

**Damien J. Mannion, Ph.D.****Academic CV**

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<https://www.djmannion.net>

**Positions**

*Apr 2023–Present* Research Data Specialist  
Melbourne Data Analytics Platform (MDAP), University of Melbourne

*Jan 2022–Mar 2023* Independent Research Consultant  
<https://www.djmannion.net/consulting>

*Sep 2013–Dec 2021* Lecturer / Senior Lecturer  
School of Psychology, UNSW Sydney

*Aug 2011–Aug 2013* Postdoctoral Associate  
University of Minnesota, Minneapolis, USA

*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

**Publications**

*2023* Peterson, L.M., Kersten, D.J., & **Mannion, D.J.** (2023) Estimating lighting direction in scenes with multiple objects. *Attention, Perception, & Psychophysics*. [[PubMed](#)] [[Article](#)]

*2022* Tsang, K.Y., & **Mannion, D.J.** (2022) Relating sound and sight in simulated environments. *Multisensory Research*, 35(7–8), p. 589–622. [[PubMed](#)] [[Article](#)]

Kruse, A.W., **Mannion, D.J.**, Alenin, A.S., & Tyo, J.S. (2022) User study comparing linearity and orthogonalization for polarimetric visualizations. *IEEE Access*, 10, 28308–28321. [[Article](#)]

*2021* Harrison, A.W., **Mannion, D.J.**, Jack, B.N., Griffiths, O., Hughes, G., & Whitford, T.J. (2021) Sensory attenuation is modulated by the contrasting effects of predictability and control. *NeuroImage*, 237, 118103, 1–13. [[PubMed](#)] [[Article](#)]

*2020* Libesman, S., **Mannion, D.J.**, & Whitford, T.J. (2020) Seeing the intensity of a sound-producing event modulates the amplitude of the auditory evoked response. *Journal of Cognitive Neuroscience*, 32(3), 426–434. [[PubMed](#)] [[Article](#)]

*2018* Peterson, L.M., Kersten, D.J., & **Mannion, D.J.** (2018) Surface curvature from kinetic depth can affect lightness. *Journal of Experimental Psychology: Human Perception & Performance*, 44(12), 1856–1864. [[PubMed](#)] [[Article](#)]

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

## Commentaries

- 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? E-letter to *Journal of Neuroscience*. [[E-letter](#)]

## Supervision

- Postgraduate Dr. Kevin Tsang (PhD supervisor, 2019–2023)  
“The influence of vision on the perceptual compensation for reverberation in simulated environments” [[Thesis](#)]
- Dr. Lindsay Peterson (PhD supervisor, 2017–2022):  
“The human visual system’s representation of light sources and the objects they illuminate” [[Thesis](#)]
- Dr. Sol Libesman (PhD joint supervisor, 2016–2021):  
“Great expectations! How predictions about the magnitude of a forthcoming sound affect its perceptual and neural processing” [[Thesis](#)]
- Honours Neve Thomson (2020), Jessica Chan (2019), Kathryn Cooper (2019), Natasha Van Der Eyk (2019, joint supervisor), Sophia Garlick Bock (2018), Gadiel Dumlao (2018), Kevin Tsang (2018), Lindsay Peterson (2016), Jamesha Subachandran (2016), Sarita Herse (2015), Norah Grewal (2014)
- Undergraduate Lily Wu (T2 2019 research internship), Sahar Fatima (2018–2019 summer research scholarship), Elizabeth Kalotay (S2 2018 research internship), Sophia Garlick Bock (S2 2017 research internship; 2017–2018 summer research scholarship), Indra Sadeli (S2 2015 research internship, co-supervisor), Alysha Nguyen (S1 2015 research internship)

## Funding

- 2017–2021 **Mannion, D.J.** & Kersten, D.J. *Foundations of the tolerance to illumination variation in human vision*. Australian Research Council Discovery Project.
- Watson, T.L., Spehar, B., & **Mannion, D.J.** *Flower power: Natural form, aesthetics and the human brain*. Australian Research Council Discovery Project.

## Awards

- 2018 Postgraduate research supervisor award (Postgraduate council, UNSW)
- 2017 Postgraduate research supervisor award (Postgraduate council, UNSW)
- 2016 Australian Psychological Society “Outstanding Lecturer of the Year” (School of Psychology, UNSW)

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

## Administration

	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 Open Source Education</i> (1), <i>Journal of Open Source Software</i> (1), <i>Journal of Neuroscience</i> (1), <i>NeuroReport</i> (1), <i>Perception</i> (1), <i>PLoS One</i> (1), <i>Proceedings of the National Academy of Sciences USA</i> (1), <i>Psicologica</i> (1), <i>Psychological Science</i> (1), <i>Quarterly Journal of Experimental Psychology</i> (1), <i>Schizophrenia Research: Cognition</i> (1), <i>Visual Cognition</i> (1)
2023–	Research Internship coordinator, Melbourne Data Analytics Platform (MDAP), University of Melbourne
2018–2021	Student Ethics Officer / Student Integrity Advisor, School of Psychology, UNSW Sydney
2016–2021	Coordinator of first-year undergraduate experiment participation system (Sona), School of Psychology, UNSW Sydney
2017–2019	Assessor for Australian Research Council
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

## Workshops

May, 2023	“Programming with Python” University of Melbourne Software Carpentry Workshop
Dec, 2021	“The research process and areas of potential library involvement” University of Newcastle, Australia
Dec, 2021	“Reproducibility in research: Strategies for avoiding reproducibility pitfalls” Western Sydney University, Australia
Nov, 2019	“UNSW PsychSoc Coding Workshop” UNSW Sydney, Australia

Jun, 2018 “Introduction to  $\LaTeX$  and Overleaf”  
UNSW Sydney, Australia

## Teaching

2014–2017, 2019–2020 *Psychology 1B*  
First-year undergraduate course  
5–7 lectures on perception  
School of Psychology, UNSW Sydney

2014–2020 *Perception & Cognition*  
Second-year undergraduate course  
Course coordinator  
5–7 lectures on visual perception  
School of Psychology, UNSW Sydney

2014–2018 *Vision & Brain*  
Third-year undergraduate course  
7 lectures on visual perception  
School of Psychology, UNSW Sydney

2015–2019 *Research Internship*  
Third-year advanced undergraduate course  
6 tutorials on computer programming and technical skills  
School of Psychology, UNSW Sydney

2020 *Clinical & Cognitive Neuroscience*  
Third-year undergraduate course  
Lecture on neuroimaging methods  
School of Psychology, UNSW Sydney

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

2020 *Illumination and Human Vision*  
Fourth-year (honours) course  
9-week seminar-based format  
School of Psychology, UNSW Sydney

## 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). [[Video recording](#)]

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*
- 2022 Tsang, K.Y. & **Mannion, D.J.** (2022) The perception of sound source duration across changes in reverberation, with and without a concurrent depiction of the listening environment. Australasian Brain & Psychological Sciences Meeting.
- 2021 Tsang, K.Y. & **Mannion, D.J.** (2021) Judging the congruence of auditory and visual stimulation within virtual reality scenes: a potential role for vision in coping with reverberation. Australasian Experimental Psychology Conference.
- Watson, T.L, Patten, M.L., Spehar, B., & **Mannion, D.J.** (2021) Power flowers: Symmetry, colour and complexity as determinants of the aesthetic appeal of gerberas. Australasian Experimental Psychology Conference.
- Watson, T.L, Patten, M.L., **Mannion, D.J.**, & Spehar, B. (2021) Power flowers: Symmetry, colour and complexity as determinants of the aesthetic appeal of gerberas. Visual Properties Driving Visual Preference (VPDVP) workshop.
- 2020 Sun, H.-C. & **Mannion, D.J.** (2020) Similar perception of surface gloss in the upper and lower regions of the visual field. Virtual Vision Sciences Society.

- 2019 Peterson, L.M. & **Mannion, D.J.** (2019) Code review to enhance research training, collaboration, and communication. ResBaz, Sydney.
- Peterson, L.M., Kersten, D.J., & **Mannion, D.J.** (2019) Light sources as scene components: estimating light source direction in scenes with multiple objects. Asia-Pacific Conference on Vision, Japan.
- Libesman, S., **Mannion, D.J.**, & Whitford, T.J. (2019) Seeing a sound-producing event modulates the amplitude of the initial auditory evoked response. European Conference on Visual Perception, Belgium.
- 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.