

# Gregory Francis

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

2,387  
citations

257450

24  
h-index

233421

45  
g-index

114  
all docs

114  
docs citations

114  
times ranked

1491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Equivalent statistics for a one-sample t-test. Behavior Research Methods, 2023, 55, 77-84.	4.0	4
2	The black hole illusion: A neglected source of aviation accidents. International Journal of Industrial Ergonomics, 2022, 87, 103235.	2.6	6
3	Cortical circuits for top-down control of perceptual grouping. Neural Networks, 2022, 151, 190-210.	5.9	5
4	Excess success in articles on object-based attention. Attention, Perception, and Psychophysics, 2022, 84, 700-714.	1.3	9
5	Perceptual Grouping Strategies in a Letter Identification Task: Strategic Connections, Selection, and Segmentation. Attention, Perception, and Psychophysics, 2022, 84, 1944-1963.	1.3	3
6	Reversing Bonferroni. Psychonomic Bulletin and Review, 2021, 28, 788-794.	2.8	6
7	Shrinking Bouma's window: How to model crowding in dense displays. PLoS Computational Biology, 2021, 17, e1009187.	3.2	11
8	Excess success in studies of object-based attention. Journal of Vision, 2021, 21, 2271.	0.3	0
9	Perceptual Grouping and Selection Strategies in an Enumeration Task. Journal of Vision, 2021, 21, 2260.	0.3	0
10	How crowding challenges (feedforward) convolutional neural networks. Journal of Vision, 2021, 21, 2039.	0.3	0
11	The Black Hole Illusion: Theory and Tests. Journal of Vision, 2021, 21, 2806.	0.3	0
12	When illusions merge. Journal of Vision, 2020, 20, 12.	0.3	8
13	Perceptual Grouping Strategies in Visual Search Tasks. Journal of Vision, 2020, 20, 694.	0.3	0
14	Running Large-Scale Simulations on the Neurorobotics Platform to Understand Vision – The Case of Visual Crowding. Frontiers in Neurobotics, 2019, 13, 33.	2.8	11
15	Beyond Bouma's window: How to explain global aspects of crowding?. PLoS Computational Biology, 2019, 15, e1006580.	3.2	38
16	The moon size illusion does not improve perceptual judgments. Consciousness and Cognition, 2019, 73, 102754.	1.5	1
17	Factors underlying visual illusions are illusion-specific but not feature-specific. Journal of Vision, 2019, 19, 12.	0.3	26
18	Retinal spatiotemporal dynamics on emergence of visual persistence and afterimages.. Psychological Review, 2019, 126, 374-394.	3.8	10

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19	Excess Success in "Ray of hope: Hopelessness Increases Preferences for Brighter Lighting" Collabra: Psychology, 2019, 5, .	1.8	5
20	A Neural Circuit for Perceptual Grouping, Segmentation, and Selection. Journal of Vision, 2019, 19, 150b.	0.3	0
21	A Model with Top-down Control of the Range of Perceptual Grouping. Journal of Vision, 2019, 19, 151a.	0.3	0
22	Using a model of human visual perception to improve deep learning. Neural Networks, 2018, 104, 40-49.	5.9	13
23	Registered reports for Consciousness and Cognition. Consciousness and Cognition, 2018, 57, A1-A3.	1.5	0
24	Neural dynamics of grouping and segmentation explain properties of visual crowding.. Psychological Review, 2017, 124, 483-504.	3.8	43
25	About individual differences in vision. Vision Research, 2017, 141, 282-292.	1.4	77
26	Comment on: Conceptualizing and evaluating the replication of research results. Journal of Experimental Social Psychology, 2017, 69, 237-240.	2.2	1
27	Equivalent statistics and data interpretation. Behavior Research Methods, 2017, 49, 1524-1538.	4.0	44
28	Towards a Unifying Model of Crowding: Model Olympics. Journal of Vision, 2017, 17, 399.	0.3	0
29	Perceptual Grouping and Segmentation: Uncrowding. Journal of Vision, 2017, 17, 366.	0.3	0
30	Crowding asymmetries in a neural model of image segmentation. Journal of Vision, 2017, 17, 365.	0.3	0
31	The Structure of Visual Space. Journal of Vision, 2017, 17, 787.	0.3	0
32	Implications of "Too Good to Be True" for Replication, Theoretical Claims, and Experimental Design: An Example Using Prominent Studies of Racial Bias. Frontiers in Psychology, 2016, 7, 1382.	2.1	4
33	Confirming the appearance of excess success: Reply to van Boxtel and Koch (2016). Psychonomic Bulletin and Review, 2016, 23, 2010-2013.	2.8	1
34	How to optimize switch virtual keyboards to trade off speed and accuracy. Cognitive Research: Principles and Implications, 2016, 1, 6.	2.0	3
35	Cortical Dynamics of Perceptual Grouping and Segmentation: Crowding. Journal of Vision, 2016, 16, 1114.	0.3	2
36	Contour Erasure and Filling-in: Old Simulations Account for Most New Observations. I-Perception, 2015, 6, 116-126.	1.4	1

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37	Release of crowding by pattern completion. <i>Journal of Vision</i> , 2015, 15, 16.	0.3	12
38	Excess success for three related papers on racial bias. <i>Frontiers in Psychology</i> , 2015, 6, 512.	2.1	3
39	Crowding, Patterns, and Recurrent Processing. <i>Journal of Vision</i> , 2015, 15, 550.	0.3	0
40	Excess Success for Psychology Articles in the Journal Science. <i>PLoS ONE</i> , 2014, 9, e114255.	2.5	40
41	Visual crowding illustrates the inadequacy of local vs. global and feedforward vs. feedback distinctions in modeling visual perception. <i>Frontiers in Psychology</i> , 2014, 5, 1193.	2.1	17
42	Too Much Success for Recent Groundbreaking Epigenetic Experiments. <i>Genetics</i> , 2014, 198, 449-451.	2.9	25
43	Visual Masking. , 2014, , 1-108.		17
44	The frequency of excess success for articles in <i>Psychological Science</i> . <i>Psychonomic Bulletin and Review</i> , 2014, 21, 1180-1187.	2.8	77
45	Introduction to the SCiP special issue. <i>Behavior Research Methods</i> , 2013, 45, 603-603.	4.0	0
46	We should focus on the biases that matter: A reply to commentaries. <i>Journal of Mathematical Psychology</i> , 2013, 57, 190-195.	1.8	9
47	Replication, statistical consistency, and publication bias. <i>Journal of Mathematical Psychology</i> , 2013, 57, 153-169.	1.8	92
48	Choosing Colors for Map Display Icons Using Models of Visual Search. <i>Human Factors</i> , 2013, 55, 373-396.	3.5	11
49	Optimization of switch keyboards. , 2013, , .		1
50	Publication bias in "Red, rank, and romance in women viewing men," by Elliot et al. (2010).. <i>Journal of Experimental Psychology: General</i> , 2013, 142, 292-296.	2.1	34
51	Replication Initiative: Beware Misinterpretation. <i>Science</i> , 2012, 336, 802-802.	12.6	5
52	The Psychology of Replication and Replication in Psychology. <i>Perspectives on Psychological Science</i> , 2012, 7, 585-594.	9.0	172
53	The Same Old New Look: Publication Bias in a Study of Wishful Seeing. <i>I-Perception</i> , 2012, 3, 176-178.	1.4	26
54	Publication bias and the failure of replication in experimental psychology. <i>Psychonomic Bulletin and Review</i> , 2012, 19, 975-991.	2.8	159

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55	Introduction to SCiP special issue. Behavior Research Methods, 2012, 44, 607-607.	4.0	0
56	Evidence that publication bias contaminated studies relating social class and unethical behavior. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1587; author reply E1588.	7.1	29
57	Simulations of induced visual scene fading with boundary offset and filling-in. Vision Research, 2012, 62, 181-191.	1.4	3
58	Too good to be true: Publication bias in two prominent studies from experimental psychology. Psychonomic Bulletin and Review, 2012, 19, 151-156.	2.8	160
59	Testing dynamical models of vision. Vision Research, 2011, 51, 343-351.	1.4	3
60	Speed-accuracy tradeoffs in specialized keyboards. International Journal of Human Computer Studies, 2011, 69, 526-538.	5.6	7
61	Color selection, color capture, and afterimage filling-in. Journal of Vision, 2011, 11, 23-23.	0.3	13
62	Properties of Long-Range Illusory Contours Produced by Offset-Arcs. Perception, 2010, 39, 1466-1475.	1.2	4
63	Cognitive considerations for helmet-mounted display design. Proceedings of SPIE, 2010, , .	0.8	0
64	The psychological four-color mapping problem.. Journal of Experimental Psychology: Applied, 2010, 16, 109-123.	1.2	4
65	Modeling filling-in of afterimages. Attention, Perception, and Psychophysics, 2010, 72, 19-22.	1.3	16
66	The roles of mask luminance and perceptual grouping in visual backward masking. Journal of Vision, 2009, 9, 22-22.	0.3	9
67	Cortical dynamics of figure-ground segmentation: Shine-through. Vision Research, 2009, 49, 140-163.	1.4	12
68	Combining simultaneous with temporal masking.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 977-988.	0.9	7
69	Applying models of visual search to map display design. International Journal of Human Computer Studies, 2008, 66, 67-77.	5.6	6
70	Effects of temporal integration on the shape of visual backward masking functions.. Journal of Experimental Psychology: Human Perception and Performance, 2008, 34, 1116-1128.	0.9	24
71	Visual masking and the dynamics of human perception, cognition, and consciousness: &lt;i>A century of progress, a contemporary synthesis, and future directions&lt;/i>. Advances in Cognitive Psychology, 2007, 3, 1-8.	0.5	20
72	What is the strength of a mask in visual metacontrast masking?. Journal of Vision, 2007, 7, 7.	0.3	32

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73	Attentional effects on afterimages: Theory and data. <i>Vision Research</i> , 2007, 47, 2249-2258.	1.4	22
74	Testing models of object substitution with backward masking. <i>Perception &amp; Psychophysics</i> , 2007, 69, 263-275.	2.3	17
75	Orientation tuning of a two-stimulus afterimage: Implications for theories of filling-in. <i>Advances in Cognitive Psychology</i> , 2007, 3, 375-387.	0.5	7
76	What should a quantitative model of masking look like and why would we want it?. <i>Advances in Cognitive Psychology</i> , 2007, 3, 21-31.	0.5	9
77	Building and Testing Optimized Keyboards for Specific Text Entry. <i>Human Factors</i> , 2006, 48, 279-287.	3.5	6
78	The Time Course of Visual Afterimages: Data and Theory. <i>Perception</i> , 2006, 35, 1155-1170.	1.2	13
79	Using afterimages for orientation and color to explore mechanisms of visual filling-in. <i>Perception &amp; Psychophysics</i> , 2005, 67, 383-397.	2.3	11
80	A new look at binocular stereopsis. <i>Vision Research</i> , 2005, 45, 2244-2255.	1.4	20
81	Analysis and test of laws for backward (metacontrast) masking. <i>Spatial Vision</i> , 2004, 17, 163-185.	1.4	11
82	Testing quantitative models of backward masking. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 104-112.	2.8	35
83	Using afterimages to test neural mechanisms for perceptual filling-in. <i>Neural Networks</i> , 2004, 17, 737-752.	5.9	13
84	Interactions of afterimages for orientation and color: Experimental data and model simulations. <i>Perception &amp; Psychophysics</i> , 2003, 65, 508-522.	2.3	17
85	On-line simulations of models for backward masking. <i>Behavior Research Methods</i> , 2003, 35, 512-519.	1.3	7
86	MFDTool: A software program for designing optimal multifunction displays. <i>Behavior Research Methods</i> , 2003, 35, 236-243.	1.3	2
87	Developing a new quantitative account of backward masking. <i>Cognitive Psychology</i> , 2003, 46, 198-226.	2.2	28
88	Comment on "Competition for consciousness among visual events: The psychophysics of reentrant visual processes" (Di Lollo, Enns & Rensink, 2000).. <i>Journal of Experimental Psychology: General</i> , 2002, 131, 590-593.	2.1	33
89	Applying models of visual search to menu design. <i>International Journal of Human Computer Studies</i> , 2002, 56, 307-330.	5.6	24
90	Comment on "Competition for consciousness among visual events: the psychophysics of reentrant visual processes" (Di Lollo, Enns, & Rensink, 2000). <i>Journal of Experimental Psychology: General</i> , 2002, 131, 590-3; discussion 594-6.	2.1	12

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91	Perceived motion in orientational afterimages: direction and speed. <i>Vision Research</i> , 2001, 41, 161-172.	1.4	13
92	Quantitative theories of metacontrast masking.. <i>Psychological Review</i> , 2000, 107, 768-785.	3.8	71
93	<title>Optimization of information presentation on multifunction displays</title> . , 2000, 4022, 126.		0
94	Perceived motion in complementary afterimages: verification of a neural network theory. <i>Spatial Vision</i> , 2000, 13, 67-86.	1.4	6
95	Designing Multifunction Displays: An Optimization Approach. <i>International Journal of Cognitive Ergonomics</i> , 2000, 4, 107-124.	0.2	20
96	Spatial frequency and visual persistence: Cortical reset. <i>Spatial Vision</i> , 1999, 12, 31-50.	1.4	11
97	Java experiments for introductory cognitive psychology courses. <i>Behavior Research Methods</i> , 1999, 31, 99-106.	1.3	10
98	Motion Parallel to Line Orientation: Disambiguation of Motion Percepts. <i>Perception</i> , 1999, 28, 1243-1255.	1.2	17
99	Neural network dynamics of cortical inhibition: Metacontrast masking. <i>Information Sciences</i> , 1998, 107, 287-296.	6.9	3
100	A Computational and Perceptual Account of Motion Lines. <i>Perception</i> , 1998, 27, 785-797.	1.2	27
101	Cortical dynamics of lateral inhibition: Metacontrast masking.. <i>Psychological Review</i> , 1997, 104, 572-594.	3.8	123
102	Cortical dynamics of form and motion integration: Persistence, apparent motion, and illusory contours. <i>Vision Research</i> , 1996, 36, 149-173.	1.4	113
103	Cortical Dynamics of Boundary Segmentation and Reset: Persistence, Afterimages, and Residual Traces. <i>Perception</i> , 1996, 25, 543-567.	1.2	92
104	Cortical dynamics of lateral inhibition: Visual persistence and ISI. <i>Perception &amp; Psychophysics</i> , 1996, 58, 1103-1109.	2.3	15
105	Cortical dynamics of visual persistence and temporal integration. <i>Perception &amp; Psychophysics</i> , 1996, 58, 1203-1212.	2.3	20
106	Cortical dynamics of feature binding and reset: Control of visual persistence. <i>Vision Research</i> , 1994, 34, 1089-1104.	1.4	155