Damien J. Mannion, Ph.D.

Academic CV

Contact	damien@djmannion.net
	https://www.djmannion.net
Positions	
Apr 2023–Present	Research Data Specialist / Senior 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	
In press	Anderson, A.J., Mannion, D.J. , Quiroga, M.M., & Tescari, E. (In press) Applying the LATER model to reaction time data: an open-source toolkit. <i>Journal of Neurophysiology</i> . [PubMed] [Article] [Web interface] [LATERmodel] [pylater]
2024	Peterson, L.M., Kersten, D.J., & Mannion, D.J. (2024) Estimating lighting direction in scenes with multiple objects. <i>Attention, Perception, & Psychophysics, 86</i> , 186-–212. [PubMed] [Article]
2022	Tsang, K.Y., & Mannion, D.J. (2022) Relating sound and sight in simulated environments. <i>Multisensory Research, 35</i> (7–8), 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. <i>IEEE Access, 10</i> , 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. <i>NeuroImage, 237</i> , 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. <i>Journal of Cognitive Neuroscience, 32</i> (3), 426–434. [PubMed] [Article]

2018	Peterson, L.M., Kersten, D.J., & Mannion, D.J. (2018) Surface curvature from kinetic depth can affect lightness. <i>Journal of Experimental</i> <i>Psychology: Human Perception & Performance, 44</i> (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. <i>Journal of Neuroscience</i> , <i>37</i> (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. <i>Consciousness and Cognition, 52</i> , 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. <i>PeerJ</i> , <i>5</i> , 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. <i>European Journal of Neuroscience, 42</i> (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. <i>PeerJ</i> , <i>3</i> , e1038. [PubMed] [Article]
	Kam, TE. Mannion, D.J. , 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. [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. <i>Journal of Cognitive Neuroscience, 26</i> (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. <i>NeuroImage</i> , <i>78</i> , 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. <i>Schizophrenia Research</i> , <i>146</i> (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. <i>Journal of Neurophysiology</i> , <i>107</i> (9), 2570–2580. [PubMed] [Article]
2011	Mannion, D.J. & Clifford, C.W.G. (2011) Cortical and behavioral sensitivity to eccentric polar form. <i>Journal of Vision</i> , <i>11</i> (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. <i>Journal of Vision</i> , <i>11</i> (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. <i>NeuroImage, 52</i> (2), 600–605. [PubMed] [Article]
	Mannion, D.J., McDonald, J.S., & Clifford, C.W.G. (2010) Orientation anisotropies in human visual cortex. <i>Journal of Neurophysiology</i> , <i>103</i> (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. <i>Journal of Vision, 10</i> (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. <i>Journal of Vision</i> , <i>10</i> (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. <i>Journal of Neurophysiology, 102</i> (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. <i>NeuroImage</i> , <i>46</i> (2), 511–515. [PubMed] [Article]
Commentaries	
2015	Clifford, C.W.G. & Mannion, D.J. (2015) Orientation decoding: Sense in spirals? <i>NeuroImage, 110</i> , 219–222. [PubMed] [Article]
2012	Mannion, D.J. (2012) Navigating the vision science Internet. <i>i-Perception</i> , <i>3</i> (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 <i>Journal of Neuroscience</i> . [E-letter]
Postgraduate supe	rvision
	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]
Funding	
2017–2021	Mannion, D.J. & Kersten, D.J. <i>Foundations of the tolerance to illumination variation in human vision</i> . Australian Research Council Discovery Project.
	Watson, T.L., Spehar, B., & Mannion, D.J. <i>Flower power: Natural form, aesthetics and the human brain</i> . 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: Journal of Neurophysiology (9), Journal of Vision (6), NeuroImage (4), Behavior Research Methods (3), Cerebral Cortex (2), Current Biology (2), Vision Research (2), Frontiers in Perception Science (2), Journal of Open Source Software (2), Appetite (1), European Journal of Neuroscience (1), Frontiers in Human Neuroscience (1), Journal of Cognitive Neuroscience (1), Journal of Experimental Psychology: Human Perception and Performance (1), Journal of Open Source Education (1), Journal of Neuroscience (1), NeuroReport (1), Perception (1), PLoS One (1), Proceedings of the National Academy of Sciences USA (1), Psicologica (1), Psychological Science (1), Quarterly Journal of Experimental Psychology (1), Schizophrenia Research: Cognition (1), Visual Cognition (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

Facilitated workshops

Мау, 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 ष्ट्रा _E X 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. <i>Proceedings of the Australian Neuroscience Society, 20</i> , 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, <i>Perception, 37</i> , 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, HC. & 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 souce 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.

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.

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.

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.

2009

2008

2010

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.