

## Damien J. Mannion, Ph.D.

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### Appointments

*July 2018–*                    Senior Lecturer  
                                  School of Psychology  
                                  UNSW Sydney

*Sep 2013–June 2018*        Lecturer  
                                  School of Psychology  
                                  UNSW Sydney

*Aug 2011–Aug 2013*        Postdoctoral associate  
                                  University of Minnesota, Minneapolis, USA  
                                  Korea University, Seoul, South Korea (Sep–Nov 2012)

*Sep 2010–Jul 2011*        Postdoctoral research fellow  
                                  Smith-Kettlewell Eye Research Institute, San Francisco, USA

### Education

*2007–2010*                    Ph.D., Vision science  
                                  University of Sydney, Australia

*2001–2005*                    Bachelor of Psychology (Honours I)  
                                  University of Newcastle, Australia

### Teaching

*Psychology 1B* (S2 2014–S2 2017)  
    First-year undergraduate course  
    7 lectures on perception  
    School of Psychology, UNSW Sydney

*Perception & Cognition* (S2 2014–present)  
    Second-year undergraduate course  
    Course coordinator; 7 lectures on visual perception  
    School of Psychology, UNSW Sydney

*Vision & Brain* (S1 2014–present)  
    Third-year undergraduate course  
    7 lectures on visual perception  
    School of Psychology, UNSW Sydney

*Primary Visual Cortex* (S1 2015)  
    Fourth-year (honours) course  
    10-week seminar-based format  
    School of Psychology, UNSW Sydney

*Research Internship* (S2 2015, S1–S2 2016–present)  
    Third-year advanced undergraduate course  
    6 tutorials on computer programming and technical skills  
    School of Psychology, UNSW Sydney

## Supervision

|                      |   |
|----------------------|---|
| <i>Postgraduate</i>  | Lindsay Peterson (PhD supervisor, 2017–)<br>Sol Libesman (PhD joint supervisor, 2016–)  |
| <i>Honours</i>       | Sophia Garlick Bock (2018)<br>Gadiel Dumlao (2018)<br>Kevin Tsang (2018)<br>Lindsay Peterson (2016)<br>Jamesha Subachandran (2016)<br>Sarita Herse (2015)<br>Norah Grewal (2014)  |
| <i>Undergraduate</i> | Elizabeth Kalotay (S2 2018 research internship)<br>Sophia Garlick Bock (S2 2017 research internship; 2017-2018 summer research scholarship)<br>Indra Sadeli (S2 2015 research internship, co-supervisor)<br>Alysha Nguyen (S1 2015 research internship) |

## Funding

|           |  |
|-----------|--|
| 2017–2019 | <b>Mannion, D.J.</b> & Kersten, D.J. <i>Foundations of the tolerance to illumination variation in human vision</i> . Australian Research Council Discovery Project.<br><br>Watson, T.L., Spehar, B., & <b>Mannion, D.J.</b> <i>Flower power: Natural form, aesthetics and the human brain</i> . Australian Research Council Discovery Project. |
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## Administration

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|           | Ad-hoc reviewer for: <i>Journal of Neurophysiology</i> (9), <i>Journal of Vision</i> (6), <i>NeuroImage</i> (4), <i>Behavior Research Methods</i> (3), <i>Cerebral Cortex</i> (2), <i>Current Biology</i> (2), <i>Vision Research</i> (2), <i>Frontiers in Perception Science</i> (2), <i>Appetite</i> (1), <i>European Journal of Neuroscience</i> (1), <i>Frontiers in Human Neuroscience</i> (1), <i>Journal of Cognitive Neuroscience</i> (1), <i>Journal of Experimental Psychology: Human Perception and Performance</i> (1), <i>Journal of Neuroscience</i> (1), <i>NeuroReport</i> (1), <i>PLoS One</i> (1), <i>Proceedings of the National Academy of Sciences USA</i> (1), <i>Psicologica</i> (1), <i>Quarterly Journal of Experimental Psychology</i> (1) |
| 2018–     | Student Ethics Officer, School of Psychology, UNSW Sydney  |
| 2017–     | Assessor for Australian Research Council   |
| 2016–     | Coordinator of first-year undergraduate experiment participation system (Sona), School of Psychology, UNSW Sydney  |
| 2014–     | Member of Faculty of Science IT Advisory committee, UNSW Sydney  |
| 2014–2015 | External assessor for Australian National Health and Medical Research Council  |
| 2012      | External assessor for Oak Ridge Associated Universities  |
| 2012–2013 | Member of Executive Council, Center for Cognitive Sciences, University of Minnesota  |

## Awards

|      |  |
|------|--|
| 2017 | Postgraduate research supervisor award (Postgraduate council, UNSW)                              |
| 2016 | Australian Psychological Society “Outstanding Lecturer of the Year” (School of Psychology, UNSW) |

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| 2010–2012 | Rachel C. Atkinson postdoctoral fellowship, Smith-Kettlewell Eye Research Institute, San Francisco, USA                          |
| 2011      | Tasman-Lovell Medallion for the best Doctor of Philosophy thesis in 2010 in the School of Psychology at the University of Sydney |
| 2011      | Postgraduate Publication Prize in the School of Psychology at the University of Sydney   |
| 2009      | The University of Sydney Postgraduate Research Prize for Outstanding Achievement in the Faculty of Science                       |
| 2009–2010 | Australian Research Council Centre of Excellence in Vision Science scholarship   |
| 2008      | European Conference on Visual Perception travel scholarship  |
| 2007–2010 | Australian Postgraduate Award  |

## Publications (research)

|                 |  |
|-----------------|--|
| <i>In press</i> | Peterson, L.M., Kersten, D.J., & <b>Mannion, D.J.</b> (In press) Surface curvature from kinetic depth can affect lightness. <i>Journal of Experimental Psychology: Human Perception &amp; Performance</i> . [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]   |
| 2017            | Patten, M.L., <b>Mannion, D.J.</b> , & Clifford, C.W.G. (2017) Correlates of perceptual orientation biases in human primary visual cortex. <i>Journal of Neuroscience</i> , 37(18), 4744–4750. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]<br><br>Whitford, T.J., Mitchell, A., & <b>Mannion, D.J.</b> (2017) The ability to tickle oneself is associated with level of psychometric schizotypy in non-clinical individuals. <i>Consciousness and Cognition</i> , 52, 93–103. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]<br><br><b>Mannion, D.J.</b> , Donkin, C., & Whitford, T.J. (2017) No apparent influence of schizotypy on orientation-dependent contextual modulation of visual contrast detection. <i>PeerJ</i> , 5, e2921. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ] |
| 2015            | <b>Mannion, D.J.</b> , Kersten, D.J., & Olman, C.A. (2015) Scene coherence can affect the local response to natural images in human V1. <i>European Journal of Neuroscience</i> , 42(11), 2895–2903. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]<br><br><b>Mannion, D.J.</b> (2015) Sensitivity to the visual field origin of natural image patches in human low-level visual cortex. <i>PeerJ</i> , 3, e1038. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]<br><br>Kam, T.-E. <b>Mannion, D.J.</b> , Lee, S-W., Doerschner, K., & Kersten, D.J. (2015) Human visual cortical responses to specular and matte motion flows. <i>Frontiers in Human Neuroscience</i> , 9:579. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]   |
| 2014            | <b>Mannion, D.J.</b> , Kersten, D.J., & Olman, C.A. (2014) Regions of mid-level human visual cortex sensitive to the global coherence of local image patches. <i>Journal of Cognitive Neuroscience</i> , 26(8), 1764–74. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]  |
| 2013            | <b>Mannion, D.J.</b> , Kersten, D.J., & Olman, C.A. (2013) Consequences of polar form coherence for fMRI responses in human visual cortex. <i>NeuroImage</i> , 78, 152–158. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]<br><br>Matthews, N.L., Todd, J., <b>Mannion, D.J.</b> , Finnigan, S., Catts, S., Michie, P.T. (2013) Impaired processing of binaural temporal cues to auditory scene analysis in schizophrenia. <i>Schizophrenia Research</i> , 146(1–3), 344–348. [ <a href="#">PubMed</a> ]   |
| 2012            | McDonald, J.S., <b>Mannion, D.J.</b> , & Clifford, C.W.G. (2012) Gain control in the response of human visual cortex to plaids. <i>Journal of Neurophysiology</i> , 107(9), 2570–2580. [ <a href="#">PubMed</a> ]  |
| 2011            | <b>Mannion, D.J.</b> & Clifford, C.W.G. (2011). Cortical and behavioral sensitivity to eccentric polar form. <i>Journal of Vision</i> , 11(6):17, 1–9. [ <a href="#">PubMed</a> ] [ <a href="#">Article</a> ]  |

- Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S.G., & Clifford, C.W.G. (2011). Colour responsiveness argues against a dorsal component of human V4. *Journal of Vision*, 11(4):3, 1–21. [[PubMed](#)] [[Article](#)]
- 2010 **Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2010). The influence of global form on local orientation anisotropies in human visual cortex. *NeuroImage*, 52(2), 600–605. [[PubMed](#)] [[Preprint](#)]
- Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2010). Orientation anisotropies in human visual cortex. *Journal of Neurophysiology*, 103(6), 3465–3471. [[PubMed](#)] [[Preprint](#)]
- McDonald, J.S., **Mannion, D.J.**, Goddard, E., & Clifford, C.W.G. (2010). Orientation-selective chromatic mechanisms in human visual cortex. *Journal of Vision*, 10(12):34, 1–12. [[PubMed](#)] [[Article](#)]
- Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S.G., & Clifford, C.W.G. (2010). Combination of subcortical color channels in human visual cortex. *Journal of Vision*, 10(5):25, 1–17. [[PubMed](#)] [[Article](#)]
- 2009 Clifford, C.W.G., **Mannion, D.J.**, & McDonald, J.S. (2009). Radial biases in the processing of motion and motion-defined contours by human visual cortex. *Journal of Neurophysiology*, 102(5), 2974–2981. [[PubMed](#)]
- Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2009). Discrimination of the local orientation structure of spiral Glass patterns early in human visual cortex. *NeuroImage*, 46(2), 511–515. [[PubMed](#)] [[Preprint](#)]

## Publications (other)

- 2015 Clifford, C.W.G., & **Mannion, D.J.** (2015) Orientation decoding: Sense in spirals? *NeuroImage*, 110, 219–222. [[PubMed](#)] [[Article](#)]
- 2012 **Mannion, D.J.** (2012) Navigating the vision science Internet. *i-Perception*, 3(7), 413. [[PubMed](#)] [[Article](#)]
- 2011 Clifford, C.W.G., **Mannion, D.J.**, Seymour, K.J., McDonald, J.S., & Bartels, A. (2011). Are coarse-scale orientation maps really necessary for orientation decoding? *Journal of Neuroscience*. [[E-letter](#)]

## Conferences

### Presenting author

- 2018 **Mannion, D.J.** & Donkin, C. (2018) Scene recognition across variations in illumination caused by time of day (poster presented at the Australasian Experimental Psychology Conference, Hobart, Australia).
- 2016 **Mannion, D.J.** (2016) Teaching programming in undergraduate psychology (talk given at PyCon Australia, Melbourne, Australia).
- 2015 **Mannion, D.J.** (2015) Sensitivity to the visual field origin of natural image patches in human low-level visual cortex (poster presented at the Australasian Experimental Psychology Society conference, Sydney, Australia).
- 2014 **Mannion, D.J.**, Kersten, D.J., & Olman, C.A. (2014) Scene consistency increases the human V1 response to local natural image fragments (talk given at the Australasian Experimental Psychology Society conference, Brisbane, Australia).
- 2013 **Mannion, D.J.**, Kersten, D.J., & Olman, C.A. (2013) Reduced V1 activity to local image patches that are inconsistent with the global scene interpretation (poster presented at the Australasian Cognitive Neuroscience Society Conference, Melbourne, Australia).

- 2011 **Mannion, D.J.**, Tsai, J.J., & Wade, A.R. (2011) The source of overlay masking in the human visual system (poster presented at the Fall Vision meeting of the Optical Society of America, Seattle, WA, United States).
- 2010 **Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2010) Anti-correlation between natural scene orientation structure and activity in visual cortex (talk given at the Fall Vision meeting of the Optical Society of America, Rochester, NY, United States).
- Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2010) Anisotropies in the response of human visual cortex to simple and complex spatial form. (talk given at the Australasian Experimental Psychology Conference, Melbourne, Australia).
- Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2010) Anisotropic responses in human visual cortex to grating orientation. *Proceedings of the Australian Neuroscience Society*, 20, 32 (talk given at the Australian Neuroscience Society Conference, Sydney, Australia).
- 2009 **Mannion, D.J.** & Clifford, C.W.G. (2009). Orientation anisotropies and the perception of translational Glass patterns. (poster presented at the Australasian Experimental Psychology Conference, Wollongong, Australia).
- 2008 **Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2008). Discrimination between spiral Glass patterns early in human visual cortex, *Perception*, 37, 163 (poster presented at the European Conference on Visual Perception, Utrecht, The Netherlands).
- Mannion, D.J.**, McDonald, J.S., & Clifford, C.W.G. (2008) Distributed representations of Glass pattern structure early in human visual cortex. (poster presented at the Asia Pacific Conference on Vision, Brisbane, Australia).
- Contributor*
- 2018 Peterson, L.M., Kersten, D.J., & **Mannion, D.J.** (2018) Surface curvature from kinetic depth can affect lightness. Australasian Experimental Psychology Conference, Hobart, Australia.
- Libesman, S., Whitford, T.J., & **Mannion, D.J.** (2018) Visual cues to sound source distance do not necessarily increase loudness constancy in a simulated reverberant environment. Australasian Experimental Psychology Conference, Hobart, Australia.
- 2017 Libesman, S., Whitford, T.J., & **Mannion, D.J.** (2017) Loudness judgements are not necessarily affected by visual cues to sound source distance. Science of the Self: The Agency and Body Representation Research Forum, Sydney, Australia.
- Peterson, L.M. & **Mannion, D.J.** (2017) Motion cues to shape can affect lightness. Sydney Postgraduate Psychology Conference, UNSW Sydney.
- Libesman, S., Whitford, T.J., & **Mannion, D.J.** (2017) Evidence that vision may not enhance loudness constancy. Sydney Postgraduate Psychology Conference, UNSW Sydney.
- 2016 Peterson, L.M. & **Mannion, D.J.** (2016) Structure-from-motion and lightness perception: understanding the interaction between lightness and high-level motion. Australasian Cognitive Neuroscience Conference, Shoal Bay, Australia.
- Subachandran, J. & **Mannion, D.J.** (2016) Schizotypy and form perception through pooling: an application of the oblique superiority effect. Australasian Cognitive Neuroscience Conference, Shoal Bay, Australia.

- Libesman, S., Whitford, T.J., & **Mannion, D.J.** (2016) Interpreting the amplitude of auditory signals through visual cues to sound source distance. Australasian Cognitive Neuroscience Conference, Shoal Bay, Australia.
- 2015 Patten, M.L., **Mannion, D.J.**, & Clifford, C.W.G. (2015) Behavioural and neural correlates of a prior for cardinal orientations. Australasian Cognitive Neuroscience Society Conference, Auckland, New Zealand.
- 2014 Shen, H., **Mannion, D.J.**, Lee, S-W., & Kersten, D.J. (2014) Accuracy in localising the centre of a circle. Vision Sciences Society, Florida, USA.
- 2013 Kam, T-E., **Mannion, D.J.**, Lee, S-W., Doerschner, K., & Kersten, D.J. (2013) An fMRI study of cortical responses for reflectance-specific image motion. Vision Sciences Society, Florida, USA.
- Shen, H., **Mannion, D.J.**, Lee, S-W., Boyaci, H., Fang, F., & Kersten, D.J. (2013) Effect of smooth shape on lightness processing in human visual cortex. Vision Sciences Society, Florida, USA.
- 2012 Kam, T-E., **Mannion, D.J.**, Kersten, D.J., & Lee, S-W. (2012) Neural mechanisms of material perception. China-Japan-Korea Joint Workshop on Neurobiology and Neuroinformatics, Seoul, South Korea.
- Shen, H., **Mannion, D.J.**, Kersten, D.J., & Lee, S-W (2012) Effect of object contours on lightness processing in human visual cortex. China-Japan-Korea Joint Workshop on Neurobiology and Neuroinformatics, Seoul, South Korea.
- 2010 Clifford, C.W.G., **Mannion, D.J.**, & McDonald, J.S. (2010) Orientation anisotropies in human visual cortex complement those in natural scenes. French-British Conference on Visual Perception, Paris, France.
- Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2010) Colour preference argues against a dorsal component of human V4. European Conference on Visual Perception, Lausanne, Switzerland.
- Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2010) Is there a dorsal colour area in human visual cortex? Australasian Experimental Psychology Conference, Melbourne, Australia.
- Clifford, C.W.G., McDonald, J.S., & **Mannion, D.J.** (2010) How is image contrast represented in human visual cortex? Australasian Experimental Psychology Conference, Melbourne, Australia.
- Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2010) Is there a dorsal colour area in human visual cortex? *Proceedings of the Australian Neuroscience Society*, 20, 191.
- McDonald, J.S., **Mannion, D.J.**, & Clifford, C.W.G. (2010) Contrast response functions for gratings and plaids in human visual cortex. *Proceedings of the Australian Neuroscience Society*, 20, 169.
- 2009 Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2009) The red inside your head: decoding seen colour from activity in human visual cortex. Association for the Scientific Study of Consciousness, Berlin, Germany.
- Clifford, C.W.G., **Mannion, D.J.**, & McDonald, J.S. (2009) Radial biases in the processing of motion and motion-defined contours by human visual cortex. Australasian Experimental Psychology Conference, Wollongong, Australia.
- McDonald, J.S., Goddard, E., **Mannion, D.J.**, & Clifford, C.W.G. (2009) Orientation and chromatic specific contextual modulation of the fMRI BOLD response to gratings in human visual cortex. Australasian Experimental Psychology Conference, Wollongong, Australia.

Vu, L., Spehar, B., & **Mannion, D.J.** (2009) Assimilation, contrast and contrast-contrast in achromatic induction. Australasian Experimental Psychology Conference, Wollongong, Australia.

Clifford, C.W.G., **Mannion, D.J.**, & McDonald, J.S. (2009) Radial orientation and direction biases in the response of human visual cortex to kinetic contours. Computational and Systems Neuroscience, Utah, USA.

Clifford, C.W.G., **Mannion, D.J.**, Goddard, E., & McDonald, J.S. (2009). Orientation-selective contextual modulation in human visual cortex. Australian Neuroscience Society satellite meeting, ARC Centre of Excellence in Vision Science, Canberra, Australia.

Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2009) Decoding higher order colour signals in human visual cortex. *Proceedings of the Australian Neuroscience Society*, 19, 89.

2008

Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2008) Decoding higher order colour signals in human visual cortex, *Perception*, 37, 146. European Conference on Visual Perception, Utrecht, The Netherlands.

Goddard, E., **Mannion, D.J.**, McDonald, J.S., Solomon, S., & Clifford, C.W.G. (2008) Representation of colour in human visual cortex. Asia Pacific Conference on Vision, Brisbane, Australia.

## Outreach activities

“Teaching programming in undergraduate psychology” talk given at Python Conference Australia (PyConAU) 2016, Melbourne, Australia. [[Video recording](#)]