

Harvard Medical School Curriculum Vitae

Date Prepared: 3/19/14

Name: William John Harrison

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Place of Birth: Brisbane, Queensland, Australia

Education

2004	BA	Film & TV/Media Studies	The University of Queensland, Brisbane
2008	BA (Hons 1)	Psychology	The University of Queensland, Brisbane
2013	PHD	Psychology (Roger Remington & Jason Mattingley)	The University of Queensland, Brisbane

Postdoctoral Training

2013-	Postdoctoral Research Fellow	Visual psychophysics	Schepens Eye Research Institute
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Other Professional Positions

2010-2011	Research Assistant (Remington Eye Movement and Attention Lab)	The University of Queensland, Brisbane
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Committee Service

2008-2013	IT and Equipment Committee	School of Psychology, The University of Queensland
	2009-2012	Postgraduate Student Representative

Professional Societies

2009-	Human Factors and Ergonomics Society The University of Queensland Student Chapter (HFES-UQ)	Affiliate Member
2010-	Vision Sciences Society (VSS)	Member
2012-	Society for Neuroscience (SfN)	Member

Editorial Activities

- **Ad hoc reviewer**
Journal of Experimental Psychology: Applied
Journal of Vision
Journal of Cognitive Neuroscience
PLoS ONE

Honors and Prizes

2010	Winner of the Three Minute Thesis Competition in the School of Psychology	The University of Queensland	Public Engagement
2010	Winner of the Three Minute Thesis Competition in the Faculty of Social and Behavioural Sciences	The University of Queensland	Public Engagement
2010	First runner-up of the Three Minute Thesis Competition at The University of Queensland	The University of Queensland	Public Engagement
2012	Vision Sciences Society Student Travel Award	Elsevier/Vision Research	Research
2012	UQ Graduate Student International Travel Award	The University of Queensland	Research
2013	APS Excellent PhD Thesis in Psychology Award	The Australian Psychological Society	Research

Report of Local Teaching and Training

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2013	Visual Perception 1	Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School
	Clinical and research postdoctoral fellows, institute faculty	One hour lecture

Local Invited Presentations

2012	Predictive remapping preserves elementary visual features across saccades / VIVO Seminar Speaker Schepens Eye Research Institute, Massachusetts Eye and Ear Infirmary, Department of Ophthalmology, Harvard Medical School
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Report of Regional, National and International Invited Teaching and Presentations

International Teaching of Students in Courses

2009	Psychological Research Methodology I 1 st or 2 nd year undergraduate students	The University of Queensland 9-hrs per week for 13 weeks (teaching assistant)
2010-2012	Current Issues in Cognitive Psychology I: Cognitive Neuroscience Honours students	The University of Queensland 9-hrs per week for 13 weeks (teaching assistant)
2012	Cognitive Neuroscience (Lecture: Eye movements and Visual Stability) Honours students	The University of Queensland 1x2hr lecture (lecturer)
2012	The Science of Everyday Thinking 2 nd year undergraduate students	The University of Queensland 9-hrs per week for 13 weeks (teaching assistant)

Regional, National and International Presentations

2010	How is spatial attention deployed to visual onsets during saccadic remapping? / Conference Speaker (abstract) <i>Australasian Experimental Psychology Conference, Melbourne, Australia</i>
2011	Shift happens: predictive remapping of attention enhances distractor interference / Conference Speaker (abstract) <i>Australasian Experimental Psychology Conference, Auckland, New Zealand</i>
2011	Is there predictive remapping of visual attention across saccades? / Conference Speaker (abstract) <i>Vision Sciences Society Meeting, Naples, Florida</i>

- 2012 Saccade planning mitigates visual crowding / Conference Speaker (abstract)
Australasian Experimental Psychology Conference, Auckland, New Zealand
- 2012 Predictive remapping preserves elementary visual features across saccades / Conference Speaker (abstract)
Vision Sciences Society Meeting, Naples, Florida
- 2012 Oculomotor preparation mitigates visual crowding / Invited Speaker
Queensland Brain Institute and Munich Center for Neurosciences Systems Neuroscience Symposium, Munich, Germany
- 2012 Oculomotor selection mitigates visual crowding / Conference Speaker (abstract)
Society for Neuroscience, New Orleans, Louisiana
- 2012 The magnitude and spatial extent of visual crowding are reduced during saccade preparation / Conference Speaker (abstract)
Australasian Cognitive Neuroscience Conference, Brisbane, Australia
- 2013 Visual crowding is altered during smooth pursuit eye movements / Conference Speaker (abstract)
Vision Sciences Society Meeting, Naples, Florida
- 2013 The influence of eye movements on contrast sensitivity and gain response in peripheral vision / Conference Speaker (abstract)
European Conference on Visual Perception, Bremen, Germany

Report of Education of Patients and Service to the Community

Education of Patients and Service to the Community

No activities below were sponsored by outside entities

- 2010 ABC Radio / Guest speaker and interviewee
Gave a brief talk and interview about eye movement and visual attention research

Report of Scholarship

- **Peer-Reviewed Publications in prints or other media**

Harrison, W. J., Thompson, M. B., & Sanderson, P. M. (2010). Multisensory integration with a head-mounted display: background visual motion and sound motion. *Human Factors*, 52(1), 78–91.

Harrison, W. J., Mattingley, J. B., & Remington, R. W. (2012). Pre-saccadic shifts of visual attention. *PLoS ONE*, 7(9), e45670.

Harrison, W. J., Mattingley, J. B., & Remington, R. W. (2013). Eye movement targets are released from visual crowding. *Journal of Neuroscience*, *33*(7), 2927–2933.

Harrison, W. J., Retell, J. D., Remington, R. W., & Mattingley, J. B. (2013). Crowding at a distance during predictive remapping. *Current Biology*, *23*(9), 793-798.

Harrison, W. J., Mattingley, J. B., & Remington, R. W. (2013). Releasing crowding prior to a saccade requires more than “attention”: response to van Koningsbruggen and Buonocore. *Journal of Neuroscience*, *33*(28). doi:10.1523/JNEUROSCI.1567-13.2013

Harrison, W. J., Remington, R. W., & Mattingley, J. B. (2014). Visual crowding is anisotropic along the horizontal meridian during smooth pursuit. *Journal of Vision*, *14*(1). doi:10.1167/14.1.21

- **Thesis**

Harrison, W. J. (2013). “Influence of Voluntary Eye Movements On Object Perception in Peripheral Vision.” Ph.D. dissertation, The University of Queensland.

- **Abstracts and Poster Presentations at Professional Meetings**

Harrison, W., Dozo, N., Mattingley, J., & Remington, R. (2010). How is spatial attention deployed to visual onsets during saccadic remapping? [Talk Presentation] *Proceedings of the 37th Australasian Experimental Psychology Conference. Melbourne, Australia: 8-10 April.*

Harrison, W., Mattingley, J., & Remington, R. (2010). Perceived target location during suppression of optokinetic nystagmus. [Poster Presentation] *The 51st Annual Meeting of the Psychonomic Society. St. Louis, MS: 18-21 November.*

Harrison, W., Mattingley, J., & Remington, R. (2011). Shift happens: predictive remapping of attention enhances distractor interference. [Talk Presentation] *Proceedings of the 38th Australasian Experimental Psychology Conference. Auckland, New Zealand: 28-30 April, 2011.*

Harrison, W., Mattingley, J., & Remington, R. (2011). Is there predictive remapping of visual attention across saccades? [Poster Presentation] *The 11th Annual Meeting of the Vision Sciences Society. Naples, Florida: 6-11 May.*

Harrison, W., Mattingley, J., Remington, R. (2012). Saccade planning mitigates visual crowding. [Talk Presentation] *Proceedings of the 39th Australian Experimental Psychology Conference. Sydney, Australia: 12-15 April.*

Harrison, W., Retell, J., Remington, R., & Mattingley, J. (2012). Predictive remapping preserves elementary visual features across saccades. [Talk Presentation] *The 12th Annual Meeting of the Vision Sciences Society. Naples, Florida: 11-16 May.*

Harrison, W., Remington, R., & Mattingley, J. (2012). Oculomotor selection mitigates visual crowding. [Poster Presentation] *The Society for Neuroscience 42nd Annual Meeting. New Orleans, Louisiana: 13-17 October.*

Harrison, W., Remington, R., & Mattingley, J. (2012). The magnitude and spatial extent of visual crowding are reduced during saccade preparation. [Talk Presentation] *The 3rd Australasian Cognitive Neuroscience Conference: 29 Nov-2 December.*

Harrison, W., Remington, R., & Mattingley, J. (2013). Visual crowding is altered during smooth pursuit eye movements. [Poster Presentation] *The 12th Annual Meeting of the Vision Sciences Society. Naples, Florida: 10-15 May.*

Harrison, W., Kwon, M., & Bex, P. (2013). The influence of eye movements on contrast sensitivity and gain response in peripheral vision. [Poster Presentation] *The 36th European Conference on Visual Perception. Bremen, Germany: 25-29 August.*

Narrative Report

Having just completed my PhD in 2013, I have been most focused on research and teaching. Since 2009, I studied and worked at the School of Psychology at The University of Queensland in Brisbane, Australia, under the supervision of my PhD advisors, Profs Jason Mattingley and Roger Remington. The vast majority of my efforts went towards completing my PhD, in which I tested some of the ways eye movements affect basic visual perception. I taught undergraduate classes for approximately 6 months of each year, and served as the postgraduate student representative on the school's IT Committee. In addition to these formal roles, I actively and regularly engaged with the public to communicate my research outcomes, as well as the research being conducted at my school more generally.

An achievement of mine is my contribution to our understanding of how eye movements interact with visual perception. My PhD findings have informed theoretical debates within my discipline, and, more generally, have implications for the treatment and rehabilitation of certain visual disorders such as age-related macular degeneration. Much of this work has been published in specialist and generalist scientific journals.

In addition to my research, I taught undergraduate classes regularly as a teacher's assistant. I took a range of classes, from introductory research statistics, to cognitive neuroscience classes for Honours students, to the "Science of Everyday Thinking", a novel course in which students from a range of backgrounds learn the value of applying scientific methods to everyday decisions. I was also invited to give a lecture about eye movements and perception to an advanced fourth year undergraduate class.

Actively engaging with the public has always been important to me. One of my most enjoyable experiences of engaging with the public was when I spoke about my research on Brisbane radio. I was invited on the show after having placed second in a competition in which my task was to present my PhD thesis in only three minutes and to a lay-audience. I also created and was editor for a research blog, contributed to by my school's students and faculty members, and read by hundreds world-wide. I also co-founded the UQ Skeptics, an on-campus organization that challenges students to think critically, currently with a membership of over one hundred.

Through my various activities, I have contributed to research, teaching, and public engagement. Moving forward, I hope to continue to conduct meaningful research, and I will endeavor to apply my findings to assisting clinical populations. I look forward to new opportunities to improve teaching methods, and ways to use social networking technologies to engage with the public.