Marc W Howard

List of Publications by Citations

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73 papers	4,828 citations	33 h-index	69 g-index
80 ext. papers	5,672 ext. citations	4.5 avg, IF	5.82 L-index

#	Paper	IF	Citations
73	A Distributed Representation of Temporal Context. *Journal of Mathematical Psychology*, **2002**, 46, 269-299	2.2	604
72	Theta and gamma oscillations during encoding predict subsequent recall. *Journal of Neuroscience*, **2003**, 23, 10809-14	6.6	575
71	Gamma oscillations correlate with working memory load in humans. *Cerebral Cortex*, **2003**, 13, 1369-74	5.1	523
70	Gradual changes in hippocampal activity support remembering the order of events. *Neuron*, **2007**, 56, 530-40	13.9	271
69	Contextual variability and serial position effects in free recall.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **1999**, 25, 923-941	2.2	246
68	The temporal context model in spatial navigation and relational learning: toward a common explanation of medial temporal lobe function across domains. *Psychological Review*, **2005**, 112, 75-116	6.3	213
67	A context-based theory of recency and contiguity in free recall. *Psychological Review*, **2008**, 115, 893-912	6.3	201
66	When Does Semantic Similarity Help Episodic Retrieval?. *Journal of Memory and Language*, **2002**, 46, 85-98	3.8	128
65	Ventral hippocampal neurons are shaped by experience to represent behaviorally relevant contexts. *Journal of Neuroscience*, **2013**, 33, 8079-87	6.6	116
64	A unified mathematical framework for coding time, space, and sequences in the hippocampal region. *Journal of Neuroscience*, **2014**, 34, 4692-707	6.6	111
63	Time Cells in Hippocampal Area CA3. *Journal of Neuroscience*, **2016**, 36, 7476-84	6.6	98
62	The hippocampus, time, and memory across scales. *Journal of Experimental Psychology: General*, **2013**, 142, 1211-30	4.7	97
61	Age dissociates recency and lag recency effects in free recall.. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2002**, 28, 530-540	2.2	95
60	The Same Hippocampal CA1 Population Simultaneously Codes Temporal Information over Multiple Timescales. *Current Biology*, **2018**, 28, 1499-1508.e4	6.3	84
59	Aging selectively impairs recollection in recognition memory for pictures: evidence from modeling and receiver operating characteristic curves. *Psychology and Aging*, **2006**, 21, 96-106	3.6	82
58	Time and space in the hippocampus. *Brain Research*, **2015**, 1621, 345-54	3.7	76
57	A scale-invariant internal representation of time. *Neural Computation*, **2012**, 24, 134-93	2.9	76

56	A distributed representation of internal time. *Psychological Review*, **2015**, 122, 24-53	6.3	70
55	The temporal contiguity effect predicts episodic memory performance. *Memory and Cognition*, **2010**, 38, 689-99	2.2	70
54	Aging and contextual binding: modeling recency and lag recency effects with the temporal context model. *Psychonomic Bulletin and Review*, **2006**, 13, 439-45	4.1	69
53	Scopolamine impairs human recognition memory: data and modeling. *Behavioral Neuroscience*, **2003**, 117, 526-39	2.1	62
52	Age dissociates recency and lag recency effects in free recall. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2002**, 28, 530-40	2.2	62
51	Temporal associations and prior-list intrusions in free recall. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2006**, 32, 792-804	2.2	58
50	Some-or-none recollection: Evidence from item and source memory. *Journal of Experimental Psychology: General*, **2010**, 139, 341-64	4.7	55
49	Ensembles of human MTL neurons "jump back in time" in response to a repeated stimulus. *Hippocampus*, **2012**, 22, 1833-47	3.5	53
48	The persistence of memory: contiguity effects across hundreds of seconds. *Psychonomic Bulletin and Review*, **2008**, 15, 58-63	4.1	52
47	Spacing and lag effects in free recall of pure lists. *Psychonomic Bulletin and Review*, **2005**, 12, 159-64	4.1	49
46	Sequential Firing Codes for Time in Rodent Medial Prefrontal Cortex. *Cerebral Cortex*, **2017**, 27, 5663-5671	5.1	48
45	Shadows of the past: temporal retrieval effects in recognition memory. *Psychological Science*, **2005**, 16, 898-904	7.9	48
44	Human Episodic Memory Retrieval Is Accompanied by a Neural Contiguity Effect. *Journal of Neuroscience*, **2018**, 38, 4200-4211	6.6	45
43	Constructing semantic representations from a gradually-changing representation of temporal context. *Topics in Cognitive Science*, **2011**, 3, 48-73	2.5	37
42	A simple biophysically plausible model for long time constants in single neurons. *Hippocampus*, **2015**, 25, 27-37	3.5	36
41	Compressed Timeline of Recent Experience in Monkey Lateral Prefrontal Cortex. *Journal of Cognitive Neuroscience*, **2018**, 30, 935-950	3.1	34
40	Bridging the gap: transitive associations between items presented in similar temporal contexts. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2009**, 35, 391-407	2.2	31
39	Memory as Perception of the Past: Compressed Time inMind and Brain. *Trends in Cognitive Sciences*, **2018**, 22, 124-136	14	30

38	A neural microcircuit model for a scalable scale-invariant representation of time. *Hippocampus*, **2019**, 29, 260-274	3.5	28
37	A temporal record of the past with a spectrum of time constants in the monkey entorhinal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 20274-20283	11.5	21
36	Associative processes in immediate recency. *Memory and Cognition*, **2007**, 35, 1700-11	2.2	20
35	Effects of age on contextually mediated associations in paired associate learning. *Psychology and Aging*, **2007**, 22, 846-57	3.6	18
34	Scaling behavior in the temporal context model. *Journal of Mathematical Psychology*, **2004**, 48, 230-238	1.2	18
33	Temporal and spatial context in the mind and brain. *Current Opinion in Behavioral Sciences*, **2017**, 17, 14-19	4	17
32	Medial Temporal Lobe Amnesia Is Associated with a Deficit in Recovering Temporal Context. *Journal of Cognitive Neuroscience*, **2019**, 31, 236-248	3.1	17
31	Predicting the Future with Multi-scale Successor Representations		15
30	Place from time: Reconstructing position from a distributed representation of temporal context. *Neural Networks*, **2005**, 18, 1150-62	9.1	14
29	Conjunctive representation of what and when in monkey hippocampus and lateral prefrontal cortex during an associative memory task. *Hippocampus*, **2020**, 30, 1332-1346	3.5	13
28	Neural scaling laws for an uncertain world. *Psychological Review*, **2018**, 125, 47-58	6.3	13
27	Neural Mechanism to Simulate a Scale-Invariant Future. *Neural Computation*, **2016**, 28, 2594-2627	2.9	12
26	Timing using temporal context. *Brain Research*, **2010**, 1365, 3-17	3.7	11
25	Putting Short-Term Memory Into Context: Reply to Usher, Davelaar, Haarmann, and Goshen-Gottstein (2008). *Psychological Review*, **2008**, 115, 1119-1125	6.3	11
24	Sequential learning using temporal context. *Journal of Mathematical Psychology*, **2009**, 53, 474-485	1.2	10
23	Retrieved context and the discovery of semantic structure. *Advances in Neural Information Processing Systems*, **2008**, 20, 1193-1200	2.2	10
22	Is working memory stored along a logarithmic timeline? Converging evidence from neuroscience, behavior and models. *Neurobiology of Learning and Memory*, **2018**, 153, 104-110	3.1	10
21	In a Temporally Segmented Experience Hippocampal Neurons Represent Temporally Drifting Context But Not Discrete Segments. *Journal of Neuroscience*, **2019**, 39, 6936-6952	6.6	8

20	Reply to Farrell and Lewandowsky: Recency-contiguity interactions predicted by the temporal context model. *Psychonomic Bulletin and Review*, **2009**, 16, 973-84	4.1	8
19	A causal contiguity effect that persists across time scales. *Journal of Experimental Psychology: Learning Memory and Cognition*, **2013**, 39, 297-303	2.2	7
18	Estimating Scale-Invariant Future in Continuous Time. *Neural Computation*, **2019**, 31, 681-709	2.9	6
17	Mathematical learning theory through time. *Journal of Mathematical Psychology*, **2014**, 59, 18-29	1.2	6
16	A temporal record of the past with a spectrum of time constants in the monkey entorhinal cortex		6
15	Postscript: Distinguishing between temporal context and short-term store.. *Psychological Review*, **2008**, 115, 1125-1126	6.3	4
14	Conjunctive representation of what and when in monkey hippocampus and lateral prefrontal cortex during an associative memory task		3
13	A compressed representation of spatial distance in the rodent hippocampus		3
12	Generation of Scale-Invariant Sequential Activity in Linear Recurrent Networks. *Neural Computation* , **2020**, 32, 1379-1407	2.9	2
11	Recency order judgments in short term memory: Replication and extension of Hacker (1980)		2
10	Consistent population activity on the scale of minutes in the mouse hippocampus		2
9	Evidence accumulation in a Laplace domain decision space. *Computational Brain & Behavior*, **2018**, 1, 237-251	2	2
8	Consistent population activity on the scale of minutes in the mouse hippocampus.. *Hippocampus*, **2022**,	3.5	2
7	Howard Eichenbaum 1947-2017. *Nature Neuroscience*, **2017**, 20, 1432-1433	25.5	1
6	Predicting the Future with a Scale-Invariant Temporal Memory for the Past.. *Neural Computation*, **2022**, 1-44	2.9	1
5	Internally Generated Time in the Rodent Hippocampus is Logarithmically Compressed		1
4	Compressed timeline of recent experience in monkey lPFC		1
3	Time-conjunctive representations of future events. *Memory and Cognition*, **2020**, 48, 672-682	2.2	0

2	The legacy of Adam Johnson. *Hippocampus*, **2018**, 28, 453-454	3.5
1	Scale-Free Memory to Swiftly Generate Fuzzy Future Predictions. *Advances in Intelligent Systems and Computing*, **2015**, 185-194	0.4