Thomas H B Fitzgerald

List of Publications by Citations

39 papers	**3,312** citations	**27** h-index	**41** g-index
41 ext. papers	**4,088** ext. citations	**5.5** avg, IF	**5.49** L-index

#	Paper	IF	Citations
39	Active Inference: A Process Theory. *Neural Computation*, **2017**, 29, 1-49	2.9	433
38	Active inference and epistemic value. *Cognitive Neuroscience*, **2015**, 6, 187-214	1.7	350
37	Active inference and learning. *Neuroscience and Biobehavioral Reviews*, **2016**, 68, 862-879	9	243
36	The role of human orbitofrontal cortex in value comparison for incommensurable objects. *Journal of Neuroscience*, **2009**, 29, 8388-95	6.6	229
35	Dopamine, affordance and active inference. *PLoS Computational Biology*, **2012**, 8, e1002327	5	208
34	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. *Neurobiology of Aging*, **2014**, 35, 1862-72	5.6	182
33	The anatomy of choice: active inference and agency. *Frontiers in Human Neuroscience*, **2013**, 7, 598	3.3	177
32	Disruption of dorsolateral prefrontal cortex decreases model-based in favor of model-free control in humans. *Neuron*, **2013**, 80, 914-9	13.9	158
31	The anatomy of choice: dopamine and decision-making. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369,	5.8	145
30	The Dopaminergic Midbrain Encodes the Expected Certainty about Desired Outcomes. *Cerebral Cortex*, **2015**, 25, 3434-45	5.1	114
29	Exploration, novelty, surprise, and free energy minimization. *Frontiers in Psychology*, **2013**, 4, 710	3.4	84
28	A phenomenological model of seizure initiation suggests network structure may explain seizure frequency in idiopathic generalised epilepsy. *Journal of Mathematical Neuroscience*, **2012**, 2, 1	2.4	76
27	Revealing a brain network endophenotype in families with idiopathic generalised epilepsy. *PLoS ONE*, **2014**, 9, e110136	3.7	67
26	Model averaging, optimal inference, and habit formation. *Frontiers in Human Neuroscience*, **2014**, 8, 457	3.3	64
25	Interoceptive inference: homeostasis and decision-making. *Trends in Cognitive Sciences*, **2014**, 18, 269-70	14	61
24	Computational mechanisms of curiosity and goal-directed exploration. *ELife*, **2019**, 8,	8.9	61
23	Optimal inference with suboptimal models: addiction and active Bayesian inference. *Medical Hypotheses*, **2015**, 84, 109-17	3.8	60

22	Action-specific value signals in reward-related regions of the human brain. *Journal of Neuroscience*, **2012**, 32, 16417-23a	6.6	55
21	Neural signals encoding shifts in beliefs. *NeuroImage*, **2016**, 125, 578-586	7.9	49
20	Active inference, evidence accumulation, and the urn task. *Neural Computation*, **2015**, 27, 306-28	2.9	49
19	Dopamine, reward learning, and active inference. *Frontiers in Computational Neuroscience*, **2015**, 9, 136	3.5	46
18	Characterizing aging in the human brainstem using quantitative multimodal MRI analysis. *Frontiers in Human Neuroscience*, **2013**, 7, 462	3.3	43
17	Differentiable neural substrates for learned and described value and risk. *Current Biology*, **2010**, 20, 1823-9	10.9	41
16	Evidence for surprise minimization over value maximization in choice behavior. *Scientific Reports*, **2015**, 5, 16575	4.9	40
15	Cross-frequency coupling within and between the human thalamus and neocortex. *Frontiers in Human Neuroscience*, **2013**, 7, 84	3.3	40
14	Dopaminergic basis for signaling belief updates, but not surprise, and the link to paranoia. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E10167-E10176	11.5	39
13	Precision and neuronal dynamics in the human posterior parietal cortex during evidence accumulation. *NeuroImage*, **2015**, 107, 219-228	7.9	33
12	Approach-avoidance processes contribute to dissociable impacts of risk and loss on choice. *Journal of Neuroscience*, **2012**, 32, 7009-20	6.6	27
11	Reward-related activity in ventral striatum is action contingent and modulated by behavioral relevance. *Journal of Neuroscience*, **2014**, 34, 1271-9	6.6	26
10	Working memory and anticipatory set modulate midbrain and putamen activity. *Journal of Neuroscience*, **2013**, 33, 14040-7	6.6	25
9	Cross-modal effects of value on perceptual acuity and stimulus encoding. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15244-9	11.5	23
8	Transcranial direct current stimulation of right dorsolateral prefrontal cortex does not affect model-based or model-free reinforcement learning in humans. *PLoS ONE*, **2014**, 9, e86850	3.7	23
7	Characterising reward outcome signals in sensory cortex. *NeuroImage*, **2013**, 83, 329-34	7.9	12
6	Sequential inference as a mode of cognition and its correlates in fronto-parietal and hippocampal brain regions. *PLoS Computational Biology*, **2017**, 13, e1005418	5	12
5	Modeling subjective belief states in computational psychiatry: interoceptive inference as a candidate framework. *Psychopharmacology*, **2019**, 236, 2405-2412	4.7	9

4   Thalamo-cortical cross-frequency coupling detected with MEG. *Frontiers in Human Neuroscience*, **2014**, 8, 187   3.3   5

3   Computational mechanisms of curiosity and goal-directed exploration   2

2   Retrospective Inference as a Form of Bounded Rationality, and Its Beneficial Influence on Learning. *Frontiers in Artificial Intelligence*, **2020**, 3, 2   3   1

1   Pupil dilation indexes automatic and dynamic inference about the precision of stimulus distributions. *Journal of Mathematical Psychology*, **2021**, 101, 102503   1.2