

# Casimir Ludwig

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## Academic qualifications

PhD Experimental Psychology, University of Bristol, 2003.

*Thesis title:* Stimulus-driven and goal-driven control over visual selection.

M.A. Neuropsychology (distinction), Radboud University Nijmegen, 1999.

## Employment

Reader in Experimental Psychology (Associate Professor), School of Psychological Science, University of Bristol, August 2012–present (proleptic appointment).

EPSRC Advanced Research Fellow (promoted to Senior Research Fellow in 2011), School of Experimental Psychology, University of Bristol, March 2008–February 2013.

Research Associate (promoted to Research Fellow in 2006) School of Experimental Psychology, University of Bristol, November 2004–February 2008.

Post-doctoral Research Assistant, School of Experimental Psychology, University of Bristol, November 2002–October 2004.

## Peer-reviewed publications

Attwood, A.S., Ludwig, C.J.H., Penton-Voak, I.S., Poh, J., Kwong, A.S.F., & Munafò, M.R. (in press). Effects of state anxiety on gait: A 7.5% carbon dioxide challenge study. *Psychological Research*.

Fradkin, I., Ludwig, C., Elder, E., & Huppert, J.D. (2020). Doubting what you already know: uncertainty regarding state transitions is associated with obsessive compulsive symptoms. *PLoS Computational Biology*, 16(2): e1007634, doi: 10.1371/journal.pcbi.1007634.

Xiong, C., Ceja, C., Ludwig, C.J.H., & Franconeri, S. (2020). Biased Average Position Estimates in Line and Bar Graphs: Underestimation, Overestimation, and Perceptual Pull. *IEEE Transactions on Visualization and Computer Graphics*, 26, 301–310, doi: 10.1109/TVCG.2019.2934400.

Jang, Y., Sullivan, B., Ludwig, C., Gilchrist, I., Damen, D., & Mayol-Cuevas, W. (2019). EPIC-tent: An egocentric video dataset for camping tent assembly. *ICCV Workshop on Egocentric Perception, Interaction and Computing*.

Malhotra, G., Leslie, D.S., Ludwig, C.J.H., & Bogacz, R. (2018). Time-varying decision boundaries: insights from optimality analysis. *Psychonomic Bulletin & Review*, 25, 971–996, doi: 10.3758/s13423-017-1340-6.

Ludwig, C.J.H., Alexander, N., Howard, K.L., Jedrzejewska, A.A., Mundkur, I., Redmill, D.W. (2018). The influence of visual flow and perceptual load on locomotion speed. *Attention, Perception, & Psychophysics*, 80, 69–81, doi: 10.3758/s13414-017-1417-3.

Mégardon, G., Ludwig, C.J.H., & Sumner, P. (2017). Trajectory curvature in saccade sequences: spatiotopic influences vs residual motor activity. *Journal of Neurophysiology*, 117, 1310–1320, doi: 10.1152/jn.00110.2017.

Malhotra, G., Leslie, D.S., Ludwig, C.J.H., & Bogacz, R. (2017). Overcoming indecision by changing the decision boundary. *Journal of Experimental Psychology: General*, 146, 776–805, doi: 10.1037/xge0000286.

- Mason, A., Farrell, S., Howard-Jones, P., & Ludwig, C.J.H. (2017). The role of reward and reward uncertainty in episodic memory. *Journal of Memory and Language*, 96, 62–77, doi: 10.1016/j.jml.2017.05.003.
- Mason, A., Ludwig, C., & Farrell, S. (2017). Adaptive scaling of reward in episodic memory: A replication study. *Quarterly Journal of Experimental Psychology*, 70, 2306–2318, doi: 10.1080/17470218.2016.1233439.
- Ludwig, C.J.H., & Evens, D.R. (2017). Information Foraging for Perceptual Decisions. *Journal of Experimental Psychology: Human Perception & Performance*, 43, 245–264, doi: 10.1037/xhp0000299.
- Bowers, J.S., Vankov, I.I., & Ludwig, C.J.H. (2016). The visual system supports on-line translation invariance for object identification. *Psychonomic Bulletin & Review*, 23, 432–438, doi: 10.3758/s13423-015-0916-2.
- Ludwig, C.J.H., Davies, J.R., & Eckstein, M.P. (2014). Foveal analysis and peripheral selection during active visual sampling. *Proceedings of the National Academy of Sciences*, 111(2), E291–E299, doi: 10.1073/pnas.1313553111.
- Cassey, T.C., Evens, D.R., Bogacz, R., Marshall, J.A.R., & Ludwig, C.J.H. (2013). Adaptive Sampling of Information in Perceptual Decision-Making. *PLoS ONE*, 8(11): e78993, doi: 10.1371/journal.pone.0078993.
- Ludwig, C.J.H., Davies, J.R., & Gegenfurtner, K.R. (2012). A functional role for trans-saccadic luminance differences. *Journal of Vision*, 12(13):14, 1–21, doi: 10.1167/12.13.14.
- Ludwig, C.J.H., Farrell, S., Ellis, L.A., Hardwicke, T.E., & Gilchrist, I.D. (2012). Context-gated statistical learning and its role in visual-saccadic decisions. *Journal of Experimental Psychology: General*, 141, 150–169, doi: 10.1037/a0024916.
- Ludwig, C.J.H., & Davies, J.R. (2011). Estimating the growth of internal evidence guiding perceptual decisions. *Cognitive Psychology*, 63, 61–92, doi: 10.1016/j.cogpsych.2011.05.002.
- Etchells, P.J., Ludwig, C.J.H., Benton, C.P., & Gilchrist, I.D. (2011). Testing a simplified method for measuring velocity integration in saccades using a manipulation of target contrast. *Frontiers in Psychology*, 2, 115, doi: 10.3389/fpsyg.2011.00115.
- Ludwig, C.J.H. (2011). Saccadic decision-making. In S.P. Livsedge, I.D. Gilchrist, and S. Everling (Eds.), *The Oxford Handbook of Eye Movements*. Oxford: OUP.
- Farrell, S., Ludwig, C.J.H., Ellis, L.A., & Gilchrist, I.D. (2010). The influence of environmental statistics on inhibition of saccadic return. *Proceedings of the National Academy of Sciences*, 107, 929–934, doi: 10.1073/pnas.0906845107.
- Evens, D.R., & Ludwig, C.J.H. (2010). Dual-task costs and benefits in anti-saccade performance. *Experimental Brain Research*, 4, 545–557, doi: 10.1007/s00221-010-2393-1.
- Etchells, P.J., Benton, C.P., Ludwig, C.J.H., & Gilchrist, I.D. (2010). The target velocity integration function for saccades. *Journal of Vision*, 10, 7, doi: 10.1167/10.6.7.
- Ludwig, C.J.H. (2009). Temporal integration of sensory evidence for saccade target selection. *Vision Research*, 49, 2764–2773, doi: 10.1016/j.visres.2009.08.012.
- Ludwig, C.J.H., Farrell, S., Ellis, L.A., & Gilchrist, I.D. (2009). The mechanism underlying inhibition of saccadic return. *Cognitive Psychology*, 59, 180–202, doi: 10.1016/j.cogpsych.2009.04.002.
- Cooper, R.M., Rowe, A.C., Penton-Voak, I.S., & Ludwig, C.J.H. (2009). No reliable effects of emotional facial expression, adult attachment orientation, or anxiety on the allocation of visual attention in the spatial cueing paradigm. *Journal of Research in Personality*, 43, 643–652, doi: 10.1016/j.jrp.2009.03.005.
- Stephen H. Butler, Stephanie Rossit, Iain D. Gilchrist, Casimir J.H. Ludwig, Bettina Olk, Keith Muir, Ian Reeves, & Monika Harvey (2009). Non-lateralised deficits in anti-saccade performance in patients with hemispatial neglect. *Neuropsychologia*, 47, 2488–2495. doi: 10.1016/j.neuropsychologia.2009.04.022.
- Ludwig, C.J.H., Butler, S.H., Rossit, S., Harvey, M., & Gilchrist, I.D. (2009). Modelling contralesional movement slowing after unilateral brain damage. *Neuroscience Letters*, 452, 1–4, doi: 10.1016/j.neulet.2009.01.033.

- Skelton, R., Ludwig, C.J.H., & Mohr, C. (2009). A novel, illustrated questionnaire to distinguish projector and associator synaesthetes. *Cortex*, *45*, 721-729, doi: 10.1016/j.cortex.2008.02.006.
- Farrell, S., & Ludwig, C.J.H. (2008). Bayesian and maximum likelihood estimation of hierarchical response time models. *Psychonomic Bulletin & Review*, *15*, 1209-1217, doi: 10.3758/PBR.15.6.1209.
- Ludwig, C. J. H., Ranson, A., & Gilchrist, I. D. (2008). Oculomotor capture by transient events: A comparison of abrupt onsets, offsets, motion, and flicker. *Journal of Vision*, *8*, 11. doi: 10.1167/8.14.11.
- Ludwig, C.J.H., Mildinhal, J.W., & Gilchrist, I.D. (2007). A population coding account for systematic variation in saccadic dead time. *Journal of Neurophysiology*, *97*, 795-805, doi: 10.1152/jn.00652.2006.
- Ludwig, C.J.H., Eckstein, M.P., & Beutter, B.R. (2007). Limited flexibility in the filter underlying saccadic targeting. *Vision Research*, *47*, 280-288, doi: 10.1016/j.visres.2006.09.009.
- Butler, S.H., Gilchrist, I.D., Ludwig, C.J.H., Muir, K., & Harvey, M. (2006). Impairments of oculomotor control in a patient with a right temporo-parietal lesion. *Cognitive Neuropsychology*, *23*, 990-999, doi: 10.1080/13594320600768847.
- Ludwig, C.J.H., & Gilchrist, I.D. (2006). The relative contributions of luminance contrast and task demands on saccade target selection. *Vision Research*, *46*, 2743-2748, doi: 10.1016/j.visres.2006.02.012.
- Ludwig, C.J.H., Gilchrist, I.D., McSorley, E., & Baddeley, R.J. (2005). The temporal impulse response underlying saccadic decisions. *The Journal of Neuroscience*, *25*, 9907-9912, doi: 10.1523/JNEUROSCI.2197-05.2005.
- Peers, P.V., Ludwig, C.J.H., Rorden, C., Cusack, R., Bonfiglioli, C., Bundesen, C., Driver, J., Antoun, N., & Duncan, J. (2005). Attentional functions of parietal and frontal cortex. *Cerebral Cortex*, *15*, 1469-1484, doi: 10.1093/cercor/bhi029.
- Ludwig, C.J.H., Gilchrist, I.D., & McSorley, E. (2005). The remote distractor effect in saccade programming: Channel interactions and lateral inhibition. *Vision Research*, *45*, 1177-1190, doi: 10.1016/j.visres.2004.10.019.
- Ludwig, C.J.H., Gilchrist, I.D., & McSorley, E. (2004). The influence of spatial frequency and contrast on saccade latencies. *Vision Research*, *44*, 2597-2604, doi: 10.1016/j.visres.2004.05.022.
- Ludwig, C.J.H., & Gilchrist, I.D. (2003). Goal-driven modulation of oculomotor capture. *Perception & Psychophysics*, *65*, 1243-1251.
- Ludwig, C.J.H. & Gilchrist, I.D. (2003). Target similarity affects saccade curvature away from irrelevant onsets. *Experimental Brain Research*, *152*, 60-69, doi: 10.1007/s00221-003-1520-7.
- Ludwig, C.J.H. & Gilchrist, I.D. (2002). Measuring saccade curvature: A curve-fitting approach. *Behavior Research Methods, Instruments, and Computers*, *34*, 618-624.
- Ludwig, C.J.H. & Gilchrist, I.D. (2002). Stimulus-Driven and Goal-Driven Control over Visual Selection. *Journal of Experimental Psychology: Human Perception and Performance*, *28*, 902-912, doi: 10.1037/0096-1523.28.4.902.

## Grants

- Pearson, R., Lawlor, D., Ludwig, C., Skinner, A., Tilling, K., Caldwell, D., Culpin, I., & Jones, H. (2017-2022). Genetic, behavioural and cognitive mechanisms underpinning the association between mother and offspring mental health problems: mental (M) health (H) intergenerational transmission (INT) -(MHINT). *Horizon 2020 ERC*, £1.18m.
- Mayol-Cuevas, W., Damen, D., Gilchrist, I., & Ludwig, C. (2016-2020). GLANCE: GLAnceable Nuances for Contextual Events. *Engineering and Physical Sciences Research Council*, £807k.
- Bull, D., Burn, J., Canagarajah, N., Cuthill, I., Gilchrist, I., Ludwig, C., & Roberts, N. (2015-2020). Vision for the future. *Engineering and Physical Sciences Research Council*, £1.4m.

Gilchrist, I.D., Leslie, D., Baddeley, R., Bogacz, R., Farrell, S., Ludwig, C.J.H., & McNamara, J. (2011–2015). Decision-making in an unstable world. *Engineering and Physical Sciences Research Council*, £1.6m.

Ludwig, C.J.H., Burn, J.F., Leonard, U., & Bull, D.R. (2010–2014). Bristol Vision Institute Laboratory. *The Wellcome Trust*, equipment grant, £390k.

Ludwig, C.J.H. (2008–2013). Integrating 'when' and 'where' in models of saccade target selection. *Engineering & Physical Sciences Research Council*, Advanced Research Fellowship, £700k.

Ludwig, C.J.H. & Gilchrist, I.D. (2006–2007). The salience of luminance transients to the saccadic eye movement system. *Engineering & Physical Sciences Research Council*, £120k.

Farrel, S., Ludwig, C.J.H., Gilchrist, I.D., & Carpenter, R.H.S. (2006–2009). Modelling sequential effects in saccadic choice. *The Wellcome Trust*, £119k.

Rowe, A.C., Penton-Voak, I.S., & Ludwig, C.J.H. (2006–2009). Adult attachment and the perceptual processing of facial expressions of emotion. *Economic & Social Research Council*, £370k.

Ludwig, C.J.H. (2005). The perceptual template governing saccadic decisions. *Engineering & Physical Sciences Research Council*, Overseas Travel Grant, £6k.

## Special awards; visiting positions

Visiting Scientist, University of Potsdam, SFB 1294 grant on Data Assimilation (Ralf Engbert & Sebastian Reich), 2018.

Visiting Scientist, Universidad Torcuato di Tella, Buenos Aires, Argentina, 2015

Engineering & Physical Sciences Research Council (EPSRC), Advanced Research Fellowship, 2008–2013.

Visiting Scientist, University of California Santa Barbara, US, 2005, 2011.

Medical Research Council—Cognition and Brain Sciences Unit, Summer Studentship, 1999.

## Teaching and supervision

### Lecturing

#### Undergraduate

- Year 1 Biological Psychology (2012–2014).
- Year 2 Biological Psychology (2012–2019).
- Year 2 Brain & Cognition (2019–present).
- Year 3 Contemporary Issues in Psychology (2013–present).
- Year 3 Dissertation projects (2012–present).

#### Post-graduate: MSc

- Brain & Cognition (MSc Conversion; 2019–present).
- Biological Psychology (MSc Conversion; 2017–2019).
- Academic careers sessions (2016–2018).
- Neuropsychological Analysis Tools (2014–2017): Recording and analysing movements.
- Generic Research Skills (2003–2016): Ethics; APA style; Academic careers.
- Functional Neuroanatomy and Neuroscience Methods (2009–2010): Eye movements.
- Foundations of Vision (2008–2009): Eye movements.
- Dissertation projects (2012–present).

### PhD supervision

- Veronika Hadjipanayi, 2019–present (co-supervisor).

Ilaria Costantini, 2018–present (co-supervisor, ERC-funded)  
 Qing Han, 2017–present (part UoB-funded).  
 Will Chapman, 2016–present (EPSRC-funded).  
 Alice Mason, 2011–2016 (EPSRC-funded).  
 David Evens, 2009–2014 (EPSRC-funded).  
 Peter Etchells, 2007–2010 (co-supervisor).

#### Miscellaneous

PhD examination: Vikki Neville (University of Bristol, 2019); Solveiga Stonkute (University of Cardiff, 2019); Cécille Vullings (Université de Lille, 2018); Hildward Vandormael (University of Oxford, 2017); Adnane Ez-Zizi (University of Bristol, 2016); Stephen Hinde (University of Bristol, 2017); Bobby Stuijtzand (University of Bristol, 2017); Rob Udale (University of Bristol, 2017); Yi Shin-Lin (University of Birmingham, 2015).

MSc by Research examination: Stella Becci (University of Bristol, 2019); Katie Joyce (University of Bristol, 2017).

Lab demonstrator throughout my undergraduate degree and PhD on units related to IT skills and statistics (1997–2002).

## Administration

Year 2 coordinator (2020–present).  
 Unit director year 2 / MSc Brain & Cognition (2019–present).  
 Deputy School Education Director (PGT focus; 2016–2020).  
 Programme director MSc Research Methods (2014–2017).  
 Programme director Msc Neuropsychology (2013–2017).  
 Student Placement co-ordinator (2012–present).  
 Unit director Biological Psychology (year 2 BSc 2013–2019; MSc Conversion 2017–2019).  
 Member of the Faculty of Science Human Research Ethics Committee (2004–2014).  
 Unit director year 1 Biological Psychology (2012–2013).

## Invited talks

Workshop on ‘From Peripheral to Transsaccadic and Foveal Perception’, Rauschholzhausen, Germany; Workshop on ‘Cognitive and Motor Processes in Visual Attention’, Durham, UK, 2019; MRC Doctoral Training Programme workshop on ‘Computational Modelling’, UK, 2018; Royal Society meeting on ‘Understanding images in biological and computer vision’, UK, 2018; University of Potsdam, Germany, 2017; Paris Descartes University, France, 2017; University of Cardiff, UK, 2016; University of Bielefeld, Germany, 2016; Aston University, UK, 2015; Universidad Torcuato Di Tella, Buenos Aires, Argentina, 2015; University of Wales, Bangor, 2014; University of California Irvine, 2014; University of Southampton, UK, 2014; University of Potsdam, Germany, 2012; University of Giessen, Germany, 2009; University of Birmingham, UK, 2009; University of Strathclyde, UK, 2009; University of Geneva, Switzerland, 2008; University of Cardiff, UK, 2008; DSTL Knowledge Network Meeting, Winfrith Technology Centre, Winfrith, UK, 2008; University of Leicester, UK, 2007; Smith-Kettlewell Eye Research Institute, US, 2005; NASA Ames Research Centre, US, 2005; AGM of the European Brain and Behaviour Society, Dublin, Ireland, 2005; University of Nottingham, 2003; Royal Holloway, University of London, UK, 2002; Medical Research Council – Cognition & Brain Sciences Unit, 2000.

## Professional activity

External Examiner MSc Computational Neuroscience & Cognitive Robotics and MSc Psychology at University of Birmingham (2019–present).

Associate Editor of The Quarterly Journal of Experimental Psychology (2017–2020).

Member of the EPSRC college (2008–present).

Reviewer for *ACM Transactions on Applied Perception; Attention, Perception, & Psychophysics; Behavior Research Methods; Brazilian Journal of Medical and Biological Research; Cognition; Cortex; Ergonomics; Experimental Brain Research; Frontiers in Neuroscience; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Human Perception & Performance; Journal of Mathematical Psychology; Journal of Neurophysiology; Journal of Social and Personal Relationships; Journal of Vision; (i)Perception; PLoS Computational Biology; PLoS ONE; Proceedings of the National Academy of Sciences; Proceedings of the Royal Society B: Biological Sciences; Psychological Review; Psychological Science; Psychonomic Bulletin & Review; Psychopharmacology; Quarterly Journal of Experimental Psychology; Spatial Vision; Vision Research; Visual Cognition.*

Reviewer for *Agence National Recherche; Biotechnology & Biological Sciences Research Council; British Academy; Economic & Social Research Council; Engineering & Physical Sciences Research Council; European Research Council (ERC); Flanders Research Foundation (FWO); Help the Aged; The Leverhulme Trust; Medical Research Council; National Science Foundation; Swiss National Science Foundation; Wellcome Trust.*

Instructor on the Summer School on Computational Modelling of Cognition, 2014–present (bi-annual).

Member of Applied Vision Association, British Machine Vision Association, Society for Mathematical Psychology, Experimental Psychology Society.

Fellow of the Psychonomic Society.

Languages: Dutch (native); English (native level); German (basic).

## Appendix

### *Miscellaneous publications*

Ludwig, C.J.H. (2002). Visual attention and cortical circuits. *Perception*, 31, 513-514. (book review)

### *Peer-reviewed conference presentations*

Montero, M.L., Ponte-Costa, R., Bowers, J.S., Ludwig, C., Malhotra, G. (2020). Perceptual front-ends for decision-making. *Annual meeting Society for Mathematical Psychology*.

Han, Q., Ludwig, C.J.H., Quadflieg, S. (2020). Decision Avoidance and Regret: A systematic review and meta-analysis. *Meeting of the Experimental Psychology Society*.

Blything, R. Vankov, I., Ludwig, C.J.H., & Bowers, J.S. (2019). *Conference on Cognitive Computational Neuroscience*.

Sullivan, B., Doughty, H., Mayol-Cuevas, W., Damen, D., Ludwig, C., & Gilchrist, I. (2019). Predicting self-rated uncertainty from eye movements in a natural task. *European Conference on Visual Perception*.

Blything, R. Vankov, I., Ludwig, C.J.H., & Bowers, J.S. (2019). Translation tolerance in vision. *Proceedings of the Cognitive Science Society*.

Ludwig, C.J.H., Trukenbrod, H.A., Engbert, R. (2019). Temporal control in modelling eye fixations. *European Conference on Eye Movements*.

Ludwig, C.J.H., Trukenbrod, H.A., Engbert, R. (2019). Temporal control in modelling eye fixations. *Annual meeting Society for Mathematical Psychology*.

Xiong, C., Ceja, C.R., Ludwig, C., & Franconeri, S. (2019). Attraction and response probe similarity effects in a multiple ensemble judgment task. *Annual meeting Vision Sciences Society*.

Sullivan, B., Doughty, H., Mayol-Cuevas, W., Damen, D., Ludwig, C., & Gilchrist, I. (2018). Detecting uncertainty while assembling a camping tent. *European Conference on Visual Perception*.

Malhotra, G., Ludwig, C., & Gilchrist, I. (2017). Distinguishing between evidence accumulation and temporal probability summation in perceptual decision making. *European Conference on Visual Perception*.

Ludwig, C., Alexander, N., Mundkur, I., & Redmill, D. (2017). The interaction of visual flow and perceptual load in the control of locomotion speed. *European Conference on Visual Perception*.

Sullivan, B., Ludwig, C., Gilchrist, I., Damen, D., Mayol-Cuevas, W. (2017). Predicting eye and head coordination while looking and pointing. *European Conference on Visual Perception*.

Malhotra, G., Ludwig, C., & Gilchrist, I. (2017). Distinguishing between evidence accumulation and temporal probability summation in perceptual decision making. *Annual meeting Society for Mathematical Psychology*.

Ludwig, C.J.H., Stothart, G., Hedge, C., & Skinner, A. (2015). Control of fixation duration by foveal and peripheral evidence. *European Conference on Eye Movements*.

Jarvstad, A., Ludwig, C.J.H., Bogacz, R., & Gilchrist, I.D. (2015). Expectation and saccade latency: Prior probability and number of alternatives. *European Conference on Eye Movements*.

Megardon, G., Sumner, P., & Ludwig, C.J.H. (2015). Spatio-temporal stimuli interactions in visual-oculomotor pathway: Are they spatiotopic or retinotopic? *European Conference on Eye Movements*.

Ludwig, C., & Evens, D. (2014). Information foraging for perceptual decisions. *Psychonomics Society's 55th Annual Meeting*.

Malhotra, G., Leslie, D., Ludwig, C., & Bogacz, R. (2014). Changing decision criteria in rapid and slow decisions: Do people behave optimally? *Decision-Making Bristol*.

- Mason, A., Ludwig, C., Howard-Jones, P., & Farrell, S. (2014). Chance-based uncertainty of reward improves long-term memory. *Decision-Making Bristol*.
- Ludwig, C., & Evens, D. (2014). Information foraging for perceptual decisions. *Decision-Making Bristol*.
- Ludwig, C.J.H., Davies, J.R., & Eckstein, M.P. (2013). Parallel and independent foveal analysis and peripheral selection. *European Conference on Eye Movements*.
- Ludwig, C.J.H., Davies, J.R., & Eckstein, M.P. (2012). Parallel extraction of information for foveal analysis and peripheral selection of where to look next. *Annual meeting Vision Sciences Society*.
- Evens, D.R., Cassey, T., Marshall, J.A.R., Bogacz, R., & Ludwig, C.J.H. (2012). Active visual sampling in uncertain environments. *Annual meeting Vision Sciences Society*.
- Ludwig, C.J.H., Farrell, S., Ellis, L.A., Hardwicke, T.E., & Gilchrist, I.D. (2011). Context-selective belief-updating accounts for "noise" in accumulator models of saccadic choice and latency. *European Conference on Eye Movements*.
- Davies, J.R., & Ludwig, C.J.H. (2011). The eyes are driven by visual mechanisms that receive novel inputs across saccades. *European Conference on Eye Movements*.
- Evens, D.R., Cassey, T., Marshall, J.A.R., Bogacz, R., & Ludwig, C.J.H. (2011). Active visual sampling strategy adapts to environmental uncertainty. *European Conference on Eye Movements*.
- Cassey, T., Evens, D.R., Ludwig, C.J.H., Marshall, J.A.R., & Bogacz, R. (2011). Adaptive sampling of information during perceptual decision problems. *Annual meeting Society for Mathematical Psychology*.
- Davies, J.R., & Ludwig, C.J.H. (2011). Saccadic decisions in response to new objects in spatiotopic and retinotopic reference frames. *Annual meeting Vision Sciences Society*.
- Ludwig, C.J.H., & Davies, J.R. (2011). Estimating the growth of discriminative information guiding perceptual decisions. *Annual meeting Vision Sciences Society*.
- Etchells, P.J., Benton, C.P., Ludwig, C.J.H., & Gilchrist, I.D. (2010). Contrast effects on velocity integration for saccades to moving targets. *European Conference on Visual Perception*.
- Ludwig, C.J.H., & Farrell, S. (2010). Adaptation of oculomotor IOR to the environmental statistics through sequential updating of expectations. *European Conference on Visual Perception*.
- Ludwig, C.J.H., Farrell, S., Ellis, L.A., Hardwicke, T.E., & Gilchrist, I.D. (2010). Statistical learning facilitates adaptive eye movement decisions. *European Conference on Visual Perception*.
- Ludwig, C.J.H., Farrell, S., Ellis, L.A., & Gilchrist, I.D. (2009). Inhibition of saccadic return is sensitive to the probabilistic context. *European Conference on Eye Movements*.
- Evens, D.R., Gilchrist, I.D., & Ludwig, C.J.H. (2009). Anti-saccades do not benefit from attentional diversion. *European Conference on Eye Movements*.
- Ellis, L.A., Farrell, S., Ludwig, C.J.H., & Gilchrist, I.D. (2009). The modulation of inhibition of saccadic return by environmental statistics: Is there a role for predictive cues? *European Conference on Eye Movements*.
- Etchells, P.J., Benton, C.P., Ludwig, C.J.H., & Gilchrist, I.D. (2009). Estimation of temporal motion integration in saccades to moving targets. *European Conference on Eye Movements*.
- Ludwig, C.J.H., Farrell, S., Ellis, L.A., & Gilchrist, I.D. (2009). Inhibition of saccadic return is sensitive to the probabilistic structure of the environment. *Annual meeting Vision Sciences Society*.
- Etchells, P.J., Benton, C.P., Ludwig, C.J.H., & Gilchrist, I.D. (2009). Intercepting moving targets: Estimating motion integration and saccadic dead time. *Annual meeting Vision Sciences Society*.
- Ludwig, C.J.H. (2008). Modelling saccadic decision-making. *Applied Vision Association*.



- Etchells, P.J., Benton, C.P., Ludwig, C.J.H., & Gilchrist, I.D. (2008). Hitting a movement target: interaction between ‘when’ and ‘where’ in saccade programming. *European Conference on Visual Perception*.
- Rushton, S.K., & Ludwig, C.J.H. (2008). Capture of attention by scene-relative object movement during self-movement. *European Conference on Visual Perception*.
- Ludwig, C.J.H., Ranson, A., & Gilchrist, I.D. (2007). Comparison of the effect of dynamic visual events on saccade target selection. *European Conference on Eye Movements*.
- Ludwig, C.J.H., Ranson, A., Droulias, A., & Gilchrist, I.D. (2007). Limited temporal integration for saccade generation. *European Conference on Eye Movements*.
- Ludwig, C.J.H., & Gilchrist, I.D. (2007). A sequential sampling model of saccadic double-steps in direction. *Annual meeting Vision Sciences Society*.
- Ludwig, C.J.H., Eckstein, M.P., & Beutter, B.R. (2006). Limited flexibility in the filter underlying saccadic targeting. *European Conference on Visual Perception*.
- Butler S.H., Ludwig C.J.H., Gilchrist I.D., Muir K., Bone I., Reeves I., Duncan G., & Harvey M. (2006). Evidence from converging paradigms for posterior cortical involvement in response inhibition. *European Conference of Visual Perception*.
- Harvey M., Butler S.H., Ludwig C.J.H., Muir K., Bone I., Reeves I., Duncan G., & Gilchrist I.D. (2006). Magno-cellular impairment drives size distortion in hemispatial neglect. *European Conference on Visual Perception*.
- Ludwig, C.J.H., & Gilchrist, I.D. (2005). Stimulus-driven and goal-driven contributions to capture. *AGM of the European Brain and Behaviour Society*.
- Butler S.H., Ludwig C.J.H., Gilchrist I.D., & Harvey M. (2005). Parietal lobe involvement in response inhibition. *AGM European Brain and Behaviour Society*.
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