

# Hakwan Lau

## List of Publications by Citations

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127  
papers

5,159  
citations

35  
h-index

71  
g-index

143  
ext. papers

6,542  
ext. citations

7.3  
avg, IF

6.37  
L-index

#	Paper	IF	Citations
127	How the brain translates money into force: a neuroimaging study of subliminal motivation. <i>Science</i> , <b>2007</b> , 316, 904-6	33.3	455
126	Empirical support for higher-order theories of conscious awareness. <i>Trends in Cognitive Sciences</i> , <b>2011</b> , 15, 365-73	14	399
125	A signal detection theoretic approach for estimating metacognitive sensitivity from confidence ratings. <i>Consciousness and Cognition</i> , <b>2012</b> , 21, 422-30	2.6	389
124	Relative blindsight in normal observers and the neural correlate of visual consciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18763-8	11.5	342
123	Unconscious activation of the cognitive control system in the human prefrontal cortex. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 5805-11	6.6	250
122	What is consciousness, and could machines have it?. <i>Science</i> , <b>2017</b> , 358, 486-492	33.3	240
121	Theta-burst transcranial magnetic stimulation to the prefrontal cortex impairs metacognitive visual awareness. <i>Cognitive Neuroscience</i> , <b>2010</b> , 1, 165-75	1.7	229
120	Anatomical coupling between distinct metacognitive systems for memory and visual perception. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 1897-906	6.6	175
119	Prestimulus oscillatory activity over motor cortex reflects perceptual expectations. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 1400-10	6.6	156
118	Attention induces conservative subjective biases in visual perception. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1513-5	25.5	121
117	Should a Few Null Findings Falsify Prefrontal Theories of Conscious Perception?. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 9593-9602	6.6	106
116	Dissociating response selection and conflict in the medial frontal surface. <i>NeuroImage</i> , <b>2006</b> , 29, 446-51	7.9	104
115	Understanding the Higher-Order Approach to Consciousness. <i>Trends in Cognitive Sciences</i> , <b>2019</b> , 23, 754-768	14	103
114	Domain-General and Domain-Specific Patterns of Activity Supporting Metacognition in Human Prefrontal Cortex. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 3534-3546	6.6	97
113	Prior expectation modulates the interaction between sensory and prefrontal regions in the human brain. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 10741-8	6.6	88
112	Action-specific disruption of perceptual confidence. <i>Psychological Science</i> , <b>2015</b> , 26, 89-98	7.9	87
111	Multivoxel neurofeedback selectively modulates confidence without changing perceptual performance. <i>Nature Communications</i> , <b>2016</b> , 7, 13669	17.4	82

110	Direct injection of noise to the visual cortex decreases accuracy but increases decision confidence. <i>Journal of Neurophysiology</i> , <b>2012</b> , 107, 1556-63	3.2	77
109	Confidence Leak in Perceptual Decision Making. <i>Psychological Science</i> , <b>2015</b> , 26, 1664-80	7.9	76
108	There are things that we know that we know, and there are things that we do not know we do not know: Confidence in decision-making. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2015</b> , 55, 88-97	9	67
107	Human observers have optimal introspective access to perceptual processes even for visually masked stimuli. <i>ELife</i> , <b>2015</b> , 4, e09651	8.9	64
106	Towards an unconscious neural reinforcement intervention for common fears. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3470-3475	11.5	63
105	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. <i>Nature Human Behaviour</i> , <b>2016</b> , 1,	12.8	62
104	The signal processing architecture underlying subjective reports of sensory awareness. <i>Neuroscience of Consciousness</i> , <b>2016</b> , 2016,	3.3	56
103	Does perceptual confidence facilitate cognitive control?. <i>Attention, Perception, and Psychophysics</i> , <b>2015</b> , 77, 1295-306	2	54
102	Heuristic use of perceptual evidence leads to dissociation between performance and metacognitive sensitivity. <i>Attention, Perception, and Psychophysics</i> , <b>2016</b> , 78, 923-37	2	53
101	Perceptual confidence neglects decision-incongruent evidence in the brain. <i>Nature Human Behaviour</i> , <b>2017</b> , 1,	12.8	53
100	A detection theoretic explanation of blindsight suggests a link between conscious perception and metacognition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 367, 1401-11	5.8	51
99	A Role for the Superior Colliculus in Decision Criteria. <i>Neuron</i> , <b>2018</b> , 97, 181-194.e6	13.9	49
98	Superior colliculus neuronal ensemble activity signals optimal rather than subjective confidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1588-E1597	11.5	48
97	Causal Evidence for Mnemonic Metacognition in Human Precuneus. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 6379-6387	6.6	47
96	Domain-general enhancements of metacognitive ability through adaptive training. <i>Journal of Experimental Psychology: General</i> , <b>2019</b> , 148, 51-64	4.7	46
95	Does response interference depend on the subjective visibility of flanker distractors?. <i>Attention, Perception, and Psychophysics</i> , <b>2012</b> , 74, 841-51	2	43
94	Continuous theta burst transcranial magnetic stimulation reduces resting state connectivity between visual areas. <i>Journal of Neurophysiology</i> , <b>2013</b> , 110, 1811-21	3.2	42
93	Awareness-related activity in prefrontal and parietal cortices in blindsight reflects more than superior visual performance. <i>NeuroImage</i> , <b>2011</b> , 58, 605-11	7.9	38

92	Decoded fMRI neurofeedback can induce bidirectional confidence changes within single participants. <i>NeuroImage</i> , <b>2017</b> , 149, 323-337	7.9	30
91	A decisional account of subjective inflation of visual perception at the periphery. <i>Attention, Perception, and Psychophysics</i> , <b>2015</b> , 77, 258-71	2	30
90	Contributions of anterior cingulate cortex and basolateral amygdala to decision confidence and learning under uncertainty. <i>Nature Communications</i> , <b>2019</b> , 10, 4704	17.4	30
89	Prestimulus hemodynamic activity in dorsal attention network is negatively associated with decision confidence in visual perception. <i>Journal of Neurophysiology</i> , <b>2012</b> , 108, 1529-36	3.2	28
88	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , <b>2019</b> , 3, 104-107	12.8	28
87	Current Status of Neurofeedback for Post-traumatic Stress Disorder: A Systematic Review and the Possibility of Decoded Neurofeedback. <i>Frontiers in Human Neuroscience</i> , <b>2019</b> , 13, 233	3.3	27
86	Manipulation of working memory contents selectively impairs metacognitive sensitivity in a concurrent visual discrimination task. <i>Neuroscience of Consciousness</i> , <b>2015</b> , 2015, niv002	3.3	25
85	Who's afraid of response bias?. <i>Neuroscience of Consciousness</i> , <b>2016</b> , 2016,	3.3	24
84	Multivoxel pattern analysis reveals dissociations between subjective fear and its physiological correlates. <i>Molecular Psychiatry</i> , <b>2020</b> , 25, 2342-2354	15.1	23
83	Inflation versus filling-in: why we feel we see more than we actually do in peripheral vision. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	22
82	Consciousness science: real progress and lingering misconceptions. <i>Trends in Cognitive Sciences</i> , <b>2014</b> , 18, 556-7	14	21
81	Consciousness, Metacognition, & Perceptual Reality Monitoring		21
80	Direct assessment of qualia in a blindsight participant. <i>Consciousness and Cognition</i> , <b>2008</b> , 17, 1046-9	2.6	20
79	The Neurobiology of Reduced Autobiographical Memory Specificity. <i>Trends in Cognitive Sciences</i> , <b>2018</b> , 22, 1038-1049	14	19
78	Limited Cognitive Resources Explain a Trade-Off between Perceptual and Metacognitive Vigilance. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 1213-1224	6.6	18
77	What Type of Awareness Does Binocular Rivalry Assess?. <i>Trends in Cognitive Sciences</i> , <b>2016</b> , 20, 719-720	14	15
76	Transcranial magnetic stimulation to visual cortex induces suboptimal introspection. <i>Cortex</i> , <b>2017</b> , 93, 119-132	3.8	14
75	A little history goes a long way toward understanding why we study consciousness the way we do today. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 6976-6984	11.5	14

74	Seeing consciousness through the lens of memory. <i>Current Biology</i> , <b>2020</b> , 30, R1018-R1022	6.3	14
73	Cross-Domain Association in Metacognitive Efficiency Depends on First-Order Task Types. <i>Frontiers in Psychology</i> , <b>2018</b> , 9, 2464	3.4	14
72	Unconscious Psychological Treatments for Physiological Survival Circuits. <i>Current Opinion in Behavioral Sciences</i> , <b>2018</b> , 24, 62-68	4	14
71	Individual susceptibility to TMS affirms the precuneal role in meta-memory upon recollection. <i>Brain Structure and Function</i> , <b>2019</b> , 224, 2407-2419	4	13
70	Subliminal stimuli in the near absence of attention influence top-down cognitive control. <i>Attention, Perception, and Psychophysics</i> , <b>2012</b> , 74, 521-32	2	13
69	An Informal Internet Survey on the Current State of Consciousness Science. <i>Frontiers in Psychology</i> , <b>2018</b> , 9, 2134	3.4	13
68	Response. <i>Science</i> , <b>2018</b> , 359, 400-402	33.3	11
67	Subjective inflation: phenomenology& get-rich-quick scheme. <i>Current Opinion in Psychology</i> , <b>2019</b> , 29, 49-55	6.2	11
66	An investigation of detection biases in the unattended periphery during simulated driving. <i>Attention, Perception, and Psychophysics</i> , <b>2018</b> , 80, 1325-1332	2	10
65	Controlling for performance capacity confounds in neuroimaging studies of conscious awareness. <i>Neuroscience of Consciousness</i> , <b>2015</b> , 2015, niv008	3.3	10
64	Superior colliculus signals decisions rather than confidence: analysis of single neurons. <i>Journal of Neurophysiology</i> , <b>2018</b> , 120, 2614-2629	3.2	10
63	Human brain responses to gustatory and food stimuli: A meta-evaluation of neuroimaging meta-analyses. <i>NeuroImage</i> , <b>2019</b> , 202, 116111	7.9	9
62	Neuroscience: The Key to Consciousness May Not Be under the Streetlight. <i>Current Biology</i> , <b>2018</b> , 28, R749-R752	6.3	9
61	The higher-order view does not require consciously self-directed introspection: response to Malach. <i>Trends in Cognitive Sciences</i> , <b>2011</b> , 15, 508-509	14	9
60	Neuroscience. Should confidence be trusted?. <i>Science</i> , <b>2010</b> , 329, 1478-9	33.3	9
59	Unconscious reinforcement learning of hidden brain states supported by confidence. <i>Nature Communications</i> , <b>2020</b> , 11, 4429	17.4	9
58	Conducting decoded neurofeedback studies. <i>Social Cognitive and Affective Neuroscience</i> , <b>2021</b> , 16, 838-848	4	7
57	Is fear perception special? Evidence at the level of decision-making and subjective confidence. <i>Social Cognitive and Affective Neuroscience</i> , <b>2016</b> , 11, 1772-1782	4	7

56	Theoretical motivations for investigating the neural correlates of consciousness. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , <b>2011</b> , 2, 1-7	4.5	7
55	Putting the "mental" back in "mental disorders": a perspective from research on fear and anxiety.. <i>Molecular Psychiatry</i> , <b>2022</b> ,	15.1	7
54	Comparing signal detection models of perceptual decision confidence. <i>Journal of Vision</i> , <b>2010</b> , 10, 213-2134		7
53	A decision-congruent heuristic gives superior metacognitive sensitivity under realistic variance assumptions. <i>Psychological Review</i> , <b>2020</b> , 127, 655-671	6.3	6
52	Tuned inhibition in perceptual decision-making circuits can explain seemingly suboptimal confidence behavior. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008779	5	6
51	Is blindsight possible under signal detection theory? Comment on Phillips (2021). <i>Psychological Review</i> , <b>2021</b> , 128, 585-591	6.3	6
50	The effects of neurochemical balance in the anterior cingulate cortex and dorsolateral prefrontal cortex on volitional control under irrelevant distraction. <i>Consciousness and Cognition</i> , <b>2018</b> , 59, 104-111	2.6	5
49	On the dangers of conflating strong and weak versions of a theory of consciousness		5
48	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 255	5.1	4
47	Continuous flash suppression and monocular pattern masking impact subjective awareness similarly. <i>Attention, Perception, and Psychophysics</i> , <b>2018</b> , 80, 1974-1987	2	4
46	Volition and the functions of consciousness. <i>Neuroscience Research</i> , <b>2009</b> , 65, S28	2.9	4
45	On the dangers of conflating strong and weak versions of a theory of consciousness. <i>Philosophy and the Mind Sciences</i> , <b>2020</b> , 1,	1.5	4
44	Methodological Considerations to Strengthen Studies of Peripheral Vision. <i>Trends in Cognitive Sciences</i> , <b>2016</b> , 20, 642-643	14	4
43	Spatiotemporal dynamics of brightness coding in human visual cortex revealed by the temporal context effect. <i>NeuroImage</i> , <b>2020</b> , 205, 116277	7.9	4
42	Atypical spatial frequency dependence of visual metacognition among schizophrenia patients. <i>NeuroImage: Clinical</i> , <b>2020</b> , 27, 102296	5.3	3
41	Six-fold over-representation of graduates from prestigious universities does not necessitate unmeritocratic selection in the faculty hiring process. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185900	3.7	3
40	Awareness-related activity in prefrontal and parietal cortices reflects more than superior performance capacity: A blindsight case study. <i>Journal of Vision</i> , <b>2010</b> , 10, 897-897	0.4	3
39	Inattention boosts subjective visibility: Implications for inattentional and change blindness. <i>Journal of Vision</i> , <b>2010</b> , 9, 157-157	0.4	3

38	New measures of agency from an adaptive sensorimotor task. <i>PLoS ONE</i> , <b>2020</b> , 15, e0244113	3.7	3
37	Multivoxel Pattern Analysis Reveals Dissociations Between Subjective Fear and Its Physiological Correlates		3
36	Transcranial magnetic stimulation alters multivoxel patterns in the absence of overall activity changes. <i>Human Brain Mapping</i> , <b>2021</b> , 42, 3804-3820	5.9	3
35	A new vista in psychiatric treatment: Using individualized functional connectivity to track symptoms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 4450-4452	11.5	2
34	Crucial Role of the Prefrontal Cortex in Conscious Perception <b>2017</b> , 129-141		2
33	How the Brain Converts Negative Evaluation into Performance Facilitation. <i>Cerebral Cortex</i> , <b>2018</b> , 28, 602-611	5.1	2
32	Real-Time fMRI in the Treatment of Mental Health Disorders		2
31	Theta-burst transcranial magnetic stimulation to the prefrontal cortex impairs metacognitive visual awareness. <i>Journal of Vision</i> , <b>2010</b> , 9, 764-764	0.4	2
30	Author response: Human observers have optimal introspective access to perceptual processes even for visually masked stimuli <b>2015</b> ,		2
29	Conducting Decoded Neurofeedback Studies		2
28	Subjective inflation of color saturation in the periphery under temporal overload		2
27	Metacognition facilitates the exploitation of unconscious brain states		2
26	Dissociable roles for Anterior Cingulate Cortex and Basolateral Amygdala in Decision Confidence and Learning under Uncertainty		2
25	Consensus goals in the field of visual metacognition		2
24	An investigation of how relative precision of target encoding influences metacognitive performance. <i>Attention, Perception, and Psychophysics</i> , <b>2021</b> , 83, 512-524	2	2
23	Variable Statistical Structure of Neuronal Spike Trains in Monkey Superior Colliculus. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 3234-3253	6.6	2
22	The DecNef collection, fMRI data from closed-loop decoded neurofeedback experiments. <i>Scientific Data</i> , <b>2021</b> , 8, 65	8.2	2
21	Between-subject correlation of heart rate variability predicts movie preferences. <i>PLoS ONE</i> , <b>2021</b> , 16, e0247625	3.7	2

20	The mnemonic basis of subjective experience		2
19	20 Years of ASSC: are we ready for its coming of age?. <i>Neuroscience of Consciousness</i> , <b>2017</b> , 2017, nix0083,3		1
18	Real-Time Functional MRI in the Treatment of Mental Health Disorders.. <i>Annual Review of Clinical Psychology</i> , <b>2022</b> ,	20.5	1
17	Individual susceptibility to TMS affirms the precuneal role in metamemory upon recollection		1
16	Subjective confidence judgments for motion direction discrimination are centrally biased despite matched objective performance in the periphery. <i>Journal of Vision</i> , <b>2019</b> , 19, 294b	0.4	1
15	Multivoxel Neural Reinforcement Changes Resting-State Functional Connectivity Within the Threat Regulation Network		1
14	Causal evidence for mnemonic metacognition in human precuneus		1
13	Tuned normalization in perceptual decision-making circuits can explain seemingly suboptimal confidence behavior		1
12	Multivoxel patterns for perceptual confidence are associated with false color detection		1
11	Higher-order theories do just fine. <i>Cognitive Neuroscience</i> , <b>2021</b> , 12, 77-78	1.7	1
10	Reporting on the temporal properties of visual events masked with continuous flash suppression. <i>Consciousness and Cognition</i> , <b>2015</b> , 36, 154-68	2.6	
9	Measuring away an attentional confound?. <i>Neuroscience of Consciousness</i> , <b>2017</b> , 2017, nix018	3.3	
8	Ethical considerations for fMRI neurofeedback <b>2021</b> , 315-331		
7	Subjective inflation in the unattended periphery in a naturalistic environment. <i>Journal of Vision</i> , <b>2018</b> , 18, 530	0.4	
6	Visual representations outside of conscious awareness can support sensory preconditioning. <i>Journal of Vision</i> , <b>2019</b> , 19, 188	0.4	
5	Investigating Perceptual Confidence in the Superior Colliculus with Multi-Unit Neuronal Recordings. <i>Journal of Vision</i> , <b>2017</b> , 17, 741	0.4	
4	New measures of agency from an adaptive sensorimotor task <b>2020</b> , 15, e0244113		
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2 New measures of agency from an adaptive sensorimotor task **2020**, 15, e0244113

1 New measures of agency from an adaptive sensorimotor task **2020**, 15, e0244113