Yael Niv

List of Publications by Year
in descending order

97 papers	13,809 citations	43973 48 h-index	38300 95 g-index
124 all docs	124 docs citations	124 times ranked	9196 citing authors

#	Article	IF	Citations
1	A model of mood as integrated advantage.. Psychological Review, 2022, 129, 513-541.	2.7	25
2	Rumination Derails Reinforcement Learning With Possible Implications for Ineffective Behavior. Clinical Psychological Science, 2022, 10, 714-733.	2.4	9
3	Minimal cross-trial generalization in learning the representation of an odor-guided choice task. PLoS Computational Biology, 2022, 18, e1009897.	1.5	2
4	A practical guide for studying human behavior in the lab. Behavior Research Methods, 2022, , 1.	2.3	3
5	Signed and unsigned reward prediction errors dynamically enhance learning and memory. ELife, 2021, 10, .	2.8	40
6	A recurring reproduction error in the administration of the Generalized Anxiety Disorder scale. Lancet Psychiatry,the, 2021, 8, 180-181.	3.7	2
7	Biased evaluations emerge from inferring hidden causes. Nature Human Behaviour, 2021, 5, 1180-1189.	6.2	12
8	The case against economic values in the orbitofrontal cortex (or anywhere else in the brain).. Behavioral Neuroscience, 2021, 135, 192-201.	0.6	64
9	A Transdiagnostic Association Between Mood Symptoms and Mood-Learning Interaction. Biological Psychiatry, 2021, 89, S214-S215.	0.7	0
10	The Psychometric Properties of the Pavlovian Instrumental Transfer Task in an Online Adult Sample. Biological Psychiatry, 2021, 89, S132.	0.7	4
11	Information Seeking on the Horizons Task Does Not Predict Anxious Symptomatology. Biological Psychiatry, 2021, 89, S217-S218.	0.7	2
12	Human Representation Learning. Annual Review of Neuroscience, 2021, 44, 253-273.	5.0	28
13	Orbitofrontal cortex and learning predictions of state transitions.. Behavioral Neuroscience, 2021, 135, 487-497.	0.6	5
14	Value-free reinforcement learning: policy optimization as a minimal model of operant behavior. Current Opinion in Behavioral Sciences, 2021, 41, 114-121.	2.0	18
15	The primacy of behavioral research for understanding the brain.. Behavioral Neuroscience, 2021, 135, 601-609.	0.6	61
16	A pupillary index of susceptibility to decision biases. Nature Human Behaviour, 2021, 5, 653-662.	6.2	6
17	Intact Reinforcement Learning But Impaired Attentional Control During Multidimensional Probabilistic Learning in Older Adults. Journal of Neuroscience, 2020, 40, 1084-1096.	1.7	10
18	Model-based decision making and model-free learning. Current Biology, 2020, 30, R860-R865.	1.8	39

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19	Reward prediction errors create event boundaries in memory. Cognition, 2020, 203, 104269.	1.1	55
20	Dopamine transients do not act as model-free prediction errors during associative learning. Nature Communications, 2020, 11, 106.	5.8	44
21	Uncovering the â€˜stateâ€™: Tracing the hidden state representations that structure learning and decision-making. Behavioural Processes, 2019, 167, 103891.	0.5	9
22	Depressive symptoms bias the prediction-error enhancement of memory towards negative events in reinforcement learning. Psychopharmacology, 2019, 236, 2425-2435.	1.5	29
23	Sequential replay of nonspatial task states in the human hippocampus. Science, 2019, 364, .	6.0	178
24	Complementary Task Structure Representations in Hippocampus and Orbitofrontal Cortex during an Odor Sequence Task. Current Biology, 2019, 29, 3402-3409.e3.	1.8	42
25	Learning task-state representations. Nature Neuroscience, 2019, 22, 1544-1553.	7.1	200
26	Representational structure or task structure? Bias in neural representational similarity analysis and a Bayesian method for reducing bias. PLoS Computational Biology, 2019, 15, e1006299.	1.5	33
27	Neural Signatures of Prediction Errors in a Decision-Making Task Are Modulated by Action Execution Failures. Current Biology, 2019, 29, 1606-1613.e5.	1.8	15
28	The Two Cultures of Computational Psychiatry. JAMA Psychiatry, 2019, 76, 563.	6.0	40
29	State representation in mental illness. Current Opinion in Neurobiology, 2019, 55, 160-166.	2.0	13
30	Rat Orbitofrontal Ensemble Activity Contains Multiplexed but Dissociable Representations of Value and Task Structure in an Odor Sequence Task. Current Biology, 2019, 29, 897-907.e3.	1.8	62
31	Holistic Reinforcement Learning: The Role of Structure and Attention. Trends in Cognitive Sciences, 2019, 23, 278-292.	4.0	64
32	An Integrated Model of Action Selection: Distinct Modes of Cortical Control of Striatal Decision Making. Annual Review of Psychology, 2019, 70, 53-76.	9.9	76
33	Model-based predictions for dopamine. Current Opinion in Neurobiology, 2018, 49, 1-7.	2.0	119
34	A State Representation for Reinforcement Learning and Decision-Making in the Orbitofrontal Cortex. , 2018, , 259-278.		32
35	Dissociable effects of surprising rewards on learning and memory.. Journal of Experimental Psychology: Learning Memory and Cognition, 2018, 44, 1430-1443.	0.7	77
36	Dynamic Interaction between Reinforcement Learning and Attention in Multidimensional Environments. Neuron, 2017, 93, 451-463.	3.8	229

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37	Computational approaches to fMRI analysis. Nature Neuroscience, 2017, 20, 304-313.	7.1	185
38	Dopamine transients are sufficient and necessary for acquisition of model-based associations. Nature Neuroscience, 2017, 20, 735-742.	7.1	222
39	Does mental context drift or shift?. Current Opinion in Behavioral Sciences, 2017, 17, 141-146.	2.0	78
40	Lateral Hypothalamic GABAergic Neurons Encode Reward Predictions that Are Relayed to the Ventral Tegmental Area to Regulate Learning. Current Biology, 2017, 27, 2089-2100.e5.	1.8	90
41	Reconsolidation-Extinction Interactions in Fear Memory Attenuation: The Role of Inter-Trial Interval Variability. Frontiers in Behavioral Neuroscience, 2017, 11, 2.	1.0	8
42	The computational nature of memory modification. ELife, 2017, 6, .	2.8	92
43	Feature-based reward learning biases dimensional attention. Journal of Vision, 2017, 17, 1297.	0.1	0
44	Should you trust your RSA result? A Bayesian method for reducing bias in neural representational similarity analysis.. Journal of Vision, 2017, 17, 571.	0.1	0
45	Predicting trial-by-trial attention dynamics during human reinforcement learning. Journal of Vision, 2017, 17, 1098.	0.1	0
46	Amplified selectivity in cognitive processing implements the neural gain model of norepinephrine function. Behavioral and Brain Sciences, 2016, 39, e206.	0.4	7
47	Reinforcement learning with Marr. Current Opinion in Behavioral Sciences, 2016, 11, 67-73.	2.0	34
48	A Probability Distribution over Latent Causes, in the Orbitofrontal Cortex. Journal of Neuroscience, 2016, 36, 7817-7828.	1.7	77
49	Human Orbitofrontal Cortex Represents a Cognitive Map of State Space. Neuron, 2016, 91, 1402-1412.	3.8	419
50	Do You See the Forest or the Tree? Neural Gain and Breadth Versus Focus in Perceptual Processing. Psychological Science, 2016, 27, 1632-1643.	1.8	39
51	The effects of aging on the interaction between reinforcement learning and attention.. Psychology and Aging, 2016, 31, 747-757.	1.4	21
52	Temporal Specificity of Reward Prediction Errors Signaled by Putative Dopamine Neurons in Rat VTA Depends on Ventral Striatum. Neuron, 2016, 91, 182-193.	3.8	93
53	Mood as Representation of Momentum. Trends in Cognitive Sciences, 2016, 20, 15-24.	4.0	220
54	DYT1 dystonia increases risk taking in humans. ELife, 2016, 5, .	2.8	12

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55	Novelty and Inductive Generalization in Human Reinforcement Learning. Topics in Cognitive Science, 2015, 7, 391-415.	1.1	64
56	How to divide and conquer the world, one step at a time. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2929-2930.	3.3	4
57	Reinforcement Learning in Multidimensional Environments Relies on Attention Mechanisms. Journal of Neuroscience, 2015, 35, 8145-8157.	1.7	284
58	The State of the Orbitofrontal Cortex. Neuron, 2015, 88, 1075-1077.	3.8	17
59	A free-choice premium in the basal ganglia. Trends in Cognitive Sciences, 2015, 19, 4-5.	4.0	5
60	Interaction between emotional state and learning underlies mood instability. Nature Communications, 2015, 6, 6149.	5.8	125
61	Discovering latent causes in reinforcement learning. Current Opinion in Behavioral Sciences, 2015, 5, 43-50.	2.0	104
62	Rethinking Extinction. Neuron, 2015, 88, 47-63.	3.8	227
63	Is Model Fitting Necessary for Model-Based fMRI?. PLoS Computational Biology, 2015, 11, e1004237.	1.5	74
64	Optimal Behavioral Hierarchy. PLoS Computational Biology, 2014, 10, e1003779.	1.5	91
65	Explaining compound generalization in associative and causal learning through rational principles of dimensional generalization.. Psychological Review, 2014, 121, 526-558.	2.7	60
66	Statistical Computations Underlying the Dynamics of Memory Updating. PLoS Computational Biology, 2014, 10, e1003939.	1.5	70
67	Orbitofrontal Cortex as a Cognitive Map of Task Space. Neuron, 2014, 81, 267-279.	3.8	709
68	Causal Model Comparison Shows That Human Representation Learning Is Not Bayesian. Cold Spring Harbor Symposia on Quantitative Biology, 2014, 79, 161-168.	2.0	8
69	How Did the Chicken Cross the Road? With Her Striatal Cholinergic Interneurons, Of Course. Neuron, 2013, 79, 3-6.	3.8	18
70	Neural and Psychological Maturation of Decision-making in Adolescence and Young Adulthood. Journal of Cognitive Neuroscience, 2013, 25, 1807-1823.	1.1	98
71	Dopamine ramps up. Nature, 2013, 500, 533-535.	13.7	19
72	Hierarchical Learning Induces Two Simultaneous, But Separable, Prediction Errors in Human Basal Ganglia. Journal of Neuroscience, 2013, 33, 5797-5805.	1.7	72

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73	The effects of neural gain on attention and learning. Nature Neuroscience, 2013, 16, 1146-1153.	7.1	362
74	Perceptual estimation obeys Occam's razor. Frontiers in Psychology, 2013, 4, 623.	1.1	35
75	Gradual extinction prevents the return of fear: implications for the discovery of state. Frontiers in Behavioral Neuroscience, 2013, 7, 164.	1.0	105
76	Neural Prediction Errors Reveal a Risk-Sensitive Reinforcement-Learning Process in the Human Brain. Journal of Neuroscience, 2012, 32, 551-562.	1.7	293
77	Exploring a latent cause theory of classical conditioning. Learning and Behavior, 2012, 40, 255-268.	0.5	102
78	The impact of orbitofrontal dysfunction on cocaine addiction. Nature Neuroscience, 2012, 15, 358-366.	7.1	179
79	On the value of information and other rewards. Nature Neuroscience, 2011, 14, 1095-1097.	7.1	21
80	Expectancy-related changes in firing of dopamine neurons depend on orbitofrontal cortex. Nature Neuroscience, 2011, 14, 1590-1597.	7.1	224
81	A Neural Signature of Hierarchical Reinforcement Learning. Neuron, 2011, 71, 370-379.	3.8	155
82	The effects of motivation on response rate: A hidden semi-Markov model analysis of behavioral dynamics. Journal of Neuroscience Methods, 2011, 201, 251-261.	1.3	14
83	Ventral Striatum and Orbitofrontal Cortex Are Both Required for Model-Based, But Not Model-Free, Reinforcement Learning. Journal of Neuroscience, 2011, 31, 2700-2705.	1.7	201
84	Inferring Relevance in a Changing World. Frontiers in Human Neuroscience, 2011, 5, 189.	1.0	108
85	Context, learning, and extinction.. Psychological Review, 2010, 117, 197-209.	2.7	275
86	Learning latent structure: carving nature at its joints. Current Opinion in Neurobiology, 2010, 20, 251-256.	2.0	242
87	Hierarchically organized behavior and its neural foundations: A reinforcement learning perspective. Cognition, 2009, 113, 262-280.	1.1	474
88	Reinforcement learning in the brain. Journal of Mathematical Psychology, 2009, 53, 139-154.	1.0	528
89	Reinforcement learning: The Good, The Bad and The Ugly. Current Opinion in Neurobiology, 2008, 18, 185-196.	2.0	803
90	Dialogues on prediction errors. Trends in Cognitive Sciences, 2008, 12, 265-272.	4.0	286

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91	From Fear to Safety and Back: Reversal of Fear in the Human Brain. Journal of Neuroscience, 2008, 28, 11517-11525.	1.7	420
92	Parkinson's Disease: Fighting the Will?: Figure 1.. Journal of Neuroscience, 2007, 27, 11777-11779.	1.7	19
93	Cost, Benefit, Tonic, Phasic: What Do Response Rates Tell Us about Dopamine and Motivation?. Annals of the New York Academy of Sciences, 2007, 1104, 357-376.	1.8	143
94	Tonic dopamine: opportunity costs and the control of response vigor. Psychopharmacology, 2007, 191, 507-520.	1.5	969
95	A normative perspective on motivation. Trends in Cognitive Sciences, 2006, 10, 375-381.	4.0	268
96	Choice values. Nature Neuroscience, 2006, 9, 987-988.	7.1	76
97	Uncertainty-based competition between prefrontal and dorsolateral striatal systems for behavioral control. Nature Neuroscience, 2005, 8, 1704-1711.	7.1	2,108