Thomas H B Fitzgerald

List of Publications by Year
in descending order

38 papers	4,640 citations	185998 28 h-index	329751 37 g-index
41 all docs	41 docs citations	41 times ranked	4124 citing authors

#	Article	IF	Citations
1	Active Inference: A Process Theory. Neural Computation, 2017, 29, 1-49.	1.3	677
2	Active inference and epistemic value. Cognitive Neuroscience, 2015, 6, 187-214.	0.6	476
3	Active inference and learning. Neuroscience and Biobehavioral Reviews, 2016, 68, 862-879.	2.9	366
4	Dopamine, Affordance and Active Inference. PLoS Computational Biology, 2012, 8, e1002327.	1.5	288
5	The Role of Human Orbitofrontal Cortex in Value Comparison for Incommensurable Objects. Journal of Neuroscience, 2009, 29, 8388-8395.	1.7	260
6	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. Neurobiology of Aging, 2014, 35, 1862-1872.	1.5	248
7	The anatomy of choice: active inference and agency. Frontiers in Human Neuroscience, 2013, 7, 598.	1.0	236
8	Disruption of Dorsolateral Prefrontal Cortex Decreases Model-Based in Favor of Model-free Control in Humans. Neuron, 2013, 80, 914-919.	3.8	208
9	The anatomy of choice: dopamine and decision-making. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130481.	1.8	204
10	The Dopaminergic Midbrain Encodes the Expected Certainty about Desired Outcomes. Cerebral Cortex, 2015, 25, 3434-3445.	1.6	158
11	Exploration, novelty, surprise, and free energy minimization. Frontiers in Psychology, 2013, 4, 710.	1.1	126
12	Computational mechanisms of curiosity and goal-directed exploration. ELife, 2019, 8, .	2.8	122
13	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	101
14	Revealing a Brain Network Endophenotype in Families with Idiopathic Generalised Epilepsy. PLoS ONE, 2014, 9, e110136.	1.1	91
15	Model averaging, optimal inference, and habit formation. Frontiers in Human Neuroscience, 2014, 8, 457.	1.0	83
16	Dopamine, reward learning, and active inference. Frontiers in Computational Neuroscience, 2015, 9, 136.	1.2	80
17	Optimal inference with suboptimal models: Addiction and active Bayesian inference. Medical Hypotheses, 2015, 84, 109-117.	0.8	80
18	Interoceptive inference: homeostasis and decision-making. Trends in Cognitive Sciences, 2014, 18, 269-270.	4.0	79

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19	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.	3.3	65
20	Action-Specific Value Signals in Reward-Related Regions of the Human Brain. Journal of Neuroscience, 2012, 32, 16417-16423.	1.7	64
21	Active Inference, Evidence Accumulation, and the Urn Task. Neural Computation, 2015, 27, 306-328.	1.3	64
22	Neural signals encoding shifts in beliefs. NeuroImage, 2016, 125, 578-586.	2.1	64
23	Evidence for surprise minimization over value maximization in choice behavior. Scientific Reports, 2015, 5, 16575.	1.6	63
24	Differentiable Neural Substrates for Learned and Described Value and Risk. Current Biology, 2010, 20, 1823-1829.	1.8	60
25	Characterizing Aging in the Human Brainstem Using Quantitative Multimodal MRI Analysis. Frontiers in Human Neuroscience, 2013, 7, 462.	1.0	50
26	Cross-frequency coupling within and between the human thalamus and neocortex. Frontiers in Human Neuroscience, 2013, 7, 84.	1.0	50
27	Precision and neuronal dynamics in the human posterior parietal cortex during evidence accumulation. NeuroImage, 2015, 107, 219-228.	2.1	48
28	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, 15244-15249.	3.3	32
29	Approach-Avoidance Processes Contribute to Dissociable Impacts of Risk and Loss on Choice. Journal of Neuroscience, 2012, 32, 7009-7020.	1.7	31
30	Working Memory and Anticipatory Set Modulate Midbrain and Putamen Activity. Journal of Neuroscience, 2013, 33, 14040-14047.	1.7	31
31	Reward-Related Activity in Ventral Striatum Is Action Contingent and Modulated by Behavioral Relevance. Journal of Neuroscience, 2014, 34, 1271-1279.	1.7	31
32	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.	1.1	27
33	Characterising reward outcome signals in sensory cortex. NeuroImage, 2013, 83, 329-334.	2.1	20
34	Modeling subjective belief states in computational psychiatry: interoceptive inference as a candidate framework. Psychopharmacology, 2019, 236, 2405-2412.	1.5	20
35	Sequential inference as a mode of cognition and its correlates in fronto-parietal and hippocampal brain regions. PLoS Computational Biology, 2017, 13, e1005418.	1.5	18
36	Thalamo-cortical cross-frequency coupling detected with MEG. Frontiers in Human Neuroscience, 2014, 8, 187.	1.0	9

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37	Retrospective Inference as a Form of Bounded Rationality, and Its Beneficial Influence on Learning. Frontiers in Artificial Intelligence, 2020, 3, 2.	2.0	3
38	Pupil dilation indexes automatic and dynamic inference about the precision of stimulus distributions. Journal of Mathematical Psychology, 2021, 101, 102503.	1.0	1