

Thomas H B Fitzgerald

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Pupil dilation indexes automatic and dynamic inference about the precision of stimulus distributions. <i>Journal of Mathematical Psychology</i> , 2021 , 101, 102503	1.2	
38	Retrospective Inference as a Form of Bounded Rationality, and Its Beneficial Influence on Learning. <i>Frontiers in Artificial Intelligence</i> , 2020 , 3, 2	3	1
37	Modeling subjective belief states in computational psychiatry: interoceptive inference as a candidate framework. <i>Psychopharmacology</i> , 2019 , 236, 2405-2412	4.7	9
36	Computational mechanisms of curiosity and goal-directed exploration. <i>ELife</i> , 2019 , 8,	8.9	61
35	Dopaminergic basis for signaling belief updates, but not surprise, and the link to paranoia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E10167-E10176	11.5	39
34	Active Inference: A Process Theory. <i>Neural Computation</i> , 2017 , 29, 1-49	2.9	433
33	Sequential inference as a mode of cognition and its correlates in fronto-parietal and hippocampal brain regions. <i>PLoS Computational Biology</i> , 2017 , 13, e1005418	5	12
32	Active inference and learning. <i>Neuroscience and Biobehavioral Reviews</i> , 2016 , 68, 862-879	9	243
31	Neural signals encoding shifts in beliefs. <i>NeuroImage</i> , 2016 , 125, 578-586	7.9	49
30	The Dopaminergic Midbrain Encodes the Expected Certainty about Desired Outcomes. <i>Cerebral Cortex</i> , 2015 , 25, 3434-45	5.1	114
29	Precision and neuronal dynamics in the human posterior parietal cortex during evidence accumulation. <i>NeuroImage</i> , 2015 , 107, 219-228	7.9	33
28	Active inference and epistemic value. <i>Cognitive Neuroscience</i> , 2015 , 6, 187-214	1.7	350
27	Evidence for surprise minimization over value maximization in choice behavior. <i>Scientific Reports</i> , 2015 , 5, 16575	4.9	40
26	Dopamine, reward learning, and active inference. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 136	3.5	46
25	Active inference, evidence accumulation, and the urn task. <i>Neural Computation</i> , 2015 , 27, 306-28	2.9	49
24	Optimal inference with suboptimal models: addiction and active Bayesian inference. <i>Medical Hypotheses</i> , 2015 , 84, 109-17	3.8	60
23	The anatomy of choice: dopamine and decision-making. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	145

22	Interoceptive inference: homeostasis and decision-making. <i>Trends in Cognitive Sciences</i> , 2014 , 18, 269-70	14	61
21	Thalamo-cortical cross-frequency coupling detected with MEG. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 187	3.3	5
20	Model averaging, optimal inference, and habit formation. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 457	3.3	64
19	Cross-modal effects of value on perceptual acuity and stimulus encoding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15244-9	11.5	23
18	Reward-related activity in ventral striatum is action contingent and modulated by behavioral relevance. <i>Journal of Neuroscience</i> , 2014 , 34, 12711-9	6.6	26
17	Transcranial direct current stimulation of right dorsolateral prefrontal cortex does not affect model-based or model-free reinforcement learning in humans. <i>PLoS ONE</i> , 2014 , 9, e86850	3.7	23
16	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2014 , 35, 1862-72	5.6	182
15	Revealing a brain network endophenotype in families with idiopathic generalised epilepsy. <i>PLoS ONE</i> , 2014 , 9, e110136	3.7	67
14	Working memory and anticipatory set modulate midbrain and putamen activity. <i>Journal of Neuroscience</i> , 2013 , 33, 14040-7	6.6	25
13	Disruption of dorsolateral prefrontal cortex decreases model-based in favor of model-free control in humans. <i>Neuron</i> , 2013 , 80, 914-9	13.9	158
12	Characterising reward outcome signals in sensory cortex. <i>NeuroImage</i> , 2013 , 83, 329-34	7.9	12
11	Characterizing aging in the human brainstem using quantitative multimodal MRI analysis. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 462	3.3	43
10	Exploration, novelty, surprise, and free energy minimization. <i>Frontiers in Psychology</i> , 2013 , 4, 710	3.4	84
9	Cross-frequency coupling within and between the human thalamus and neocortex. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 84	3.3	40
8	The anatomy of choice: active inference and agency. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 598	3.3	177
7	A phenomenological model of seizure initiation suggests network structure may explain seizure frequency in idiopathic generalised epilepsy. <i>Journal of Mathematical Neuroscience</i> , 2012 , 2, 1	2.4	76
6	Dopamine, affordance and active inference. <i>PLoS Computational Biology</i> , 2012 , 8, e1002327	5	208
5	Approach-avoidance processes contribute to dissociable impacts of risk and loss on choice. <i>Journal of Neuroscience</i> , 2012 , 32, 7009-20	6.6	27

- 4 Action-specific value signals in reward-related regions of the human brain. *Journal of Neuroscience*, **2012**, 32, 16417-23a 6.6 55
- 3 Differentiable neural substrates for learned and described value and risk. *Current Biology*, **2010**, 20, 1823-9 41
- 2 The role of human orbitofrontal cortex in value comparison for incommensurable objects. *Journal of Neuroscience*, **2009**, 29, 8388-95 6.6 229
- 1 Computational mechanisms of curiosity and goal-directed exploration 2