

Curriculum Vitae

Matthew Robert Graham Brown, PhD

January 25, 2019

Founder, Puzzle Rock Coding Inc.
Canmore, Alberta, Canada
mbrown@puzzlerockcoding.com
<http://puzzlerockcoding.com>

Co-founder, RETAIN Labs Medical Incorporated
Edmonton, Alberta, Canada

Chief Technical Officer and Member of Board of Directors, Innovate Canmore
Canmore, Alberta, Canada
<https://www.innovatecanmore.com/>

Adjunct Professor, Dept. Computing Science
University of Alberta
Edmonton, Alberta, Canada
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<http://www.ualberta.ca/~mbrown2>

Positions Held and Education

Co-founder	- RETAIN Labs Medical Incorporated (January 2019 - present)
Director and CTO	- Innovate Canmore (April 2018 - present)
Entrepreneur (founder)	- Puzzle Rock Coding Inc. (August 2017 - present)
Consultant	- Website building, data analysis, application development (April 2017 - present)
Adjunct Professor	- Dept. Computing Science, University of Albert (July 2015 - present)
Research Associate	- Dept. of Psychiatry, University of Alberta (July 2013 - March 31, 2017)
Postdoctoral Fellow	- Dept. of Psychiatry, University of Alberta (2009 - June 2013)
Postdoctoral Fellow	- Dept. of Computing Science & Cross Cancer Institute, University of Alberta (2007 - 2008)
Ph.D. Neuroscience	- University of Western Ontario (2003 - 2007)
M.Sc. Neuroscience	- University of Western Ontario (2001 - 2003)
B.Sc. Honours Neuroscience	- University of Alberta (1997 - 2001)

Academic Experience & Skills

Scientific Project Management

- experience as project manager on 7 large research projects

Scientific Grant Writing

- successful applications to CIHR, AIHS, Norlien Foundation, Pfizer

Co-supervisor

- 6 graduated MSc students, 1 graduated PhD student, 1 current MSc student, 4 current PhD students

Computer Programming and Scientific Analysis

- programming languages: Clojure, Python, Matlab, C/C++, R, Lisp
- techniques: machine learning, image and signal processing, advanced statistics

Scientific Reviewer

- Frontiers in Systems Neuroscience, NeuroImage, Experimental Brain Research, International Joint Conference on Artificial Intelligence (IJCAI)

Co-instructor at University of Alberta

- Winter 2017, CMPUT 605: Individual Studies
- Fall 2013, CMPUT605: Individual Studies
- Fall 2008, CMPUT 651: Probabilistic Graphical Models

Teaching Assistant at University of Western Ontario

- 2002 to 2006, Physiology 471: Honours Physiology of the Senses
- 2001 to 2002, Psychology 023: Honours Introductory Psychology

Supervision (co-supervisor)

Graduated

Manoj Malik - graduated 2019 PhD in Psychiatry, University of Alberta
Ericson Dametto - graduated 2016 PhD in Psychiatry, University of Alberta
Roberto Vega - graduated 2016 MSc in Computing Science, University of Alberta
Bhaskar Sen - graduated 2015 MSc in Computing Science, University of Alberta
Thórey Maríusdóttir - graduated 2015 MSc in Computing Science, University of Alberta
Sina Ghiassian - graduated 2014 MSc in Computing Science, University of Alberta
Gagan Sidhu - graduated 2012 MSc in Computing Science, University of Alberta
Maysam Heydari - graduated 2009 MSc in Computing Science, University of Alberta

Current students

Roberto Vega - PhD student in Computing Science, University of Alberta

Reyhaneh Ghoreishiamiri - MSc student in Computing Science, University of Alberta
James Benoit - PhD student in Psychiatry, University of Alberta
Michal Juhas - PhD student in Psychiatry, University of Alberta

Honours undergraduate and summer students

Amelia Gillese - 2011-2012, Dept. Psychiatry, University of Alberta
Pearl Tan - 2012, Dept. Psychiatry, University of Alberta
Kelly Zerr - 2013-2014, Dept. Psychiatry, University of Alberta
Tiffanie Tse - 2015, Dept. Psychiatry, University of Alberta
Daniel Ta - 2015, Dept. Psychiatry, University of Alberta
JeeSu Su - 2015-2016, Dept. Psychiatry, University of Alberta
Jennifer Yuen - 2016, Dept. Computing Science, University of Alberta
Yiji Zhao- 2016, Dept. Computing Science, University of Alberta
Ronghao Yang - 2016, Dept. Computing Science, University of Alberta

Grants

Grants Held as Primary Investigator

Deep Learning Applications in Structural and Functional MRI, Funder: NSERC, Role: primary investigator, \$150,000, 2018-2023

Grants Held as Co-investigator

Prediction of Individual Treatment Response Based on Brain Changes in the Early Phase of Antidepressant Treatment, Funder: Pfizer, Role: co-investigator, PI: Rajamannar Ramasubbu, \$99,822 in 2013-2015

fMRI of Impulse Control Related to Substance-addiction and Risk-taking Tendencies, Funders: Norlien Foundation & Women and Children's Health Research Institute, Role: co-investigator, PI: Serdar Dursun, \$75,000 in 2010-2013

Other Grants

(I made critical contributions to these successful grant applications but was not listed as an investigator because they included salary funds for myself.)

Digital speech analysis: prediction and differential diagnosis of PTSD symptoms and severity, Funder: IBM, PI: Russell Greiner, \$200,000 in 2018-2020

The health effects of the Alberta wildfire and evacuation: Pediatric resiliency, Competition: Operating Grant: Health Effects of the Alberta Wildfires, Funder: CIHR, PI: Peter Silverstone, \$500,000 in 2016-2018

Diagnostics and Prognostics for Alzheimer's Disease and Related Dementias: Machine Learning Analysis of Existing Neuroimaging Datasets, Funder: CIHR, PI: Serdar Dursun, \$99,900 in 2013-2016

Dysfunctional neuronal networks in alcoholism: Utilizing translational neuroimaging to identify altered brain connectivity and treatment efficacy predictors, Funder: CIHR, PI: Serdar Dursun, \$201,916 in 2011-2014

Patient Specific fMRI-based Psychiatric Diagnosis and Treatment, Funder: Alberta Innovates Centre for Machine Learning internal funding, PI: Russell Greiner, \$117,636 in 2010-2016

Risk Seeking for Gains: A potential new psychological mechanism for gambling, Funder: Alberta Gaming Research Institute, PI: Marcia Spetch, \$153,746 in 2012-2013

fMRI biomarkers for high-risk behaviour tendencies, Funder: University of Alberta Hospital Foundation, PI: P Silverstone, \$39,400 in 2011-2012

Invited Talks

“Introduction to Machine Learning and Clinical Applications” Sao Paulo – Alberta Brainhack, UNICAMP, Campinas, Brazil Oct. 2018.

“Recent technical developments in AI potential for health care applications” Shanghai Forum 2018, Shanghai, People’s Republic of China, May 2018.

“Analysis of 3D and 4D Data” Computational Neuroscience Workshop, Lethbridge, Alberta, June. 2015.

“Dragon’s Den” presentation, Alberta Ingenuity Fund’s Ingenuity in the Community Gala, Edmonton, Alberta, Jan. 2008.

Scholarly Publications

Peer-reviewed Publications

Cutumisu M, Patel S, **Brown MRG**, Fray C, von Hauff P, Jeffery T, Schmolzer G (2019) RETAIN: A board game that improves neonatal resuscitation knowledge retention. *Frontiers in Pediatrics - Neonatology* (in press). DOI: 10.3389/fped.2019.00013.

Kalmady SV, Greiner R, Agrawal R, Shivakumar V, Narayanaswamy JC, **Brown MRG**, Greenshaw AJ, Dursun SM, Venkatasubramanian G (2019) Towards artificial intelligence in mental health by improving schizophrenia prediction with multiple brain parcellation ensemble-learning. *NPJ Schizophrenia* 2019 Jan 18;5(1):2. doi: 10.1038/s41537-018-0070-8.

Brown MRG, Agyapong V, Greenshaw AJ, Cribben I, Brett-MacLean P, Drolet J, McDonald-Harker C, Omeje J, Mankowski M, Noble S, Kitching D, Silverstone PH (2019) After the Fort McMurray wildfire there are significant increases in mental health symptoms in grade 7-12 students compared to controls. *BMC Psychiatry* 2019 Jan 10;19(1):18. doi: 10.1186/s12888-018-2007-1.

Agyapong VIO, Hrabok M, Juhas M, Omeje J, Denga E, Nwaka B, Akinjise I, Corbett SE, Moosavi S, **Brown M**, Chue P, Greenshaw AJ, Li XM (2018) Prevalence rates and predictors of generalized anxiety disorder symptoms in residents of Fort McMurray six months after a wildfire. *Frontiers in Psychiatry* 2018 Jul 31;9:345. doi: 10.3389/fpsy.2018.00345.

Sen B, Borle NC, Greiner R, **Brown MRG** (2018) A general prediction model for the detection of ADHD and Autism using structural and functional MRI. *PLoS One* 2018 Apr 17;13(4): e0194856. doi: 10.1371/journal.pone.0194856. eCollection 2018.

Gheiratmand M, Rish I, Cecchi GA, **Brown MRG**, Greiner R, Plosecki PI, Bashivan P, Greenshaw AJ, Ramasubbu R, Dursun SM (2017) Learning stable and predictive network-based patterns of schizophrenia and its clinical symptoms. *NPJ Schizophrenia (a Nature Research Journal)* 3: 22. doi:10.1038/s41537-017-0022-8.

Gheiratmand M, Rish I, Cecchi G, **Brown M**, Greiner R, Bashivan P, Plosecki P, Dursun S (2017) Learning Discriminative Functional Network Features of Schizophrenia. *Proc. SPIE 10137, Medical Imaging 2017: Biomedical Applications in Molecular, Structural, and Functional Imaging*, 10137A. Doi: 10.1117/12.2264102.

Liang S, **Brown MRG**, Deng W, Wang Q, Ma X, Li M, Hu X, Juhas M, Li X, Greiner R, Greenshaw AJ, Li T (2017) Convergence and divergence of neurocognitive patterns in schizophrenia and depression. *Schizophrenia Resesearch*, Jun 23. pii: S0920-9964(17)30332-8. doi: 10.1016/j.schres.2017.06.004.

Juhás M, Sun H, **Brown MR**, MacKay MB, Mann KF, Sommer WH, Wilman AH, Dursun SM, Greenshaw AJ (2017) Deep grey matter iron accumulation in alcohol use disorder. *Neuroimage* 148:115-122. March 2017 Mar, doi: 10.1016/j.neuroimage.2017.01.007.

Suen V, **Brown MRG**, Morck RK, Cribben I, Silverstone PH (2017) Risk tolerance, impulsivity, and self-esteem: Differences and similarities between gamblers and non-gamblers in a pilot study. *Advances in Social Sciences Research Journal* 4(4), doi: dx.doi.org/10.14738/assrj.44.2064.

Ghiassian S, Greiner R, Jin P, **Brown MRG** (2016) Using functional or structural magnetic resonance images and personal characteristic data to diagnose ADHD and autism. *PLoS One* 11(12):e0166934. doi: 10.1371/journal.pone.0166934.

Liang S, Deng W, Wang Q, Ma X, Li M, **Brown MRG**, Hu X, Li X, Greenshaw AJ, Li T (2016) Performance of verbal fluency as an endophenotype in patients with familial versus sporadic Schizophrenia and their parents. *Scientific Reports* 6:32597, Sept. 2016. doi: 10.1038/srep32597.

SHARED FIRST AUTHORSHIP: Ramasubbu R, **Brown MR**, Cortese F, Gaxiola I, Goodyear B, Greenshaw AJ, Dursun SM, Greiner R (2016) Accuracy of automated classification of major depressive disorder as a function of symptom severity. *NeuroImage Clinical* 12:320-31. July 2016. doi: 10.1016/j.nicl.2016.07.012.

Suen VYM, **Brown MRG**, Cribben I, Morck RK, Silverstone PH (2016) Frequent sub-threshold gamblers display unique pattern of brain activation during investment decision-making task. *Journal of Psychiatry and Mental Health* 1(1), doi: http://dx.doi.org/10.16966/jpmh.104.

Chenji S, Awon D, **Brown M**, Silverstone P, Dennell, Kalra S (2016) Investigating Default Mode and Sensorimotor Network Connectivity in Amyotrophic Lateral Sclerosis. *PLoS One* 11(6):e0157443, June 2016. doi: 10.1371/journal.pone.0157443.

Brown MRG, Benoit JRA, Juhás M, Dametto E, Tse TT, MacKay M, Sen B, Carroll AM, Hodlevskyy O, Silverstone PH, Dolcos F, Dursun SM, Greenshaw AJ (2015) fMRI investigation of response inhibition, emotion, impulsivity, and clinical high-risk behaviour in adolescents. *Frontiers in Systems Neuroscience* 9:124, Sept. 2015. doi: 10.3389/fnsys.2015.00124

Maríusdóttir T, Bulitko V, **Brown MRG** (2015) Maximizing flow as a metacontrol in Angband. In *Proceedings of the Eleventh AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE)*. Nov. 2015.

Brown MRG, Benoit JR, Juhás M, Lebel RM, MacKay M, Dametto E, Silverstone PH, Dolcos F, Dursun SM, Greenshaw AJ (2015) Neural correlates of high-risk behaviour tendencies and impulsivity in an emotional Go/NoGo fMRI task. *Frontiers of Systems Neuroscience* 9:24. Published online. doi: 10.3389/fnsys.2015.00024

Dudek M, Abo-Ramadan U, Hermann D, **Brown M**, Canals S, Sommer WH, Hyttia P (2014) Brain activation induced by voluntary alcohol and saccharin drinking in rats assessed with manganese-

enhanced magnetic resonance imaging. *Addiction Biology*, 20(6): 1012-1021.
doi:10.1111/adb.12179.

Suen VY, **Brown MR**, Morck RK, Silverstone PH (2014) Regional brain changes occurring during disobedience to "experts" in financial decision-making. *PLoS One*, Jan. 2014, 9(1):e87321. doi: 10.1371/journal.pone.0087321.

Cenkner A, Bulitko V, Spetch M, Legge E, Anderson C, **Brown M** (2013) Passing a Hide and Seek Third-Person Turing Test. *IEEE Transactions on Computational Intelligence and AI in Games*. PP(99). Pages 13. doi: 10.1109/TCIAIG.2013.2275162.

Bulitko V, **Brown M** (2012) Flow maximization as a guide to optimizing performance: A computational model. *Advances in Cognitive Systems*, Dec. 2012, 2: 239-256.

Sidhu GS, Asgarian N, Greiner R, **Brown MRG** (2012) Kernel Principal Component Analysis for dimensionality reduction in fMRI-based diagnosis of ADHD. *Frontiers of Systems Neuroscience*, Nov. 2012, doi: 10.3389/fnsys.2012.00074.

Brown MRG, Sidhu GS, Greiner R, Asgarian N, Bastani M, Silverstone PH, Greenshaw AJ, Dursun SM (2012) ADHD-200 Global Competition: diagnosing ADHD using personal characteristic data can outperform resting state fMRI measurements. *Frontiers of Systems Neuroscience*, Sept. 2012, doi: 10.3389/fnsys.2012.00069.

Brown MR, Lebel RM, Dolcos F, Wilman AH, Silverstone PH, Pazderka H, Fujiwara E, Wild TC, Carroll AM, Hodlevskyy O, Zedkova L, Zwaigenbaum L, Thompson AH, Greenshaw AJ, Dursun SM (2012) Effects of emotional context on impulse control. *NeuroImage*, Oct. 2012, 63(1): 434-446.

Legge ELG, Spetch ML, Cenkner A, Bulitko V, Anderson C, **Brown MRG**, Heth D (2012) Not all locations are created equal: Exploring how adults hide and search for objects. *PLoS ONE*, May 2012, 7(5): e36993. doi:10.1371/journal.pone.0036993

Lee CH, Wang S, **Brown MRG**, Murtha A, Greiner R. (2008) Segmenting brain tumors using pseudo-conditional random fields. *Medical Image Computing and Computer Assisted Intervention*, 11(1): 359-66.

Brown MRG, Vilis T, Everling S. (2008) Isolation of saccade inhibition processes: Rapid event-related fMRI of saccades and nogo trials. *NeuroImage*, Jan. 2008, 39(2): 793-804.

Brown MRG, Vilis T, Everling S. (2007) Frontoparietal activation with preparation for antisaccades. *Journal of Neurophysiology*, Sept. 2007, 98(3): 1751-1762.

Brown MRG, Goltz HC, Vilis T, Ford KA, Everling S. (2006) Inhibition and generation of saccades: Rapid event-related fMRI of prosaccades, antisaccades, and nogo trials. *NeuroImage*, Nov. 2006, 33(2): 644-659.

Ford KA, Goltz HC, **Brown MRG**, Everling S. (2005) Neural processes associated with antisaccade task performance investigated with event-related fMRI. *Journal of Neuro-physiology*, July 2005, 94(1): 429-440.

Brown MRG, Desouza JFX, Goltz HC, Ford K, Menon RS, Goodale MA, Everling S. (2004) Comparison of memory- and visually guided saccades using event-related fMRI. *Journal of Neurophysiology*, Feb. 2004, 91(2): 873-889.

Wylie DRW, **Brown MR**, Winship IR, Crowder NA, Todd KG. (2003) Zonal organization of the vestibulocerebellum in pigeons (*Columba livia*): III. projections of the translation zones of the ventral uvula and nodulus. *Journal of Comparative Neurology*, Oct. 2003, 465(2): 179-194.

Wylie DRW, **Brown MR**, Barclay RR, Winship IR, Crowder NA, Todd KG. (2003) Zonal organization of the vestibulocerebellum in pigeons (*Columba livia*): II. projections of the rotation zones of the flocculus. *Journal of Comparative Neurology*, Feb. 2003, 456(2): 140-153.

Conference Abstracts

(equivalent to computing science workshops)

Brown MRG (2015) Machine learning / artificial intelligence for clinical diagnosis and prognosis. SGGRIMS Symposium 2015, Dehradun, India.

Brown MRG, Juhas M, MacKay M, Benoit J, Gillese JT, Dametto E, Aubry A, Walmsley G, Blackburn B, King C, Urichuk L, Loowell M, Dursun SM, Greenshaw AJ (2014) Relationships between MR brain imaging connectivity measures and recovery from alcohol dependence. ISBRA/RSA Joint Congress 2014, Bellevue Washington.

Brown MRG, Greenshaw AJ, Juhas M, MacKay M, Benoit J, Gillese JT, Dametto E, Aubry A, Walmsley G, Blackburn B, King C, Urichuk L, Loowell M, Dursun SM (2014) Alcohol use disorder: structural and functional brain changes in abstinence and effects of naltrexone. CINP World Congress of Neuropsychopharmacology 2014, Vancouver, BC.

Benoit J, Shafer A, **Brown M**, Greenshaw A, Dursun S, Vohra S, Dolcos F, Singhal A (2014) White matter deficits in high-risk adolescents: Findings from DTI. CINP World Congress of Neuropsychopharmacology 2014, Vancouver, BC.

Juhas M, **Brown M**, MacKay M, Benoit J, Gillese T, Dametto E, Aubry A, Walmsley G, Blackburn B, King C, Urichuk L, Loowell M, Dursun S, Greenshaw A (2014) Magnetic resonance imaging of changes in resting state brain connectivity during recovery from alcohol use disorder. CINP World Congress of Neuropsychopharmacology 2014, Vancouver, BC.

Benoit JR, Shafer A, **Brown M**, Dametto E, Greenshaw A, Dursun S, Vohra S, Dolcos F, Singhal A (2014) White matter deficits in high-risk adolescents: Findings from DTI. CCNP Annual Meeting 2014. Banff, AB

Benoit J, Shafer AT, **Brown MRG**, Greenshaw AJ, Dursun SM, Vohra S, Dolcos F, Singhal A (2014) Imaging high-risk adolescents: assessing myelin deficits with diffusion tensor imaging. Psychiatry Research Day 2014, University of Alberta, Edmonton, Canada.

Brown MRG, Benoit J, Juhas M, Lebel RM, Carroll AM, Dolcos F, Fujiwara F, Hodlevskyy O, Pazderka H, Silverstone PH, Wild RC, Wilman AH, Dursun SM, Greenshaw AJ (2014) Risk tendency, impulsivity, and response inhibition in emotional contexts investigated with fMRI. Organization for Human Brain Mapping Annual Meeting 2014, Hamburg, Germany.

Brown M, Dursun S, Greenshaw A, Benoit J, Juhas M, Carroll A, Hodlevskyy O, Silverstone P, Pazderka H, Dolcos F, Wild C, Fujiwara E, Tan P, Agnihotri K (2013) Understanding high risk behaviour in adolescents and young adults with brain imaging. Norlien Foundation's Accelerating Innovation Symposium 2013, Edmonton, Ab.

Suen V, **Brown MRG**, Morck RK, Silverstone PH (2013) Neurobiological differences elicited when gamblers and non-gamblers are offered advice in financial decision-making. Society for Neuroscience Annual Meeting, San Diego, Cal.

Brown M, Dursun S, Greenshaw A, Greiner R, Silverstone P, Wilman A, Aitchison K, Beaulieu C, Carroll A, Dolcos F, Fujiwara E, Gillese T, Pazderka H, Purdon S, Sidhu G, Thompson A, Wild C, Zwaigenbaum L, Zedkova L (2012) fMRI brain scanning for improved mental health. Norlien Foundation's Recovery from Addiction Symposium 2012, Banff, Ab.

Brown MRG (2012) fMRI-based diagnostics and prognostics for psychiatric illness. AIHS Making Connections Conference 2012, Jasper, Ab.

Brown M, Dursun S, Greenshaw A, Greiner R, Silverstone P, Wilman A, Aitchison K, Beaulieu C, Carroll A, Dolcos F, Fujiwara E, Gillese T, Pazderka H, Purdon S, Sidhu G, Thompson A, Wild C, Zwaigenbaum L, Zedkova L (2012) fMRI brain scanning for improved mental health. Norlien Foundation's Early Brain & Biological Development Symposium 2012, Banff, Ab.

Brown MRG, Greenshaw AJ, Gillese JT, Aitchison KJ, Dursun SM (2012) fMRI of impulse control, addiction, and high risk behaviour. European Winter Conference on Brain Research 2012. Villars sur Ollon, Switzerland.

Brown MRG, Dursun SM, Wilman A, Greenshaw AJ (2011) fMRI investigations of interactions between impulse control and emotional context. Organization for Human Brain Mapping Annual Meeting 2011, Quebec City, Qc.

Brown MR, Greenshaw AJ, Dursun SM, Wilman A, Beaulieu C, Carroll A, Hodlevskyy O, Dolcos F, Fujiwara E, Wild C (2011) MRI investigations of alcoholism and addiction. European Winter Conference on Brain Research 2011, Les Deux Alpes, France.

Brown MR, Greenshaw AJ, Dursun SM (2010) fMRI of impulse control in the presence of emotional distractor images. CCNP-008. CAN/CCNP Joint Conference 2010, Ottawa, On.

Brown MR, Dursun SM, Greenshaw AJ. (2009) Non-linearity and trial counterbalancing in rapid functional magnetic resonance imaging. 198.7 Society for Neuroscience Annual Meeting, Chicago, IL.

Brown MR, Vilis T, Everling S. (2007) Saccade inhibition: Rapid event-related fMRI of saccades and nogo trials. Society for Neuroscience Annual Meeting, San Diego, Cal.

Brown MR, Vilis T, Everling S. (2006) Prosaccade and antisaccade instruction differences investigated with rapid event-related fMRI. 48.21 Society for Neuroscience Annual Meeting, Atlanta, GA.

Brown MRG, Goltz HC, Vilis T, Ford KA, Everling S. (2005) Rapid event-related fMRI of prosaccades, antisaccades, and nogo trials. 167.10 Society for Neuroscience Annual Meeting, Washington, D.C.

Ford KA, Levin HM, **Brown MR**, Everling S. (2005) Neural circuitry underlying anti-saccade task performance in humans and monkeys investigated with fMRI. 166.10 Society for Neuroscience Annual Meeting, Washington, D.C.

Brown MRG, Goltz HC, Vilis T, Ford KA, Everling S. (2005) Fast event-related fMRI of prosaccades, antisaccades, and nogo trials. TK-128 13th European Conference on Eye Movements, Bern, Switzerland.

Brown MRG, Desouza JFX, Ford K, Goltz HC, Goodale MA, Everling S. (2004) Cortical connectivity for memory- versus visually guided saccades. 991.8 Society for Neuroscience Annual Meeting, San Diego, California.

Ford KA, Goltz HC, **Brown MR**, Everling S. (2004) A distributed frontal cortical network for saccade suppression. 313.14 Society for Neuroscience Annual Meeting, San Diego, California.

Cavina Pratesi C, Valyear KF, Obhi SS, **Brown MR**, Marzi C, Goodale MA. (2004) Neural correlates of preparatory set: response selection versus movement planning. 202.12 Society for Neuroscience Annual Meeting, San Diego, California.

Brown MRG. (2004) Fast event-related fMRI of saccadic eye movements. CIHR Group for Action and Perception Annual Retreat, London, On.

Brown MRG, DeSouza JFX, Ford K, Goltz HC, Menon R, Goodale MA, Everling S. (2003) Neural correlates for memory- and visually guided saccades investigated with event-related fMRI. 12th European Conference on Eye Movements, Dundee, Scotland, U.K.

Brown MRG, Desouza JFX, Ford K, Goltz HC, Goodale MA, Everling S. (2002) Comparison of memory- and visually guided saccades using event-related fMRI. Society for Neuroscience Annual Meeting, Orlando, Florida.

Brown MRG. (2001) fMRI study of delayed saccades: Circuitry for visual vs. memory-guided saccades. CIHR Group for Action and Perception Annual Retreat, London, On.

Brown MRG, Winship I, Wong-Wylie DR. (2001) Zonal innervation of vestibular and cerebellar nuclei by translation-sensitive Purkinje cells in the vestibulocerebellum of the pigeon (*Columba livia*). Tenth Canadian Spring Conference on Behaviour and Brain, Fernie, B.C.