

Randall C O'reilly

List of Publications by Year in descending order

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97
papers

19,496
citations

30070

54
h-index

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89
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118
all docs

118
docs citations

118
times ranked

12818
citing authors

#	ARTICLE	IF	CITATIONS
1	The Structure of Systematicity in the Brain. <i>Current Directions in Psychological Science</i> , 2022, 31, 124-130.	5.3	11
2	The Neural Correlates of Cued Reward Omission. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 615313.	2.0	8
3	Deep Predictive Learning in Neocortex and Pulvinar. <i>Journal of Cognitive Neuroscience</i> , 2021, 33, 1158-1196.	2.3	19
4	Effects of retrieval practice on tested and untested information: Cortico-hippocampal interactions and error-driven learning. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2021, , 125-155.	1.1	4
5	Complementary Structure-Learning Neural Networks for Relational Reasoning. , 2021, 2021, 1560-1566.		2
6	How Sequential Interactive Processing Within Frontostriatal Loops Supports a Continuum of Habitual to Controlled Processing. <i>Frontiers in Psychology</i> , 2020, 11, 380.	2.1	7
7	Unraveling the Mysteries of Motivation. <i>Trends in Cognitive Sciences</i> , 2020, 24, 425-434.	7.8	23
8	A systems-neuroscience model of phasic dopamine.. <i>Psychological Review</i> , 2020, 127, 972-1021.	3.8	14
9	Computational models of motivated frontal function. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2019, 163, 317-332.	1.8	3
10	Prediction error and somatosensory insula activation in women recovered from anorexia nervosa. <i>Journal of Psychiatry and Neuroscience</i> , 2016, 41, 304-311.	2.4	36
11	Regional specialization within the human striatum for diverse psychological functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1907-1912.	7.1	188
12	How the credit assignment problems in motor control could be solved after the cerebellum predicts increases in error. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 39.	2.1	5
13	The Leabra Cognitive Architecture. , 2015, , .		7
14	Latent structure in random sequences drives neural learning toward a rational bias. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3788-3792.	7.1	12
15	Reply to Aksentijevic: It is a matter of what is countable and how neurons learn. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3160-E3160.	7.1	0
16	Thalamic pathways underlying prefrontal cortexâ€œmedial temporal lobe oscillatory interactions. <i>Trends in Neurosciences</i> , 2015, 38, 3-12.	8.6	101
17	Early recurrent feedback facilitates visual object recognition under challenging conditions. <i>Frontiers in Psychology</i> , 2014, 5, 674.	2.1	83
18	A model of proactive and reactive cognitive control with anterior cingulate cortex and the neuromodulatory system. <i>Biologically Inspired Cognitive Architectures</i> , 2014, 10, 61-67.	0.9	1

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19	Complementary Learning Systems. <i>Cognitive Science</i> , 2014, 38, 1229-1248.	1.7	161
20	Integrating theories of motor sequencing in the SAL hybrid architecture. <i>Biologically Inspired Cognitive Architectures</i> , 2014, 8, 100-108.	0.9	1
21	A continuous-time neural model for sequential action. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130623.	4.0	15
22	A neural network model of individual differences in task switching abilities. <i>Neuropsychologia</i> , 2014, 62, 375-389.	1.6	96
23	How Limited Systematicity Emerges. , 2014, , 191-226.		8
24	Indirection and symbol-like processing in the prefrontal cortex and basal ganglia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16390-16395.	7.1	99
25	Individual Differences in Cognitive Flexibility. <i>Biological Psychiatry</i> , 2013, 74, 78-79.	1.3	3
26	Strategic Cognitive Sequencing: A Computational Cognitive Neuroscience Approach. <i>Computational Intelligence and Neuroscience</i> , 2013, 2013, 1-18.	1.7	14
27	Assembling Old Tricks for New Tasks: A Neural Model of Instructional Learning and Control. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 843-851.	2.3	20
28	Theta Coordinated Error-Driven Learning in the Hippocampus. <i>PLoS Computational Biology</i> , 2013, 9, e1003067.	3.2	53
29	Recurrent Processing during Object Recognition. <i>Frontiers in Psychology</i> , 2013, 4, 124.	2.1	106
30	Expectancy, Ambiguity, and Behavioral Flexibility: Separable and Complementary Roles of the Orbital Frontal Cortex and Amygdala in Processing Reward Expectancies. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 351-366.	2.3	25
31	Anorexia Nervosa and Obesity are Associated with Opposite Brain Reward Response. <i>Neuropsychopharmacology</i> , 2012, 37, 2031-2046.	5.4	269
32	The Limits of Feedforward Vision: Recurrent Processing Promotes Robust Object Recognition when Objects Are Degraded. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 2248-2261.	2.3	110
33	Distinct contributions of the caudate nucleus, rostral prefrontal cortex, and parietal cortex to the execution of instructed tasks. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2012, 12, 611-628.	2.0	49
34	The Function and Organization of Lateral Prefrontal Cortex: A Test of Competing Hypotheses. <i>PLoS ONE</i> , 2012, 7, e30284.	2.5	62
35	The Role of Competitive Inhibition and Top-Down Feedback in Binding during Object Recognition. <i>Frontiers in Psychology</i> , 2012, 3, 182.	2.1	19
36	Inhibiting PKM ζ reveals dorsal lateral and dorsal medial striatum store the different memories needed to support adaptive behavior. <i>Learning and Memory</i> , 2012, 19, 307-314.	1.3	43

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37	Altered Temporal Difference Learning in Bulimia Nervosa. <i>Biological Psychiatry</i> , 2011, 70, 728-735.	1.3	103
38	A unified framework for inhibitory control. <i>Trends in Cognitive Sciences</i> , 2011, 15, 453-459.	7.8	489
39	The Leabra architecture: Specialization without modularity. <i>Behavioral and Brain Sciences</i> , 2010, 33, 286-287.	0.7	5
40	Computational models of cognitive control. <i>Current Opinion in Neurobiology</i> , 2010, 20, 257-261.	4.2	79
41	Neural mechanisms of acquired phasic dopamine responses in learning. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 701-720.	6.1	87
42	Neural inhibition enables selection during language processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16483-16488.	7.1	78
43	The What and How of prefrontal cortical organization. <i>Trends in Neurosciences</i> , 2010, 33, 355-361.	8.6	229
44	Developing PFC representations using reinforcement learning. <i>Cognition</i> , 2009, 113, 281-292.	2.2	53
45	Attentional control of associative learning—A possible role of the central cholinergic system. <i>Brain Research</i> , 2008, 1202, 43-53.	2.2	39
46	Midazolam, hippocampal function, and transitive inference: Reply to Greene. <i>Behavioral and Brain Functions</i> , 2008, 4, 5.	3.3	7
47	The role of the dorsal striatum and dorsal hippocampus in probabilistic and deterministic odor discrimination tasks. <i>Learning and Memory</i> , 2008, 15, 294-298.	1.3	10
48	SAL: an explicitly pluralistic cognitive architecture. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2008, 20, 197-218.	2.8	108
49	Beyond red states and blue states in cognitive science. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2008, 20, 265-268.	2.8	1
50	The dynamics of integration and separation: ERP, MEG, and neural network studies of immediate repetition effects.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2008, 34, 1389-1416.	0.9	33
51	Developmental and Computational Approaches to Variation in Working Memory. , 2008, , 162-193.		3
52	Towards an executive without a homunculus: computational models of the prefrontal cortex/basal ganglia system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1601-1613.	4.0	355
53	PVLV: The Primary Value and Learned Value Pavlovian Learning Algorithm.. <i>Behavioral Neuroscience</i> , 2007, 121, 31-49.	1.2	103
54	Testing Computational Models of Dopamine and Noradrenaline Dysfunction in Attention Deficit/Hyperactivity Disorder. <i>Neuropsychopharmacology</i> , 2007, 32, 1583-1599.	5.4	200

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55	Separate neural substrates for skill learning and performance in the ventral and dorsal striatum. <i>Nature Neuroscience</i> , 2007, 10, 126-131.	14.8	222
56	A mechanistic account of striatal dopamine function in human cognition: Psychopharmacological studies with cabergoline and haloperidol.. <i>Behavioral Neuroscience</i> , 2006, 120, 497-517.	1.2	411
57	Making Working Memory Work: A Computational Model of Learning in the Prefrontal Cortex and Basal Ganglia. <i>Neural Computation</i> , 2006, 18, 283-328.	2.2	839
58	Neural Mechanisms of Cognitive Control: An Integrative Model of Stroop Task Performance and fMRI Data. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 22-32.	2.3	117
59	Biologically Based Computational Models of High-Level Cognition. <i>Science</i> , 2006, 314, 91-94.	12.6	395
60	When Memory Fails, Intuition Reigns. <i>Psychological Science</i> , 2006, 17, 700-707.	3.3	133
61	When logic fails: Implicit transitive inference in humans. <i>Memory and Cognition</i> , 2005, 33, 742-750.	1.6	100
62	Prefrontal cortex and the organization of recent and remote memories: An alternative view. <i>Learning and Memory</i> , 2005, 12, 445-446.	1.3	58
63	Prefrontal cortex and flexible cognitive control: Rules without symbols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7338-7343.	7.1	367
64	Serial visual search from a parallel model. <i>Vision Research</i> , 2005, 45, 2987-2992.	1.4	12
65	By Carrot or by Stick: Cognitive Reinforcement Learning in Parkinsonism. <i>Science</i> , 2004, 306, 1940-1943.	12.6	1,734
66	Hippocampus, cortex, and basal ganglia: Insights from computational models of complementary learning systems. <i>Neurobiology of Learning and Memory</i> , 2004, 82, 253-267.	1.9	165
67	Persistence and accommodation in short-term priming and other perceptual paradigms: temporal segregation through synaptic depression. <i>Cognitive Science</i> , 2003, 27, 403-430.	1.7	77
68	Transitivity, flexibility, conjunctive representations, and the hippocampus. I. An empirical analysis. <i>Hippocampus</i> , 2003, 13, 334-340.	1.9	118
69	Transitivity, flexibility, conjunctive representations, and the hippocampus. II. A computational analysis. <i>Hippocampus</i> , 2003, 13, 341-354.	1.9	136
70	Modeling hippocampal and neocortical contributions to recognition memory: A complementary-learning-systems approach.. <i>Psychological Review</i> , 2003, 110, 611-646.	3.8	1,091
71	Persistence and accommodation in short-term priming and other perceptual paradigms: temporal segregation through synaptic depression. <i>Cognitive Science</i> , 2003, 27, 403-430.	1.7	13
72	Prefrontal Cortex and Dynamic Categorization Tasks: Representational Organization and Neuromodulatory Control. <i>Cerebral Cortex</i> , 2002, 12, 246-257.	2.9	197

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73	Hippocampal formation supports conditioning to memory of a context.. Behavioral Neuroscience, 2002, 116, 530-538.	1.2	227
74	Hippocampal and neocortical contributions to memory: advances in the complementary learning systems framework. Trends in Cognitive Sciences, 2002, 6, 505-510.	7.8	382
75	Memory for context is impaired by injecting anisomycin into dorsal hippocampus following context exploration. Behavioural Brain Research, 2002, 134, 299-306.	2.2	118
76	Learning representations in a gated prefrontal cortex model of dynamic task switching. Cognitive Science, 2002, 26, 503-520.	1.7	41
77	Learning representations in a gated prefrontal cortex model of dynamic task switching. Cognitive Science, 2002, 26, 503-520.	1.7	11
78	Hippocampal formation supports conditioning to memory of a context.. Behavioral Neuroscience, 2002, 116, 530-538.	1.2	130
79	Conjunctive representations in learning and memory: Principles of cortical and hippocampal function.. Psychological Review, 2001, 108, 311-345.	3.8	786
80	Visual Representation in the Wild: How Rhesus Monkeys Parse Objects. Journal of Cognitive Neuroscience, 2001, 13, 44-58.	2.3	55
81	Generalization in Interactive Networks: The Benefits of Inhibitory Competition and Hebbian Learning. Neural Computation, 2001, 13, 1199-1241.	2.2	92
82	Graded effects in hierarchical figure-ground organization: Reply to Peterson (1999).. Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 1221-1231.	0.9	22
83	Computational principles of learning in the neocortex and hippocampus. Hippocampus, 2000, 10, 389-397.	1.9	159
84	SIMULATION AND EXPLANATION IN NEUROPSYCHOLOGY AND BEYOND. Cognitive Neuropsychology, 1999, 16, 49-72.	1.1	59
85	Contextual fear conditioning, conjunctive representations, pattern completion, and the hippocampus.. Behavioral Neuroscience, 1999, 113, 867-880.	1.2	240
86	A Biologically Based Computational Model of Working Memory. , 1999, , 375-411.		170
87	Contextual fear conditioning, conjunctive representations, pattern completion, and the hippocampus.. Behavioral Neuroscience, 1999, 113, 867-880.	1.2	130
88	Six principles for biologically based computational models of cortical cognition. Trends in Cognitive Sciences, 1998, 2, 455-462.	7.8	274
89	Figure-ground organization and object recognition processes: An interactive account.. Journal of Experimental Psychology: Human Perception and Performance, 1998, 24, 441-462.	0.9	97
90	Figure-ground organization and object recognition processes: An interactive account.. Journal of Experimental Psychology: Human Perception and Performance, 1998, 24, 441-462.	0.9	77

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91	Biologically Plausible Error-Driven Learning Using Local Activation Differences: The Generalized Recirculation Algorithm. <i>Neural Computation</i> , 1996, 8, 895-938.	2.2	298
92	Why there are complementary learning systems in the hippocampus and neocortex: Insights from the successes and failures of connectionist models of learning and memory.. <i>Psychological Review</i> , 1995, 102, 419-457.	3.8	4,586
93	Object Recognition and Sensitive Periods: A Computational Analysis of Visual Imprinting. <i>Neural Computation</i> , 1994, 6, 357-389.	2.2	82
94	Hippocampal conjunctive encoding, storage, and recall: Avoiding a trade-off. <i>Hippocampus</i> , 1994, 4, 661-682.	1.9	819
95	Dissociated overt and covert recognition as an emergent property of a lesioned neural network.. <i>Psychological Review</i> , 1993, 100, 571-588.	3.8	339
96	Receptive Field Characteristics That Allow Parietal Lobe Neurons to Encode Spatial Properties of Visual Input: A Computational Analysis. <i>Journal of Cognitive Neuroscience</i> , 1990, 2, 141-155.	2.3	22
97	Object Recognition and Sensitive Periods: A Computational Analysis of Visual Imprinting. , 0, , 392-413.		0