Curriculum Vitae

# Matthew Robert Graham Brown, PhD

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Adjunct Professor, Dept. Computing Science
University of Alberta
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Owner and Consultant, Puzzle Rock Coding Inc.
Canmore, Alberta, Canada
mbrown@puzzlerockcoding.com
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Co-founder, RETAIN Labs Medical Inc.
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## *Positions Held and Education*

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| Co-founder | – RETAIN Labs Medical Inc. (2018–present) |
| Owner, Technical Consultant | – Puzzle Rock Coding Inc. (2017–present) |
| Adjunct Professor | – Dept. Computing Science, University of Albert (2015–present) |
| Vice President of Data Science | – Zylorion Health (2021–2023) |
| Co-founder | – DynaGenium Bioimplants Inc. (2019–2022) |
| Member, Board of Directors | – Innovate Canmore (2018–2020) |
| Research Associate | – Dept. of Psychiatry, University of Alberta (2013–2017) |
| Postdoctoral Fellow | – Dept. of Psychiatry, University of Alberta (2009–2013) |
| 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 8 large research projects

Scientific Grant Writing
- successful applications to NSERC, CIHR, AIHS, Norlien Foundation, Pfizer

Co-supervisor
- 7 graduated MSc students, 4 graduated PhD students

Computer Programming and Scientific Analysis
- programming languages: Clojure, Python, Matlab, C/C++, Java, JavaScript 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
- 2016 – 2022, BME 510: Neuroimaging in Neuroscience
- Winter 2017, CMPUT 605: Individual Studies
- Fall 2013, CMPUT 605: 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*

Michal Juhas - graduated 2021 PhD student in Psychiatry, University of Alberta
Joshua Sirota - graduated 2019 MSc student in Computing Science, University of Alberta
James Benoit - graduated 2019 PhD in Psychiatry, University of Alberta
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*
Zehra Shah - PhD student in Computing Science, University of Alberta
Jeffrey Sawalha - PhD student in Psychiatry, University of Alberta
Bahareh Behroozi Asl - MSc student in Neuroscience, University of Alberta
Kim Ngan Hoang - MSC student in Neuroscience, University of Alberta

*Honours undergraduate and summer students*
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
JeeSu Su - 2015-2016, Dept. Psychiatry, University of Alberta
Daniel Ta - 2015, Dept. Psychiatry, University of Alberta
Tiffanie Tse - 2015, Dept. Psychiatry, University of Alberta
Kelly Zerr - 2013-2014, Dept. Psychiatry, University of Alberta
Pearl Tan - 2012, Dept. Psychiatry, University of Alberta
Amelia Gillese - 2011-2012, Dept. Psychiatry, University of Alberta

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## ***Grants***

*Grants Held as Primary Investigator*

Deep Learning Applications in Structural and Functional MRI, Funder: NSERC, Role: primary investigator, $170,000, 2018-2025

*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.)

Multi-modal Motion-Assisted Memory Desensitization and Reconsolidation (3MDR) with Essential Service Providers: Treating Moral Injuries Sustained in the Course of Service – Phase 2, Funder: Innovation for Defence Excellence and Security (IDEaS), Department of National Defence, Canada, PI: Suzette Brémault-Phillips, $1,000,000 in 2022-2023

Digital speech analysis: prediction and differential diagnosis of PTSD symptoms and severity, Funders: IBM and MITACS, PI: Russell Greiner, $205,000 in 2019-2021

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

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***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*

Jones C, Smith-MacDonald L, **Brown MRG**, VanDehy J, Grunnet-Jepsen R, Ordek VP, Kruger S, Ayres Gerhart A, van Veelen N, Nijdam MJ, Burback L, Cao B, Roy MJ, Sessoms P, Vermetten E, Brémault-Phillips S (2022) The Redesign and Validation of Multimodal Motion-Assisted Memory Desensitization and Reconsolidation Hardware and Software: Mixed Methods, Modified Delphi-Based Validation Study. JMIR Hum Factors. 2022 Jul 12;9(3):e33682. doi: 10.2196/33682.

Jones C, Miguel Cruz A, Smith-MacDonald L, **Brown MRG**, Vermetten E, Brémault-Phillips S (2022) Technology Acceptance and Usability of a Virtual Reality Intervention for Military Members and Veterans With Posttraumatic Stress Disorder: Mixed Methods Unified Theory of Acceptance and Use of Technology Study. JMIR Form Res. 2022 Apr 21;6(4):e33681. doi: 10.2196/33681.

Jones C, Smith-MacDonald L, **Brown MRG**, Pike A, Vermetten E, Brémault-Phillips S (2022) Quantitative changes in mental health measures with 3MDR treatment for Canadian military members and veterans. Brain Behav. 2022 Aug;12(8):e2694. doi: 10.1002/brb3.2694.

Hamilton T, Burback L, Smith-MacDonald L, Jones C, **Brown MRG**, Mikolas C, Tang E, O'Toole K, Vergis P, Merino A, Weiman K, Vermetten EHGJM, Brémault-Phillips S. (2021) Moving Toward and Through Trauma: Participant Experiences of Multi-Modal Motion-Assisted Memory Desensitization and Reconsolidation (3MDR). Front Psychiatry. 2021 Dec 22;12:779829. doi: 10.3389/fpsyt.2021.779829.

Tang E, Jones C, Smith-MacDonald L, **Brown MRG**, Vermetten EHGJM, Brémault-Phillips S (2021) Decreased Emotional Dysregulation Following Multi-Modal Motion-Assisted Memory Desensitization and Reconsolidation Therapy (3MDR): Identifying Possible Driving Factors in Remediation of Treatment-Resistant PTSD. Int J Environ Res Public Health. 2021 Nov 22;18(22):12243. doi: 10.3390/ijerph182212243.

Pazderka H, **Brown MR,** McDonald-Harker CB, Greenshaw AJ, Agyapong VI, Noble S, Mankowski M, Lee B, Omeje J, Brett-MacLean P, Kitching DT, Hayduk LA, Silverstone PH (2021) Model of Post-traumatic Growth in Newly Traumatized vs. Retraumatized Adolescents. Front Psychiatry. 2021 Sep 30;12:682055. doi: 10.3389/fpsyt.2021.682055.

McDonald-Harker C, Drolet JL, Sehgal A, **Brown MRG**, Silverstone PH, Brett-MacLean P, Agyapong VIO (2021) Social-Ecological Factors Associated With Higher Levels of Resilience in Children and Youth After Disaster: The Importance of Caregiver and Peer Support. Front Public Health. 2021 Jul 29;9:682634. doi: 10.3389/fpubh.2021.682634.

Lalani N, Drolet JL, McDonald-Harker C, **Brown MRG**, Brett-MacLean P, Agyapong VIO, Greenshaw AJ, Silverstone PH (2021) Nurturing Spiritual Resilience to Promote Post-disaster

Community Recovery: The 2016 Alberta Wildfire in Canada. Front Public Health. 2021 Jul 23;9:682558. doi: 10.3389/fpubh.2021.682558.

Pazderka H, **Brown MRG**, Agyapong VIO, Greenshaw AJ, McDonald-Harker CB, Noble S, Mankowski M, Lee B, Drolet JL, Omeje J, Brett-MacLean P, Kitching DT, Silverstone PH (2021) Collective Trauma and Mental Health in Adolescents: A Retrospective Cohort Study of the Effects of Retraumatization. Front Psychiatry. 2021 Jun 25;12:682041. doi: 10.3389/fpsyt.2021.682041.

**Brown MRG**, Pazderka H, Agyapong VIO, Greenshaw AJ, Cribben I, Brett-MacLean P, Drolet J, McDonald-Harker CB, Omeje J, Lee B, Mankowsi M, Noble S, Kitching DT, Silverstone PH (2021) Mental Health Symptoms Unexpectedly Increased in Students Aged 11-19 Years During the 3.5 Years After the 2016 Fort McMurray Wildfire: Findings From 9,376 Survey Responses. Front Psychiatry. 2021 May 20;12:676256. doi: 10.3389/fpsyt.2021.676256.

Drolet JL, McDonald-Harker C, Lalani N, McNichol M, **Brown MRG**, Silverstone PH (2020) Social, Economic and Health Effects of the 2016 Alberta Wildfires: Pediatric Resilience. Journal of Disaster Research 15(7):833-844. 2020 Dec. doi: 10.20965/jdr.2020.p0833.

Cutumisu M, Ghoman S K, Lu C, Patel SD, Garcia-Hidalgo C, Fray C, **Brown MRG**, Greiner R, Schmölzer GM (2020) Healthcare providers' performance, mindset, and attitudes towards a neonatal resuscitation computer-based simulator. Journal of Medical Internet Research (JMIR) Serious Games. 2020 Dec 21; 8(4):e21855. doi: 10.2196/21855.

Agyapong V, Ritchie A, **Brown MRG**, Noble S, Mankowsi M, Denga E, Nwaka B, Akinjise I, Corbett SE, Moosavi S, Chue P, Li X, Silverstone PH, Greenshaw AJ (2020). Long-term mental health effects of a devastating wildfire are amplified by socio-demographic and clinical antecedents in school staff. Frontiers in Psychiatry, section Mood and Anxiety Disorders. 2020 May 26; 11:448. doi: 10.3389/fpsyt.2020.00448.

Ghoman SK, Patel SD, Cutumisu M, von Hauff P, Jeffery T, **Brown MRG**, Schmölzer GM (2020) Serious games, a game changer in teaching neonatal resuscitation? A review. Archives of Disease in Childhood: Fetal and Neonatal Edition 105(1):98-107, 2020. doi:10.1136/archdischild-2019-317011. https://fn.bmj.com/content/105/1/98

**Brown MRG**, Agyapong VIO, Greenshaw AJ, Cribben I, Brett-MacLean P, Drolet J, McDonald-Harker CB, Omeje J, Mankowski M, Noble S, Kitching DT, Silverstone PH (2019) Significant PTSD and other mental health effects present 18 months after the Fort McMurray Wildfire: Findings from 3,070 Grade 7-12 Students. Frontiers in Psychiatry 10(523). doi: 10.3389/fpsyt.2019.00623. https://www.frontiersin.org/articles/10.3389/fpsyt.2019.00623/full

Shafer AT, Benoit JR, **Brown MRG**, Greenshaw AJ, Van Vliet KJ, Vohra S, Dolcos F, Singhal A (2019) Differences in attentional control and white matter microstructure in adolescents with attentional, affective, and behavioral disorders. Brain Imaging and Behavior, 2019 Dec 14. doi: 10.1007/s11682-019-00211-7. https://doi.org/10.1007/s11682-019-00211-7

Agyapong VIO, Juhas M, Omege J, Denga E, Nwaka B, Akinjise I, Corbett SE, **Brown M**, Chue P, Li X, Greenshaw A (2019) Prevalence rates and correlates of likely post-traumatic stress disorder in residents of Fort McMurray 6 months after a wildfire. International Journal of Mental Health and Addiction, published online May 13, 2019. doi:10.1007/s11469-019-00096-z. https://doi.org/10.1007/s11469-019-00096-z

Cutumisu M, Patel SD, **Brown MRG**, Fray C, von Hauff P, Jeffery T, Schmolzer GM (2019) RETAIN: A board game that improves neonatal resuscitation knowledge retention. Frontiers in Pediatrics - Neonatology 7(13), 2019 Jan 31. doi: 10.3389/fped.2019.00013. https://doi.org/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 5(1):2, 2019 Jan 18. 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, Mankowsi 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 19(1):18, 2019 Jan 10. doi: 10.1186/s12888-018-2007-1. https://doi.org/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 9(345), 2018 Jul 31. doi: 10.3389/fpsyt.2018.00345.

Cutumisu M, **Brown MRG**, Fray C, Schmölzer GM (2018) Growth Mindset Moderates the Effect of the Neonatal Resuscitation Program on Performance in a Computer-Based Game Training Simulation. Frontiers in Pediatrics 6:195, 2018 July 4. doi: 10.3389/fped.2018.00195.

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 13(4): e0194856, 2018 Apr 17. 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 (2018) Convergence and divergence of neurocognitive patterns in schizophrenia and depression. Schizophrenia Research 192: 327-334, Feb. 2018. doi: 10.1016/j.schres.2017.06.004. First published online 2017 Jun 23.

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. 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, Juhas 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, Juhas 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, Hyytia 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. https://doi.org/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 9(1):e87321, Jan. 2014. 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 2: 239-256, Dec. 2012.

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 63(1): 434-446, Oct. 2012.

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 7(5): e36993, May 2012. 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 39(2): 793-804, Jan. 2008.

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

**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 33(2): 644-659, Nov. 2006.

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 94(1): 429-440, July 2005.

**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 91(2): 873-889, Feb. 2004.

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 465(2): 179-194, Oct. 2003.

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 456(2): 140-153, Feb. 2003.