

# Prof Marko Nardini

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## Education

2001–2005	University College London	PhD, Psychology
1995–1998	Oxford University	Philosophy and Psychology, BA (Hons)

## Academic Positions

2019–	Durham University	Professor, Dept. Psychology
2017–	Durham University	Associate Professor (Reader), Dept. Psychology
2013–2017	Durham University	Associate Professor / Senior Lecturer, Dept. Psychology
2013–	University College London	Honorary Senior Lecturer, Institute of Ophthalmology
2009–2013	University College London	Lecturer, Institute of Ophthalmology
2009–2013	Moorfields Eye Hospital	Faculty Investigator, NIHR Biomedical Research Centre
2008–2009	Birkbeck College	Post-doc (co-I), Ctr for Brain and Cognitive Development
2007–2008	University College London	Post-doc (co-I), Div. Psychology & Language Sciences
2006–2007	Oxford University	Post-doc (co-I), Dept. Experimental Psychology
2005–2007	Oxford University	Stipendiary Lecturer in Psychology, St. Anne's College
1999–2006	University College London	Research Assistant / Associate, Dept. Psychology
1998–1999	Birkbeck College	Research Assistant, Dept. Psychology

## Funding

**2019–2024** **PI: European Research Council, EUR 2m**  
*Consolidator grant, NewSense: Perception with new Sensory Signals*

**2017–2020** **PI: Leverhulme Trust, UK. £258k**  
*Learning to perceive and act under uncertainty*

**2016–2019** **PI: Economic and Social Research Council, UK. £548k**  
*Learning cue combination*

**2012–2015** **PI: NIHR BRC for Ophthalmology and Special Trustees of Moorfields Eye Hospital. £148k**  
*Development of new tests for visual assessment of infants and children*

**2012–2015** **PI: NIHR BRC for Ophthalmology and UCL. £64k**  
*New quantitative methods to assess locomotion and navigation in patients with visual impairments*

**2011–2014** **PI: Economic and Social Research Council, UK. £398k**  
*Economics of perceptual and motor decisions in childhood*

**2011–2014** **PI: Fight For Sight, UK. £168k**  
*Quick and reliable ways to measure vision in children with inherited sight loss*

**2011–2014** **PI: Special Trustees of Moorfields Eye Hospital and UCL. £81k**  
*New infant vision tests for studying disease mechanisms in inherited retinal dystrophies*

**2010–2016** **PI: James S. McDonnell Foundation, USA. \$600k**  
Scholar Award (International prize, by nomination)

**2008–2011 co-I: Economic and Social Research Council, UK. £396k.**

*Learning to combine sense and experience for optimal perceptual judgements*

**2007–2008 co-I: Economic and Social Research Council, UK. £97k.**

*Young children's use of visual landmarks: view matching or cognitive mapping?*

**2006–2007 co-i: Economic and Social Research Council, UK. £80k.**

*Perception/action interactions in children's spatial representations*

## Publications

### *Journal articles*

Negen J, Bird L, Slater H, Thaler L, Nardini M (in press). Multisensory perception and decision-making with a new sensory skill. *Journal of Experimental Psychology: Human Perception and Performance*

Aston S, Pattie C, Graham R, Slater H, Beierholm U, Nardini M (2022). Newly learned shape-color associations show signatures of reliability-weighted averaging without forced fusion or a memory color effect. *Journal of Vision* 22(13): 8, 1-18.

Negen J, Slater H, Bird L, Nardini M (2022). Internal Biases Are Linked to Disrupted Cue Combination in Children and Adults. *Journal of Vision* 22(12): 14, 1-22.

Wedge-Roberts R, Aston S, Beierholm U, Kentridge R, Hurlbert A, Nardini M, Olkkonen M (2022). Developmental changes in colour constancy in a naturalistic object selection task. *Developmental Science* e13306

Aston L, Beierholm U, Nardini M (2022). Newly learned novel cues to location are combined with familiar cues but not always with each other. *Journal of Experimental Psychology: Human Perception and Performance* 48(6): 639-652.

Negen J, Bird L, Nardini M (2021). An Adaptive Cue Selection Model of Allocentric Spatial Reorientation. *Journal of Experimental Psychology: Human Perception and Performance* 47(10): 1409-1429.

Nardini M (2021). Merging familiar and new senses to perceive and act in space. *Cognitive Processing* 22(1): 69-75.

Aston S, Negen J, Nardini M, Beierholm U (2021). Central tendency biases must be accounted for to consistently capture Bayesian cue combination in continuous response data. *Behavior Research Methods* 54(1): 508-521.

Wedge-Roberts R, Aston S, Beierholm U, Kentridge R, Hurlbert A, Nardini M, Olkkonen M (2020). Specular highlights improve colour constancy when other cues are weakened. *Journal of Vision* 20(12): 4, 1-22

Petrini K, Denis G, Love SA, Nardini M (2020). Combining the senses: the role of experience- and task-dependent mechanisms in the development of audiovisual simultaneity perception. *Journal of Experimental Psychology: Human Perception and Performance* 46(10), 1105–1117

Kiryakova R, Aston S, Beierholm U, Nardini M (2020). Bayesian transfer in a complex spatial localization task. *Journal of Vision* 20(6):17, 1–19

Negen J, Bird L, King E, Nardini M (2020). The Difficulty of Effectively Using Allocentric Prior Information in a Spatial Recall Task. *Scientific Reports* 10:7000

- Negen J, Sandri A, Lee SA, Nardini M (2020). Boundaries in Spatial Cognition: Looking like a Boundary is More Important than Being a Boundary. *Journal of Experimental Psychology: Language, Memory, and Cognition* 46(6), 1007–1021
- Negen J, Bou Ali L, Chere B, Roome HE, Park Y & Nardini M (2019). Coding Locations Relative to One or Many Landmarks in Childhood. *PLOS Computational Biology* 15(10): e1007380
- Negen J, Chere B, Bird L, Taylor E, Roome H, Keenaghan S, Thaler L & Nardini M (2019). Sensory Cue Combination in Children Under 10 Years of Age. *Cognition* 193, 104014.
- Javadi A, Patai E, Marin-Garcia E, Margois A, Tan H, Kumaran D, Nardini M, Penny W, Duzel E, Dayan P, Spiers H (2019). Backtracking during navigation is correlated with enhanced anterior cingulate activity and suppression of alpha oscillations and the ‘default-mode’ network. *Proceedings of the Royal Society B* 286: 20191016
- Javadi A, Patai E, Marin-Garcia E, Margois A, Tan H, Kumaran D, Nardini M, Penny W, Duzel E, Dayan P, Spiers H (2019). Prefrontal Dynamics Associated with Efficient Detours and Shortcuts: A Combined Functional Magnetic Resonance Imaging and Magnetoencephalography Study. *Journal of Cognitive Neuroscience* 31(8), 1227-47
- Jones PR, Landin L, McLean A, Juni MZ, Maloney LT, Nardini M, Dekker, TM (2019). Efficient visual information sampling develops late in childhood. *Journal of Experimental Psychology: General* 148(7), 1138-52
- Dekker TM, Schwarzkopf DS, de Haas B, Nardini M, Sereno MI (2019). Population receptive field tuning properties of visual cortex during childhood. *Developmental Cognitive Neuroscience* 37, 100694
- Nardini M, Dekker TM (2019). Observer Models of Perceptual Development. *Behavioral and Brain Sciences* 41, e238
- Negen J, Wen L, Thaler L, Nardini M (2018). Bayes-Like Integration of a New Sensory Skill with Vision. *Scientific Reports* 8:16880
- Negen J, Roome HE, Keenaghan S, Nardini M (2018). Effects of two-dimensional versus three-dimensional landmark geometry and layout on young children’s recall of locations from new viewpoints. *Journal of Experimental Child Psychology* 170, 1-29.
- Negen J, Heywood-Everett E, Roome HE, Nardini M (2018). Development of allocentric spatial recall from new viewpoints in virtual reality. *Developmental Science*. 21(1): e12496.
- Thomas RL, Nardini M, Mareschal D (2017). The impact of semantically congruent and incongruent visual information on auditory object recognition across development. *Journal of Experimental Child Psychology* 162, 72-88
- Garcia SE, Jones PR, Reeve, EI, Michaelides M, Rubin GS, Nardini M (2017). Multisensory cue combination after sensory loss: audio-visual localization in patients with progressive retinal disease. *Journal of Experimental Psychology: Human Perception and Performance* 43(4), 729-740
- Garcia SE, Jones PR, Rubin GS, Nardini M (2017). Auditory localisation biases increase with sensory uncertainty. *Scientific Reports* 7:40567
- Petrini K, Caradonna A, Foster C, Burgess N, Nardini M (2016). How vision and self-motion combine or compete during path reproduction changes with age. *Scientific Reports* 6:29163

- Jones PR, Yasoubi N, Nardini M, Rubin GS (2016). Feasibility of Macular Integrity Assessment (MAIA) microperimetry in children: Sensitivity, reliability, and fixation stability in healthy observers. *Investigative Ophthalmology & Visual Science* 57(14), 6349-6359
- Burton E, Wattam-Bell J, Rubin GS, Aboshiha J, Michaelides M, Atkinson J, Braddick O, Nardini M (2016). Dissociations in coherence sensitivity reveal atypical development of cortical visual processing in congenital achromatopsia. *Investigative Ophthalmology & Visual Science* 57(4): 2251-2259
- Burton E, Wattam-Bell J, Rubin G, Atkinson J, Braddick O, Nardini M (2016). Cortical processing of global form, motion and biological motion under low light levels. *Vision Research* 121, 39-49
- Bedford R, Pellicano E, Mareschal D, Nardini, M (2016). Flexible integration of visual cues in adolescents with autism spectrum disorder. *Autism Research* 9(2): 272-281
- Dekker T, Nardini M (2016). Risky visuomotor choices during rapid reaching in childhood. *Developmental Science* 19(3): 427-439
- **Cover article** (doi: 10.1111/desc.12441)
- Nardini M, Bales J, Mareschal D (2016). Integration of audio-visual information for spatial decisions in children and adults. *Developmental Science* 19(5): 803-816
- Jones PR, Garcia SE, Nardini M (2016). Digital LED Pixels: Instructions for use and a characterization of their properties. *Behavior Research Methods* 48(4): 1266-1284.
- Burton EA, Wattam-Bell J, Rubin GS, Atkinson J, Braddick O, Nardini M (2015). The effect of blur on cortical responses to global form and motion. *Journal of Vision* 15(15):12, 1-14
- Dekker TM, Ban H, Van der Velde B, Sereno MI, Welchman A, Nardini, M (2015). Late development of cue integration is linked to sensory fusion in cortex. *Current Biology* 25(21): 2856-2861.
- Commentaries:** Mamassian, P (2015). *Current Biology* 25(21), R1044–R1046.  
Bremner, AJ & de Fockert, J (2016). *Current Biology* 26(1), R36–R37
- Jones PR, Kalwarowsky S, Braddick O, Atkinson J, Nardini M (2015). Optimizing the rapid measurement of detection thresholds in infants. *Journal of Vision* 15(11): 2, 1-17
- Petrini K, Jones PR, Smith L, Nardini M (2015). Hearing where the eyes see: children use an irrelevant visual cue when localising sound. *Child Development* 86(5): 1449-1457
- Garcia, S, Petrini K, Rubin G, Da Cruz L, Nardini M (2015). Visual and non-visual navigation in blind patients with a retinal prosthesis. *PLOS ONE* 10(7): e0134369
- Negen J, Nardini M (2015). Four-year-olds use a mixture of spatial reference frames. *PLOS ONE* 10(7): e0131984
- Bainbridge JWB, Sundaram V, Mehat MS, Robbie SR, Barker SE, Ripamonti C, Georgiadis A, Mowat FM, Gardner PJ, Feathers KL, Luong VA, Beattie SG, Yzer S, Balaggan K, Viswanathan A, de Ravel TJJ, Casteels I, Holder G, Tyler N, Fitzke F, Weleber RG, Nardini M, Moore A, Thompson DA, Petersen-Jones SM, Michaelides M, van den Born LI, Stockman A, Smith AJ, Rubin G, Ali RR (2015). Long-term effect of gene therapy on Leber Congenital Amaurosis. *New England Journal of Medicine* 372(20): 1887-1897
- Jones PR, Kalwarowsky S, Atkinson J, Braddick, O, Nardini M (2014). Automated measurement of resolution acuity in infants using remote eye-tracking. *Investigative Ophthalmology & Visual Science* 55(12): 8102-8110

- Aboshiha J, Dubis AM, Cowing J, Fahy RTA, Sundaram V, Bainbridge JW, Ali RR, Dubra A, Nardini M, Webster AR, Moore AT, Rubin G, Carroll J, Michaelides M (2014). A prospective longitudinal study of retinal structure and function in achromatopsia. *Investigative Ophthalmology and Visual Science* 55(9): 5733-5743
- Nardini M, Dekker T, Petrini K (2014). Crossmodal integration: a glimpse into the development of sensory remapping. *Current Biology* 24(11): R532-R534.
- Petrini K, Remark A, Smith L, Nardini M (2014). When vision is not an option: children's integration of auditory and haptic information is suboptimal. *Developmental Science* 17(3): 376-387.
- Knight R, Piette CE, Page H, Walters D, Marozzi E, Nardini M, Stringer S, Jeffery KJ (2014). Weighted cue integration in the rodent head direction system. *Phil. Trans. R. Soc. B* 369: 20120512.
- Sundaram V, Wilde C, Aboshiha J, Cowing J, Han C, Langlo CS, Chana R, Davidson AE, Bainbridge JW, Ali RR, Dubra A, Rubin G, Webster AR, Moore AT, Nardini M, Carroll J, Michaelides M. (2014). Retinal Structure and Function in Achromatopsia: Implications for Gene Therapy. *Ophthalmology* 121(1): 234-245.
- Nardini M, Begus K, Mareschal D (2013). Multisensory uncertainty reduction for hand localization in children and adults. *Journal of Experimental Psychology: Human Perception and Performance*, 39(3): 773-787.
- Nardini M, Bedford R, Mareschal D (2010). Fusion of visual cues is not mandatory in children. *Proc. Natl. Acad. Sci. U. S. A.* 107(39), 17041-17046.
- Thomas R, Nardini M, Mareschal D (2010). Interactions between light-from-above and convexity priors in visual development. *Journal of Vision*, 10(8): 6
- Bullens J, Nardini M, Doeller CF, Braddick O, Postma A, Burgess N (2010). The role of landmarks and boundaries in the development of spatial memory. *Developmental Science*, 13, 170-180.
- Nardini M, Thomas R, Knowland V., Braddick O, Atkinson J (2009). A viewpoint-independent process for spatial reorientation. *Cognition*, 112, 241-248.
- Nardini M, Jones P, Bedford R, Braddick O (2008). Development of cue integration in human navigation. *Current Biology*, 18, 689-693.
- News article:** Kaplan, M (2008). *Nature News* doi:10.1038/news.2008.796
- Commentary:** Ernst, MO (2008). *Current Biology* 18(12), R519–R521.
- Nardini M, Atkinson J, Braddick O, Burgess N (2008). Developmental trajectories for spatial frames of reference in Williams syndrome. *Developmental Science*, 11, 583-595.
- Nardini M, Atkinson J, Burgess N (2008). Children reorient using the left/right sense of coloured landmarks at 18-24 months. *Cognition*, 106, 519-527.
- Nardini M, Braddick O, Atkinson J, Cowie D, Ahmed A, Reidy H (2008). Uneven integration for perception and action cues in children's working memory. *Cognitive Neuropsychology*, 25, 968-984.
- Atkinson J, Braddick O, Anker S, Nardini M, Birtles D, Rutherford MA, Mercuri E, Dyet LE, Edwards AD, Cowan FM (2008) Cortical vision, MRI, and developmental outcome in preterm infants. *Archives of Disease in Childhood - Fetal and Neonatal Edition*. 93, F292-F297.

- Atkinson J, Braddick O, Nardini M, Anker S (2007). Infant hyperopia: detection, distribution, changes and correlates - Outcomes from the Cambridge Infant Screening Programmes. *Optometry and Vision Science*, 84, 84-96.
- Nardini M, Burgess N, Breckenridge K, Atkinson J (2006). Differential developmental trajectories for egocentric, environmental and intrinsic frames of reference in spatial memory. *Cognition*, 101, 153-172.
- Atkinson J, Nardini M, Anker S, Braddick O, Hughes C, Rae S (2005). Refractive errors in infancy predict reduced performance on the Henderson Movement Assessment Battery for Children at 3.5 and 5.5 years. *Developmental Medicine and Child Neurology* 47, 243-251.
- Anker S, Atkinson J, Braddick O, Nardini M, Ehrlich D (2004). Non-cycloplegic refractive screening can identify infants whose visual outcome at 4 years is improved by spectacle correction. *Strabismus* 12(4), 223-241.
- Anker S, Atkinson J, Braddick O, Ehrlich D, Hartley T, Nardini M, Wade J (2003). Identification of Infants with Significant Refractive Error and Strabismus in a Population Screening Program using Noncycloplegic Videorefraction and Orthoptic Examination. *Investigative Ophthalmology and Visual Science*, 44, 497-504.
- Atkinson J, Anker S, Nardini M, Braddick O, Hughes C, Rae S, Atkinson S (2002). Infant vision screening predicts failures on motor and cognitive tests up to school age. *Strabismus*, 10, 187-198.
- Atkinson J, Anker S, Bobier W, Braddick O, Durden K, Nardini M, Watson P (2000). Normal Emmetropization in Infants with Spectacle Correction for Hyperopia. *Investigative Ophthalmology and Visual Science* 41, 3726-3731.

### **Book chapters**

- Nardini M (2017). Vision. In *The Cambridge Encyclopedia of Child Development, 2<sup>nd</sup> Edition*, Hopkins B, Geangu E & Linkenauger S (Eds), Cambridge University Press.
- Nardini M & Cowie D (2012). The development of multisensory balance, locomotion, orientation and navigation. In *Multisensory Development*, A Bremner, D Lewkowicz & C Spence (Eds), Oxford University Press.
- Atkinson J & Nardini M (2008). The Neuropsychology of Visuospatial and Visuomotor Development. In *Child Neuropsychology: Concepts, Theory and Practice*, J Reed & J Warner-Rogers (Eds), Wiley-Blackwell.

### **Invited Talks**

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|------|---|
| 2022 | Seminar, Centre for Developmental Science, U. Birmingham<br>Seminar, online WW Multisensory Perception and Plasticity   |
| 2021 | Keynote, International Conference on Spatial Cognition, Rome<br>Seminar, Neuroscience, Newcastle University<br>Seminar, Computational Cognitive Science, TU Darmstadt |
| 2020 | Seminar, Centre for Developmental Cognitive Neuroscience, UCL<br>Seminar, SFB 936, Multi-Site Communication in the Brain, Hamburg                                     |
| 2019 | Seminar, Dept of Psychology, University of East Anglia<br>Seminar, Dept of Psychology, University of Essex  |

- Seminar, Italian Institute of Technology, Genoa  
 Seminar, Dept of Psychology, Royal Holloway, University of London  
 Seminar, Institute of Neuroscience, Trinity College Dublin  
 Seminar, Dept of Psychology, University College London
- 2018 Invited speaker, Interdisciplinary symposium on spatial cognition in ageing and neurodegeneration, Magdeburg  
 Invited speaker, 2nd Interdisciplinary Navigation Symposium, Quebec  
 Seminar, School of Psychology, University of Sussex
- 2017 Seminar, Donders Centre for Cognition, Nijmegen  
 Seminar, Dept of Cognitive Science, Central European University  
 Seminar, York Neuroimaging Centre, University of York  
 Invited lead speaker, Rank Prize Symposium: Learning to see – from retinal to brain computations, Grasmere
- 2016 Seminar, Dept. of Experimental Psychology, Oxford University  
 Invited speaker, German Society for Psychology 50<sup>th</sup> Anniversary Congress, Leipzig  
 Seminar, Dept of Psychology, Princeton University  
 Seminar, Dept of Psychology, University of Lancaster
- 2015 Invited speaker, Adaptive Brains and Machines workshop, University of Cambridge  
 Invited speaker, Workshop on uncertainty in the nervous system, University of Birmingham
- 2014 Seminar, Dept. Psychology, Justus-Liebig-Universität Giessen  
 Seminar, School of Psychology, University of Birmingham  
 Invited session chair, International Conference on Infant Studies, Berlin  
 Keynote speaker, Scottish Vision Group, Troon, UK
- 2013 Invited speaker, Spatial Memory: Bayes and Beyond workshop, Richmond, VA, USA
- 2012 Seminar, Dept. of Developmental Science, UCL
- 2011 Invited speaker, Winter Workshop on Coordinate Frames, University of Reading  
 Seminar, Institute for Research in Child Development, U. of East London  
 Keynote speaker, VERE (EU project) symposium, University of Barcelona  
 Invited speaker, Ulverscroft Vision Research in Progress seminar, UCL Inst. of Child Health  
 Invited speaker, Workshop on Multisensory Space Perception, University of Genoa  
 Seminar, School of Psychology, Southampton University  
 Seminar, School of Psychology, Queens University Belfast  
 Invited speaker, Oxford University, Psychology Society
- 2010 Seminar, Dept. Psychology, Durham University  
 Seminar, School of Psychology, University of Nottingham  
 Invited speaker, Autumn School in Cognitive Neuroscience, Oxford University,  
 Invited speaker, EPS Workshop on Body Representation, Goldsmiths, U. of London  
 Seminar, Laboratoire Psychologie de la Perception, Université Paris Descartes
- 2009 Invited speaker, vision@ucl seminar, UCL  
 Seminar, Institute of Behavioural Neuroscience, UCL  
 Invited speaker, Symposium on Spatial Cognition, Dept. Exp. Psychology, Utrecht University
- 2008 Seminar, Dept. of Psychology, Goldsmiths, U. of London  
 Seminar, Dept. of Psychology, Royal Holloway, U. of London  
 Invited speaker, Workshop on perception and consciousness, University of Cyprus
- 2007 Seminar, Dept. of Psychology, Lancaster University
- 2006 Seminar, Dept. of Psychology, Edinburgh University  
 Seminar, Dept. of Experimental Psychology, Bristol University

Seminar, Dept. of Experimental Psychology, Oxford University  
 2004 Seminar, Centre for Brain and Cognitive Development, Birkbeck College  
 Invited speaker, Cognitive Neuroscience & Educational Psychology Conference, Oxford

## Research Supervision

### *Postdoctoral associates*

Dr Chris Allen	2022 –	
Dr Meike Scheller	2021 –	
Dr Stacey Aston	2017 – 2022	Moved to government post
Dr James Negen	2014 – 2020	Moved to academic post at LJMU
Dr Peter Jones	2012 – 2015	Moved to research fellow post at UCL
Dr Tessa Dekker	2011 – 2014	To research fellow, then academic post at UCL
Dr Karin Petrini	2010 – 2014	Moved to academic post at University of Bath

### *Research assistants*

Melissa Burnett	2022 –	
Heather Slater	2020 – 2022	Moved to publishing post
Laura Bird	2017 – 2019	Moved to RA post at UCL / Durham
Brittney Chere	2016 – 2017	Registered for MSc, Birkbeck
Hannah Roome	2015 – 2016	Moved to RA post at U. of Texas at Austin
Sarah Kalwarowsky	2012 – 2015	Moved to RA post at Birkbeck CBCD
Rachel Fahy	2012 – 2013	Returned to RA post at IOO after a break
Alicia Remark	2011 – 2012	Moved to RA post at Inst. of Education
Jennifer Bales	2009 – 2010	Registered for MSc, UCL Inst. of Child Health
Eliza Burton	2009 – 2010	Registered for PhD, UCL Inst. of Ophthalmology
Rachael Bedford	2008 – 2009	Registered for PhD, Inst. of Education
Victoria Knowland	2007 – 2008	Registered for PhD, Birkbeck

### *Graduate students (1<sup>st</sup> supervisor)*

Olaf Kristiansen	2021 –	
Becca Wedge-Roberts	2017 – 2021	Completed
Renata Kiryakova	2017 – 2021	Completed
Sara Garcia	2012 – 2016	Completed
Eliza Burton	2011 – 2015	Completed

### *Graduate students (2<sup>nd</sup> supervisor)*

Nathanael Larigaldie	2016 – 2021	Completed
Josefina Castillo-serrano	2016 –	
Sally Clausen	2014 – 2020	Completed
Louisa Kulke	2012 – 2015	Moved to post-doc at Göttingen, then academic post in Erlangen
Rhiannon Thomas	2009 – 2013	Moved to post-doc at Goldsmiths

### *Academic visitors*

Bauke van der Velde	2012 – 2013	Visiting from U. of Amsterdam (8 months)
Jessie Bullens	2008	Visiting from U. of Utrecht (3 months)



## Professional Activity

### Conference organizing

- Organiser, [New Advances in Enhancing Human Perception](#), Durham University 2019
- Organiser, [Probabilistic Brain workshop](#), Durham University 2018
- Organiser, EPS London Cue Integration Workshop, UCL 2013
- Co-organiser, CDCN workshop on navigation and spatial memory, UCL, 2012
- Co-organiser, cue integration workshop, UCL, 2012
- Programme committee, BPS Developmental Section, Goldsmiths, 2010

### Grant reviewing

- Agence Nationale de la Recherche, France
- Auckland Medical Research Foundation, New Zealand
- Biotechnology and Biological Sciences Research Council, UK
- Economic and Social Research Council, UK
- European Research Council
- Fundação para a Ciência e a Tecnologia, Portugal
- Guide dogs, UK
- Irish Research Council
- Israel Science Foundation
- Leverhulme Trust
- Medical Research Council UK
- National Science Foundation (USA)
- Natural Sciences and Engineering Research Council of Canada
- Swiss National Science Foundation

### Journal editing / reviewing

- 2016 – Action Editor, *Multisensory Research*
- 2014 – 2022 Editorial board, *Journal of Experimental Psychology: Human Perception and Performance*
- 2014 – 2021 Academic Editor, *PLOS ONE*

### Journal reviewing (ad hoc)

- *Acta Psychologica*
- *Animal Cognition*
- *Attention, Perception, & Psychophysics*
- *Behavior Research Methods*
- *British Journal of Developmental Psychology*
- *Child Development*
- *Cognition*
- *Cognitive Development*
- *Cognitive Processing*
- *Cognitive Psychology*
- *Cognitive Science*
- *Current Biology*
- *Developmental Cognitive Neuroscience*
- *Developmental Psychology*
- *Developmental Science*
- *eLife*
- *eNeuro*
- *Experimental Brain Research*
- *Frontiers in Psychology*
- *IEEE Transactions on Cognitive and Developmental Systems*
- *Infancy*
- *i-Perception*
- *Investigative Ophthalmology and Visual Science*
- *Journal of Comparative Psychology*
- *Journal of Experimental Child Psychology*
- *Journal of Experimental Biology*
- *Journal of Experimental Psychology: Language, Memory and Cognition*
- *Journal of Experimental Psychology: Human Perception and Performance*
- *Journal of Vision*
- *Memory and Cognition*
- *Multisensory Research*
- *Neuroscience*
- *PLoS Computational Biology*
- *PLoS ONE*
- *Perception*
- *Philosophical Transactions of the Royal Society B*
- *Proceedings of the Royal Society B*
- *Psychological Review*
- *Psychological Science*
- *Psychonomic Bulletin & Review*
- *Quarterly Journal of Experimental Psychology*
- *Scientific Reports*
- *Seeing and Perceiving*
- *Trends in Cognitive Sciences*
- *Vision Research*
- *Wiley Interdisciplinary reviews: Cognitive Science*

### Book reviewing

- Ad hoc* reviewer for
- *Cambridge University Press*
  - *Routledge*

### Conference reviewing

- Society For Research in Child Development 2015, 2013

- Applied Vision Association 2016, 2014, 2012
- Cognitive Science Society 2015, 2011, 2008
- European Conference on Visual Perception 2006

### ***PhD examiner***

- Chiara Capparini, Lancaster, 2022
- Elizabeth Jones, Durham, 2021 (internal)
- Natasa Ganea, Goldsmiths, 2021
- Anna Barnett, Lancaster, 2020
- Hannah Wilson, Lancaster, 2018
- Hannah Tickle, UCL, 2018
- Alice Skelton, Sussex, 2018
- Sabrina Seel, Durham, 2017
- Chin-Hsuan Lin, Imperial, 2016
- Kate Longstaffe, Bristol, 2014
- Laurenz Müssig, UCL, 2013 (internal)
- Jessie Bullens, Utrecht University, 2009

### ***Memberships***

- Vision Sciences Society • Society for Research in Child Development • Experimental Psychology Society • Applied Vision Association • Spatial Intelligence and Learning Center Spatial Network

### ***Departmental service***

2018 – 2019	Director of Postgraduate Research
2016 –	Research Group Leader, Developmental Science
2015 – 2017	Non-Single Honours Tutor
2015 – 2016	Department Library liaison rep
2012 – 2013	Athena SWAN committee

## **Teaching**

### ***Professional qualification***

2015	Fellow of the UK Higher Education Academy
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### ***Durham University***

2017 –	Lecturer, MSc Cognitive Neuroscience, <i>Current Issues in Cog Neuro</i>
2014 – 2016	Module leader and lecturer, MSc Developmental Cognitive Neuroscience ( <i>Developmental Cognitive Neuroscience</i> module)
2014 –	Module leader and Lecturer, BSc Psychology, 3 <sup>rd</sup> year <i>Cognitive Development</i>
2014 – 2019	Module leader and lecturer, BSc Psychology, 2 <sup>nd</sup> year <i>Development and Social</i>
2013 – 2017	Lecturer, BSc Applied Psychology, 2 <sup>nd</sup> year <i>Cognition and Development</i>

### ***University College London***

2011 – 2013	Examiner for MSc in Biology of Vision Lecturer, <i>MSc in Clinical and Applied Paediatric Neuropsychology</i>
2010 – 2013	Lecturer, <i>BIOS2001 Advanced Visual Neuroscience</i>
2009 – 2014	Lecturer, <i>MSc in Biology of Vision</i>
2009 – 2010	Lecturer, <i>MSc in Cognitive Neuroscience</i>

2002 – 2005 BSc seminar group teaching (*Introduction to Psychology, Perception Attention and Action*).

***Oxford University***

2005 – 2007 Personal tutor for Psychology students at St Anne's College; Interviewing and admissions; 3-6 hours/week tutorial teaching (*Perception, Cognitive Psychology, Developmental Psychology, Psychobiology, Statistics*)

***South Bank University, London***

2003 – 2005 Class teaching and coursework marking for BSc *Cognitive Science*

***Birkbeck College***

2002 – 2004 Small group teaching for statistics and critical analysis of papers