

Stacey Aston

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POSITIONS

RESEARCH ASSOCIATE

Project: Learning to perceive and act under uncertainty

PI: Dr Marko Nardini

2017-Present | Durham University, UK

EDUCATION

PHD, COLOUR VISION

Thesis: Using an Illumination Discrimination Paradigm to Investigate the Role of

Illumination Priors in Colour Perception

Supervisors: Prof Anya Hurlbert

2014-2017 | Newcastle University, UK

MRES, NEUROSCIENCE

Project: Studies on the Human Visual System

Supervisors: Prof Anya Hurlbert, Dr Hamish McAllister-Williams, Dr Mark Cunningham

2013-2014 (Distinction) | Newcastle University, UK

MPHIL, PURE MATHEMATICS

Thesis: Some Subgroups of the Modular Group and Wicks Forms

Supervisors: Dr Alina Vdovina, Dr Andrew Duncan

2011-2013 | Newcastle University, UK

MMATH, MATHEMATICS AND STATISTICS

Project: Results in Additive Combinatorics

Supervisor: Dr Michael Dritschel

2007-2011 (First Class Honours) | Newcastle University, UK

SUMMER SCHOOLS

EEGLAB, Sheffield, UK | 2015

Colour Vision (ICVS), Oxford, UK | 2016

Visual Neuroscience, Germany | 2016

PROGRAMMING

MATLAB • Python • R • \LaTeX

AWARDS

IoN Poster Prize, 2015

PUBLICATIONS

Aston, S., Olkkonen, M. & Hurlbert, A. C. (in prep). Memory effects, central tendency, serial dependency or just task bias? An investigation using illumination hue discrimination.

Aston, S., Radonjic, A., Brainard, D. H., & Hurlbert, A. C. (under review). Illumination discrimination for chromatically biased illuminations: implications for colour constancy.

Radonjic, A., Ding, D., Krieger, A., **Aston, S.**, Hurlbert, A. C., & Brainard, D. H. (2018). Illumination discrimination in the absence of a fixed surface-reflectance layout. *Journal of Vision*

Aston, S., & Hurlbert, A. C. (2017). What #the Dress reveals about the role of illumination priors in color perception and color constancy. *Journal of Vision*

Radonjic, A., Pearce, B., **Aston, S.**, Krieger, A., Dubin, H., Cottaris, N. P., Brainard, D. H., & Hurlbert, A. C. (2016). Illumination discrimination in real and simulated scenes. *Journal of Vision*

TALKS

Aston, S. (2017). Memory effects, central tendency, serial dependency or just task bias? An investigation using illumination hue discrimination. *ECVP, Berlin*.

Aston, S. (2016). Constant differences: modelling inter-individual variations in colour constancy. *Durham Vision Meeting, Durham*.

Aston, S. (2016). The limits of human illumination discrimination ability. *Colouring the Future Summer School, Tuebingen*.

Aston, S. (2016). Are we at the bottom of the stairs? A test of staircase convergence. *Adventures in Staircases Workshop, Newcastle. (Co-organiser)*.

POSTERS

Aston, S., Barnes, S., Beierholm, U., Nardini, M. (2018). Learning and Combining Novel Perceptual Cues. *ECVP, Trieste*.

Aston, S., Olkkonen, M., & Hurlbert, A. (2017). Memory Bias for Illumination Colour. *VSS, Florida*.

Aston, S., Turner, J., Le Couter Bisson, T., Jordan, G., & Hurlbert, A. (2016). Better colour constancy or worse discrimination? Illumination discrimination in colour anomalous observers. *ECVP, Barcelona*.

Aston, S., Groombridge, J., Pearce, B. & Hurlbert, A. (2015). Thresholds for colour constancy measured via illumination discrimination depend on adaptation point. *ECVP, Liverpool*.