

Publications for Bart Anderson

2018

Anderson, B., Burr, D. (2018). Visual Perception: To Curve or Not to Curve. *Current Biology*, 28(4), R150-R152. [More Information]

2017

Marlow, P., Kim, J., Anderson, B. (2017). Perception and misperception of surface opacity. *Proceedings of the National Academy of Sciences of the United States of America*, 114(52), 13840-13845. [More Information]

Schmid, A., Anderson, B. (2017). Perceptual dimensions underlying lightness perception in homogeneous center-surround displays. *Journal of Vision*, 17(2), 1-20. [More Information]

Ratnasingam, S., Anderson, B. (2017). What predicts the strength of simultaneous color contrast. *Journal of Vision*, 17(2), 1-17. [More Information]

2016

Marlow, P., Anderson, B. (2016). Motion and texture shape cues modulate perceived material properties. *Journal of Vision*, 16(1), 1-14. [More Information]

2015

Anderson, B. (2015). Bart Anderson. *Current Biology*, 25(15), R640-R642. [More Information]

Anderson, B. (2015). Can Computational Goals Inform Theories of Vision? *Topics in Cognitive Science*, 7(2), 274-286. [More Information]

Marlow, P., Todorovic, D., Anderson, B. (2015). Coupled computations of three-dimensional shape and material. *Current Biology*, 25(6), R221-R222. [More Information]

Marlow, P., Anderson, B. (2015). Material properties derived from three-dimensional shape representations. *Vision Research*, 115, 199-208. [More Information]

Anderson, B. (2015). The perceptual representation of transparency, lightness, and gloss. In Johan Wagemans (Eds.), *The Oxford Handbook of Perceptual Organization*, (pp. 1-16). Oxford: Oxford University Press. [More Information]

Ratnasingam, S., Anderson, B. (2015). The role of chromatic variance in modulating color appearance. *Journal of Vision*, 15(5), 1-12. [More Information]

Anderson, B. (2015). Where does fitness fit in theories of perception? *Psychonomic Bulletin and Review*, 22, 1507-1511. [More Information]

2014

Kim, J., Jeng, K., Anderson, B. (2014). Amodal completion is modulated by lightness similarity. *Attention, Perception, and Psychophysics*, 76(1), 98-111. [More Information]

Schmid, A., Anderson, B. (2014). Do surface reflectance properties and 3-D mesostructure influence the perception of lightness? *Journal of Vision*, 14(8)(24), 1-24. [More Information]

Anderson, B., Whitbread, M., de Silva, C. (2014). Lightness, brightness, and anchoring. *Journal of Vision*, 14(9), 1-13. [More Information]

Mooney, S., Anderson, B. (2014). Specular image structure modulates the perception of three-dimensional shape. *Current Biology*, 24, 2737-2742. [More Information]

Kim, J., Marlow, P., Anderson, B. (2014). Texture-shading flow interactions and perceived reflectance. *Journal of Vision*, 14(7), 1-19. [More Information]

Anderson, B. (2014). The perceptual organization of depth, lightness, color, and opacity. In John S Werner, Leo M Chalupa (Eds.), *The New Visual Neurosciences*, (pp. 653-664). Cambridge: MIT Press.

2013

Anderson, B. (2013). Filling-in the gaps in models of completion. *Cognitive Neuroscience*, 4(1), 48-49. [More Information]

Marlow, P., Anderson, B. (2013). Generative constraints on image cues for perceived gloss. *Journal of Vision*, 13(14), 1-23. [More Information]

2012

Anderson, B. (2012). Bird-Brained Illusionists. *Science*, 335(6066), 292-293. [More Information]

Kim, J., Marlow, P., Anderson, B. (2012). The dark side of gloss. *Nature Neuroscience*, 15(11), 1590-1595. [More Information]

Marlow, P., Kim, J., Anderson, B. (2012). The perception and misperception of specular surface reflectance. *Current Biology*, 22(20), 1-5. [More Information]

Anderson, B., Schmid, A. (2012). The role of amodal surface completion in stereoscopic transparency. *Frontiers in Psychology*, 3(SEP 2012), 1-11. [More Information]

2011

Anderson, B., O'Vari, J., Barth, H. (2011). Non-Bayesian Contour Synthesis. *Current Biology*, 21, 492-496. [More Information]

Anderson, B. (2011). The myth of computational level theory and the vacuity of rational analysis. *Behavioral and Brain Sciences*, 34, 189-190.

Kim, J., Marlow, P., Anderson, B. (2011). The perception of gloss depends on highlight congruence with surface shading. *Journal of Vision*, 11(9), 1-19. [More Information]

Marlow, P., Kim, J., Anderson, B. (2011). The role of brightness and orientation congruence in the perception of surface gloss. *Journal of Vision*, 11(9), 1-12.

Anderson, B., Khang, B., Kim, J. (2011). Using color to understand perceived lightness. *Journal of Vision*, 11(13), 1-13. [More Information]

Anderson, B. (2011). Visual perception of materials and surfaces. *Current Biology*, 21(24), R978-R983. [More Information]

2010

Kim, J., Anderson, B. (2010). Image statistics and the perception of surface gloss and lightness. *Journal of Vision*, 10(9), 1-17. [More Information]

Anderson, B., Khang, B. (2010). The role of scission in the perception of color and opacity. *Journal of Vision*, 10(5), 1-16. [More Information]

2009

Gillam, B., Anderson, B., Rizwi, F. (2009). Failure of facial configural cues to alter metric stereoscopic depth. *Journal of Vision*, 9(1), 1-5. [More Information]

Anderson, B., Kim, J. (2009). Image statistics do not explain the perception of gloss and lightness. *Journal of Vision*, 9(11), 1-17. [More Information]

Anderson, B. (2009). Revisiting the relationship between transparency, subjective contours, luminance, and color spreading. *Perception*, 38(6), 869-871. [More Information]

Wollschlager, D., Anderson, B. (2009). The role of layered scene representations in color appearance. *Current Biology*, 19(5), 430-435. [More Information]

2008

Anderson, B., Winawer, J. (2008). Layered image

representations and the computation of surface lightness. *Journal of Vision*, 8(7 Article 18), 1-22. [More Information]

Anderson, B., Singh, M., O'Vari, J. (2008). Natural Decompositions of Perceived Transparency: Reply to Albert (2008). *Psychological Review*, 115(4), 1144-1151. [More Information]

Anderson, B., Singh, M., O'Vari, J. (2008). Postscript: Qualifying and quantifying constraints on perceived transparency. *Psychological Review*, 115(4), 1151-1153. [More Information]

Anderson, B. (2008). Transparency and Occlusion. In R H Masland, T Albright (Eds.), *The Senses: A comprehensive Reference, Vol. 2, Vision II*, (pp. 239-245). Oxford: Elsevier.

2007

Anderson, B. (2007). Filling-In Models of Completion: Rejoinder to Kellman, Garrigan, Shipley, and Keane (2007) and Albert (2007). *Psychological Review*, 114(2), 509-525. [More Information]

Anderson, B. (2007). Postscript: Filling-In Models of Completion. *Psychological Review*, 114(2), 525-527. [More Information]

Anderson, B. (2007). The Demise of the Identity Hypothesis and the Insufficiency and Nonnecessity of Contour Relatability in Predicting Object Interpolation: Comment on Kellman, Garrigan, and Shipley (2005). *Psychological Review*, 114(2), 470-487. [More Information]

2006

Grove, P., Brooks, K., Anderson, B., Gilliam, B. (2006). Erratum to: Monocular Transparency and unpaired stereopsis. *Vision Research*, 46, 3042-3053. [More Information]

Grove, P., Brooks, K., Anderson, B., Gillam, B. (2006). Monocular transparency and unpaired stereopsis. *Vision Research*, 46(10), 1695-1705. [More Information]

Singh, M., Anderson, B. (2006). Photometric determinants of perceived transparency. *Vision Research*, 46, 879-894. [More Information]

Anderson, B., Singh, M., Meng, J. (2006). The perceived transmittance of inhomogeneous surfaces and media. *Vision Research*, 46(12), 1982-1995. [More Information]

2005

Anderson, B., Winawer, J. (2005). Image segmentation and lightness perception. *Nature*, 434, 79-83. [More Information]

2003

Anderson, B. (2003). Perceptual organization and White's

illusion. *Perception*, 32, 269-284. [More Information]

Fleming, R., Anderson, B. (2003). The Perceptual Organization of Depth. In Leo M. Chalupa, John S. Werner (Eds.), *The Visual Neurosciences*, (pp. 1284-1299). United States: The MIT Press.

Anderson, B. (2003). The Role of Occlusion in the Perception of Depth, Lightness, and Opacity. *Psychological Review*, 110(4), 785-801. [More Information]