

Thomas H B Fitzgerald

List of Publications by Year in descending order

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Version: 2024-02-01

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	Pupil dilation indexes automatic and dynamic inference about the precision of stimulus distributions. <i>Journal of Mathematical Psychology</i> , 2021, 101, 102503.	1.0	1
2	Retrospective Inference as a Form of Bounded Rationality, and Its Beneficial Influence on Learning. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 2.	2.0	3
3	Modeling subjective belief states in computational psychiatry: interoceptive inference as a candidate framework. <i>Psychopharmacology</i> , 2019, 236, 2405-2412.	1.5	20
4	Computational mechanisms of curiosity and goal-directed exploration. <i>ELife</i> , 2019, 8, .	2.8	122
5	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.	3.3	65
6	Active Inference: A Process Theory. <i>Neural Computation</i> , 2017, 29, 1-49.	1.3	677
7	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.	1.5	18
8	Active inference and learning. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 862-879.	2.9	366
9	Neural signals encoding shifts in beliefs. <i>NeuroImage</i> , 2016, 125, 578-586.	2.1	64
10	Evidence for surprise minimization over value maximization in choice behavior. <i>Scientific Reports</i> , 2015, 5, 16575.	1.6	63
11	Dopamine, reward learning, and active inference. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 136.	1.2	80
12	Active Inference, Evidence Accumulation, and the Urn Task. <i>Neural Computation</i> , 2015, 27, 306-328.	1.3	64
13	Optimal inference with suboptimal models: Addiction and active Bayesian inference. <i>Medical Hypotheses</i> , 2015, 84, 109-117.	0.8	80
14	The Dopaminergic Midbrain Encodes the Expected Certainty about Desired Outcomes. <i>Cerebral Cortex</i> , 2015, 25, 3434-3445.	1.6	158
15	Precision and neuronal dynamics in the human posterior parietal cortex during evidence accumulation. <i>NeuroImage</i> , 2015, 107, 219-228.	2.1	48
16	Active inference and epistemic value. <i>Cognitive Neuroscience</i> , 2015, 6, 187-214.	0.6	476
17	Thalamo-cortical cross-frequency coupling detected with MEG. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 187.	1.0	9
18	Model averaging, optimal inference, and habit formation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 457.	1.0	83

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19	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
20	Reward-Related Activity in Ventral Striatum Is Action Contingent and Modulated by Behavioral Relevance. Journal of Neuroscience, 2014, 34, 1271-1279.	1.7	31
21	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
22	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
23	The anatomy of choice: dopamine and decision-making. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130481.	1.8	204
24	Interoceptive inference: homeostasis and decision-making. Trends in Cognitive Sciences, 2014, 18, 269-270.	4.0	79
25	Revealing a Brain Network Endophenotype in Families with Idiopathic Generalised Epilepsy. PLoS ONE, 2014, 9, e110136.	1.1	91
26	Working Memory and Anticipatory Set Modulate Midbrain and Putamen Activity. Journal of Neuroscience, 2013, 33, 14040-14047.	1.7	31
27	Disruption of Dorsolateral Prefrontal Cortex Decreases Model-Based in Favor of Model-free Control in Humans. Neuron, 2013, 80, 914-919.	3.8	208
28	Characterising reward outcome signals in sensory cortex. NeuroImage, 2013, 83, 329-334.	2.1	20
29	Characterizing Aging in the Human Brainstem Using Quantitative Multimodal MRI Analysis. Frontiers in Human Neuroscience, 2013, 7, 462.	1.0	50
30	Exploration, novelty, surprise, and free energy minimization. Frontiers in Psychology, 2013, 4, 710.	1.1	126
31	Cross-frequency coupling within and between the human thalamus and neocortex. Frontiers in Human Neuroscience, 2013, 7, 84.	1.0	50
32	The anatomy of choice: active inference and agency. Frontiers in Human Neuroscience, 2013, 7, 598.	1.0	236
33	Approach-Avoidance Processes Contribute to Dissociable Impacts of Risk and Loss on Choice. Journal of Neuroscience, 2012, 32, 7009-7020.	1.7	31
34	Action-Specific Value Signals in Reward-Related Regions of the Human Brain. Journal of Neuroscience, 2012, 32, 16417-16423.	1.7	64
35	Dopamine, Affordance and Active Inference. PLoS Computational Biology, 2012, 8, e1002327.	1.5	288
36	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

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37	Differentiable Neural Substrates for Learned and Described Value and Risk. <i>Current Biology</i> , 2010, 20, 1823-1829.	1.8	60
38	The Role of Human Orbitofrontal Cortex in Value Comparison for Incommensurable Objects. <i>Journal of Neuroscience</i> , 2009, 29, 8388-8395.	1.7	260