Laurence Tudor Hunt: curriculum vitae

Current/Recent Positions

2025-	Full Professor of Cognitive Neuroscience, Department of Experimental Psychology, University of Oxford
2025-	Associate Director, Oxford Centre for Integrative Neuroimaging
2022-	Tutorial Fellow in Psychology, St John's College, Oxford
2018-	Principal Investigator, Laboratory of Decision Dynamics
2022-25	Associate Professor of Experimental Psychology, University of Oxford
2018-22	Wellcome/Royal Society Sir Henry Dale Fellow

Current/Recent Research Funding (PI/Co-I Only)

2023-28	Wellcome Mental Health Award (**Co-I, ~£2.9M** collaborative award, led by Prof. Belinda Lennox)
2022-27	BBSRC sLoLa grant **(Co-I, ~£4.3M** collaborative award, with Profs. Steve Kennerley, Jill O'Reilly, Matthew Rushworth (lead applicant), Mark Stokes**)**
2018-24	Wellcome/Royal Society Henry Dale Fellowship **(PI, £919,348)**
2017-19	NARSAD Young Investigator Award **(PI, $70,000)**
2014-17	Sir Henry Wellcome Fellowship Enhancement **(PI, £200,000)**
2013-17	Sir Henry Wellcome Postdoctoral Fellowship **(PI, £250,000)**

Selected Awards/Honours

2025	Medical Sciences Division "Excellent Teacher" Award
2020	FENS EJN Young Investigator Prize[1]
2017	NARSAD Young Investigator Award
2010	Keeley Senior Scholarship, Wadham College, Oxford

Key Publications as First or Senior Author *since 2020*[2]
(Total citations: 6099; h-index = 29; i10-index = 40[3])

1. D'Ambrogio S et al. Interpretable abstractions of artificial neural networks predict behavior and neural activity during human information gathering. **Nature Neuroscience** 2026, in press
2. Wójcik MJ et al. Learning shapes neural geometry in the prefrontal cortex. **Nature Neuroscience** 2026, in press
3. Foucault C et al. Environmental dynamics shape human learning: change points versus random walks. **eLife** 2026
4. Lan DC et al. Goal-directed navigation in humans and deep reinforcement learning agents relies on an adaptive mix of vector-based and transition-based strategies. **PLOS Biology**, 2025; 23(7): e3003296
5. Wójcik MJ et al. Working memory shapes neural geometry in human EEG over learning. **eLife** 2025; 14:RP106609
6. Ruesseler M et al. Decision-making in dynamic, continuously evolving environments. **eLife,** 2023; 12, e82823
7. Hassall CD et al. The neural correlates of continuous feedback processing. **Psychophysiology**, 2023; 60 (12): e14399
8. Hassall CD et al. Temporal scaling of human scalp-recorded potentials during interval estimation. **PNAS,** 2022, doi: 10.1101/2020.12.11.421180.
9. Hunt LT et al. Formalising planning and information search in naturalistic decision-making. **Nature Neuroscience**, 2021; 24: 1051-1064.
10. Kaanders P et al. Medial frontal cortex activity predicts information sampling in economic choice. **J Neurosci,** 2021, 41(40): 8403-8413.
11. Hunt, LT. Frontal circuit specialisations for decision making. **European Journal of Neuroscience,** 2021; 53(11), 3654-3671.
12. Cavanagh SE et al. A circuit mechanism for decision-making biases and NMDA receptor hypofunction. **eLife**, 2020; 9, e53664.

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[1] Awarded to a European researcher under 35, for outstanding scientific contributions in any field of neuroscience

[2] Includes shared-first and shared-last authorship papers

[3] Google Scholar citation indices, accessed 12th May 2026

***Other key co-authorships** since 2020*

1. Botos, C et al., Reason to Play: Behavioral and Brain Alignment Between Frontier LRMs and Human Game Learners. **arXiv**, 2026. (submitted to NeurIPS)
2. Sandbrink, K et al. Understanding human metacontrol and its pathologies using deep neural networks. **PNAS**, 2026.
3. Del Rio, M et al. Indecision and recency-weighted evidence integration in non-clinical and clinical settings. **Nature Human Behaviour**, 2026.
4. Veselic, S. et al. A cognitive map for value-guided choice in ventromedial prefrontal cortex. **Cell**, 2025.
5. Yan, Y., Reward positivity affects temporal interval production in a continuous timing task. **Psychophysiology**, e14589, 2024
6. Marshall, T. R., et al. The representation of priors and decisions in the human parietal cortex. **PLoS Biology**, 22(1), e3002383, 2024
7. Gohil, C et al. Dynamic network analysis of electrophysiological task data. **Imaging Neuroscience,** 2, 1–19, 2023
8. Hassall, C. D et al. Task-level value affects trial-level reward processing. **Neuroimage**, 260, 119456, 2024
9. Manning, C. et al. Visual motion and decision-making in dyslexia: Reduced accumulation of sensory evidence and related neural dynamics. **Journal of Neuroscience,** 42(1), 121–134, 2022
10. Manning, C et al. Behavioural and neural indices of perceptual decision-making in autistic children during visual motion tasks. **Scientific Reports**, 12(1), 6072, 2022
11. Takagi, Y et al. Adapting non-invasive human recordings along multiple task-axes shows unfolding of spontaneous and over-trained choice. **eLife**, 10, e60988, 2021
12. Cavanagh SE et al. A diversity of intrinsic timescales underlie neural computations. **Frontiers in Neural Circuits**, 14, 615626, 2020

For full publication list, including prior to 2020, visit http://tinyurl.com/LHPubList

Publicly Shared Datasets (selection; all data collected are now shared by default)

- BIDS Data from five EEG studies, shared via OpenNeuro, available at https://www.huntlab.co.uk/sharing
- Behaviour from “Approach-induced biases in human information sampling” (32,445 human subjects, >3 million decisions). DataDryad, https://doi.org/10.5061/dryad.nb41c
- Single unit recordings from “Triple dissociation of attention and decision computations across prefrontal cortex”. CRCNS, https://crcns.org/data-sets/pfc/pfc-7
- Neuroimaging data from “Hierarchical competitions subserving multi-attribute choice”, NeuroVault, https://neurovault.org/collections/122/

Invited Talks** since 2020 **(highlights)

- FENS-Chen Institute Summer Programme: AI-Accelerated Neuroscience Discovery and Translation, Cambridge, 2026
- Control Processes, Ghent, 2026
- ‘Naturalistic Games as a Benchmark to Bridge Cognitive Science, Computational Neuroscience and AI’, CCN 2025 (workshop co-chair)
- ‘Gamification in Decision Making’, RLDM 2025
- Tuebingen Systems Neuroscience Symposium, 2024
- Bonn-Melbourne Joint Seminar Series in Decision Making, 2024
- Meeting of Minds, Royal Society, 2023
- Schwartz Research Seminar, New York University, 2022
- Lake Arrowhead Meeting on Reward and Decision Making, California, 2022
- CCN Seminar, Hamburg, 2022
- T&C Chen Social and Decision Neuroscience Online Seminar, Caltech, 2021
- Symposium on Biology of Decision-Making, 2021
- FENS Forum (FENS-EJN Prize Keynote Lecture), 2020

Teaching, Examining and Outreach

2023-	Part A (2nd year undergraduate) lecture course in Experimental Design and Methods (16 lectures, 4 practical classes)
2022-	Examiner, MSc Psychological Research, Oxford
2021-	Undergraduate tutorials in Probability and Statistics, Psychology, Neurophysiology (Prelims); Behavioural Neuroscience (Part I); "How to Build a Brain from Scratch" (Part II); conducted undergraduate admissions interviews.
2021-	Member of organising committee, MSc Neuroscience, Oxford.
2019-22	Lecturer on "Open Science and Reproducibility", and "Introduction to Computational Neuroscience", WIN Graduate Programme
2018-21	Examiner, MSc Neuroscience, Oxford (Chair of examiners, 2020-21)
2015-16	Tutor at The Brilliant Club, a non-profit organisation that trains and places postdocs to deliver university-style tutorials to high-achieving pupils at schools with low participation in higher education.
2013-	Lecturer on MSc Psychological Research (Oxford), MSc Neuroscience (Oxford), MSc Integrated/Therapeutic Neuroscience (Oxford), MSc Clinical Neuroscience (UCL), MSc Clinical Neurology (UCL) courses

Supervision and Examination of Students/Postdocs

I currently co-supervise six DPhil students; two as primary supervisor and four as secondary. Former postdocs/students include: Paula Kaanders (now postdoc with Eric Schulz, Tubingen), Cameron Hassall (now assistant professor at McEwan University, Canada); Lilian Weber (now associate professor at Osnabruck University, Germany); Yu Takagi (now assistant professor at Osaka University), Maria Ruesseler (now employed at pharmaceutical company UCB), and Sean Cavanagh (won 2019 Jon Driver Prize for best Neuroscience PhD at UCL, now trainee doctor). I have supervised 18 MSc and undergraduate project students. I have examined 14 PhD theses.

Professional Service/Public Engagement

2022-	Executive committee, Cognitive Computational Neuroscience conference, https://ccneuro.org/ (Co-chair, 2023)
2019-22	UKRI-BBSRC Expert Working Group on Neuroscience and Behaviour
2016-18	Executive committee, *Science is Vital*. Coordinated a joint submission from >1,600 Early Career Researchers to the Science and Technology Select Committee concerning the impact of Brexit.
2015-17	One of eight scientists behind *The Great Brain Experiment,* a Wellcome Trust funded smartphone app. Downloaded by >110,000 users. Featured in The Guardian, The Wall Street Journal, BBC One.