

# Ben Seymour

## List of Publications by Year in Descending Order

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**Version:** 2024-04-17

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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.

92  
papers

16,285  
citations

46  
h-index

127  
g-index

133  
ext. papers

18,676  
ext. citations

11.2  
avg, IF

6.48  
L-index

#	Paper	IF	Citations
92	Resting-state Amplitude of Low-frequency Fluctuation is a Potentially Useful Prognostic Functional Biomarker in Cervical Myelopathy. <i>Clinical Orthopaedics and Related Research</i> , <b>2020</b> , 478, 1667-1680	2.2	6
91	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 255	5.1	4
90	BCI training to move a virtual hand reduces phantom limb pain: A randomized crossover trial. <i>Neurology</i> , <b>2020</b> , 95, e417-e426	6.5	3
89	Hierarchical models of pain: Inference, information-seeking, and adaptive control. <i>NeuroImage</i> , <b>2020</b> , 222, 117212	7.9	3
88	Pain Control by Co-adaptive Learning in a Brain-Machine Interface. <i>Current Biology</i> , <b>2020</b> , 30, 3935-3944. <del>6.7</del>	11	11
87	Pain: A Precision Signal for Reinforcement Learning and Control. <i>Neuron</i> , <b>2019</b> , 101, 1029-1041	13.9	28
86	Decision-making in brains and robots [The case for an interdisciplinary approach. <i>Current Opinion in Behavioral Sciences</i> , <b>2019</b> , 26, 137-145	4	6
85	Toward high-performance, memory-efficient, and fast reinforcement learning-Lessons from decision neuroscience. <i>Science Robotics</i> , <b>2019</b> , 4,	18.6	4
84	Anterior cingulate cortex connectivity is associated with suppression of behaviour in a rat model of chronic pain. <i>Brain and Neuroscience Advances</i> , <b>2018</b> , 2, 2398212818779646	4	6
83	MEG-BMI to Control Phantom Limb Pain. <i>Neurologia Medico-Chirurgica</i> , <b>2018</b> , 58, 327-333	2.6	3
82	Model-based and model-free pain avoidance learning. <i>Brain and Neuroscience Advances</i> , <b>2018</b> , 2, 2398212818772964	2	2
81	Response heterogeneity: Challenges for personalised medicine and big data approaches in psychiatry and chronic pain. <i>F1000Research</i> , <b>2018</b> , 7, 55	3.6	3
80	Value generalization in human avoidance learning. <i>ELife</i> , <b>2018</b> , 7,	8.9	16
79	A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity. <i>ELife</i> , <b>2018</b> , 7,	8.9	40
78	Author response: A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity <b>2018</b> ,		2
77	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. <i>Wellcome Open Research</i> , <b>2018</b> , 3, 19	4.8	42
76	Classification and characterisation of brain network changes in chronic back pain: A multicenter study. <i>Wellcome Open Research</i> , <b>2018</b> , 3, 19	4.8	21

75	The control of tonic pain by active relief learning. <i>ELife</i> , <b>2018</b> , 7,	8.9	11
74	Disrupted habenula function in major depression. <i>Molecular Psychiatry</i> , <b>2017</b> , 22, 202-208	15.1	104
73	Thermosensory Perceptual Learning Is Associated with Structural Brain Changes in Parietal-Opercular (SII) Cortex. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 9380-9388	6.6	8
72	Decoding acute pain with combined EEG and physiological data <b>2017</b> ,		5
71	Pain and self-preservation in autonomous robots: From neurobiological models to psychiatric disease <b>2017</b> ,		1
70	Parallel reward and punishment control in humans and robots: Safe reinforcement learning using the MaxPain algorithm <b>2017</b> ,		9
69	Induced sensorimotor brain plasticity controls pain in phantom limb patients. <i>Nature Communications</i> , <b>2016</b> , 7, 13209	17.4	49
68	Deep brain stimulation of the subthalamic nucleus modulates sensitivity to decision outcome value in Parkinson's disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 32509	4.9	12
67	Dissociable Learning Processes Underlie Human Pain Conditioning. <i>Current Biology</i> , <b>2016</b> , 26, 52-8	6.3	44
66	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. <i>Nature Human Behaviour</i> , <b>2016</b> , 1,	12.8	62
65	Anticipation and choice heuristics in the dynamic consumption of pain relief. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004030	5	3
64	Modulating the pain network--neurostimulation for central poststroke pain. <i>Nature Reviews Neurology</i> , <b>2015</b> , 11, 290-9	15	59
63	Distinct Contributions of Ventromedial and Dorsolateral Subregions of the Human Substantia Nigra to Appetitive and Aversive Learning. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 14220-33	6.6	40
62	When is a loss a loss? Excitatory and inhibitory processes in loss-related decision-making. <i>Current Opinion in Behavioral Sciences</i> , <b>2015</b> , 5, 122-127	4	16
61	Accounting for Behavior in Treatment Effects: New Applications for Blind Trials. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127227	3.7	10
60	Pain: a distributed brain information network?. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002037	9.7	21
59	Decisions about decisions. <i>Neuron</i> , <b>2014</b> , 81, 468-70	13.9	2
58	Technology for chronic pain. <i>Current Biology</i> , <b>2014</b> , 24, R930-R935	6.3	10

57	Decoding the matrix: benefits and limitations of applying machine learning algorithms to pain neuroimaging. <i>Pain</i> , <b>2014</b> , 155, 864-867	8	37
56	Prices need no preferences: social trends determine decisions in experimental markets for pain relief. <i>Health Psychology</i> , <b>2014</b> , 33, 66-76	5	4
55	Does temporal discounting explain unhealthy behavior? A systematic review and reinforcement learning perspective. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 76	3.5	141
54	State-dependent value representation: evidence from the striatum. <i>Frontiers in Neuroscience</i> , <b>2014</b> , 8, 193	5.1	2
53	Relative valuation of pain in human orbitofrontal cortex. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 14526-35	6.6	25
52	The habenula encodes negative motivational value associated with primary punishment in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11858-63	11.5	93
51	The neural signature of escalating frustration in humans. <i>Cortex</i> , <b>2014</b> , 54, 165-78	3.8	62
50	Uncertainty increases pain: evidence for a novel mechanism of pain modulation involving the periaqueductal gray. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 5638-46	6.6	69
49	Dread and the disvalue of future pain. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003335	5	28
48	Can, and should, behavioural neuroscience influence public policy?. <i>Trends in Cognitive Sciences</i> , <b>2012</b> , 16, 449-51	14	7
47	The effect of motivation on movement: a study of bradykinesia in Parkinson's disease. <i>PLoS ONE</i> , <b>2012</b> , 7, e47138	3.7	23
46	Serotonin selectively modulates reward value in human decision-making. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 5833-42	6.6	161
45	Dopamine and performance in a reinforcement learning task: evidence from Parkinson's disease. <i>Brain</i> , <b>2012</b> , 135, 1871-83	11.2	115
44	Converging evidence for central 5-HT effects in acute tryptophan depletion. <i>Molecular Psychiatry</i> , <b>2012</b> , 17, 121-3	15.1	51
43	The maladaptive brain: excitable pathways to chronic pain. <i>Brain</i> , <b>2012</b> , 135, 316-8	11.2	2
42	Model-based influences on humans' choices and striatal prediction errors. <i>Neuron</i> , <b>2011</b> , 69, 1204-15	13.9	1004
41	Choosing to make an effort: the role of striatum in signaling physical effort of a chosen action. <i>Journal of Neurophysiology</i> , <b>2010</b> , 104, 313-21	3.2	184
40	Pain relativity in motor control. <i>Psychological Science</i> , <b>2010</b> , 21, 840-7	7.9	14

39	Neural mechanisms of belief inference during cooperative games. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 10744-51	6.6	144
38	Insula and striatum mediate the default bias. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 14702-7	6.6	35
37	Dopamine, time, and impulsivity in humans. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 8888-96	6.6	206
36	Differentiable neural substrates for learned and described value and risk. <i>Current Biology</i> , <b>2010</b> , 20, 1823-9	6.9	41
35	Altruistic learning. <i>Frontiers in Behavioral Neuroscience</i> , <b>2009</b> , 3, 23	3.5	7
34	Neural activity associated with the passive prediction of ambiguity and risk for aversive events. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 1648-56	6.6	95
33	From threat to fear: the neural organization of defensive fear systems in humans. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 12236-43	6.6	303
32	Encoding of marginal utility across time in the human brain. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 9575-81	6.6	163
31	A genetically mediated bias in decision making driven by failure of amygdala control. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 5985-91	6.6	165
30	The role of human orbitofrontal cortex in value comparison for incommensurable objects. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 8388-95	6.6	229
29	Choking on the money: reward-based performance decrements are associated with midbrain activity. <i>Psychological Science</i> , <b>2009</b> , 20, 955-62	7.9	71
28	A key role for similarity in vicarious reward. <i>Science</i> , <b>2009</b> , 324, 900	33.3	194
27	The price of pain and the value of suffering. <i>Psychological Science</i> , <b>2009</b> , 20, 309-17	7.9	53
26	Values and Actions in Aversion <b>2009</b> , 175-191		22
25	Anchors, scales and the relative coding of value in the brain. <i>Current Opinion in Neurobiology</i> , <b>2008</b> , 18, 173-8	7.6	92
24	Striatal activity underlies novelty-based choice in humans. <i>Neuron</i> , <b>2008</b> , 58, 967-73	13.9	171
23	Emotion, decision making, and the amygdala. <i>Neuron</i> , <b>2008</b> , 58, 662-71	13.9	201
22	Modulation of pain ratings by expectation and uncertainty: Behavioral characteristics and anticipatory neural correlates. <i>Pain</i> , <b>2008</b> , 135, 240-250	8	137

21	Confidence in beliefs about pain predicts expectancy effects on pain perception and anticipatory processing in right anterior insula. <i>Pain</i> , <b>2008</b> , 139, 324-332	8	54
20	Blocking central opiate function modulates hedonic impact and anterior cingulate response to rewards and losses. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 10509-16	6.6	93
19	Human pavlovian-instrumental transfer. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 360-8	6.6	225
18	Research loses in hasty changes to medical training. <i>Nature</i> , <b>2007</b> , 446, 492	50.4	
17	The neurobiology of punishment. <i>Nature Reviews Neuroscience</i> , <b>2007</b> , 8, 300-11	13.5	180
16	When fear is near: threat imminence elicits prefrontal-periaqueductal gray shifts in humans. <i>Science</i> , <b>2007</b> , 317, 1079-83	33.3	639
15	Differential encoding of losses and gains in the human striatum. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 4826-31	6.6	356
14	Context-dependent human extinction memory is mediated by a ventromedial prefrontal and hippocampal network. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 9503-11	6.6	402
13	Carry on eating: neural pathways mediating conditioned potentiation of feeding. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 1061-2; discussion 1062	6.6	2
12	Contingency awareness in human aversive conditioning involves the middle frontal gyrus. <i>NeuroImage</i> , <b>2006</b> , 29, 1007-12	7.9	105
11	Predictive neural coding of reward preference involves dissociable responses in human ventral midbrain and ventral striatum. <i>Neuron</i> , <b>2006</b> , 49, 157-66	13.9	258
10	Empathic neural responses are modulated by the perceived fairness of others. <i>Nature</i> , <b>2006</b> , 439, 466-9	50.4	1233
9	Cortical substrates for exploratory decisions in humans. <i>Nature</i> , <b>2006</b> , 441, 876-9	50.4	1390
8	Dopamine-dependent prediction errors underpin reward-seeking behaviour in humans. <i>Nature</i> , <b>2006</b> , 442, 1042-5	50.4	1117
7	The misbehavior of value and the discipline of the will. <i>Neural Networks</i> , <b>2006</b> , 19, 1153-60	9.1	257
6	Frames, biases, and rational decision-making in the human brain. <i>Science</i> , <b>2006</b> , 313, 684-7	33.3	977
5	Modulation of pain processing in hyperalgesia by cognitive demand. <i>NeuroImage</i> , <b>2005</b> , 27, 59-69	7.9	127
4	Opponent appetitive-aversive neural processes underlie predictive learning of pain relief. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 1234-40	25.5	340

- 3 Anxiety reduction through detachment: subjective, physiological, and neural effects. *Journal of Cognitive Neuroscience*, **2005**, 17, 874-83 3.1 246
- 2 Temporal difference models describe higher-order learning in humans. *Nature*, **2004**, 429, 664-7 50.4 488
- 1 Empathy for pain involves the affective but not sensory components of pain. *Science*, **2004**, 303, 1157-62 33.3 2770