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## Professor Wendy J. Adams

### Academic Employment

2017-	University of Southampton	Director of Research, Psychology
2016-	University of Southampton	Professor, Psychology
2010-2016	University of Southampton	Associate Professor, Psychology*
2009-2010	Career break.	
2007-2009	University of Southampton	Senior Lecturer, Psychology*
2004-2007	University of Southampton	Lecturer, Psychology*
2003-2004	Career break.	
2000-2003	Glasgow University	Research Fellow, Psychology
1998-2000	University of California, Berkeley	Research Fellow, Vision Sciences

\*(Part time working 2004 – 2011).

### Education:

1994-1998	University of Sheffield	PhD, Binocular Vision (Psychology)
1991-1994	University of Sheffield	BSc (Hons), Psychology

### Peer-reviewed journal articles:

- Hedger N, Graf EW & **Adams WJ** (*under review*) Unmasking affective priming: no effect of subliminal primes on subsequent perception.
- Adams WJ**, Graf EW & Anderson M (*under review*) Breaking camouflage: binocular depth cues overcome disruptive colouration.
- Hedger N, Garner M & **Adams WJ** (*under review*) Do emotional faces capture attention, and does this depend on awareness? Evidence from the visual probe paradigm.
- Wilder J, **Adams WJ** & Murray RF (*under review*) Shape from shading under inconsistent illumination.
- Bartlett, L, Graf EW, Hedger N & **Adams WJ** (*under revision*) Motion adaptation and attention: A critical review and meta-analysis. *Neuroscience and Biobehavioural Reviews*.
- Adams WJ**, Landy MS, Kucukoglu G & Mantiuk R (*in press*) Naturally glossy: Gloss perception, illumination statistics and tone mapping. *Journal of Vision*
- Martin-Key NA, Graf EW, **Adams WJ** & Fairchild G (2018). Facial emotion recognition and eye movement behaviour in conduct disorder. *Journal of Child Psychology & Psychiatry*, 59(3), 247-257. DOI: 10.1111/jcpp.12795
- Bartlett L, Graf EW & **Adams WJ** (2018). The effects of attention and adaptation duration on the motion aftereffect. *Journal of Experimental Psychology: Human Perception and Performance*.

- Ehinger K, **Adams WJ**, Graf EW & Elder JH (2017). Local depth edge detection in humans and deep neural networks. *In ICCV Workshop on Mutual Benefits of Cognitive and Computer Vision*
- Adams WJ**, Elder JH, Graf EW, Leyland J, Lugtigheid A & Murry A (2016) The Southampton-York Natural Scenes (SYNS) dataset: statistics of surface attitude. *Scientific Reports*. 6 35805
- Short RML, **Adams WJ**, Garner M, Sonuga-Barke EJS, Fairchild G (2016) Attentional biases to emotional faces in adolescents with conduct disorder, anxiety disorders and comorbid conduct and anxiety disorders. *Journal of Experimental Psychopathology* 7(3) 466-483.
- Hedger, N., Gray KLH, Garner, M. & **Adams, W.J.** (2016) Are visual threats prioritised without awareness? A critical review and meta analysis involving 3 behavioural paradigms and 2696 observers. *Psychological Bulletin* 142(9), 934-968
- Adams, W.J.** (2016) The Development Of Audio-Visual Integration For Temporal Judgements. *PLOS Computational Biology*. 12(4): e1004865
- Adams, W.J.**, Kerrigan IS & Graf, EW (2016) Touch influences perceived gloss. *Scientific Reports*. 6 21866.
- Short RML, Sonuga-Barke EJS, **Adams, W.J.** , Fairchild G (2016) Does Comorbid Anxiety Counteract Emotion Recognition Deficits in Conduct Disorder? *Journal of Child Psychology and Psychiatry*. 57(8) 917-26.
- Hedger, N., **Adams, W.J.** and Garner, M. (2015) Fearful faces have a sensory advantage in the competition for awareness. *Journal of Experimental Psychology Human Perception & Performance* 41(6) 1748-57.
- Hedger N, **Adams WJ** & Garner M (2015). Autonomic arousal and attentional orienting to visual threat are predicted by awareness. *Journal of Experimental Psychology Human Perception & Performance* 41(3) 798-806.
- Adams WJ** & Elder JH (2014). Effects of specular highlights on perceived surface convexity. *PLOS Computational Biology*. 10(5): e1003576. doi:10.1371/journal.pcbi.1003576
- Kerrigan IS & **Adams WJ** (2013). Learning different light prior distributions for different contexts. *Cognition*, 127(1), 99-104.
- Gray KLH, **Adams WJ**, Hedger N, Newton KE & Garner M (2013) Faces and awareness: low-level, not emotional factors determine perceptual dominance. *Emotion*. 13(3), 537-44.
- Kerrigan IS & **Adams WJ** (2013). Highlights, disparity and perceived gloss with convex and concave surfaces. *Journal of Vision*. 13(1), art 9, 1-10.
- Adams WJ**, Gray KLH, Garner MJ, & Graf EW. (2011). On the 'special' status of emotional faces...Comment on Yang, Hong, and Blake (2010). *Journal of Vision*, 11(3), art. 10.
- Adams WJ**, Kerrigan IS, Graf EW (2010). Efficient visual recalibration from either visual or haptic feedback: The importance of being wrong. *Journal of Neuroscience*, 30(44), 14745 - 14749.
- Adams WJ**, Gray KLH, Garner M and Graf EW (2010). High-level face adaptation without awareness. *Psychological Science*, 21(2), 205 - 210.
- Knapen T, Brascamp J, **Adams WJ**, Graf EW (2009). The spatial scale of perceptual memory in ambiguous figure perception. *Journal of Vision*, 9(13), art. 16, 1 -12.

- Taya S, **Adams WJ**, Graf EW, Lavie N (2009). The fate of task-irrelevant visual motion: Perceptual load versus feature-based attention. *Journal of Vision*, 9(12), art. 12, 1 - 10.
- Lages M, **Adams WJ**, Graf EW (2009). Motion-aftereffect-induced blindness. *Journal of Vision*, 9(11) art. 11, 1-7.
- Gray KLH, **Adams WJ** and Garner M (2009). The influence of anxiety on the initial selection of emotional faces presented in binocular rivalry. *Cognition*, 113 (1), 105 - 110.
- Graf, EW & **Adams, WJ** (2008). Surface organisation influences bi-stable vision. *Journal of Experimental Psychology: Human Perception and Performance*, 34(2), 502-508.
- Adams, WJ** (2008). Frames of reference for the light-from-above prior in visual search and shape judgements. *Cognition*, 107, 1, 137-50.
- Champion, RA and **Adams, WJ** (2007). Modification of the convexity prior but not the light-from-above prior in visual search with shaded objects. *Journal of Vision*, 7, (13), 1-10.
- Adams, WJ** (2007). A common light-prior for visual search, shape, and reflectance judgments. *Journal of Vision*, 7, (11), 1-7.
- Adams, WJ**, & Mamassian P. (2004). Bayesian combination of ambiguous shape cues. *Journal of Vision*, 4, (10), 921-929.
- Adams, WJ**, Graf, EW & Ernst, MO. (2004) Experience can change the 'light-from-above' prior. *Nature Neuroscience*, 7, (10), 1057-1058.
- Graf, EW, **Adams, WJ** & Lages, M. (2004). Prior depth information can bias motion perception. *Journal of Vision*, 4, (6), 427-433.
- Adams, WJ** & Mamassian, P. (2004). The effects of task and saliency on latencies for colour and motion processing. *Proceedings of the Royal Society B: Biological Sciences*, 271, (1535), 139-146.
- van Ee, R, **Adams, WJ** & Mamassian, P. (2003). Bayesian modelling of cue interaction: bi-stability in stereoscopic slant perception. *Journal of the Optical Society of America A.*, 20, (7), 1398-1406.
- Adams, WJ.** and Mamassian, P. (2002). Common mechanisms for 2D tilt and 3D slant after-effects. *Vision Research*, 42, (23), 2563-2568.
- Graf, EW., **Adams, WJ.** and Lages, M. (2002). Modulating motion induced blindness with surface completion and depth ordering. *Vision Research*, 42, (25), 2731-2735.
- Adams, WJ.**, Banks, MS. and van Ee, R. (2001). Adaptation to three-dimensional distortions in human vision. *Nature Neuroscience*, 4, (11), 1063-1064.
- Domini, F, **Adams, W** and Banks, MS.(2001). 3D after-effects are due to shape and not disparity adaptation. *Vision Research*, 41, (21), 2733-2739.
- Porrill, J, Frisby, JP., **Adams, WJ.** and Buckley, D. (1999). Robust and optimal use of information in stereo vision. *Nature*, 397, 63-66.
- Adams, W**, Frisby, JP., Buckley, D, Gårding, J, Hippisley-Cox, SD. and Porrill, J. (1996). Pooling of vertical disparities by the human visual system. *Perception*, 25, (2), 165-176.

## Grant Funding

- 2019-2022** EPSRC, UK (PI) "ROSSINI: Reconstructing 3D structure from single images: a perceptual reconstruction approach". £344,130.

- 2017-2021** Horizon 2020 Innovative Training Network (EU). “Dynamics in Vision and Touch - the look and feel of stuff (DyViTo)”. €2,834,980
- 2013-2016** EPSRC, UK (PI) “Human Vision: Relationship to three-dimensional surface statistics of natural scenes” £510,000.
- 2009-2009** British Academy (PI) £6000
- 2005-2008** EPSRC, UK (PI) “Prior assumptions in human visual processing” £125,450.
- 2003-2006** Wellcome Trust, UK (co-applicant) “Psychophysical investigations of human visual processing” £105,670.

### **Research Supervision (PhD students):**

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|------------------------------------|-----------------------------------|
| Katie Gray (Completed 2011)        | Iona Kerrigan (Completed 2012)    |
| Jenny Josephs (Completed 2013)     | Roxy Short (Completed 2016).      |
| Nicholas Hedger (Completed 2016)   | Nayra Martin-Key (Completed 2016) |
| Laura Bartlett (To Complete 2017). | Gizem Kucukoglu (Completed 2016)  |
| Matt Anderson (To Complete 2019)   | Walter Wang (To Complete 2019)    |
| Daide Deflorio (To Complete 2021)  |                                   |

### **Professional Activity**

**Associate Editor:** Attention, Perception & Psychophysics; Multisensory Research

**Action Editor:** JEP:HPP

**Grant evaluation panel:** EPSRC

**Grant reviewer:** EPSRC (UK), ESRC (UK) NSF (USA), RGC (Hong Kong)

**Journal reviewer:** *J. of Vision*, *Current Biology*, *Cognition*, *Open Biology* and many more

**PhD examination:** University of Bangor (2011), Université Paris Descartes (2012), University of Birmingham (2013), University of Bradford (2013), University of Bangor (2014), University of Edinburgh (2015), University of Durham (2016).