

## Nonie J. Finlayson

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### Education

Degree	Institution	Year
PhD	The University of Queensland	2014
BPsySc (1st Class Hons)	The University of Queensland	2008

### Academic Positions

- 2016-Present **Postdoctoral Researcher**, Department of Experimental Psychology, University College London, UK, with Dr Sam Schwarzkopf
- 2013-2016 **Postdoctoral Researcher**, Department of Psychology, The Ohio State University, USA, with Professor Julie Golomb, Vision & Cognitive Neuroscience Lab
- 2010-2014 **PhD Candidate** (Cognitive Psychology), School of Psychology, The University of Queensland, Australia, with Dr Philip Grove & Professor Roger Remington
- 2008 **QBI Honours Student**, Queensland Brain Institute, The University of Queensland, Australia, with Professor Jason Mattingley

### Publications

#### *Journal publications*

- Finlayson, N.J.**, Papageorgiou, A., & Schwarzkopf, D.S. (2017). A new method for mapping perceptual biases across visual space. *Journal of Vision*, 17(9):5, 1-9.
- Finlayson, N.J.** & Golomb, J.D. (2017). 2D location biases depth judgments but not vice versa. *Visual Cognition*, 1-12.
- Finlayson, N.J.**, Zhang, X., & Golomb, J.D. (2017). Differential patterns of 2D location versus depth decoding along the visual hierarchy. *NeuroImage*, 147, 507-516.
- Finlayson, N.J.** & Golomb, J.D. (2016). Feature-location binding in 3D: Feature judgments are biased by 2D location but not position-in-depth. *Vision Research*, 127, 49-56.
- Finlayson, N.J.** & Grove, P.M. (2015). Visual search is influenced by 3D spatial layout. *Attention, Perception, & Psychophysics*, 77(7), 2322-2330.
- Grove, P.M., **Finlayson, N.J.**, & Ono, H. (2014). The effect of stimulus size on stereoscopic fusion limits and response criteria. *Perception*, 43(2-3), 155-177.

- Finlayson, N.J.**, Remington, R.W., Retell, J.D., & Grove, P.M. (2013). Segmentation by depth does not always facilitate visual search. *Journal of Vision*, 13(8):11.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2012). The role of presentation method and depth singletons in visual search for objects moving in depth. *Journal of Vision*, 12(8):13, 1-9.

#### *Under Review*

- Finlayson, N.J.**, Manser-Smith, K., Balraj, A., de Haas, B., & Schwarzkopf, D.S. (Under Review). The optimal experimental design for Multiple Alternatives Perceptual Search.
- Finlayson, N.J.**, Remington, R.W., Harrold, A., & Grove, P.M. (Under Review). 3D visual search: Attention is guided by surfaces and depth from binocular vision.

#### *Conference Presentations*

- Finlayson, N.J.**, Neacsu, V., & Schwarzkopf, D.S. (2017). Spatial heterogeneity within perception of bistable images. *ECVP*, Berlin, Germany: 27-31<sup>st</sup> Aug, poster.
- Stoll, S., **Finlayson, N.J.**, & Schwarzkopf, D.S. (2017). The topographic representation of global object perception in human visual cortex. *ECVP*, Berlin, Germany: 27-31<sup>st</sup> Aug, poster.
- Finlayson, N.J.**, de Hass, B., Ei, S., & Schwarzkopf, D.S. (2017). Heritability of visual perception and cortical architecture. *VSS*, St Pete Beach, Florida: 19-24<sup>th</sup> May, poster.
- Stoll, S., **Finlayson, N.J.**, & Schwarzkopf, D.S. (2017). The topographic representation of global object perception in human visual cortex. *VSS*, St Pete Beach, Florida: 19-24<sup>th</sup> May, talk.
- Golomb, J.D., Berman, D.E., & **Finlayson, N.J.** (2017). “Depth-otopic” mapping of human visual cortex. *VSS*, St Pete Beach, Florida: 19-24<sup>th</sup> May, talk.
- Finlayson, N.J.**, Neacsu, V., & Schwarzkopf, D.S. (2016). Spatial heterogeneity in the perception of bistable images. *AVA Christmas Meeting*, London, UK: 19<sup>th</sup> Dec, poster.
- Moutsiana, C., de Hass, B., Papageorgiou, A., **Finlayson, N.J.**, & Schwarzkopf, D.S. (2016). Population coding in visual cortex underlies visual size perception. *Society for Neuroscience Meeting*. San Diego, CA: 12-16 Nov, poster.
- Finlayson, N.J.** (2016). How important is the top-down contribution to vision? *Cambridge Vision Workshop*, Cambridge, UK: 20-21<sup>st</sup> Oct, talk.
- Finlayson, N.J.** & Golomb, J.D. (2016). Are 2D and 3D location equally prioritized in object processing? *VSS*, St Pete Beach, Florida: 13-18<sup>th</sup> May, poster.
- Berman, D., **Finlayson, N.J.**, & Golomb, J.D. (2016). Depth preferences of category-selective regions in human visual cortex. *VSS*, St Pete Beach, Florida: 13-18<sup>th</sup> May, poster.
- Barboza, M., **Finlayson, N.J.**, Zhang, X., & Golomb, J.D. (2016). Feature-location binding, the “spatial congruency bias”, and object-based attention. *VSS*, St Pete Beach, Florida: 13-18<sup>th</sup> May, poster.
- Finlayson, N.J.** & Golomb, J.D. (2016). Feature-location binding in 3D: Feature judgments are biased by 2D location but not position-in-depth. *AVA/SVG*, Peebles, Scotland: 8-10<sup>th</sup> Apr, poster.
- Finlayson, N.J.** & Golomb, J.D. (2015). Feature-location binding in 3D: Does the “spatial congruency bias” extend to depth position? *Psychonomics*, Chicago, IL: 19-22<sup>nd</sup> Nov, poster.

- Berman, D., **Finlayson, N.J.**, & Golomb, J.D. (2015). Topographic maps of depth in human visual cortex. *Society for Neuroscience Meeting*. Chicago, IL: 17-21<sup>st</sup> Oct, poster.
- Finlayson, N.J.** & Golomb, J.D. (2015). The representation and perception of 3D space: Interactions between 2D location and depth. *Object and Perception Annual Meeting*, Chicago, IL: 19<sup>th</sup> Nov, talk.
- Finlayson, N.J.** & Golomb, J.D. (2015). Depth, 2D space, and the “spatial congruency bias”. *Center for Cognitive & Behavioral Sciences Workshop*, Deer Lodge, OH: 18-19 Sept, poster.
- Finlayson, N.J.**, Zhang, X., & Golomb, J.D. (2015). Human visual cortex gradually transitions from 2D to 3D spatial representations. *Vision Sciences Society Meeting*, St Pete Beach, Florida: 15-20<sup>th</sup> May, talk.
- Berman, D., **Finlayson, N.J.**, & Golomb, J.D. (2015). Topographic maps of depth in human visual cortex. *Vision Sciences Society Meeting*, St Pete Beach, Florida: 15-20<sup>th</sup> May, poster.
- Finlayson, N.J.**, Kupitz, C.N., & Golomb, J.D. (2014). Decoding depth: Representations of 3D versus 2D spatial information in human visual cortex. *Society for Neuroscience Meeting*. Washington, DC: 15-19 Nov, poster.
- Finlayson, N.J.** & Golomb, J.D. (2014). Representations of 3D versus 2D spatial information in human visual cortex. *Center for Cognitive & Behavioral Sciences Workshop*, Mohican Lodge, OH: 19-20 Sept, talk.
- Finlayson, N.J.** & Grove, P.M. (2014). Visual search is influenced by 3D spatial layout. *Vision Sciences Society Meeting*. St Pete Beach, Florida: 16-21 May, poster.
- Finlayson, N.J.**, Remington, R.W., Retell, J.D., & Grove, P.M. (2013). The effects of grouping search elements by depth on target selection. *Vision Sciences Society Meeting*. Naples, Florida: 10-15 May, poster.
- Finlayson, N.J.** & Grove, P.M. (2013). Exploring the parameters of visual search in 3D space. *Proceedings of the 40<sup>th</sup> Australasian Experimental Psychology Conference*. Adelaide, Australia: 4-7 April, talk.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2012). The role of presentation and depth singletons in the prioritization of approaching but not receding motion in depth. *Vision Sciences Society Meeting*. Naples, Florida: 10-16 May, poster.
- Finlayson, N.J.**, Remington, R.W., Retell, J.D., & Grove, P.M. (2012). Visual search in 3D: Conjunction search efficiency is modulated by disparity information. *Proceedings of the 39<sup>th</sup> Australasian Experimental Psychology Conference*. Sydney, Australia: 12-15 April, talk.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2011). Visual search in depth: Longer shifts or larger space? *UQ Centre for Perception and Cognitive Neuroscience Workshop*. Brisbane, Australia: 1-2 Dec, talk.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2011). Presenting motion-in-depth: How depth singletons and depth cues influence attentional capture. *Proceedings of the 38<sup>th</sup> Australasian Experimental Psychology Conference*. Auckland, New Zealand: 28-30 April, poster.
- Grove, P.M., **Finlayson, N.J.**, Ono, H. (2011). The effects of stimulus size on stereoscopic fusion limits and response criteria. *I-Perception*. 2(4), 401, talk.
- Finlayson, N.J.** (2010). Taking a closer look at capture by motion in depth: Attention to motion or depth? *The inaugural Centre for Perception and Cognitive Neuroscience Workshop*. Brisbane, Australia: 2-3 Dec, talk.

## Theses

**Finlayson, N.J.** (2014). Visual search in 3D space: Deploying attention in depth. *PhD dissertation*. The University of Queensland, Brisbane, Australia.

**Finlayson, N.J.** (2008). ‘Not your average cup of tea’: The influence of action affordances on visual search. *Unpublished honours thesis*, The University of Queensland, Brisbane, Australia.

## Invited Talks & Lectures

- 2017      Sensory Neuroscience Lecture, UCL Neuroscience Masters, “*Depth Perception and Attention*”
- 2017      Bayslab talk, University of Cambridge
- 2016      Experimental Psychology Seminar, University College London
- 2016      Bedford Way Vision Workshop, University College London
- 2016      B-REAL lab talk, School of Psychology, University of Queensland
- 2015      UMN Perception Talk, Department of Psychology, UMN
- 2014      Wolfe Lab Seminar, Brigham and Women’s Hospital, Harvard Medical School
- 2013      Cognitive Proseminar Series, The Ohio State University
- 2013      Bex Lab, Schepens Eye Research Institute, Boston
- 2012      Visual Cognition Lab, Northwestern University

## Awards and Scholarships

- 2010-2013      Australian Postgraduate Award, Australian Government and The University of Queensland
- 2011-2013      APA Graduate Travel Awards, University of Queensland
- 2013      School of Psychology Award for Excellence in Tutoring
- 2013      Student Travel Grant, Experimental Psychology Conference (EPC), Adelaide
- 2011      Student Travel Grant, Experimental Psychology Conference (EPC), Auckland
- 2004-2008      Dean’s Commendation for High Achievement, The University of Queensland

## Professional Positions

- 2017      **International Development Quantitative Analysis Intern**, British Red Cross.
- 2013      **Research Administration Officer**, Research and Innovation, The University of Queensland, Australia, ARC *Discovery Projects* and ARC *DECRA* grant rounds
- 2010-2013      **Tutor** (Research Methods III, Neuroscience for Psychologists, Measurement in Psychology), School of Psychology, The University of Queensland, Australia
- 2010      **Research Assistant** (Human Factors and Health Psychology), School of Psychology, The University of Queensland, Australia, with Professor Mark Horswill

- 2009 **Research Assistant** (Health Psychology), Centre for Clinical Research, The University of Queensland, Australia, with Dr Ingrid Rowlands
- 2007-2008 **Research Assistant** (Human Learning and Memory), School of Psychology, The University of Queensland, Australia, with Professor Mike Humphreys, ARC Key Centre for Human Factors & Applied Cognitive Psychology
- 2006-2007 **Tutor** (Introductory Psychology, Music Theory), Emmanuel College, Sir William MacGregor Drive, St Lucia, QLD, Australia

### Ad-hoc Reviewing & Other Activities

Journals: *NeuroImage*; *Psychonomic Bulletin & Review*; *Frontiers in Psychology*; *Journal of Physiology*; *Journal of Vision*; *Attention, Perception, & Psychophysics*; *Human Brain Mapping*; *Psychological Research*; *Cognitive Research: Principles and Implications*; *Eye & Vision*; *iPerception*

- 2017 BUCNI MRI operator trainer
- 2017 Expert for *Secrets of the Brain* documentary, Season 2, Episode 10: Twins (Aired 3/11/17)
- 2016 Organised two-day Cambridge Vision Workshop (20-21/10/16)  
“*What have vision scientists learned in the past five years?*”
- 2015-2016 Matlab methods course
- 2012-2013 UQ Skeptics Student Organisation, President (2013) and Secretary (2012)

### Memberships

Vision Sciences Society; Society for Neuroscience; The Psychonomics Society; Applied Vision Association