conception and memory. Proceedings of the Cognitive Neuroscience Society, Ninth Annual Meeting, 6-7.
- Dixon, M.J., Myles, K. M., Smilek, D., Zanna, M.P., Duffy, P.L., & Merikle, P.M.** (2002). Same shape - different colours: both meaning, and form, determine the colours of graphemes in alphanumeric-colour synaesthesia. Proceedings of the the Cognitive Neuroscience Society, Ninth Annual Meeting, 41.
- Schweizer, T.A., Dixon, M.J., & Piskopos, M. (2002). Psychological distance affects object identification in Herpes encephalitis: Converging evidence from multiple visual identification tasks. Proceedings of the the Cognitive Neuroscience Society, Ninth Annual Meeting, 161.
- Dixon, M.J., Myles, K. M., Smilek, D., Zanna, M.P. & Merikle, P.M.** (2002). Synaesthetic photisms and context. Proceedings of the 2nd annual meeting of the Vision Sciences Society, Abstract 225, 81-82.
- Merikle, P.M., Smilek, D. & Dixon, M.J. (2002). Synaesthetic photisms and memory. Proceedings of the 2nd annual meeting of the Vision Sciences Society, Abstract 268, 97.
- Schweizer, T.A., **Dixon, M.J.**, & Piskopos, M. (2001). A psychological distance account of category-specific naming impairments. Journal of the International Neuropsychological Society, 7, 422.
- Smilek, D., **Dixon M., Cudahy, C., & Merikle, P.M.** (2000). Digit-colour synaesthesia: An investigation of extraordinary conscious experiences. Consciousness and Cognition, 9(2), S53.
- Fillmore, M.T., **Dixon, M.J., & Schweizer, T.A.** (2000). Alcohol affects processing of ignored stimuli in a negative priming paradigm. Journal of the Alcoholic Beverage Medical Research Foundation, 10, 136.
- Smilek, D., Dixon M., Cudahy, C., & Merikle, P.M. (2000). Digit-colour synaesthesia: An investigation of extraordinary conscious experiences. Consciousness and Cognition, 9(2), S53.
- Dixon, M., Bub, D., Lupien, S., Pavate, C., Malette J., & Nair, N.P.V.** (1997). Selective attention for shape in patients with Alzheimer's disease. Proceedings of the 27th annual conference of the International Neuropsychological Society. Journal of the International Neuropsychological Society, 4, 55.
- Dixon, M., & King, S.** (1996). A psychophysical construct validation of expressed emotion. Proceedings of Schizophrenia 96, Breaking Down the Barriers. 67.

King, S., & **Dixon, M.** (1995). Questioning the place of expressed emotion in the vulnerability-stress model: Data from Montreal, proceedings of the Tenth Annual Meeting of the Society for Research in Psychopathology, 28.

**Dixon, M.**, Bub, D., & Arguin, M. (1995). The influence of semantics on shape identification in category specific visual agnosia. Journal of the International Neuropsychology Society, 1, 130. (\*\*\*)Winner of the Nelson Butters Award for best submission by a postdoctoral student).

King, S., & **Dixon, M.** (1995). The longitudinal stability and symptom sensitivity of expressed emotion in mothers and fathers. Schizophrenia Research, 15, 218.

Joober, R., Rouleau, G., Lal, S., Palmour, R., Bloom, D., Labelle A., Drucker, H., **Dixon, M.**, & Benkelfat, C. (1995). Neuroleptic-resistant schizophrenia: clinical, neuropsychological and family history characterizations. Psychiatric Genetics, 5, 56.

Lamarche, M.-C., **Dixon, M.**, & Laurence, J.-R. (1991). Response to posthypnotic amnesia and aphasia in highly hypnotizable and simulating subjects. The International Journal of Clinical and Experimental Hypnosis, 39, 259. (\*Winner of the Harold B. Crasilneck Award for best student submission).

Labelle, L., **Dixon, M.**, & Laurence, J.-R. (1991). Processing of information and memory creation in hypnosis. The International Journal of Clinical and Experimental Hypnosis, 39, 261.

**Dixon, M.**, Brunet, A., & Laurence, J.-R. (1990). Hypnotizability differences in automatic and strategic performance in a modified Stroop-type task. The International Journal of Clinical and Experimental Hypnosis, 38, 334.

Blatt, T., **Dixon, M.**, & Laurence, J.-R. (1990). Differential acquisition of automatic responses among high and low hypnotizable subjects. The International Journal of Clinical and Experimental Hypnosis, 38, 334.

Labelle, L., **Dixon, M.**, & Laurence, J.-R., Nadon, R. (1990). Hypnotizability: a potpourri of this, that and other things. The International Journal of Clinical and Experimental Hypnosis, 38(4), 330.

**Dixon, M.**, Brunet, A., & Laurence, J.R. (1989). Hypnotizability and automaticity of verbal information processing. The International Journal of Clinical and Experimental Hypnosis, 37, 361.

#### Published (Non Refereed) Abstracts

Smilek, D., Dixon, M. J. Merikle, P. M. (2002). Meaning influences search efficiency. Abstracts of the Psychonomic Society (43<sup>rd</sup> Annual Meeting) Abstract 77, 11.

Merikle, P. M., Smilek, D., & **Dixon, M. J.** (2002). Synaesthetic color influences the efficiency of visual search. Abstracts of the Psychonomic Society (43<sup>rd</sup> Annual Meeting) Abstract 526, 78.

#### Oral Presentations

Jarick, M., Graydon, C., Simpson, T., Harrigan, K.A., and **Dixon, M.J.** (June, 2014). Negative sounds make losses more memorable. Talk presented at the Canadian Society for Brain, Behaviour, and Cognitive Sciences (CSBBCS). Toronto, Ontario.

- Dixon, M.J.**, (2014, May). Disguising losses as wins in modern multiline slot machines. 9th International conference of the association of psychology and Psychiatry for Adults and Children Athens, Greece
- Graydon, C., **Dixon, M.J.**, Harrigan, K.A., Fugelsang, J.A., (2013, June). Slot machine gambling: can monetary losses make you play longer? Talk presented at the 23rd Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS), Calgary, Ontario.
- \*Dixon, M. J.** & Harrigan, K.A., Jensen, C., Jarick, M., Maclaren, V., Fugelsang, J.A. (2011, April). Psychophysiological and psychological responses to wins, losses and near misses in slot machine play. Paper presented at Alberta Gaming Research Institute's 10<sup>th</sup> Annual Conference, Banff, Alberta. **\* Winner of Best Oral Presentation**
- Jarick, M., Stewart, M.T., Smilek, D., & **Dixon, M.J.** (2011). When January is better seen upsidedown and to the right: A vantage point preference for a time-space synaesthete. *Invited paper presented at The Ninth Annual Conference of the American Synesthesia Association (ASA)*, San Diego, California.
- Dixon, M. J.** & Harrigan, K.A. (2010, April). Losses Disguised as wins in modern video slot machines. Paper presented at Discovery 2010, Toronto Ontario.
- Jarick, M. & **Dixon, M.** (April, 2009). Numbers automatically direct spatial attention in a number-form synaesthete. *Paper presented at Sinesthesia 2009*, Granada, Spain.
- Dixon, M. & Jarick, M. (April, 2009). June must be right: Assessing the automaticity with which month names cue spatial attention in a time- space synaesthete. Paper presented at Sinesthesia 2009, Granada, Spain.
- Jarick, M., **Dixon, M.**, Stewart, M., Maxwell, E., & Smilek, D. (September, 2008). The ups, and downs (and lefts and rights) of synaesthetic number forms. Invited paper presented at the American Synesthesia Association (ASA), Hamilton, Ontario.
- Jarick, M., **Dixon, M.**, Stewart, M., Maxwell, E., & Smilek, D. Time-space associations in synaesthesia: When input modality matters. (May, 2008). Paper presented at the Vision Sciences Society 8th Annual Meeting (VSS), Naples, Florida.
- Dixon, M.**, Stewart, M., Jarick, M., Maxwell, E. & Smilek, D. A different outlook on time: Visual and auditory month names elicit different vantage points for a mental calendar in a time-space synaesthete. (March, 2008). Invited paper presented at the Annual General Meeting of the UK Synaesthesia Association (UKSA), Endinburgh, Scotland.
- Desmarais, G., Dabbagh, A., Roy, E.A., & **Dixon, M.J.** (2007). The impact of object similarity on action production, the influence of task order. Oral presentation at the 2007 meeting of the Canadian Society for Psychomotor Learning and Sports Psychology Symposia in Windsor.
- Callejas, A., Smilek, D., **Dixon, M.J.**, & Merikle, P.M. (2004, Nov). A web-based descriptive study of grapheme – color Synaesthesia. Paper presented at the 4<sup>nd</sup> Annual Meeting of the American Synesthesia Association. New York, New York.
- Dixon, M.J.**, Wagar, B.M., Smilek, D., & Merikle, P.M. (2003, May). Synaesthetic Photisms both help and hinder performance. Paper presented at the 3<sup>rd</sup> Annual Meeting of the American Synesthesia Association. New York, New York.

- Dixon, M.J., Myles, K.M., Smilek, D., & Merikle, P.M.** (2002, April). Not all synaesthetes are created equal: Distinguishing between projector and associator synaesthetes. Paper presented at the 2<sup>nd</sup> Annual Meeting of the American Synesthesia Association. San Diego, California.
- Merikle, P.M., **Dixon, M.J., Smilek, D.** (2002, April) The role of synaesthetic photisms in perception, conception, and memory in E.M. Hubbard, and N. Sagiv (Organizers) The Cognitive Neuroscience of Synaesthesia. Symposium presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Merikle, P.M., Smilek, D. & **Dixon, M.J.** (2002, May). Is there a genetic contribution to the development of synaesthesia? Paper presented at the 2nd annual meeting of the American Synesthesia Association, San Diego, California.
- Merikle, P.M., Smilek, D. & **Dixon, M.J.** (2002, May). Synaesthetic photisms and memory. Paper presented at the 2nd annual meeting of the Vision Sciences Society, Sarasota, Florida.
- Dixon, M.J., Smilek, D., Wagar, B.M., Cudahy, C., & Merikle, P.M.** (2001, June). Five plus two equals yellow: Perceptual and conceptual aspects of synaesthesia. In Cognitive Neuropsychological Investigations of Synaesthesia (M.J. Dixon, Symposium Organizer), Paper presented at TENNET 12, Montreal, Quebec.
- Dixon, M.J., Smilek, D., Cudahy, C., & Merikle, P.M.** (2000, July). Five plus two equals yellow: concept driven photisms in digit-colour synaesthesia. Paper presented at the Canadian Society for Brain, Behaviour, and Cognitive Science, Cambridge, UK.
- King, S., **Dixon, M.J.,** Cunningham, H., & Champagne F. (1999, April). A psychophysical construct validation of expressed emotion. Paper presented at the International Congress of Schizophrenia Research, Sante Fe.
- King, S., & **Dixon M.J.** (1997, September). Expressed emotion & Stress in Schizophrenic & Normal Control Subjects. Paper presented at the 2nd International Conference on Psychological Treatments for Schizophrenia, Oxford, U.K.
- King, S., & **Dixon, M.J.** (1997, October). Expressed Emotion and Stress in Schizophrenic and Normal Control Subjects. Paper presented at the annual meeting of the Society for Research in Psychopathology, Palm Springs, California.
- King, S., & **Dixon, M.J.** (1996, October). Les attitudes familiales de type haut niveau d'émotions exprimées: Vraiment un stress pour les patients schizophrènes? Paper presented at the annual meeting of the Club de Recherches Cliniques du Québec, Mont Ste-Anne, Québec.
- King, S., & **Dixon, M.J.** (1996, December). Quel est la place des émotions exprimées dans le modèle de vulnérabilité Stress. Presented at La Journée scientifique du réseau santé mentale FRSQ, Montreal, Québec.
- King, S., & **Dixon, M.J.** (1995, October). A model of social adjustment for schizophrenic young adults: the influence of expressed emotion, family dynamics and symptom type. In Michael J. Goldstein (Chair), Tenth Annual Meeting of the Society for Research in Psychopathology, Coral Gables, Florida.

**Dixon, M.,** & Laurence, J.-R. (1988, May). Memory creation and processing below awareness. In J.-R. Laurence (Chair), Errors of memory: system failures or functional adaptation? Symposium presented at the annual meeting of the Canadian Psychological Association, Montréal, Québec.

### Posters (refereed)

Stange, M., Dixon, M.J., Brown, D., Harrigan, K.H. (2017, April). An examination of the frequency of near-miss outcomes in scratch cards and their effects on gambling urge and new-card purchases. Presented at the Alberta Gambling Research Institute's 16<sup>th</sup> Annual Conference, Banff, Canada (Poster).

Dixon, M.J., Larche, C. J., Graydon, C., Fugelsang, J.A. (2017, April). Stop the (button) presses'': How stop-button use alters player responses to winning and losing outcomes, and may foster erroneous cognitions. Presented at the Alberta Gambling Research Institute's 16<sup>th</sup> Annual Conference, Banff, Canada (Poster).

Graydon, C., Dixon, M.J., Stange, M. Fugelsang, J.A. (2017, April). Losses disguised as wins in multiline slots: can losing money be reinforcing? Presented at the Alberta Gambling Research Institute's 16<sup>th</sup> Annual Conference, Banff, Canada (Poster).

Larche, C., Musielak, N. & Dixon, M.J. (2016, April). The Candy Crush Sweet Tooth: How near-misses in Candy Crush increase frustration and urge to continue game-play. Presented at the Alberta Gambling Research Institute's 15<sup>th</sup> Annual Conference, Banff, Canada (Poster).

Stange, M., Grau, M., Osazuwa, S., Graydon, C., Dixon, M.J. (2016, April) Understanding the physiological and psychological effects of scratch card play. Poster presented at the Alberta Gambling Research Institute's 15<sup>th</sup> Annual Conference. Banff, Alberta, Canada.

Graydon, C. , Dixon, M.J., Stange, M. , Fugelsang, J. (2015, June) Multiline Slots: Gambling Persistence, Erroneous Cognitions, and Problem Gambling. Poster presented at the Canadian Society for Brain, Behaviour, and Cognitive Science. Ottawa, Ontario, Canada,

Stange, M. , Graydon, C., Dixon, M.J. (2015, May). Investigating Players' Reactions to Losses, Wins, and Near-Misses on Scratch Cards. Oral presentation. Oral presentation at the 45<sup>th</sup> Annual Ontario Psychology Undergrad Thesis Conference. London, Ontario, Canada,

Stange, M. , Graydon, C., Dixon, M.J. (2015, March). Investigating players' responses to wins, losses, and near-misses in scratch card play. Poster presented at the Alberta Gambling Research Institute's 14<sup>th</sup> Annual Conference. Banff, Alberta, Canada.

Graydon , C., Dixon, M.J., Harriagn, K., Fugelsang, J., Stange, M . (2015, March). Multiline slots: Can losing money increase gambling desire and prolong game-play? Poster presented at the Alberta Gambling Research Institute's 14<sup>th</sup> Annual Conference. Banff, Alberta, Canada.

Graydon, C., **Dixon, M.J**, Harrigan, K., & Fugelsang, J. (2014). A brief educational video can reduce erroneous win overestimates in multiline slots. Poster presented at the Alberta Gaming Research Institute's 13<sup>th</sup> Annual Conference, Banff, Alberta, Canada

Graydon, C., **Dixon, M. J.** & Harrigan, K.A., Sheepy, E., Fugelsang, J.A. and Jarick, M. (2013, April). Losses disguised as wins in multiline slot machine games: Can losing affect players' game preferences. Poster presented at Alberta Gaming Research Institute's 12<sup>th</sup> Annual Conference, Banff, Alberta, Canada

- Lee, J., Jensen, C., Jarick, M., Dixon, M.J. (2012, June). Minimizing the Effects of False Feedback in Multiline Slot Machine Games: An Eyetracking Study. Poster presented at the 22nd Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS), Kingston, Ontario.
- Lee, J. **Dixon, M.J.**, Sheehan, B. (2012, April). Arousal and bluffing in Texas Hold'em Poker. Poster presented at Alberta Gaming Research Institute's 11<sup>th</sup> Annual Conference, Banff, Alberta.
- Dixon, M., Fugelsang, J., MacLaren, V., & Harrigan, K. (2012, April). Distinguishing tight from loose slot machines – Cognitive distortion, or a dangerous skill? Poster at the Alberta Gaming Research Institute's 11<sup>th</sup> Annual Conference. Banff, Alberta Canada..
- Aquino, J.M., **Dixon, M.J.**, (2012, April). The snakes in the grass – gambling cues outside of the gaming venue seize attention, are preferentially processed, and trigger the urge to gamble. Poster presented at Alberta Gaming Research Institute's 11<sup>th</sup> Annual Conference, Banff, Alberta.
- Jensen, C., Dixon, M. J. & Harrigan, K.A., Sheepy, E., Fugelsang, J.A. and Jarick, M. (2012, April). When losing becomes winning in multiline slot machine games. Poster presented at Alberta Gaming Research Institute's 11<sup>th</sup> Annual Conference, Banff, Alberta.
- \*Jensen, C., Dixon, M. J. & Harrigan, K.A., Jarick, M., & Fugelsang, J.A. (2011, April). Miscategorizing losses as wins in modern video slot machines. Poster presented at Alberta Gaming Research Institute's 10<sup>th</sup> Annual Conference, Banff, Alberta. \* **Winner of Best Poster Presentation**
- Dixon, M.J.**, Harrigan, K.A. (2010, May). Disguising losses as wins in multiline video slot machines). Poster presented at the Vision Science Society 10th Annual Meeting (VSS), Naples, Florida.
- Jarick, M. Dixon, M., Hawco, C., & Ferretti, T. (May 2010). Electrophysiological evidence supporting the automaticity of synaesthetic number-forms. Poster presented at the Vision Science Society 10th Annual Meeting (VSS), Naples, Florida.
- Peterburs, J., Jarick, M., **Dixon, M.J.** (March 2009). When photisms help and when they hurt: The impact of colour incongruency on object substitution masking in grapheme-colour synaesthetes. *Poster presented at the 16<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California.*
- Jarick, M., Hawco, C., Ferretti, T., & **Dixon, M.J.** (May 2009). Electrophysiological evidence of shift of spatial attention corresponding to a synaesthetes' mental calendar. Poster presented at the Vision Science Society 9th Annual Meeting (VSS), Naples, Florida.
- Dabbagh, A., Desmarais, G., Roy, E.A., & Dixon, M. (2008, June). The influence of task order on the impact of object similarity on action production. Poster presented at the 2008 annual meeting of Theoretical and Experimental Neuropsychology (TENNET 16) Symposia in Waterloo.
- Pensa, C., Desmarais, G., Dixon, M., & Roy (2008, June). Errors associated with action identification in comparison to action production. Poster presented at the 2008 annual meeting of Theoretical and Experimental Neuropsychology (TENNET 16) Symposia in Waterloo.
- Stamenova, V, Desmarais, G, Roy, E.A., Park, N., **Dixon, M.J.**, Hebert, D. & Black, S.E. (2008, June) Limb Apraxia and Functional independence in a Sample of long-Term Care Residents. Poster presented at the Annual Meeting of Theoretical & Experimental Neuropsychology. June, 2008, Waterloo, Ontario.



Jarick, M., Peterburs, J., & Dixon, M. (2008, June). Reading between the masks: Synaesthetic colours alleviate masking in a grapheme-colour synaesthete. Poster presented at the 18th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBBCS), London, Ontario.

Desmarais, G., **Dixon, M.J.**, & Roy, E.A. (2008, April). Task characteristics modulate the impact of action similarity on visual object identification. Poster presented at the 2008 meeting of the Vision Sciences Society in Naples.

Dabbagh, A., Desmarais, G., Roy, E.A., & Dixon, M.J. (2008, April). Comparing the impact of incorrect object identification on object use to the impact of incorrect action production on naming objects. Poster presented at the 2008 meeting of the Vision Sciences Society in Naples.

Desmarais, G., Striener, C., Roy, E.A., Dixon, M.J. (2007, July). Using structure to improve memory for visual material: linking encoding approaches to memory deficits for visual information in a patient with a focal lesion to the right frontal lobe. Poster presented at the 2007 meeting of the International Neuropsychological Society in Bilbao, Spain.

Korzenko, J., Mann, H., Carriere, J., & Dixon, M. (2007, June). Beware the sides of march. Poster presented at TENNET 17, Montreal, Quebec.

Desmarais, G., Pensa, M.C., Dixon, M.J., Roy, E.A. (2007, June). Adding and omitting components of actions: differences in salience between pulling, twisting, and sliding. Poster presented at TENNET 17, Montreal, Quebec.

Striener, C., Wagar, B., Gingerich, T., Striener, D., Dixon, M.J. (2007, June). Covert face recognition is dependent on the prior acquisition of face representations: evidence from a case study of congenital prosopagnosia. Poster presented at TENNET 17, Montreal, Quebec.

Desmarais, G., Dixon, M.J., & Roy, E.A. (2007, May). The impact of action similarity on visual object identification. Poster presented at the meeting of the Vision Sciences Society in Sarasota, Florida, USA.

Stamenova, V, Black, S.E., Mamolo, C., Desmarais, G., Dixon, M., Park, N., Hébert, D., Danckert, J., Adams, S., Almeida, Q. & Roy, E.A. (2007, February). Tactile and Visual cues facilitate performance of transitive gestures in patients with Corticobasal Degeneration. Poster accepted for presentation at the International Neuropsychological Society Annual Meeting, Portland, Oregon.

Desmarais, G., Pensa, M.C., Dixon, M.J. & Roy, E.A (2006, November). The impact of object misidentification on object use. Poster presented at the 2006 meeting of the Canadian Society for Psychomotor Learning and Sports Psychology Symposia, Halifax, Nova Scotia.

Clark, A., Roy, E., Desmarais, G., Black, S., Stamenova, V., Almeida, Q., **Dixon, M.,** Park, N., & Danckert, J. (2006, November) Tool-Related and Communicative Gestures in Apraxia: Evidence for Distinct Routes to Action. Presentation at the 2006 meeting of the Canadian Society for Psychomotor Learning and Sports Psychology, Halifax, Nova Scotia.

Bradley, N.L., Roy, E.A., **Dixon, M.J.,** Staines, R., & Desmarais, G. (2006, November) What's in a name? The role of verbal and action attributes in novel object identification. Poster presented at the 2006 meeting of the Canadian Society for Psychomotor Learning and Sports Psychology Symposia, Halifax, Nova Scotia.

Desmarais, G., Roy, E.A., Striener, C.L., Brown, S.G., Bradley, N.L., Clark, A., Vasquez, B. and Dixon, M.J. (2006, July). Linking encoding approaches to memory deficits for visual

information in a patient with a focal lesion to the right frontal lobe. Poster presented at the 2006 meeting of the International Neuropsychological Society, Zurich.

Carriere, J. S. A., Smilek, D., Reynolds, M. G., **Dixon, M. J.**, & Merikle, P. M. (2006, May). The influence of grapheme-colour synaesthesia on eye movements. Poster presented at the 6th Annual Meeting of the Vision Sciences Society, Sarasota, Florida.

Smilek, D., **Dixon, M. J.**, & Merikle, P. M. (2006, April). Investigations of time-space synaesthesia. Poster presented at the 13th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California.

Wagar, B.M. & **Dixon, M.J.** (2006, April). Risky feelings: Automatic racial prejudice affects decisions under uncertainty. Poster presented at the 13<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California.

Desmarais, G., & **Dixon, M.J.** (2006, April). What can the visual identification of sparrows and ostriches tell us about object representations in memory? Poster presented at the 13th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California.

Stamenova, V, Almeida, Q.A., Black, S.E., **Dixon, M.**, Park, N., Desmarais, G. & Roy, E.A. (2006, March). Hemispheric Differences in the Production and Recognition of Gesture Errors, Poster presented at the 16th Annual Rotman Research Institute Conference, Toronto, ON

Risko, E.F., **Dixon, M.J.**, Besner, D., & Ferber, S. (2005, June). The glue that binds: The role of meaning in the persistence of shape from motion. Poster presented at TENNET 16, Montreal, Quebec.

Wagar, B. M., **Dixon, M. J.** & Bub, D.N. (2005, June). Categorical information and exemplar information differentially influence object identification. Poster presented at TENNET 16, Montreal, Quebec.

Wagar, B. M., and **Dixon, M. J.** (2005, April). Automatic prejudice in the amygdala: facial or racial? Poster presented at the 12th Annual Meeting of the Cognitive Neuroscience Society, New York, New York.

Desmarais, G., **Dixon, M.J.**, & Roy, E.A. (2005, April). Looking at, holding, and interacting with objects: The richness of our experiences influences the quality of object representations in memory as indexed by naming performance. Poster presented at the 2005 Annual meeting of the Cognitive Neuroscience Society, New York, New York

Wagar, B. M., and **Dixon, M. J.** (2004, June). Past experience influences object representation in working memory. Poster presented at TENNET 15, Montreal, Quebec.

Smith, S.D., Schweizer, T.A. **Dixon, M.J.**, Bulman-Fleming, M.B. (2004, June). The relation between the right-hemisphere advantage for anomaly detection and global perception. Poster presented at TENNET 15, Montreal, Quebec.

Schweizer, T.A., Vogel-Sprott, M., Jolicoeur, P. & **Dixon, M.J.** ((2004, June). Effects of alcohol on information processing: Perceptual, Cognitive or Motor. Research Society on Alcoholism. Vancouver, British Columbia.

Schweizer, T.A., Vogel-Sprott, M., Jolicoeur, P. & **Dixon, M.J.** (2003, June). Alcohol, and the bottleneck in the information processing stream. Research Society on Alcoholism. Fort Lauderdale, Florida, USA.

- Wagar, B.M. & Dixon, M.J. (2003, June) Diagnosticity in visual working memory. Poster presented at the 13th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Hamilton, Ontario.
- Wagar, B.M. & Dixon, M.J. (2003, June) Active versus passive binding in visual working memory. Poster presented at the 13th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Hamilton, Ontario.
- Smith, S., Dixon, M.J., Bulman-Fleming, M.B., Birch, C., Laudi, N. and Wagar, B.M. (2003, June). The influence of expertise on hemispheric asymmetries for the detection of anomalies. Poster presented at the 13th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Hamilton, Ontario.
- Smilek, D., Dixon, M.J., & Merikle, P.M. (2003, May). The influence of meaning and search strategy on the efficiency of visual search. Poster presented at the 3rd annual meeting of the Vision Sciences Society, Sarasota, Florida.
- Merikle, P.M., Smilek, D., Thompson, H. & Dixon, M.J. (2003, March). Activation of synaesthetic color prior to awareness. Poster presented at the Cognitive Neuroscience Society, Tenth Annual Meeting, New York, New York.
- Merikle, P.M., Smilek, D., Myles, K.M., & Dixon, M.J. (2002, August). Individual differences in synaesthesia. Poster presented at the 25th annual meeting of the European Conference on Visual Perception. Glasgow, UK.
- Dixon, M.J., Myles, K. M., Smilek, D., Zanna, M.P. & Merikle, P.M. (2002, May). Synaesthetic photisms and context. Poster presented at the 2nd annual meeting of the Vision Sciences Society, Sarasota, Florida
- Dixon, M.J., Myles, K. M., Smilek, D., Zanna, M.P., Duffy, P.L., & Merikle, P.M. (2002, April). Same shape - different colours: both meaning, and form, determine the colours of graphemes in alphanumeric-colour synaesthesia. Poster presented at the Cognitive Neuroscience Society, Ninth Annual Meeting, San Francisco, California.
- Schweizer, T.A., Dixon, M.J., & Piskopos, M. (2002, April). Psychological distance affects object identification in Herpes encephalitis: Converging evidence from multiple visual identification tasks. Poster presented at the the Cognitive Neuroscience Society, Ninth Annual Meeting, San Francisco, California.
- Schweizer, T.A., Jolicoeur, P., Dixon, M.J., Ingleton, M. & Vogel-Sprott, M. (2001, June). Effects of alcohol on the psychological refractory period: Beyond the bottleneck. Poster presented at the 11th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science. Laval University, Ste-Foy, Quebec.
- Schweizer, T.A., Dixon, M.J., Desmarais, G. & Smith, S.D. (2001, June). Not all triads are created equal: Further support for the importance of visual and semantic proximity in object identification. Poster presented at TENNET 12, Montreal, Quebec.
- Desmarais, G., Smith, S.D., Wagar, B.M., & Dixon, M.J. (2001, June). Categorical processing differences for object identification in normal participants. Poster presented at the 11th Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Laval, Quebec

- Smith, S.D., Tays, W.J., Dixon, M.J., Bulman-Fleming, M.B. (2001, June). The right hemisphere as an anomaly-detector: Evidence from visual perception. Poster presented at TENNET 12, Montreal, Quebec.
- Smilek, D., Dixon, M.J., Cudahy, C., Merikle, P.M. (2001, June). Concept-driven colour experiences in digit colour synaesthesia. Poster presented at TENNET 12, Montreal, Quebec.
- Wagar, B.M., Dixon, M.J., Smilek, D. & Cudahy, C. (2001, June) Coloured photisms prevent object-substitution masking in digit colour synaesthesia. Poster presented at TENNET 12, Montreal, Quebec.
- Smilek, D., Dixon, M. J., Cudahy, C., & Merikle, P. M. (2000, November). Synaesthetic photisms influence visual awareness. Poster presented at the 41st Annual Meeting of the Psychonomic Society, New Orleans, Louisiana, USA.
- Schweizer, T.A., Dixon, M.J., Westwood, D., & Piskopos, M. (2000, June). Contribution of visual and semantic proximity to identification performance in a viral encephalitis patient. Poster presented at TENNET 11, Montreal, Quebec.
- Westwood, D.A., Schweizer, T.A., Heath, M.D., Roy, E.A., **Dixon, M.J.,** & Black, S.E. (2000, June). Transitive gesture production in apraxia : Visual and non-visual sensory contributions. Poster presented at TENNET 11, Montreal, Quebec.
- Dixon, M.J.,** Koehler, D., Schweizer, T., & Guylee, M.J. (2000, June). Superior single dimension relative to 'exclusive or' categorization performance by a patient with category-specific visual agnosia: empirical data and an alcove simulation. Poster presented at TENNET 11, Montreal, Quebec, 43, 152-158.
- Dixon, M.J.,** Piskopos, M., & Schweizer, T. (2000, June). Musical instrument naming impairments: the crucial exception to the living/nonliving dichotomy in category-specific agnosia. Poster presented at TENNET 11, Montreal, Quebec, 43, 158-164.
- Dowhaniuk, M., Dixon, M.J., Roy, E., Square, P., & Black, S. (2000, June). The use of reaction time measures to evaluate non-word reading in primary progressive aphasia Poster presented at TENNET 11, Brain & Cognition, 43, 168-172.
- Guylee, M.J., Elias, L.J., Bulman-Fleming, M.B., & **Dixon, M.J.,** (2000, June). Tactile gap detection and language lateralization. Poster presented at TENNET 11, Montreal, Quebec.
- Dixon, M.J.,** & Arguin, M. (1999, June). Shape set dimensionality vs. structural distance effects in a patient with category-specific visual agnosia. Poster presented at TENNET 10, Montreal, Quebec.
- Dixon, M. J.** (1999, June). Tool and bird-exemplar identification in a patient with category specific visual agnosia. Poster presented at TENNET 10, Montreal, Quebec.
- Dowhaniuk, M., Dixon, M.J., Roy, E., Square, P., & Black, S. (1999, June). Rhyme judgment failures in a case of primary progressive aphasia: A precursor to phonological alexia. Poster presented at TENNET 10, Montreal, Quebec.
- Woodward T., Dixon, M.J., Bub, D.N., Mullen, T., & Christensen, K.T. (1998, October). Error analysis in investigation of color agnosia. Poster presented at the Fifth Annual Cognitive Neuroscience Society Meeting, San Francisco.

**Dixon, M.J.**, Mill, D., Chertkow, H., Bub, D., & Arguin, M. (1997, March). Visual and semantic determinants of object recognition deficits in early Alzheimer's disease. Poster presented at the Rotman Research Conference, Montreal, Quebec.

King, S., & **Dixon, M.J.** (1996, December). Quel est la place des émotions exprimées dans le modèle de vulnérabilité Stress. Paper presented at La Journée scientifique du réseau santé mentale FRSQ, Montreal, Québec.

King, S., & **Dixon, M.J.** (1996, October). Les attitudes familiales de type haut niveau d'émotions exprimées: Vraiment un stress pour les patients schizophrènes? Paper presented at the annual meeting of the Club de Recherches Cliniques du Québec, Mont Ste-Anne, Québec.

Arguin, M., Bub, D., **Dixon, M.J.**, Caille, S., & Fontaine, S. (1996, June). Shape integration and semantic proximity effects in visual agnosia for biological objects: a replication. Poster presented at TENNET 8, Montreal, Quebec.

#### Posters Non-Refereed

Larche, C. J., Musielak, N. & Dixon, M. J. (2016, April). The candy crush sweet tooth: How near-misses in candy crush increase frustration and urge to continue game-play. Poster presented at the University of Waterloo Graduate Psychology Discovery Conference, Waterloo, Ontario.

Stange, M., Grau, M., Osazuwa, S., Graydon, C., Dixon, M.J. (2016, April). Understanding the physiological and psychological effects of scratch card play. Poster presented at the Graduate Psychology Discovery Conference. Waterloo, Ontario, Canada.

#### Symposia

**Dixon, M.J.** Smilek, D., Merikle, P.M. (2004, January). Individual differences in grapheme-colour synaesthesia: Projector and Associator Synaesthetes. Symposium presented at the 22nd European Workshop on Cognitive Neuropsychology, Bressanone, Italy.

Merikle, P.M., **Dixon, M.J.**, & Smilek, D. (2004, January). Binding of Graphemes and Synaesthetic Colors in Grapheme-Color Synaesthesia Symposium to be presented at the 22nd European Workshop On Cognitive Neuropsychology, Bressanone, Italy.

Merikle, P.M., **Dixon, M.J.**, & Smilek, D. (2002, April). The Role Of Synaesthetic Photisms In Perception, Conception, And Memory. In The Cognitive Neuroscience of Synesthesia (Noam Sagiv & Edward M. Hubbard, Chairs). Symposium presented at the ninth annual meeting of the Cognitive Neuroscience Society, San Francisco, California.

## TEACHING

### Formal Classroom Teaching

#### Undergraduate Teaching:

<u>Academic Year</u>	<u>Term</u>	<u>Course # &amp; Title</u>	<u>Approx. Enrollment</u>
2019	Win	Psych390/392 Res Meth. Cog. Neuro	17
2019	Win	Psych390/392 Res Meth. Cog. Neuro	20
2018	Win	Psych392 Res Meth. Human Cog. Neuro	20

2018	Spring	Psych392 Res Meth. Human Cog. Neuro	20
2017	Win	Psych392 Res Meth. Human Cog. Neuro	20 (sec 1)
2017	Win	Psych392 Res Meth. Human Cog. Neuro	20 (sec 2)
2014	Win	Psych307 Neuropsychology	100
2014	Win	Psy 392 Res Meth. Human Cog. Neuro	20
2013	Spring	Psy 392 Res Meth. Human Cog. Neuro	17
2013	Winter	Psy 392 Res Meth. Human Cog. Neuro	20
2012	Spring	Psy 392 Res Meth. Human Cog. Neuro	18
2012	Winter	Psy 392 Res Meth. Human Cog. Neuro	20
2011	Spring	Psy 392 Res Meth. Human Cog. Neuro	14
2009/10	Spring	Psy 392 Res Meth. Human Cog. Neuro	20
2009/10	Fall	Psy 461 Cognitive Neuroscience	11
2008/09	Spring	Psy 392 Res Meth. Cog. Neuro	20
2004/05	Fall	Psy 261 Biological Psych.	170
2004/05	Fall	Psy 461 Cognitive Neuro Sem.	10
2004/05	Spr	Psy 261 T Biological Psych (Consult)	100
2004/05	Win	Psy 261T Biological Psych (Consult)	100
2003/04	Spr	Psy 261T Biological Psych (Consult)	100
2003/04	Win	Psy 261T Biological Psych (Co-ord)	100
2002/03	Fall	Psy 461 Cognitive Neuro Sem.	15
2002/03	Fall	Psy 261 Biological Psychology	150
2001/02	Win	Psy 307 Neuropsychology	85
2001/02	Fall	Psy 261 Biological Psychology	150
2000/01	Win	Psy 307 Neuropsychology	41
2000/01	Fall	Psy 461 Cognitive Neuro Sem.	19
1998/99	Spr	Psy 261 Biological Psych	75
1999/00	Win	Psy 261 Biological Psych	97
1999/00	Win	Psy 307 Neuropsychology	45
1998/99	Win	Psy 307 Neuropsychology	45
1998/99	Win	Psy 461 Cognitive Neuro Sem.	12
1997/98	Win	Psy 307 Neuropsychology	40
1996/97	Win	Psy 363 Advanced Cognition	36

(Concordia University)

**Qualitative Information Concerning Undergraduate Teaching Contribution**

<b>Course Evaluations: Summary Table</b>					
<b>Course</b>	<b>Year</b>	<b>Term</b>	<b>Score</b>	<b>Fac. Median</b>	<b># of Students</b>
Psych 392	2020	W	4.90	4.35	19
Psych 392	2020	W	4.70		16
Psych 392	2019	W	4.90	4.35	20
Psych 392	2019	W	4.70		20
Psych 392	2018	S	4.90	4.35	20
Psych 392	2018	W	4.70		20
Psych 392	2017	W	4.89		20
Psych 392	2017	W	4.89		20
Chair	2015-2016				
Sabbatical	2014-2015				
Psych 392	2014	W	4.59	4.49	19
Psych307	2014	W	4.43	4.35	102
Psych 392	2013	S	4.84	4.34	16
Psych 392	2013	W	4.72	4.32	20
Psych 392	2012	Sp	4.72	4.25	18
Psych 392	2012	W	4.59	4.25	20
Psych 392	2011	Sp	4.73	4.32	12
Psych 392	2010	W	4.69	4.32	19
Psych 461	2009	F	4.42	4.32	11
Psych 392	2008	S	4.60	4.32	20
Sabbatical	2008	F			
Chair	2007	F,W,S			
Chair	2006	F,W,S			
Psych 261	2005	W	4.47	4.11	183
Psych 461	2004	F	4.56	4.27	11
Psych 461	2002	F	4.70	4.03	15
Psych 261	2002	F	3.73	4.03	150
Psych 307	2002	W	4.24	3.82	85
Psych 307	2001	W	4.14	3.92	45
Psych 261	2001	F	3.78	3.72	146
Psych 461	2000	F	4.64	3.87	19
Psych 261	2000	W	4.26	3.91	97
Psych 307	2000	W	<u>3.99</u>	<u>3.91</u>	41
		<b>Average =</b>	<b>(4.55)</b>	<b>(4.14)</b>	

Formal Classroom Graduate Teaching:

<u>Academic Year</u>	<u>Term</u>	<u>Course # &amp; Title</u>	<u>Approximate Enrollment</u>
2009/2010	F	677A Fundamentals (took over this course from Dan Smilek who went on Family Leave)	12
2008/2009	S	779A Cognitive Neuro	10

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2004/05	Fall	779A Cognitive Neuropsych	10
2002/03	Win	677A Fundamentals of Behavioural Neuroscience	11
2001/02	Win	779A Cognitive Neuropsych	7
2000/01	Win	677A Fundamentals of Behavioural Neuroscience	10
1999/00	Win	779A Cognitive Neuropsych	8
1997/98	Fall	779A Cognitive Neuropsych	10

### Undergraduate Supervision

Major Advisor on Completed Honours Thesis

<u>Academic Year</u>	<u>Student Name</u>
2020	Kazma Chudry
2020	Andraya Watt
2018/2019	Katie Muir
2018/2019	Katrina Chini*
2018/2019	Molly Scarfe*
2017/2018	Michael Pinnau
2017/2018	Peter Tran
2016/2017	Hanbin Go *
2016/2017	Sehaj Bains
2015/2016	Arielle Levy *
2014/2015	Sai Kalvapalle
2014/2015	Mikyla Grau
2014/2015	Becky Molly
2014/2015	Madison Stange *
2013/2014	Stephanie Chu (***, Departmental Award for Outstanding Academic Achievement, Alumni Gold Medal)
2011/2012	Manar Shaker
2011/2012	Brendan Sheehan**
2010/2011	Jackey Lee*
2006/2007	Michelle Manios
2005/2006	Melanie Matthews
2002/2003	Norman Farb, Nadine Laudi, Kathleen Myles*
2001/2002	Brandon Wagar*
2001/2002	Katherine Murray, Martin Lochner
2000/2001	Murray Guylee (Co-supervised with B. Bulman-Fleming)
2000/2001	Christina Gojmerac
1999/2000	Sara Kim,*
1998/1999	Shelley Loewen

\*Awarded Psychology Honours Thesis Award

\*\* Awarded Neuroexchange best presentation award and Top 40 under 40 award

\*\*\* Awarded Alumni Gold medal

Second Reader on Completed Honours Thesis

2020	Aime Durston
2020	Makayla Kugler



2020	Matthew Pugh
2019	Laura Howes
2018	Tracy Duncan
2018	Tim Woerle
2017	Amanda Assi
2017	Sarah Young
2017	Jatheesh Srikantharajah
2015/2016	Arne Huang

### On-going Undergraduate Supervision

Advisor honours thesis	(student name):	Topic
Andraya Watt		
Kazma Chudry		

### Other undergraduate supervision (e.g., directed or independent study, etc.)

	<u>Academic Year</u>	<u>Student Name</u>	<u>Topic</u>	
	2020	Psych 464	Hyacinth Raymundo	Systematic Review
	2020	Psych 464	Heather Jankowski	mood induction and gambling
	2020	Psych 464	Molly Scarfe	eye tracking and scratch cards
	2019	Psych 464	Zoey Senyu Hu	eye tracking and LDWs
	2019	NSERC USRA	Tenaaz Irani	Loot Boxes as a form of gambling
	2018	NSERC USRA	Navi Dahliwal	Heart rate deceleration and HRV
	2017	NSERC USRA	Jeffrey Gutierrez	Dark and Light routes to enjoyment
	2017	Psych 480	Sonia Vintan	in game measures of dark flow
	2015/2015	Psych 480	Sai Kalvapalle	Synesthesia and emotion
	2014/2015	Psych 480	Rebecca Molly	Expertise and Bingo
	2014/2015	Psych 480	Mikyla Grau	Scratch tickets and Urge
	2015	NSERC USRA	Sandra Osazuwa	Scratch tickets and Urge
	2014/2015	Psych 480	Natalie Musiela	Allure of Candy Crush
	2013/2014	Psych 480	Sehaj Singh	Allure of NBA video games
	2013/2014	Psych 480	Madison Stange	Scratch tickets and near-misses
	2013	Psych 481	Carley Marshal	Slot machine features
	2013	NSERC USRA	Lisa Wojtowicz	Slot machine features
	2013	Psych 464	Vivian Siu	Slot machine features
	2013	Psych 464	Irene Chhay	Slot machine features
	2013	Psych 264	Madison Stange	Slot machine features
	2012	NSERC USRA	Sarah Moroz	Slot machine features
	2010	NSERC USRA	Emily Sheepy	Slot machine features
	2010	NSERC USRA	Jackey Lee	Slot machine features
	2009/2010	Psych 464	Jordan Anderson	body distortions
	2007/2008	(Visiting schol. US (Williamette University))	Emily Maxwell	Synaesthesia
	2006/2007	Psych 264	Ada Yeung	Actions and Objects
	2006/2007	Psych 464	Sarah Beckman	Actions and Objects
	2006/2007	(Psych 464)	Maribel Mainville	Action & Asymmetry
	2004/2005	(NSERC- coop)	Heather Mann	Research
	Apprenticeship			
	2003/2004	visiting schol. (ESP)	Alicia Callejas Sevilla	Synaesthesia

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2002/2003	(Psych 464)	Maria Pensa	Research Apprenticeship
2002/2003	(NSERC)	Lana Pham	Research Apprenticeship
2001/2002	(Psych 480)	Dan Chan	Synaesthesia
2000/2001	(NSERC)	Katie Myles	Research Apprenticeship
2000/2001	(NSERC)	Lori Thompson	Research Apprenticeship
2000/2001	(Psych 464)	William Tays	Research Apprenticeship
2000/2001	(NSERC)	Marty Lochner	Research Apprenticeship
1999/2000	(NSERC)	Brandon Wagar	Research Apprenticeship
1998/1999	(psych 480)	Dana Corfield	Deep Dyslexia
1998/1999	(psych 480)	Brandon Wagar	Computational models of memory
1998/1999	(Psych 464)	Sara Kim	Research Apprenticeship
1998/1999	(Psych 464)	Christina Gojmerac	Research Apprenticeship

### Graduate Supervision

#### Postdoctoral Supervision

2019 -2020 Candice Graydon  
2010-2012 Vance MacLaren (problem gambling)

#### Completed Graduate Supervision

Major Advisor on Completed Ph.D. Thesis

#### Academic Year

<u>Academic Year</u>	<u>Student Name</u>
2017	Candice Graydon (defended Aug 10, 2017)
2014	Jennifer Aquino (defended June 2, 2014)
2010	Michelle Jarick (defended December 9, 2010)
2008/2009	Gillian Munro (defended December 10, 2008)
2005/2006	Brandon Wagar (defended September 9, 2005)*** Awarded Governor General's Gold Medal June 17, 2006
2005/2006	Genevieve Desmarais (defended September 6, 2005)
2003/2004	Tom Schweizer (defended April 20, 2004)
2002/2003	Mark Dowhaniuk (defended April 29, 2003)
2001/2002	Daniel Smilek (defended July 10, 2002) (Co-supervised with Phil Merikle)
2000/2001	Duncan McKinlay (defended Aug 22, 2001)

## Major Advisor on Completed MA or MASc Thesis

<u>Academic Year</u>	<u>Student Name</u>
2020	Tyler Kruger
2017	Madison Stange (Alumni Gold Medal, 2017)
2017	Chanel Larche
2013	Jacky Lee
2011	Candice Jensen (outstanding achievement in Grad St.)
2008	Jutta Peterburs (through Ruhr-University Bochum)
2008	Jennifer Aquino (co supervised with C. Purdon)
2007	Jonathan Carriere (co supervised with Dan Smilek)
2003	Brandon Wagar
2001	Genevieve Desmarais
2000	Tom Schweizer
1997	Mark Dowhaniuk (co-supervised with Eric Roy)

Committee Member on Completed Ph.D. Thesis

<u>Academic Year</u>	<u>Student Name</u>
2020	Robin Mazumner
2020	Jeremy Marty-Dugas
2020	Spencer Murch (Ext. Examiner UBC)
2020	Eleni Nasiopoulos (Ext. Examiner UBC)
2020	Sarah McCrackin
2018	Mengan Xu
2017	Greta James
2017	Brandon Ralph
2017	Jeff Wammes
2017	Igor Yakovenko (Ext. Examiner U. of Calgary)
2016	Karly Neath
2015	Paul Seli
2015	Kaylena Ehgoetz Martens
2015	Jason Lochlin
2013	Nadia Martin
2013	Amandine Lassalle
2012	Kathy Smolevska
2010	Jonathan Carrier
2010	Kelly Malcolmson
2009	Chris McNorgan (Ext. Examiner U. of Western)
2008	Chris Streimer
2005	Chris White
2005	Mike Reynolds
2005	Jelana King
2004	Stephen Smith
2004	Quincy Almeida (internal examiner – Kin. PhD)
2003	William Gage (internal examiner – Kin. PhD)
2003	Robert Jing Zhu (internal examiner – Phil. PhD)
2003	Chris Oriet

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2003	Martha Roberts
2003	Karen Grattan-Miscio
2002	Todd Girard
2002	George Cree (UWO) external examiner
2001	David Westwood
2001	Mark Fenske
2001	Adam Dubrowski (internal examiner – Kin. PhD)
2001	Mark Carpenter (internal examiner – Kin. PhD)
2000	Louise Scott
1999	Heather McNeely
1999	Patty Ross
1997	Marla Bigel
1997	Jacqui Crebolder
1997	Craig Easdon
1996	Marthe Trembley (External Exam. Concordia U.) external examiner

Reader on Completed MA or MASc Thesis

<u>Academic Year</u>	<u>Student Name</u>
2020	Hanbin Go
2020	Lydia Hicks
2020	Eleenor Abraham
2019	Emilie Caron
2018	Anna Hudson
2018	Ryan Young
2017	Alex Walker
2017	Jeremy Marty-Dugas
2016	Tanor Bonin
2013	Julian Baudinet (External reviewer Sydney, Au)
2012	Paul Seli
2010	Asmaa Dabbagh
2009	Brian Garrison
2009	Grayden Solmon
2006	Nori Bradley (Kin)
2005	Chris Striemer
2003	Rupah Parakh
2002	Chris White
2000	Steve Smith
2000	Chris Oriet
1999	Karen Grattan
1999	Todd Girard
1999	Dave Westwood
1999	Karen Baker

On-going Graduate Supervision

Major Advisor to Ph.D. Thesis for (student name):

Tyler Kruger (co-supervised with Dan Smilek)

Chanel Larche

Madison Stange

## **SERVICE**

### **Professional Service:**

2020 Associate Editor– Critical Gambling studies.

In 2019 I was approached by the Responsible Gambling arm of New South Wales (Aus) to review a major review conducted by Schottler Consulting on the Design Characteristics of Electronic Gaming Machines. The review was conducted to inform policies and guidelines of EGMs in Australia (The MS I reviewed was 121 pages along with a 213 page background document).

External Reviewer for University of Toronto Scarborough, Department of Psychology, Undergraduate Programs [Mental Health Studies programs (specialist, major, and COOP) and the Psychology programs (specialist, major, and COOP) and the program in Neuroscience (specialist, major, and COOP), which is shared with Biology]. (May, 2018)

**Associate Editor:** Journal of International Gambling Studies 2013-2014)

**Ministry of Health Panel Member** (4 person team reviewing all gambling grant submissions in 2014 cycle)

### **Paper Reviews: Average of 24 per year.**

External Reviewer for Frontiers

External Reviewer for Journal of Gambling Studies

External Reviewer for International Gambling Studies

External Reviewer for Journal of Gambling Issues

External Reviewer for Nature Neuroscience

External Reviewer for Psychological Science

External Reviewer for Cognition

External Reviewer for Cognitive Neuropsychology

External Reviewer for Neuropsychologia

External Reviewer for Journal of Personality and Social Psychology

External Reviewer for International Journal of Clinical and Experimental Hypnosis

External Reviewer for Canadian Journal of Experimental Psychology

External Reviewer for Neuropsychological Rehabilitation

External Reviewer for Psychological Science

External Reviewer for Cortex

### **Grant Reviews: Average of 1 per year**

External Reviewer for Ministry of Health (Ontario)

External Reviewer for Natural Sciences and Engineering Research Council

External Reviewer for National Institute of Mental Health

External Reviewer for Fonds de la Recherche en Santé du Québec

External Reviewer for the Conseil Québécois de la Recherche Sociale

External Reviewer for the Alzheimer Society of Canada

External Review for the Premier's Research Excellence Awards

External Review for the The Leverhulme Trust (United Kingdom)

External Review for the Medical Research Council (United Kingdom)

### **Conference Organization**

**June 2004 – June 2007** Co-Organizer of TENNET an international conference on theoretical and experimental neuropsychology.

### **Symposium Organization**

**Dixon, M.J.** (2001, June). Cognitive Neuropsychological Investigations of Synaesthesia. Presenters: Peter Grossenbacher, Mike J. Dixon, Jason B. Mattingley. 12th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 12), Montréal, Québec.

**Dixon, M.J.** (2000, June). Category-Specific Deficits: Reflections from Cognitive Neuropsychology. Presenters: Daniel Tranel, Emer Forde, Alfonso Caramazza. 11th annual meeting of Theoretical and Experimental Neuropsychology (TENNET 11), Montréal, Québec.

### **Tenure and Promotion External Reviews**

Daniel McGrath (2019) Tenure and Promotion to Associate University of Calgary (Can)

Michael Atkin-Deakin (2019) Promotion to Professor, Kings College London (UK)

Barry Giesbrecht (2013) Tenure & Promotion to Associate Professor UC Santa Barbara (US)

Mike Nicholls (2010) Promotion to Professor, University of Melbourne (AUS)

Julia Simner (2010) Promotion to Reader at the University of Edinburg (Scotland)

Noam Sagiv (2010) Promotion to Senior Lecturer at the University of Brunel (U.K.)

Christopher Lovelace 2009 (Promotion to Associate Professor, University of Missouri)

Eric Odgaard 2009 (Promotion to Associate Professor, University of South Florida)

Jamie Ward 2008 (Promotion to Reader at the University of Sussex)

Mark T. Stewart 2007 (Full Professor Application - declined because I felt I was not at arm's length)

George Cree 2007 (University of Toronto - tenure assessment)

Bruce Christensen 2006 (University of Toronto - tenure assessment)

### **External Reviews for a Killam Fellowship**

Wrote a letter of recommendation for Luke Clark (2019), University of British Columbia

Wrote a letter of recommendation for Jim Enns, (2014) University of British Columbia

### **Post-doctoral Fellowship Establishment**

Worked with the director (Judith Glynn) of the Ontario Problem Gambling Research Centre to establish a Post-Doctoral Fellowship from this organization.

### **Scholarship Reviews**

Chair of the Review Panel for Ontario Graduate Scholarships 2002-2003

Chair of the Review Panel for Ontario Graduate Scholarships 2001-2002

Member of the Review Panel for Ontario Graduate Scholarships 2000

### **Textbook Reviews**

I reviewed a textbook entitled Biocognition: An Introduction by H.W. Smith

**University Service:**

Served as the only member from Arts on a University Committee assigned to restarting research May 11, to July 15<sup>th</sup>. This committee met 3 times per week.

2020 Selected from the faculty of Arts as a member involved in health research – targeted fundraising.

Twice per year we help recruit potential new students to the faculty of Arts by opening up the gambling lab for short tours (since 2016- last tour Nov 2, 2019)

Annually we conduct gambling lab for short tours for General English At Renison (last tour Feb 8<sup>th</sup>, 2020)

External Member of Director Search Committee, School of Accounting, Finance and Management (Fall 2017 – Spring 2018)

Served as an internal external reviewer for the Undergraduate Program in Pure Math, Applied Math, Combinatorics and Optimization, and Computational Mathematics (July 2016).

Faculty Level Tenure and Promotion Committee (2009-2014, 2015-2019)

Arts Faculty Council Representative for the Science Faculty Council (2009-2011)

Decanal Search Committee for Dean of Arts (2010)

Volunteer at Orientation Week Lunch (2009, 2010, 2011)

Wrote a letter of support for Suzanne Tyas informing the Department of Health Studies and Gerontology of her substantial contributions to psychology (2009).

I gave a talk at a site visit for a Chair in Scientific and Technological Literacy (2009).

The University was awarded the chair in November (beating out McGill)

PhD defense Chair - Douglas Stebila, Department of Combinatorics and Optimization. (March 5, 2009)

In October 2006, 2007, and 2008 I gave a talk on *Best Practices in Recruiting and Hiring New Faculty* for the Chairs in the Faculty of Arts.

Member of the Steering committee overseeing the creation of a centralized animal care facility. (2006 – 2008)

Served as an internal external reviewer for the Undergraduate Program in Health Studies and Gerontology (March, 2006).

**Department Service:**

Deputy Chair Duties 2020 – gathered nominations for Colin MacLeod’s University Professor Award.

Deputy Chair Duties 2019 – adjudicator in the award for Outstanding Graduate Supervision  
- Assisted Fugelsang in grad Chair issues

Occasional Acting Chair Duties, 2017-2019

(e.g., conducted interview of job candidate, meetings with external reviewers for cyclic review etc. when incumbent had other unavoidable commitments, signing docs when Heather was on holidays)

Executive Committee (2019)  
Executive Committee (2018)  
Executive Committee (2017)  
Chair Search Committee (2017)  
Acting Chair (July 1, 2015, June 30, 2016)  
Executive Committee (2014 )  
Web Site Revision Committee (2014)

Executive Committee (July 1, 2010 -2012)

Department Chair (July 1, 05 - Nov 3<sup>rd</sup>, 2007)

*Duties as Chair*

*Hiring:* Since July of 2005 I have hired Myra Fernandes, David Moscovitch, Uzma Rehman, Wendy Adair, Liz Nilsen and Britt Anderson. As chair I interviewed and offered positions to Tim Rogers, Willem Kuyken, David Dozois, Hanako Yoshida, Toni Schmader. We interviewed but did not offer positions to Jacqui Martin, Jennifer Tackett, Patricia Ganea, Craig Neuman, Russell Johnson.

In 2015-16 Instituted formal Mentoring Program in response to 7-year review.

*Faculty, Student and Staff Awards for which I wrote nominations or helped with applications*

- Geoff Fong wins Excellence in Arts Research award (2016)
- Janice Da Silva wins Excellence in Arts Service Award (2016)
- Joanne Wood wins Excellence in Arts Research award (2016)
- Jonathan Fugelsang wins Excellence in Arts Teaching award (2016)
  
- Evan Risko wins Alumni Gold Medal (2006, 2008)
- Myra Fernandes (wins Early Researcher Award 2008)
- Dan Smilek wins Early Researcher Award (2007)
- Erik Woody wins distinguished teacher award (2006)
- James Danckert wins Early Researcher Award (2006)
- Brandon Wagar wins Governor General's Gold Medal (2006)

*Canada Research Chairs and Canada Foundation for Innovation on which I worked*

Roxane Itier – CRC/CFI (2009)  
James Danckert – CRC (renewal) 2007, CFI awarded 2007  
David Moscovitch – CRC 2006, CFI 2006  
Christine Purdon, Erik Woody and Jonathan Oakman CFI (LOF) 2006  
Grainne Fitzsimons – CRC 2005, CFI 2005

*Renewals for Second Probationary Period*

Evan Risko 2016  
Jennifer LaGuardia, Daniel Heller, 2005 Dan Smilek 2006, Ori Friedman, Grainne Fitzsimons, Aaron Kay, Jon Fugelsang 2008

*Tenure Cases*

Katherine White - 2016  
James Danckert - 2006



*Promotion to Full Professor*

Dan Smilek - 2016  
Ori Friedman – 2016  
Jonathan Fugelsang 2016  
Jennifer Stolz, Steve Spencer – 2007  
Geoff Fong, Derek Koehler – 2006

*New Centres and Laboratories*

Centre for Mental Health Research (2006)  
Laboratory for Collaborative Virtual Environments (2006)

Service as Department Member

Division Head (Cognitive Neuroscience Division) Sep 2013 – July 2014  
Division Head (Behavioural Neuroscience Division, July 1 04 – June 30, 2005)  
Deputy Chair (July 1, 2002 – July 1, 2003)  
Member of the Executive Committee, 1998/99, 99/00, 00/01 01/02, 02/03, 04/05, 10/11  
Member of the Chair Search Committee 1999/ 00 02/03, 04/05  
Member of the Salary, Tenure and Promotion Committee, May 2002 – June 2003  
Chair of the Space committee (July 2002 – June 2003)

Department Promotion

Dixon, M.J. (2018, April). The deceptive allure of modern slot machines and scratch cards. Invited lecture Extended Learning Opportunities for retired persons, Erin, Ontario.

Dixon, M.J. (2018, April). When five plus two equals yellow: The colourful world of the synaesthetic mind. Invited lecture Extended Learning Opportunities for retired persons, Erin, Ontario.

Dixon M. (2005, April). How the brain perceives the world around us. Lecture given to Wellington Heights High School students, promoting Psychology and Behavioural Neuroscience.

Dixon M. (2005, April). Roses are red and Sixes are blue: The basics of grapheme colour synaesthesia. Presentation for the Cognitive Science Club, University of Waterloo.

**UW Promotion/ Knowledge Mobilization/Policy Changes**

*Gambling Lab*

1. Podcast for 20,000 Hz (CBC, NPR) on the sounds of slot machines (2018)
2. Madison Stange wins Alumni Gold Medal (M.A. level, 2017)
3. Relation between Slot machines addiction and aspects of social media (e.g. Like buttons), El Mercurio (Main Newspaper in Chile)
4. Conducted text interview for MarketWatch on Losses disguised as wins – readership of 17 million (in 2017)
5. Stephanie Chu wins honours thesis award for study on near-misses. Also awarded Department of Psychology's Outstanding Academic Achievement Award, and Alumni Gold medal 2014
6. Our research on losses disguised as wins has been featured on 60 Minutes (see “The Big Gamble” <http://www.cbsnews.com/video/watch/?id=7228424n>)

7. An article in the Washington Post featured our work on the role of sounds in slot machine play
  - a. “Slot machine sounds can manipulate players, researchers say” - variations of this article appeared in outlets around the world (e.g., Daily Mail in UK; The Japan Times, Science Daily).
8. I was quoted in an article in the New York Times “The Steely, Headless King of Texas Hold’Em” Sep 5<sup>th</sup> 2013. The quote (my personal favourite), as can be seen below
  - i. “Gamblers continually overestimate their abilities,” says Mike Dixon, a psychology professor at the University of Waterloo in Ontario with a specialization in gambling. “It’s like hitting a half-court shot occasionally and thinking it makes you into Carmelo Anthony.”
9. Our research on the role of slot machine sounds was featured in Daily Health News – “These Sounds Play Tricks On Us”, Oct 1<sup>st</sup> 2013. This outlet has a readership of 750,000.
10. Our paper on slot machine sounds was Exhibit 2 in State of Alabama v. PCI Gaming Authority, 2013. <http://www.nigc.gov/Portals/0/NIGC%20Uploads/Tribal%20Consultation/EOTBS/SOAOOTAGEOTBS.pdf>
11. This research has resulted in policy changes in Tasmania, Australia that ban losses disguised as wins (Subsection T3.15 of the Australian and New Zealand Gaming Machine National Standard-Tasmanian Appendix Version 10.01 – *“if the net win of a play is less than the total credit bet any audible affirmation associated with the win will be subject to close regulatory scrutiny, and any display of “congratulatory” messages is prohibited”*).
12. My graduate student Candice Jensen was awarded the **best poster presentation** at an international gambling meeting in Banff, beating out professors and other graduate students from North America and Europe.
13. Our research implicating frustration as a key mechanism behind near-miss effects was awarded the **best oral presentation** at an international gambling meeting in Banff.
14. Our Losses Disguised as Wins work is featured in an Australian Ad campaign warning people of the dangers of slot machines (see the poster on the right in the following link) <http://www.pokermachinesharmwhittlesea.org/target-80-million.html>
  - a. Other Knowledge Mobilization
    - i. Hosted an Information session for Counselors from the Homewood Health Centre (November, 2009)
    - ii. The 27 employees of the YMCA’s Youth Gambling Awareness Program (YGAP) in Ontario and Nova Scotia. (September, 2009)
    - iii. Members of the Waterloo Region Action Group on Gambling Issues (WRAGGI, wraggi.com). (June, 2009)
    - iv. 7 members of a sorority group doing volunteer work in the community (October, 2009)
15. We were also able to give a tour of the lab to members from the Alcohol and Gaming Commission of Ontario (AGCO) and the OPGRC. (November, 2009)

### *Synaesthesia*

Our synaesthesia research has received a great deal of press for the University of Waterloo. Features have appeared in: Time Magazine, The Washington Post (U.S), The Daily Telegraph (U.K.), The National Post (Canada), The Vancouver Sun, The Toronto Star, as well as other newspapers in Europe and Japan. Features

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also appeared in The Economist, the APA Monitor and the Smithsonian Magazine. Radio Interviews were conducted internationally on BBC radio 1, (UK), and National Public Radio, (U.S.) as well as on more local stations (AM 800 Windsor). Finally a television interview was conducted for CKCO TV (2001) and a special feature on our work on Synaesthesia was produced for the Discovery Channel. In 2006, I did a science piece for American T.V. news (Ivanhoe Productions) that appeared in 2007. I have given invited presentations on synaesthesia all over the world, (e.g., U.K., Australia, Italy, Spain, U.S.)

**In 2007 Our work on synaesthesia was numbered among the Top Discoveries at the University of Waterloo.**