

# F Gregory Ashby

## List of Publications by Year in descending order

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117  
papers

12,442  
citations

61984

43  
h-index

25787

108  
g-index

118  
all docs

118  
docs citations

118  
times ranked

6199  
citing authors

#	ARTICLE	IF	CITATIONS
1	A neuropsychological theory of positive affect and its influence on cognition.. Psychological Review, 1999, 106, 529-550.	3.8	1,839
2	A neuropsychological theory of multiple systems in category learning.. Psychological Review, 1998, 105, 442-481.	3.8	1,115
3	Varieties of perceptual independence.. Psychological Review, 1986, 93, 154-179.	3.8	825
4	Human Category Learning. Annual Review of Psychology, 2005, 56, 149-178.	17.7	746
5	Deconvolving BOLD activation in event-related designs for multivoxel pattern classification analyses. NeuroImage, 2012, 59, 2636-2643.	4.2	583
6	Decision rules in the perception and categorization of multidimensional stimuli.. Journal of Experimental Psychology: Learning Memory and Cognition, 1988, 14, 33-53.	0.9	444
7	Cortical and basal ganglia contributions to habit learning and automaticity. Trends in Cognitive Sciences, 2010, 14, 208-215.	7.8	395
8	Comparing decision bound and exemplar models of categorization. Perception & Psychophysics, 1993, 53, 49-70.	2.3	389
9	Toward a unified theory of similarity and recognition.. Psychological Review, 1988, 95, 124-150.	3.8	333
10	A neurobiological theory of automaticity in perceptual categorization.. Psychological Review, 2007, 114, 632-656.	3.8	269
11	Delayed feedback effects on rule-based and information-integration category learning.. Journal of Experimental Psychology: Learning Memory and Cognition, 2003, 29, 650-662.	0.9	265
12	Complex decision rules in categorization: Contrasting novice and experienced performance.. Journal of Experimental Psychology: Human Perception and Performance, 1992, 18, 50-71.	0.9	263
13	The effects of concurrent task interference on category learning: Evidence for multiple category learning systems. Psychonomic Bulletin and Review, 2001, 8, 168-176.	2.8	237
14	Human category learning 2.0. Annals of the New York Academy of Sciences, 2011, 1224, 147-161.	3.8	228
15	Category learning and multiple memory systems. Trends in Cognitive Sciences, 2005, 9, 83-89.	7.8	227
16	Dissociating explicit and procedural-learning based systems of perceptual category learning. Behavioural Processes, 2004, 66, 309-332.	1.1	212
17	A formal theory of feature binding in object perception.. Psychological Review, 1996, 103, 165-192.	3.8	187
18	Observational versus feedback training in rule-based and information-integration category learning. Memory and Cognition, 2002, 30, 666-677.	1.6	182

#	ARTICLE	IF	CITATIONS
19	On the dominance of unidimensional rules in unsupervised categorization. <i>Perception &amp; Psychophysics</i> , 1999, 61, 1178-1199.	2.3	175
20	Procedural learning in perceptual categorization. <i>Memory and Cognition</i> , 2003, 31, 1114-1125.	1.6	175
21	On the nature of implicit categorization. <i>Psychonomic Bulletin and Review</i> , 1999, 6, 363-378.	2.8	171
22	Implicit and explicit categorization: A tale of four species. <i>Neuroscience and Biobehavioral Reviews</i> , 2012, 36, 2355-2369.	6.1	163
23	Disrupting feedback processing interferes with rule-based but not information-integration category learning. <i>Memory and Cognition</i> , 2004, 32, 582-591.	1.6	154
24	Learning robust cortico-cortical associations with the basal ganglia: An integrative review. <i>Cortex</i> , 2015, 64, 123-135.	2.4	147
25	FROST: A Distributed Neurocomputational Model of Working Memory Maintenance. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 1728-1743.	2.3	117
26	Pigeonsâ€™ categorization may be exclusively nonanalytic. <i>Psychonomic Bulletin and Review</i> , 2011, 18, 414-421.	2.8	95
27	11. The effects of positive affect and arousal on working memory and executive attention. <i>Advances in Consciousness Research</i> , 2002, , 245-287.	0.2	94
28	Subitizing: Magical numbers or mere superstition?. <i>Psychological Research</i> , 1992, 54, 80-90.	1.7	84
29	Spatiotemporal activity estimation for multivoxel pattern analysis with rapid event-related designs. <i>NeuroImage</i> , 2012, 62, 1429-1438.	4.2	77
30	The Role of the Basal Ganglia in Category Learning. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2006, 46, 1-36.	1.1	72
31	Cortical and striatal contributions to automaticity in information-integration categorization. <i>NeuroImage</i> , 2011, 56, 1791-1802.	4.2	72
32	Categorization response time with multidimensional stimuli. <i>Perception &amp; Psychophysics</i> , 1994, 55, 11-27.	2.3	67
33	Implicit and explicit category learning by macaques ( <i>Macaca mulatta</i> ) and humans ( <i>Homo sapiens</i> ).. <i>Journal of Experimental Psychology</i> , 2010, 36, 54-65.	1.7	66
34	Evidence for Cortical Automaticity in Rule-Based Categorization. <i>Journal of Neuroscience</i> , 2010, 30, 14225-14234.	3.6	66
35	Is subitizing a unique numerical ability?. <i>Perception &amp; Psychophysics</i> , 1991, 50, 555-564.	2.3	64
36	Automaticity in rule-based and information-integration categorization. <i>Attention, Perception, and Psychophysics</i> , 2010, 72, 1013-1031.	1.3	63

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37	Suboptimality in human categorization and identification.. Journal of Experimental Psychology: General, 2001, 130, 77-96.	2.1	59
38	The Neurobiology of Category Learning. Behavioral and Cognitive Neuroscience Reviews, 2004, 3, 101-113.	3.9	57
39	Deferred Feedback Sharply Dissociates Implicit and Explicit Category Learning. Psychological Science, 2014, 25, 447-457.	3.3	57
40	A Computational Model of How Cholinergic Interneurons Protect Striatal-dependent Learning. Journal of Cognitive Neuroscience, 2011, 23, 1549-1566.	2.3	51
41	Automaticity and multiple memory systems. Wiley Interdisciplinary Reviews: Cognitive Science, 2012, 3, 363-376.	2.8	50
42	Category learning deficits in Parkinson's disease. Neuropsychology, 2003, 17, 115-24.	1.3	50
43	A role for the perceptual representation memory system in category learning. Perception & Psychophysics, 2008, 70, 983-999.	2.3	46
44	A tutorial on computational cognitive neuroscience: Modeling the neurodynamics of cognition. Journal of Mathematical Psychology, 2011, 55, 273-289.	1.8	46
45	Perceptual sampling of orthogonal straight line features. Psychological Research, 1981, 43, 259-275.	1.7	45
46	Testing the assumptions of exponential, additive reaction time models. Memory and Cognition, 1982, 10, 125-134.	1.6	44
47	The effects of positive versus negative feedback on information-integration category learning. Perception & Psychophysics, 2007, 69, 865-878.	2.3	44
48	Analogical transfer in perceptual categorization. Memory and Cognition, 2012, 40, 434-449.	1.6	44
49	Category label and response location shifts in category learning. Psychological Research, 2010, 74, 219-236.	1.7	43
50	Interactions between declarative and procedural-learning categorization systems. Neurobiology of Learning and Memory, 2010, 94, 1-12.	1.9	43
51	Estimating the parameters of multidimensional signal detection theory from simultaneous ratings on separate stimulus components. Perception & Psychophysics, 1988, 44, 195-204.	2.3	41
52	Implicit and explicit category learning by capuchin monkeys (Cebus apella).. Journal of Comparative Psychology (Washington, D C: 1983), 2012, 126, 294-304.	0.5	41
53	Multiple Systems of Perceptual Category Learning. , 2017, , 157-188.		41
54	Response time distributions in multidimensional perceptual categorization. Perception & Psychophysics, 1998, 60, 620-637.	2.3	40

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55	Response processes in information integration category learning. <i>Neurobiology of Learning and Memory</i> , 2008, 90, 330-338.	1.9	39
56	A neural interpretation of exemplar theory.. <i>Psychological Review</i> , 2017, 124, 472-482.	3.8	38
57	The effects of category overlap on information-integration and rule-based category learning. <i>Perception &amp; Psychophysics</i> , 2006, 68, 1013-1026.	2.3	33
58	Initial Training With Difficult Items Facilitates Information Integration, but Not Rule-Based Category Learning. <i>Psychological Science</i> , 2008, 19, 1169-1177.	3.3	33
59	Multiple stages of learning in perceptual categorization: evidence and neurocomputational theory. <i>Psychonomic Bulletin and Review</i> , 2015, 22, 1598-1613.	2.8	32
60	General recognition theory with individual differences: a new method for examining perceptual and decisional interactions with an application to face perception. <i>Psychonomic Bulletin and Review</i> , 2015, 22, 88-111.	2.8	32
61	A neurocomputational account of cognitive deficits in Parkinson's disease. <i>Neuropsychologia</i> , 2012, 50, 2290-2302.	1.6	31
62	Neural networks underlying the metacognitive uncertainty response. <i>Cortex</i> , 2015, 71, 306-322.	2.4	28
63	The Neuropsychological Bases of Category Learning. <i>Current Directions in Psychological Science</i> , 2000, 9, 10-14.	5.3	25
64	Multiple attention systems in perceptual categorization. <i>Memory and Cognition</i> , 2002, 30, 325-339.	1.6	25
65	Learning and transfer of category knowledge in an indirect categorization task. <i>Psychological Research</i> , 2012, 76, 292-303.	1.7	25
66	Erasing the engram: The unlearning of procedural skills.. <i>Journal of Experimental Psychology: General</i> , 2013, 142, 710-741.	2.1	25
67	Single versus multiple systems of category learning: Reply to Nosofsky and Kruschke (2002). <i>Psychonomic Bulletin and Review</i> , 2002, 9, 175-180.	2.8	24
68	Simulating category learning and set shifting deficits in patients weight-restored from anorexia nervosa.. <i>Neuropsychology</i> , 2014, 28, 741-751.	1.3	23
69	Categorization training increases the perceptual separability of novel dimensions. <i>Cognition</i> , 2015, 139, 105-129.	2.2	22
70	Brain activity across the development of automatic categorization: A comparison of categorization tasks using multi-voxel pattern analysis. <i>NeuroImage</i> , 2013, 71, 284-297.	4.2	21
71	Is state-trace analysis an appropriate tool for assessing the number of cognitive systems?. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 935-946.	2.8	21
72	Differential effects of dopamine-directed treatments on cognition. <i>Neuropsychiatric Disease and Treatment</i> , 2015, 11, 1859.	2.2	21

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73	A test of visual feature sampling independence with orthogonal straight lines. <i>Bulletin of the Psychonomic Society</i> , 1980, 15, 163-166.	0.2	20
74	A model of dopamine modulated cortical activation. <i>Neural Networks</i> , 2003, 16, 973-984.	5.9	20
75	What makes a categorization task difficult?. <i>Perception &amp; Psychophysics</i> , 2002, 64, 570-583.	2.3	19
76	Unsupervised category learning with integral-dimension stimuli. <i>Quarterly Journal of Experimental Psychology</i> , 2012, 65, 1537-1562.	1.1	19
77	Fitting computational models to fMRI data. <i>Behavior Research Methods</i> , 2008, 40, 713-721.	4.0	17
78	Generalization of category knowledge and dimensional categorization in humans ( <i>Homo sapiens</i> ) and nonhuman primates ( <i>Macaca mulatta</i> ).. <i>Journal of Experimental Psychology Animal Learning and Cognition</i> , 2015, 41, 322-335.	0.5	17
79	A neurocomputational theory of how explicit learning bootstraps early procedural learning. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 177.	2.1	16
80	Testing analogical rule transfer in pigeons ( <i>Columba livia</i> ). <i>Cognition</i> , 2019, 183, 256-268.	2.2	16
81	Dissociations between rule-based and information-integration categorization are not caused by differences in task difficulty. <i>Memory and Cognition</i> , 2020, 48, 541-552.	1.6	16
82	Retinal-specific category learning. <i>Nature Human Behaviour</i> , 2018, 2, 500-506.	12.0	15
83	A probabilistic multidimensional model of location information. <i>Psychological Research</i> , 1994, 56, 66-77.	1.7	14
84	Procedural learning of unstructured categories. <i>Psychonomic Bulletin and Review</i> , 2012, 19, 1202-1209.	2.8	14
85	Procedural learning during declarative control.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2015, 41, 1388-1403.	0.9	14
86	The relative sensitivities of same-different and identification judgment models to perceptual dependence. <i>Psychometrika</i> , 1993, 58, 257-279.	2.1	13
87	Expanding the role of striatal cholinergic interneurons and the midbrain dopamine system in appetitive instrumental conditioning. <i>Journal of Neurophysiology</i> , 2016, 115, 240-254.	1.8	13
88	Testing Separability and Independence of Perceptual Dimensions with General Recognition Theory: A Tutorial and New R Package (grtools). <i>Frontiers in Psychology</i> , 2017, 8, 696.	2.1	13
89	The role of feedback contingency in perceptual category learning.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2016, 42, 1731-1746.	0.9	13
90	Perceptual category learning and visual processing: An exercise in computational cognitive neuroscience. <i>Neural Networks</i> , 2017, 89, 31-38.	5.9	12

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91	A THURSTONE-COOMBS MODEL OF CONCURRENT RATINGS WITH SENSORY AND LIKING DIMENSIONS. <i>Journal of Sensory Studies</i> , 2002, 17, 43-59.	1.6	11
92	The Prep statistic as a measure of confidence in model fitting. <i>Psychonomic Bulletin and Review</i> , 2008, 15, 16-27.	2.8	11
93	What is automatized during perceptual categorization?. <i>Cognition</i> , 2016, 154, 22-33.	2.2	11
94	Linking signal detection theory and encoding models to reveal independent neural representations from neuroimaging data. <i>PLoS Computational Biology</i> , 2018, 14, e1006470.	3.2	10
95	Informationâ€“integration category learning and the human uncertainty response. <i>Memory and Cognition</i> , 2011, 39, 536-554.	1.6	9
96	A computational model of the temporal dynamics of plasticity in procedural learning: sensitivity to feedback timing. <i>Frontiers in Psychology</i> , 2014, 5, 643.	2.1	9
97	Dissociable changes in functional network topology underlie early category learning and development of automaticity. <i>NeuroImage</i> , 2016, 141, 220-241.	4.2	9
98	Trial-by-trial switching between procedural and declarative categorization systems. <i>Psychological Research</i> , 2018, 82, 371-384.	1.7	9
99	Comparing the biased choice model and multidimensional decision bound models of identification. <i>Mathematical Social Sciences</i> , 1992, 23, 175-197.	0.5	8
100	Novel representations that support rule-based categorization are acquired on-the-fly during category learning. <i>Psychological Research</i> , 2019, 83, 544-566.	1.7	8
101	Dopamine dependence in aggregate feedback learning: A computational cognitive neuroscience approach. <i>Brain and Cognition</i> , 2016, 109, 1-18.	1.8	7
102	State-trace analysis misinterpreted and misapplied: Reply to Stephens, Matzke, and Hayes (2019). <i>Journal of Mathematical Psychology</i> , 2019, 91, 195-200.	1.8	7
103	A neurocomputational model of automaticity and maintenance of abstract rules. , 2009, , .		5
104	Declarative strategies persist under increased cognitive load. <i>Psychonomic Bulletin and Review</i> , 2016, 23, 213-222.	2.8	5
105	Hierarchical control of procedural and declarative category-learning systems. <i>NeuroImage</i> , 2017, 150, 150-161.	4.2	5
106	A neurocomputational theory of how rule-guided behaviors become automatic.. <i>Psychological Review</i> , 2021, 128, 488-508.	3.8	5
107	A difficulty predictor for perceptual category learning. <i>Journal of Vision</i> , 2019, 19, 20.	0.3	4
108	Quantitative modeling of category learning deficits in various patient populations.. <i>Neuropsychology</i> , 2017, 31, 862-876.	1.3	4

#	ARTICLE	IF	CITATIONS
109	Dynamical trajectories in category learning. <i>Perception &amp; Psychophysics</i> , 2004, 66, 1318-1340.	2.3	3
110	When instructions don't help: Knowing the optimal strategy facilitates rule-based but not information-integration category learning.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2021, 47, 1226-1236.	0.9	3
111	Resurrecting Information Theory. <i>American Journal of Psychology</i> , 1995, 108, 609.	0.3	2
112	Response-mode shifts during sequence learning of macaque monkeys. <i>Psychological Research</i> , 2013, 77, 223-233.	1.7	2
113	Linear separability, irrelevant variability, and categorization difficulty.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2022, 48, 159-172.	0.9	2
114	State trace analysis: What it can and cannot do. <i>Journal of Mathematical Psychology</i> , 2022, 108, 102655.	1.8	2
115	A role for the medial temporal lobes in category learning. <i>Learning and Memory</i> , 2020, 27, 441-450.	1.3	0
116	Modulation of Dopamine for Adaptive Learning: a Neurocomputational Model. <i>Computational Brain &amp; Behavior</i> , 2021, 4, 34-52.	1.7	0
117	On what it means to automatize a rule. <i>Cognition</i> , 2022, 226, 105168.	2.2	0