Christopher Summerfield

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Human optional stopping in a heteroscedastic world Psychological Review, 2023, 130, 1-22.	3.8	3
2	Normative Principles for Decision-Making in Natural Environments. Annual Review of Psychology, 2022, 73, 53-77.	17.7	8
3	A Normative Account of Confirmation Bias During Reinforcement Learning. Neural Computation, 2022, 34, 307-337.	2.2	17
4	Orthogonal representations for robust context-dependent task performance in brains and neural networks. Neuron, 2022, 110, 1258-1270.e11.	8.1	77
5	A practical guide for studying human behavior in the lab. Behavior Research Methods, 2022, , 1.	4.0	3
6	Model Sharing in the Human Medial Temporal Lobe. Journal of Neuroscience, 2022, 42, 5410-5426.	3.6	3
7	Human-centred mechanism design with Democratic Al. Nature Human Behaviour, 2022, 6, 1398-1407.	12.0	22
8	If deep learning is the answer, what is the question?. Nature Reviews Neuroscience, 2021, 22, 55-67.	10.2	185
9	Hippocampal place cells encode global location but not connectivity in a complex space. Current Biology, 2021, 31, 1221-1233.e9.	3.9	30
10	Neural state space alignment for magnitude generalization in humans and recurrent networks. Neuron, 2021, 109, 1214-1226.e8.	8.1	35
11	Optimal utility and probability functions for agents with finite computational precision. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
12	Structure learning and the posterior parietal cortex. Progress in Neurobiology, 2020, 184, 101717.	5.7	57
13	How Can Neuroscientists Respond to the Climate Emergency?. Neuron, 2020, 106, 17-20.	8.1	18
14	A map of decoy influence in human multialternative choice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25169-25178.	7.1	28
15	Selective Integration during Sequential Sampling in Posterior Neural Signals. Cerebral Cortex, 2020, 30, 4454-4464.	2.9	11
16	How does value distract?. Nature Human Behaviour, 2020, 4, 564-564.	12.0	0
17	Where Does Value Come From?. Trends in Cognitive Sciences, 2019, 23, 836-850.	7.8	73
18	A Network for Computing Value Equilibrium in the Human Medial Prefrontal Cortex. Neuron, 2019, 101, 977-987.e3.	8.1	30

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19	Human noise blindness drives suboptimal cognitive inference. Nature Communications, 2019, 10, 1719.	12.8	19
20	Causal Inference in the Multisensory Brain. Neuron, 2019, 102, 1076-1087.e8.	8.1	134
21	Neural structure mapping in human probabilistic reward learning. ELife, 2019, 8, .	6.0	53
22	Comparing continual task learning in minds and machines. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10313-E10322.	7.1	76
23	Gain control explains the effect of distraction in human perceptual, cognitive, and economic decision making. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8825-E8834.	7.1	38
24	Perceptual suboptimality: Bug or feature?. Behavioral and Brain Sciences, 2018, 41, e245.	0.7	5
25	Robust sampling of decision information during perceptual choice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2771-2776.	7.1	23
26	Ventromedial Prefrontal Cortex Encodes a Latent Estimate of Cumulative Reward. Neuron, 2017, 93, 705-714.e4.	8.1	35
27	Confidence matching in group decision-making. Nature Human Behaviour, 2017, 1, .	12.0	83
28	Perceptual Decision Making in Rodents, Monkeys, and Humans. Neuron, 2017, 93, 15-31.	8.1	261
29	Neuroscience-Inspired Artificial Intelligence. Neuron, 2017, 95, 245-258.	8.1	934
30	Selective overweighting of larger magnitudes during noisy numerical comparison. Nature Human Behaviour, 2017, 1, 145.	12.0	54
31	Neural Circuits Trained with Standard Reinforcement Learning Can Accumulate Probabilistic Information during Decision Making. Neural Computation, 2017, 29, 368-393.	2.2	2
32	Robust averaging protects decisions from noise in neural computations. PLoS Computational Biology, 2017, 13, e1005723.	3.2	41
33	Task relevance differentially shapes ventral visual stream sensitivity to visible and invisible faces. Neuroscience of Consciousness, 2016, 2016, niw021.	2.6	3
34	Neural Mechanisms of Hierarchical Planning in a Virtual Subway Network. Neuron, 2016, 90, 893-903.	8.1	128
35	Feature-Based Attention and Feature-Based Expectation. Trends in Cognitive Sciences, 2016, 20, 401-404.	7.8	61
36	Hybrid computing using a neural network with dynamic external memory. Nature, 2016, 538, 471-476.	27.8	799

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37	Encoding of Stimulus Probability in Macaque Inferior Temporal Cortex. Current Biology, 2016, 26, 2280-2290.	3.9	86
38	Reply to Davis-Stober et al.: Violations of rationality in a psychophysical task are not aggregation artifacts. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4764-6.	7.1	5
39	Visual Prediction Error Spreads Across Object Features in Human Visual Cortex. Journal of Neuroscience, 2016, 36, 12746-12763.	3.6	22
40	Rhythmic gain control during supramodal integration of approximate number. NeuroImage, 2016, 129, 470-479.	4.2	27
41	Economic irrationality is optimal during noisy decision making. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3102-3107.	7.1	102
42	Ghosts in the Decision Machine. Neuron, 2015, 86, 861-863.	8.1	1
43	The P300 as a build-to-threshold variable (Commentary on Twomeyet al.). European Journal of Neuroscience, 2015, 42, 1635-1635.	2.6	2
44	Neural Mechanisms of Human Perceptual Choice Under Focused and Divided Attention. Journal of Neuroscience, 2015, 35, 3485-3498.	3.6	65
45	Unreliable Evidence: 2 Sources of Uncertainty During Perceptual Choice. Cerebral Cortex, 2015, 25, 937-947.	2.9	28
46	Do humans make good decisions?. Trends in Cognitive Sciences, 2015, 19, 27-34.	7.8	109
47	Priming by the variability of visual information. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7873-7878.	7.1	49
48	Adaptive Gain Control during Human Perceptual Choice. Neuron, 2014, 81, 1429-1441.	8.1	147
49	Expectation in perceptual decision making: neural and computational mechanisms. Nature Reviews Neuroscience, 2014, 15, 745-756.	10.2	595
50	Neural mechanisms of economic commitment in the human medial prefrontal cortex. ELife, 2014, 3, .	6.0	8
51	Oh, rats! Post-error behavioral adjustment in creatures great and small. Nature Neuroscience, 2013, 16, 1715-1716.	14.8	4
52	Attention Sharpens the Distinction between Expected and Unexpected Percepts in the Visual Brain. Journal of Neuroscience, 2013, 33, 18438-18447.	3.6	111
53	Concurrent Repetition Enhancement and Suppression Responses in Extrastriate Visual Cortex. Cerebral Cortex, 2013, 23, 2235-2244.	2.9	78
54	Building Bridges between Perceptual and Economic Decision-Making: Neural and Computational Mechanisms. Frontiers in Neuroscience, 2012, 6, 70.	2.8	129

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55	Perceptual Classification in a Rapidly Changing Environment. Neuron, 2011, 71, 725-736.	8.1	70
56	Human Scalp Electroencephalography Reveals that Repetition Suppression Varies with Expectation. Frontiers in Human Neuroscience, 2011, 5, 67.	2.0	113
57	Robust averaging during perceptual judgment. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13341-13346.	7.1	144
58	Economic Value Biases Uncertain Perceptual Choices in the Parietal and Prefrontal Cortices. Frontiers in Human Neuroscience, 2010, 4, 208.	2.0	67
59	Expectation and Surprise Determine Neural Population Responses in the Ventral Visual Stream. Journal of Neuroscience, 2010, 30, 16601-16608.	3.6	368
60	Expectation (and attention) in visual cognition. Trends in Cognitive Sciences, 2009, 13, 403-409.	7.8	749
61	Neural repetition suppression reflects fulfilled perceptual expectations. Nature Neuroscience, 2008, 11, 1004-1006.	14.8	664