

John P O'doherty

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

24,578
citations

17405

63
h-index

17546

121
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124
all docs

124
docs citations

124
times ranked

14367
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinforcement-learning in fronto-striatal circuits. <i>Neuropsychopharmacology</i> , 2022, 47, 147-162.	2.8	41
2	Mesolimbic Neurobehavioral Mechanisms of Reward Motivation in Anorexia Nervosa: A Multimodal Imaging Study. <i>Frontiers in Psychiatry</i> , 2022, 13, 806327.	1.3	7
3	Determining the effects of training duration on the behavioral expression of habitual control in humans: a multilaboratory investigation. <i>Learning and Memory</i> , 2022, 29, 16-28.	0.5	25
4	Neural, physiological, and psychological markers of appetitive conditioning in anorexia nervosa: a study protocol. <i>Journal of Eating Disorders</i> , 2022, 10, 68.	1.3	1
5	Neurocircuit dynamics of arbitration between decision-making strategies across obsessive-compulsive and related disorders. <i>NeuroImage: Clinical</i> , 2022, 35, 103073.	1.4	3
6	Using deep reinforcement learning to reveal how the brain encodes abstract state-space representations in high-dimensional environments. <i>Neuron</i> , 2021, 109, 724-738.e7.	3.8	25
7	Why and how the brain weights contributions from a mixture of experts. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 123, 14-23.	2.9	21
8	How representative are neuroimaging samples? Large-scale evidence for trait anxiety differences between fMRI and behaviour-only research participants. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 1057-1070.	1.5	24
9	Aesthetic preference for art can be predicted from a mixture of low- and high-level visual features. <i>Nature Human Behaviour</i> , 2021, 5, 743-755.	6.2	41
10	White matter tracts characteristics in habitual decision-making circuit underlie ritual behaviors in anorexia nervosa. <i>Scientific Reports</i> , 2021, 11, 15980.	1.6	8
11	The hierarchical construction of value. <i>Current Opinion in Behavioral Sciences</i> , 2021, 41, 71-77.	2.0	15
12	Progress and Promise in Neuroaesthetics. <i>Neuron</i> , 2020, 108, 594-596.	3.8	19
13	Value-Related Neuronal Responses in the Human Amygdala during Observational Learning. <i>Journal of Neuroscience</i> , 2020, 40, 4761-4772.	1.7	21
14	The value of what's to come: Neural mechanisms coupling prediction error and the utility of anticipation. <i>Science Advances</i> , 2020, 6, eaba3828.	4.7	47
15	A Neuro-computational Account of Arbitration between Choice Imitation and Goal Emulation during Human Observational Learning. <i>Neuron</i> , 2020, 106, 687-699.e7.	3.8	51
16	Breaking human social decision making into multiple components and then putting them together again. <i>Cortex</i> , 2020, 127, 221-230.	1.1	28
17	The cost of obtaining rewards enhances the reward prediction error signal of midbrain dopamine neurons. <i>Nature Communications</i> , 2019, 10, 3674.	5.8	17
18	Relief from incidental fear evokes exuberant risk taking. <i>PLoS ONE</i> , 2019, 14, e0211018.	1.1	4

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19	Hippocampus Is What Happens while You're Busy Making Other Plans. <i>Neuron</i> , 2019, 102, 517-519.	3.8	2
20	Neurostimulation Reveals Context-Dependent Arbitration Between Model-Based and Model-Free Reinforcement Learning. <i>Cerebral Cortex</i> , 2019, 29, 4850-4862.	1.6	21
21	Evidence for model-based encoding of Pavlovian contingencies in the human brain. <i>Nature Communications</i> , 2019, 10, 1099.	5.8	31
22	Behavioural evidence for parallel outcome-sensitive and outcome-insensitive Pavlovian learning systems in humans. <i>Nature Human Behaviour</i> , 2019, 3, 284-296.	6.2	34
23	Reappraisal of incentives ameliorates choking under pressure and is correlated with changes in the neural representations of incentives. <i>Social Cognitive and Affective Neuroscience</i> , 2019, 14, 13-22.	1.5	5
24	Risk contagion by peers affects learning and decision-making in adolescents.. <i>Journal of Experimental Psychology: General</i> , 2019, 148, 1494-1504.	1.5	25
25	Neural substrates of social facilitation effects on incentive-based performance. <i>Social Cognitive and Affective Neuroscience</i> , 2018, 13, 391-403.	1.5	25
26	Stressful Events as Teaching Signals for the Brain. <i>Trends in Cognitive Sciences</i> , 2018, 22, 475-478.	4.0	17
27	The application of computational models to social neuroscience: promises and pitfalls. <i>Social Neuroscience</i> , 2018, 13, 637-647.	0.7	45
28	Selective impairment of goal-directed decision-making following lesions to the human ventromedial prefrontal cortex. <i>Brain</i> , 2017, 140, 1743-1756.	3.7	102
29	Elucidating the underlying components of food valuation in the human orbitofrontal cortex. <i>Nature Neuroscience</i> , 2017, 20, 1780-1786.	7.1	158
30	A causal account of the brain network computations underlying strategic social behavior. <i>Nature Neuroscience</i> , 2017, 20, 1142-1149.	7.1	126
31	Learning, Reward, and Decision Making. <i>Annual Review of Psychology</i> , 2017, 68, 73-100.	9.9	328
32	Distinct prediction errors in mesostriatal circuits of the human brain mediate learning about the values of both states and actions: evidence from high-resolution fMRI. <i>PLoS Computational Biology</i> , 2017, 13, e1005810.	1.5	16
33	The involvement of model-based but not model-free learning signals during observational reward learning in the absence of choice. <i>Journal of Neurophysiology</i> , 2016, 115, 3195-3203.	0.9	22
34	Dopamine and the Adolescent Brain: Do Errors in Prediction Make the Difference?. <i>Biological Psychiatry</i> , 2016, 79, 870-871.	0.7	0
35	Testosterone causes both prosocial and antisocial status-enhancing behaviors in human males. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11633-11638.	3.3	127
36	Behavioral contagion during learning about another agent's risk-preferences acts on the neural representation of decision-risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3755-3760.	3.3	66

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37	Impaired reward processing in the human prefrontal cortex distinguishes between persistent and remittent attention deficit hyperactivity disorder. <i>Human Brain Mapping</i> , 2015, 36, 4648-4663.	1.9	16
38	Multiple Systems for the Motivational Control of Behavior and Associated Neural Substrates in Humans. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 27, 291-312.	0.8	29
39	Neural Computations Mediating One-Shot Learning in the Human Brain. <i>PLoS Biology</i> , 2015, 13, e1002137.	2.6	69
40	Neural Mechanisms Underlying Human Consensus Decision-Making. <i>Neuron</i> , 2015, 86, 591-602.	3.8	61
41	Characterizing the Associative Content of Brain Structures Involved in Habitual and Goal-Directed Actions in Humans: A Multivariate fMRI Study. <i>Journal of Neuroscience</i> , 2015, 35, 3764-3771.	1.7	79
42	Distinct Contributions of Ventromedial and Dorsolateral Subregions of the Human Substantia Nigra to Appetitive and Aversive Learning. <i>Journal of Neuroscience</i> , 2015, 35, 14220-14233.	1.7	62
43	Differentiating neural systems mediating the acquisition vs. expression of goal-directed and habitual behavioral control. <i>European Journal of Neuroscience</i> , 2015, 41, 1358-1371.	1.2	55
44	Stimulus devaluation induced by stopping action.. <i>Journal of Experimental Psychology: General</i> , 2014, 143, 2316-2329.	1.5	48
45	The Role of the Posterior Temporal and Medial Prefrontal Cortices in Mediating Learning from Romantic Interest and Rejection. <i>Cerebral Cortex</i> , 2014, 24, 2502-2511.	1.6	33
46	Neural Computations Underlying Arbitration between Model-Based and Model-free Learning. <i>Neuron</i> , 2014, 81, 687-699.	3.8	470
47	Uncovering the spatio-temporal dynamics of value-based decision-making in the human brain: a combined fMRI-EEG study. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130473.	1.8	31
48	The Effects of Incentive Framing on Performance Decrements for Large Monetary Outcomes: Behavioral and Neural Mechanisms. <i>Journal of Neuroscience</i> , 2014, 34, 14833-14844.	1.7	32
49	Anterior Insula Activity Reflects the Effects of Intentionality on the Anticipation of Aversive Stimulation. <i>Journal of Neuroscience</i> , 2014, 34, 11339-11348.	1.7	24
50	The problem with value. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 43, 259-268.	2.9	115
51	Distinguishing informational from value-related encoding of rewarding and punishing outcomes in the human brain. <i>European Journal of Neuroscience</i> , 2014, 39, 2014-2026.	1.2	26
52	The Neural Representation of Unexpected Uncertainty during Value-Based Decision Making. <i>Neuron</i> , 2013, 79, 191-201.	3.8	212
53	Insights from the application of computational neuroimaging to social neuroscience. <i>Current Opinion in Neurobiology</i> , 2013, 23, 387-392.	2.0	47
54	In the Mind of the Market: Theory of Mind Biases Value Computation during Financial Bubbles. <i>Neuron</i> , 2013, 79, 1222-1231.	3.8	101

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55	The Behavioral and Neural Mechanisms Underlying the Tracking of Expertise. <i>Neuron</i> , 2013, 80, 1558-1571.	3.8	97
56	Category-dependent and category-independent goal-value codes in human ventromedial prefrontal cortex. <i>Nature Neuroscience</i> , 2013, 16, 479-485.	7.1	186
57	Stimulus Value Signals in Ventromedial PFC Reflect the Integration of Attribute Value Signals Computed in Fusiform Gyrus and Posterior Superior Temporal Gyrus. <i>Journal of Neuroscience</i> , 2013, 33, 8729-8741.	1.7	98
58	Neural Correlates of the Divergence of Instrumental Probability Distributions. <i>Journal of Neuroscience</i> , 2013, 33, 12519-12527.	1.7	33
59	Evidence for Model-based Computations in the Human Amygdala during Pavlovian Conditioning. <i>PLoS Computational Biology</i> , 2013, 9, e1002918.	1.5	65
60	Anything You Can Do, You Can Do Better: Neural Substrates of Incentive-Based Performance Enhancement. <i>PLoS Biology</i> , 2012, 10, e1001272.	2.6	8
61	Human Dorsal Striatum Encodes Prediction Errors during Observational Learning of Instrumental Actions. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 106-118.	1.1	104
62	Anterior Prefrontal Cortex Contributes to Action Selection through Tracking of Recent Reward Trends. <i>Journal of Neuroscience</i> , 2012, 32, 8434-8442.	1.7	88
63	Neural Prediction Errors Reveal a Risk-Sensitive Reinforcement-Learning Process in the Human Brain. <i>Journal of Neuroscience</i> , 2012, 32, 551-562.	1.7	293
64	Neural Correlates of Specific and General Pavlovian-to-Instrumental Transfer within Human Amygdalar Subregions: A High-Resolution fMRI Study. <i>Journal of Neuroscience</i> , 2012, 32, 8383-8390.	1.7	148
65	Dissociable Brain Systems Mediate Vicarious Learning of Stimulus-Response and Action-Outcome Contingencies. <i>Journal of Neuroscience</i> , 2012, 32, 9878-9886.	1.7	20
66	Dorsomedial Prefrontal Cortex Mediates Rapid Evaluations Predicting the Outcome of Romantic Interactions. <i>Journal of Neuroscience</i> , 2012, 32, 15647-15656.	1.7	36
67	Choosing for Me or Choosing for You: Value in Medial Prefrontal Cortex. <i>Neuron</i> , 2012, 75, 942-944.	3.8	1
68	Neural Mechanisms Underlying Paradoxical Performance for Monetary Incentives Are Driven by Loss Aversion. <i>Neuron</i> , 2012, 74, 582-594.	3.8	97
69	Contributions of the striatum to learning, motivation, and performance: an associative account. <i>Trends in Cognitive Sciences</i> , 2012, 16, 467-475.	4.0	261
70	Beyond simple reinforcement learning: the computational neurobiology of reward learning and valuation. <i>European Journal of Neuroscience</i> , 2012, 35, 987-990.	1.2	33
71	The human prefrontal cortex mediates integration of potential causes behind observed outcomes. <i>Journal of Neurophysiology</i> , 2011, 106, 1558-1569.	0.9	31
72	Differentiable contributions of human amygdalar subregions in the computations underlying reward and avoidance learning. <i>European Journal of Neuroscience</i> , 2011, 34, 134-145.	1.2	48

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73	Contributions of the ventromedial prefrontal cortex to goal-directed action selection. <i>Annals of the New York Academy of Sciences</i> , 2011, 1239, 118-129.	1.8	188
74	Transformation of stimulus value signals into motor commands during simple choice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18120-18125.	3.3	316
75	Neural Correlates of Instrumental Contingency Learning: Differential Effects of Action-Reward Conjunction and Disjunction. <i>Journal of Neuroscience</i> , 2011, 31, 2474-2480.	1.7	107
76	Human Dorsal Striatal Activity during Choice Discriminates Reinforcement Learning Behavior from the Gambler's Fallacy. <i>Journal of Neuroscience</i> , 2011, 31, 6296-6304.	1.7	32
77	The Decision Value Computations in the vmPFC and Striatum Use a Relative Value Code That is Guided by Visual Attention. <i>Journal of Neuroscience</i> , 2011, 31, 13214-13223.	1.7	272
78	Overlapping Responses for the Expectation of Juice and Money Rewards in Human Ventromedial Prefrontal Cortex. <i>Cerebral Cortex</i> , 2011, 21, 769-776.	1.6	156
79	Human Medial Orbitofrontal Cortex Is Recruited During Experience of Imagined and Real Rewards. <i>Journal of Neurophysiology</i> , 2010, 103, 2506-2512.	0.9	89
80	Decision Neuroscience: Choices of Description and of Experience. <i>Current Biology</i> , 2010, 20, R881-R883.	1.8	5
81	Model-based approaches to neuroimaging: combining reinforcement learning theory with fMRI data. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2010, 1, 501-510.	1.4	82
82	Neural evidence for inequality-averse social preferences. <i>Nature</i> , 2010, 463, 1089-1091.	13.7	370
83	Human and Rodent Homologies in Action Control: Corticostriatal Determinants of Goal-Directed and Habitual Action. <i>Neuropsychopharmacology</i> , 2010, 35, 48-69.	2.8	1,437
84	Economic choices can be made using only stimulus values. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15005-15010.	3.3	122
85	Appetitive and Aversive Goal Values Are Encoded in the Medial Orbitofrontal Cortex at the Time of Decision Making. <i>Journal of Neuroscience</i> , 2010, 30, 10799-10808.	1.7	302
86	States versus Rewards: Dissociable Neural Prediction Error Signals Underlying Model-Based and Model-Free Reinforcement Learning. <i>Neuron</i> , 2010, 66, 585-595.	3.8	935
87	Selective impairment of prediction error signaling in human dorsolateral but not ventral striatum in Parkinson's disease patients: evidence from a model-based fMRI study. <i>NeuroImage</i> , 2010, 49, 772-781.	2.1	78
88	Multiple Forms of Value Learning and the Function of Dopamine. , 2009, , 367-387.		38
89	Overlapping Prediction Errors in Dorsal Striatum During Instrumental Learning With Juice and Money Reward in the Human Brain. <i>Journal of Neurophysiology</i> , 2009, 102, 3384-3391.	0.9	97
90	A specific role for posterior dorsolateral striatum in human habit learning. <i>European Journal of Neuroscience</i> , 2009, 29, 2225-2232.	1.2	637

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91	It Was Nice Not Seeing You: Perceptual Learning with Rewards in the Absence of Awareness. <i>Neuron</i> , 2009, 61, 649-650.	3.8	2
92	Neural computations underlying action-based decision making in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17199-17204.	3.3	257
93	Risk-dependent reward value signal in human prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7185-7190.	3.3	160
94	Evidence for a Common Representation of Decision Values for Dissimilar Goods in Human Ventromedial Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2009, 29, 12315-12320.	1.7	539
95	Determining a Role for Ventromedial Prefrontal Cortex in Encoding Action-Based Value Signals During Reward-Related Decision Making. <i>Cerebral Cortex</i> , 2009, 19, 483-495.	1.6	330
96	Toward a Mechanistic Understanding of Human Decision Making. <i>Current Directions in Psychological Science</i> , 2008, 17, 119-123.	2.8	16
97	Neuronal Distortions of Reward Probability without Choice. <i>Journal of Neuroscience</i> , 2008, 28, 11703-11711.	1.7	83
98	The Neural Mechanisms Underlying the Influence of Pavlovian Cues on Human Decision Making. <i>Journal of Neuroscience</i> , 2008, 28, 5861-5866.	1.7	150
99	Calculating Consequences: Brain Systems That Encode the Causal Effects of Actions. <i>Journal of Neuroscience</i> , 2008, 28, 6750-6755.	1.7	223
100	A neural basis for the effect of candidate appearance on election outcomes. <i>Social Cognitive and Affective Neuroscience</i> , 2008, 3, 344-352.	1.5	61
101	Neural correlates of mentalizing-related computations during strategic interactions in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6741-6746.	3.3	464
102	Determining the Neural Substrates of Goal-Directed Learning in the Human Brain. <i>Journal of Neuroscience</i> , 2007, 27, 4019-4026.	1.7	452
103	What We Know and Do Not Know about the Functions of the Orbitofrontal Cortex after 20 Years of Cross-Species Studies: Figure 1.. <i>Journal of Neuroscience</i> , 2007, 27, 8166-8169.	1.7	217
104	Reinforcement Learning Signals in the Human Striatum Distinguish Learners from Nonlearners during Reward-Based Decision Making. <i>Journal of Neuroscience</i> , 2007, 27, 12860-12867.	1.7	344
105	Decoding the neural substrates of reward-related decision making with functional MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1377-1382.	3.3	243
106	Temporal isolation of neural processes underlying face preference decisions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18253-18258.	3.3	128
107	Contributions of the Amygdala to Reward Expectancy and Choice Signals in Human Prefrontal Cortex. <i>Neuron</i> , 2007, 55, 545-555.	3.8	183
108	Reward Value Coding Distinct From Risk Attitude-Related Uncertainty Coding in Human Reward Systems. <i>Journal of Neurophysiology</i> , 2007, 97, 1621-1632.	0.9	418

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109	Direct Instrumental Conditioning of Neural Activity Using Functional Magnetic Resonance Imaging-Derived Reward Feedback. <i>Journal of Neuroscience</i> , 2007, 27, 7498-7507.	1.7	130
110	Model-Based fMRI and Its Application to Reward Learning and Decision Making. <i>Annals of the New York Academy of Sciences</i> , 2007, 1104, 35-53.	1.8	416
111	Lights, Camembert, Action! The Role of Human Orbitofrontal Cortex in Encoding Stimuli, Rewards, and Choices. <i>Annals of the New York Academy of Sciences</i> , 2007, 1121, 254-272.	1.8	169
112	The Role of the Ventromedial Prefrontal Cortex in Abstract State-Based Inference during Decision Making in Humans. <i>Journal of Neuroscience</i> , 2006, 26, 8360-8367.	1.7	451
113	Predictive Neural Coding of Reward Preference Involves Dissociable Responses in Human Ventral Midbrain and Ventral Striatum. <i>Neuron</i> , 2006, 49, 157-166.	3.8	286
114	Human Neural Learning Depends on Reward Prediction Errors in the Blocking Paradigm. <i>Journal of Neurophysiology</i> , 2006, 95, 301-310.	0.9	175
115	Empathic neural responses are modulated by the perceived fairness of others. <i>Nature</i> , 2006, 439, 466-469.	13.7	1,470
116	Cortical substrates for exploratory decisions in humans. <i>Nature</i> , 2006, 441, 876-879.	13.7	1,790
117	Is Avoiding an Aversive Outcome Rewarding? Neural Substrates of Avoidance Learning in the Human Brain. <i>PLoS Biology</i> , 2006, 4, e233.	2.6	355
118	Regret and its avoidance: a neuroimaging study of choice behavior. <i>Nature Neuroscience</i> , 2005, 8, 1255-1262.	7.1	567
119	Opponent appetitive-aversive neural processes underlie predictive learning of pain relief. <i>Nature Neuroscience</i> , 2005, 8, 1234-1240.	7.1	384
120	Temporal difference models describe higher-order learning in humans. <i>Nature</i> , 2004, 429, 664-667.	13.7	557
121	Reward representations and reward-related learning in the human brain: insights from neuroimaging. <i>Current Opinion in Neurobiology</i> , 2004, 14, 769-776.	2.0	1,289
122	Temporal Difference Models and Reward-Related Learning in the Human Brain. <i>Neuron</i> , 2003, 38, 329-337.	3.8	1,311
123	Neural Responses during Anticipation of a Primary Taste Reward. <i>Neuron</i> , 2002, 33, 815-826.	3.8	990