

DANIEL PEARSON

PERSONAL INFORMATION

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RESEARCH POSITIONS

- 2019–Present | **Postdoctoral Research Fellow**, INSTITUTE OF COGNITIVE NEURSCIENCE, UCL
Working on projects related to *cognitive neuroscience of attention* under the supervision of Prof. Nilli Lavie.
- 2013–2015 | **Research Assistant**, SCHOOL OF PSYCHOLOGY, UNSW SYDNEY
Worked on projects relating to *attention*, *cognitive neuroscience*, and *associative learning*, under the supervision of Assoc. Prof. Mike Le Pelley, Dr. Tom Beesley, and Assoc. Prof. Thomas Whitford.

EDUCATION

- 2015–2019 | **PhD/Master of Psychology (Clinical)**, UNSW SYDNEY, Australia
Thesis: “*Learning to avoid looking: The effect of reward on attentional capture and control*”
Supervisor: Assoc. Prof. Mike Le Pelley
Co-supervisors: Prof. Simon Killcross & Assoc. Prof. Thomas Whitford
- 2008–2011 | **Bachelor of Science (Advanced) in Psychology**, UNSW SYDNEY, Australia
First Class Honours | 91/100
Thesis: “*Sexual dimorphism in mechanisms of attentional control in the transmembrane domain Neuregulin 1 mouse model*”
Supervisors: Prof. Simon Killcross & Dr. Tim Karl

SCHOLARSHIPS AND AWARDS

- 2019 | Dean’s Award for Outstanding PhD Thesis, UNSW SYDNEY
- 2019 | Faculty of Science Writing Scholarship (\$6000), UNSW SYDNEY
- 2018 | Best Clinical Research Presentation, FORENSIC AND CLINICAL PSYCHOLOGY RESEARCH CONFERENCE, UNSW
- 2017 | School of Psychology Award, UNSW POSTGRADUATE RESEARCH COMPETITION
- 2015 | Best Human Research Presentation, AUSTRALIAN LEARNING GROUP CONFERENCE
- 2015–2019 | Research Training Program Scholarship, DEPARTMENT OF EDUCATION & TRAINING, AUSTRALIAN GOVERNMENT
- 2008 | Academic Achievement Award (\$4000) for most outstanding student, UNSW SYDNEY

TEACHING

- 2017–Present | **Head Tutor**, SCHOOL OF PSYCHOLOGY, UNSW
PSYC2001: Research Methods 2
- 2015–Present | **Casual Tutor**, SCHOOL OF PSYCHOLOGY, UNSW
PSYC2001: Research Methods 2
PSYC3361: Psychology Research Internship (MATLAB Programming Stream)
PSYC2071: Perception & Cognition
- 2015 | **Eye-tracking Workshop**, SCHOOL OF PSYCHOLOGY, UNSW
Attended by approximately 30 research staff within the School of Psychology, UNSW

PEER REVIEWED PUBLICATIONS

- Pearson, D.**, Watson, P., Cheng, P. X., & Le Pelley, M. E. (in press). Overt attentional capture by reward-related stimuli overcomes inhibitory suppression. *Journal of Experimental Psychology: Human Perception Performance*.
- Watson, P., **Pearson, D.**, Theeuwes, J., Most, S. B., & Le Pelley, M. E. (2020). Delayed disengagement of attention from distractors signalling reward. *Cognition*, *195*, 104125.
- Albertella, L., Le Pelley, M. E., Chamberlain, S. R., Westbrook, F., Fontenelle, L. F., Segrave, R., Lee, R., **Pearson, D.**, & Yücel, M. (2019). Reward-related attentional capture is associated with severity of addictive and obsessive–compulsive behaviors. *Psychology of Addictive Behaviors*, *33*(5), 495.
- Le Pelley, M. E., Watson, P., **Pearson, D.**, Abeywickrama, R. S., & Most, S. B. (2019). Winners and losers: Reward and punishment produce biases in temporal selection. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *45*(5), 822–833.
- Watson, P., **Pearson, D.**, Chow, M., Theeuwes, J., Wiers, R. W., Most, S. B., & Le Pelley, M. E. (2019). Capture and control: Working memory modulates attentional capture by reward-related stimuli. *Psychological science*, *30*(8), 1174–1185.
- Watson, P., **Pearson, D.**, Most, S., Theeuwes, J., Wiers, R. W., & Le Pelley, M. E. (2019). Attentional capture by pavlovian reward-signalling distractors in visual search persists when rewards are removed. *PloS one*, *14*(12), e0226284.
- Watson, P., **Pearson, D.**, Wiers, R. W., & Le Pelley, M. E. (2019). Prioritizing pleasure and pain: Attentional capture by reward-related and punishment-related stimuli. *Current Opinion in Behavioral Sciences*, *26*, 107–113.
- Kennedy, B. L., **Pearson, D.**, Sutton, D. J., Beesley, T., & Most, S. B. (2018). Spatiotemporal competition and task-relevance shape the spatial distribution of emotional interference during rapid visual processing: Evidence from gaze-contingent eye-tracking. *Attention, Perception, & Psychophysics*, *80*(2), 426–438.
- Albertella, L., Copeland, J., **Pearson, D.**, Watson, P., Wiers, R. W., & Le Pelley, M. E. (2017). Selective attention moderates the relationship between attentional capture by signals of nondrug reward and illicit drug use. *Drug and Alcohol Dependence*, *175*, 99–105.

- Le Pelley, M. E., **Pearson, D.**, Porter, A., Yee, H., & Luque, D. (2017). Oculomotor capture is influenced by expected reward value but (maybe) not predictiveness. *The Quarterly Journal of Experimental Psychology*, Advance online publication.
- Le Pelley, M. E., Seabrooke, T., Kennedy, B. L., **Pearson, D.**, & Most, S. B. (2017). Miss it and miss out: Counterproductive nonspatial attentional capture by task-irrelevant, value-related stimuli. *Attention, Perception, & Psychophysics*, *79*(6), 1628–1642.
- Whitford, T. J., Jack, B. N., **Pearson, D.**, Griffiths, O., Luque, D., Harris, A. W., Spencer, K. M., & Le Pelley, M. E. (2017). Neurophysiological evidence of efference copies to inner speech. *eLife*, *6*, e28197.
- Beesley, T., Vadillo, M. A., **Pearson, D.**, & Shanks, D. R. (2016). Configural learning in contextual cuing of visual search. *Journal of Experimental Psychology: Human Perception and Performance*, *42*(8), 1173.
- Pearson, D.**, Osborn, R., Whitford, T. J., Failing, M., Theeuwes, J., & Le Pelley, M. E. (2016). Value-modulated oculomotor capture by task-irrelevant stimuli is a consequence of early competition on the saccade map. *Attention, Perception, & Psychophysics*, *78*(7), 2226–2240.
- Beesley, T., Nguyen, K. P., **Pearson, D.**, & Le Pelley, M. E. (2015). Uncertainty and predictiveness determine attention to cues during human associative learning. *The Quarterly Journal of Experimental Psychology*, *68*(11), 2175–2199.
- Beesley, T., **Pearson, D.**, & Le Pelley, M. (2015). Implicit learning of gaze-contingent events. *Psychonomic Bulletin & Review*, *22*(3), 800–807.
- Beesley, T., Vadillo, M. A., **Pearson, D.**, & Shanks, D. R. (2015). Pre-exposure of repeated search configurations facilitates subsequent contextual cuing of visual search. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *41*(2), 348.
- Failing, M., Nissens, T., **Pearson, D.**, Le Pelley, M., & Theeuwes, J. (2015). Oculomotor capture by stimuli that signal the availability of reward. *Journal of Neurophysiology*, *114*(4), 2316–2327.
- Le Pelley, M. E., **Pearson, D.**, Griffiths, O., & Beesley, T. (2015). When goals conflict with values: Counterproductive attentional and oculomotor capture by reward-related stimuli. *Journal of Experimental Psychology: General*, *144*(1), 158.
- Pearson, D.**, Donkin, C., Tran, S. C., Most, S. B., & Le Pelley, M. E. (2015). Cognitive control and counterproductive oculomotor capture by reward-related stimuli. *Visual Cognition*, *23*(1-2), 41–66.

PREPRINTS

- Pearson, D.**, Watson, P., Cheng, P. X., & Le Pelley, M. E. (2019). Overt attentional capture by reward-related stimuli overcomes inhibitory suppression. *PsyArXiv*.
doi:10.31234/osf.io/db9hg

BOOK CHAPTERS

Beesley, T., **Pearson, D.**, & Le Pelley, M. E. (2019). Eye-tracking as a tool for examining cognitive processes. In G. Foster (Ed.), *Biophysical measurement in experimental social science research*. Oxford, UK: Elsevier.

Pearson, D., Beesley, T., & Le Pelley, M. E. (2019). Getting started with eye-tracking. In G. Foster (Ed.), *Biophysical measurement in experimental social science research*. Oxford, UK: Elsevier.

CONFERENCE PRESENTATIONS AND POSTERS (FIRST AUTHOR)

Pearson, D., Albertella, L., Le, J., Porter, A., & Le Pelley, M. (2018). Examining the test-retest reliability of reward-modulated attentional biases. International Meeting of the Psychonomic Society. Amsterdam, The Netherlands.

Pearson, D. & Le Pelley, M. (2018). Learning to avoid looking: The effect of reward on attentional capture and control. 16th Annual Forensic & Clinical Psychology Research Conference. UNSW Sydney, Sydney.

Pearson, D., Watson, P., Cheng, P., & Le Pelley, M. (2018). Investigating attentional suppression of reward-related distractors. Australian Learning Group Christmas Workshop. UNSW Sydney, Sydney.

Pearson, D., Watson, P., Cheng, P., & Le Pelley, M. (2018). Investigating attentional suppression of reward-related distractors. 58th Annual Meeting of the Psychonomic Society. New Orleans, LA, USA.

Pearson, D., Albertella, L., Le, J., Porter, A., & Le Pelley, M. (2017). Examining the test-retest reliability of value-modulated attentional capture. Australian Learning Group Christmas Workshop. University of Sydney, Australia.

Pearson, D. & Le Pelley, M. (2017). Looking to avoid looking: Evidence for limited goal-directed control over value-modulated oculomotor capture. 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.

Pearson, D. & Le Pelley, M. (2017). Rewarding outcomes can influence both attentional capture and suppression. Selective Attention and Individual Difference in Motivation and Emotion Forum [Meeting at the 2017 Experimental Psychology Conference]. Shoal Bay, Australia.

Pearson, D., Hall, G., & Le Pelley, M. (2016). Looking to attend and ignore: Opposing influences of reward learning on attentional capture and suppression. 57th Annual Meeting of the Psychonomic Society. Boston, USA.

Pearson, D. & Le Pelley, M. (2016). Looking to avoid: Instrumental control in value-modulated attentional capture [invited talk]. How applicable are models of animal conditioning to human associative learning? [Symposium at the Combined Meeting of the International Society for Comparative Psychology and the Australian Learning Group]. University of Sydney, Australia.

Pearson, D., Whitford, T., & Le Pelley, M. (2016). Learning to attend and ignore: The influence of reward learning on attentional capture and suppression. European Conference on Visual Perception. Barcelona, Spain.

Pearson, D. & Le Pelley, M. (2015). Reward learning influences electrophysiological correlates of attentional capture and suppression. Associative Learning Symposium XIX. Gregynog Hall, Wales.

Pearson, D. & Le Pelley, M. (2015). Training, not volitional cognitive control, affects the magnitude of value modulated attentional capture. Australian Learning Group Midyear Conference. Blue Mountains, Australia.

Pearson, D. & Le Pelley, M. (2014). Don't look at the red circle: Instrumental, but not volitional, inhibition of value-modulated attentional capture. Australian Learning Group Christmas Workshop. UNSW Sydney, Australia.

Pearson, D. & Le Pelley, M. (2013). Productive and counterproductive attention: Learning about signals of value. Australian Learning Group Christmas Workshop. University of Sydney, Australia.

INVITED REVIEWER:

Attention, Perception, & Psychophysics

Human Brain Mapping

Journal of Experimental Psychology: Human Perception & Performance

Psychological Research