Kalanit Grill-Spector

List of Publications by Year in Descending Order

117 papers	13,089 citations	44 h-index	114 g-index
140 ext. papers	15,250 ext. citations	7 avg, IF	6.79 L-index

#	Paper	IF	Citations
117	Attention enhances category representations across the brain with strengthened residual correlations to ventral temporal cortex.. *NeuroImage*, **2022**, 249, 118900	7.9	0
116	White matter myelination during early infancy is linked to spatial gradients and myelin content at birth.. *Nature Communications*, **2022**, 13, 997	17.4	1
115	Establishing the functional relevancy of white matter connections in the visual system and beyond. *Brain Structure and Function*, **2021**, 1	4	2
114	InfantsXcortex undergoes microstructural growth coupled with myelination during development. *Communications Biology*, **2021**, 4, 1191	6.7	2
113	A Probabilistic Functional Atlas of Human Occipito-Temporal Visual Cortex. *Cerebral Cortex*, **2021**, 31, 603-619	5.1	15
112	Differential spatial computations in ventral and lateral face-selective regions are scaffolded by structural connections. *Nature Communications*, **2021**, 12, 2278	17.4	8
111	Cortical recycling in high-level visual cortex during childhood development. *Nature Human Behaviour*, **2021**,	12.8	7
110	Sulcal Depth in the Medial Ventral Temporal Cortex Predicts the Location of a Place-Selective Region in Macaques, Children, and Adults. *Cerebral Cortex*, **2021**, 31, 48-61	5.1	5
109	White matter fascicles and cortical microstructure predict reading-related responses in human ventral temporal cortex. *NeuroImage*, **2021**, 227, 117669	7.9	3
108	Holistic face recognition is an emergent phenomenon of spatial processing in face-selective regions. *Nature Communications*, **2021**, 12, 4745	17.4	2
107	Combined Neural Tuning in Human Ventral Temporal Cortex Resolves the Perceptual Ambiguity of Morphed 2D Images. *Cerebral Cortex*, **2020**, 30, 4882-4898	5.1	0
106	Diverse Temporal Dynamics of Repetition Suppression Revealed by Intracranial Recordings in the Human Ventral Temporal Cortex. *Cerebral Cortex*, **2020**, 30, 5988-6003	5.1	5
105	Ultra-high-resolution fMRI of Human Ventral Temporal Cortex Reveals Differential Representation of Categories and Domains. *Journal of Neuroscience*, **2020**, 40, 3008-3024	6.6	8
104	White matter anatomy and cortical microstructure predict reading-related responses in ventral temporal cortex. *Journal of Vision*, **2020**, 20, 201	0.4	
103	Selectivity to limbs in ventral temporal cortex decreases during childhood as selectivity to faces and words increases. *Journal of Vision*, **2020**, 20, 152	0.4	1
102	The structure of depressive symptoms and characteristics and their relation to overall severity in major depressive disorder. *Psychiatry Research*, **2020**, 294, 113399	9.9	1
101	X-Chromosome Insufficiency Alters Receptive Fields across the Human Early Visual Cortex. *Journal of Neuroscience*, **2019**, 39, 8079-8088	6.6	3

100	Apparent thinning of human visual cortex during childhood is associated with myelination. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 20750-20759	11.5	110
99	Extensive childhood experience with Pokémon suggests eccentricity drives organization of visual cortex. *Nature Human Behaviour*, **2019**, 3, 611-624	12.8	29
98	Separate lanes for adding and reading in the white matter highways of the human brain. *Nature Communications*, **2019**, 10, 3675	17.4	15
97	Differential sustained and transient temporal processing across visual streams. *PLoS Computational Biology*, **2019**, 15, e1007011	5	12
96	Neural adaptation to faces reveals racial outgroup homogeneity effects in early perception. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 14532-14537	11.5	25
95	Ultra-high-resolution fMRI reveals differential representation of categories and domains across lateral and medial ventral temporal cortex. *Journal of Vision*, **2019**, 19, 249a	0.4	
94	How learning to read affects the function and structure of ventral temporal cortex. *Journal of Vision*, **2019**, 19, 4c	0.4	
93	Differential white matter connections to ventral and lateral occipito-temporal face-selective regions underlie differences in visual field coverage. *Journal of Vision*, **2019**, 19, 54b	0.4	
92	Population receptive field measurements of stimulus-driven effects in face-selective areas. *Journal of Vision*, **2019**, 19, 258c	0.4	
91	Human visual cortex as a window into the developing brain. *Journal of Vision*, **2019**, 19, 17	0.4	
90	Learning to Read Increases the Informativeness of Distributed Ventral Temporal Responses. *Cerebral Cortex*, **2019**, 29, 3124-3139	5.1	12
89	Development of population receptive fields in the lateral visual stream improves spatial coding amid stable structural-functional coupling. *NeuroImage*, **2019**, 188, 59-69	7.9	11
88	On object selectivity and the anatomy of the human fusiform gyrus. *NeuroImage*, **2018**, 173, 604-609	7.9	22
87	Development differentially sculpts receptive fields across early and high-level human visual cortex. *Nature Communications*, **2018**, 9, 788	17.4	63
86	A preference for mathematical processing outweighs the selectivity for Arabic numbers in the inferior temporal gyrus. *NeuroImage*, **2018**, 175, 188-200	7.9	25
85	Defining the most probable location of the parahippocampal place area using cortex-based alignment and cross-validation. *NeuroImage*, **2018**, 170, 373-384	7.9	43
84	A cross-validated cytoarchitectonic atlas of the human ventral visual stream. *NeuroImage*, **2018**, 170, 257-270	7.9	40
83	The functional neuroanatomy of face perception: from brain measurements to deep neural networks. *Interface Focus*, **2018**, 8, 20180013	3.9	38

82	Eccentricity drives developmental organization of human high-level visual cortex. *Journal of Vision*, **2018**, 18, 1149	0.4	
81	Gray Matter Thinning in Ventral Temporal Cortex from Childhood to Adulthood is Associated with Increased Myelination. *Journal of Vision*, **2018**, 18, 542	0.4	1
80	A preference for mathematical tasks outweighs the selectivity for Arabic numbers in the inferior temporal gyrus. *Journal of Vision*, **2018**, 18, 551	0.4	
79	Differential responses across body- and face-selective cortex predict visual categorization behavior. *Journal of Vision*, **2018**, 18, 1091	0.4	
78	Microstructural proliferation in human cortex is coupled with the development of face processing. *Science*, **2017**, 355, 68-71	33.3	107
77	Data on a cytoarchitectonic brain atlas: effects of brain template and a comparison to a multimodal atlas. *Data in Brief*, **2017**, 12, 327-332	1.2	4
76	Task alters category representations in prefrontal but not high-level visual cortex. *NeuroImage*, **2017**, 155, 437-449	7.9	39
75	The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex. *Cerebral Cortex*, **2017**, 27, 146-161	5.1	57
74	The Functional Neuroanatomy of Human Face Perception. *Annual Review of Vision Science*, **2017**, 3, 167-196	8.2	114
73	The Functional Neuroanatomy of Face Processing: Insights from Neuroimaging and Implications for Deep Learning. *Advances in Computer Vision and Pattern Recognition*, **2017**, 3-31	1.1	2
72	Encoding model of temporal processing in human visual cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11047-E11056	11.5	29
71	Two New Cytoarchitectonic Areas on the Human Mid-Fusiform Gyrus. *Cerebral Cortex*, **2017**, 27, 373-385	5.1	70
70	Experience Shapes the Development of Neural Substrates of Face Processing in Human Ventral Temporal Cortex. *Cerebral Cortex*, **2017**, 27, 1229-1244	5.1	39
69	Training a deep convolutional neural network with multiple face sizes and positions, but not resolutions, is necessary for generating invariant face recognition across these transformations. *Journal of Vision*, **2017**, 17, 247	0.4	
68	Development of neural sensitivity to face identity correlates with perceptual discriminability. *Journal of Vision*, **2017**, 17, 23	0.4	
67	Development differentially sculpts population receptive fields across human visual cortex. *Journal of Vision*, **2017**, 17, 608	0.4	1
66	Corresponding ECoG and fMRI category-selective signals in human ventral temporal cortex. *Neuropsychologia*, **2016**, 83, 14-28	3.2	71
65	Development of Neural Sensitivity to Face Identity Correlates with Perceptual Discriminability. *Journal of Neuroscience*, **2016**, 36, 10893-10907	6.6	42

64	Learning the 3-D structure of objects from 2-D views depends on shape, not format. *Journal of Vision*, **2016**, 16, 7	0.4	2
63	The Face-Processing Network Is Resilient to Focal Resection of Human Visual Cortex. *Journal of Neuroscience*, **2016**, 36, 8425-40	6.6	34
62	Attention reduces spatial uncertainty in human ventral temporal cortex. *Current Biology*, **2015**, 25, 595-600	8.9	119
61	The evolution of face processing networks. *Trends in Cognitive Sciences*, **2015**, 19, 240-1	14	29
60	Temporal Processing Capacity in High-Level Visual Cortex Is Domain Specific. *Journal of Neuroscience*, **2015**, 35, 12412-24	6.6	80
59	Spatiotemporal information during unsupervised learning enhances viewpoint invariant object recognition. *Journal of Vision*, **2015**, 15, 7	0.4	6
58	Feature saliency and feedback information interactively impact visual category learning. *Frontiers in Psychology*, **2015**, 6, 74	3.4	7
57	Functionally defined white matter reveals segregated pathways in human ventral temporal cortex associated with category-specific processing. *Neuron*, **2015**, 85, 216-227	13.9	126
56	The functional architecture of the ventral temporal cortex and its role in categorization. *Nature Reviews Neuroscience*, **2014**, 15, 536-48	13.5	438
55	The mid-fusiform sulcus: a landmark identifying both cytoarchitectonic and functional divisions of human ventral temporal cortex. *NeuroImage*, **2014**, 84, 453-65	7.9	149
54	Where is human V4? Predicting the location of hV4 and VO1 from cortical folding. *Cerebral Cortex*, **2014**, 24, 2401-8	5.1	45
53	Electrical stimulation of the left and right human fusiform gyrus causes different effects in conscious face perception. *Journal of Neuroscience*, **2014**, 34, 12828-36	6.6	124
52	Neural representations of faces and limbs neighbor in human high-level visual cortex: evidence for a new organization principle. *Psychological Research*, **2013**, 77, 74-97	2.5	132
51	Global similarity and pattern separation in the human medial temporal lobe predict subsequent memory. *Journal of Neuroscience*, **2013**, 33, 5466-74	6.6	139
50	The improbable simplicity of the fusiform face area. *Trends in Cognitive Sciences*, **2012**, 16, 251-4	14	112
49	White matter microstructure on diffusion tensor imaging is associated with conventional magnetic resonance imaging findings and cognitive function in adolescents born preterm. *Developmental Medicine and Child Neurology*, **2012**, 54, 809-14	3.3	40
48	Face-likeness and image variability drive responses in human face-selective ventral regions. *Human Brain Mapping*, **2012**, 33, 2334-49	5.9	29
47	Electrical stimulation of human fusiform face-selective regions distorts face perception. *Journal of Neuroscience*, **2012**, 32, 14915-20	6.6	238

46	Synchrony upon repetition: One or multiple neural mechanisms?. *Cognitive Neuroscience*, **2012**, 3, 243-4	1.7	3
45	The Interplay between Feature-Saliency and Feedback Information in Visual Category Learning Tasks **2012**, 2012, 420-425		4
44	Not one extrastriate body area: using anatomical landmarks, hMT+, and visual field maps to parcellate limb-selective activations in human lateral occipitotemporal cortex. *NeuroImage*, **2011**, 56, 2183-99	7.9	116
43	fMRI-adaptation and category selectivity in human ventral temporal cortex: regional differences across time scales. *Journal of Neurophysiology*, **2010**, 103, 3349-65	3.2	110
42	The fusiform face area is enlarged in Williams syndrome. *Journal of Neuroscience*, **2010**, 30, 6700-12	6.6	52
41	Sparsely-distributed organization of face and limb activations in human ventral temporal cortex. *NeuroImage*, **2010**, 52, 1559-73	7.9	219
40	Differential development of the ventral visual cortex extends through adolescence. *Frontiers in Human Neuroscience*, **2010**, 3, 80	3.3	115
39	Deos the bairn not raed ervey lteter by istlef, but the wrod as a wlohe?. *Neuron*, **2009**, 62, 161-2	13.9	2
38	The representation of object viewpoint in human visual cortex. *NeuroImage*, **2009**, 45, 522-36	7.9	59
37	Developmental neuroimaging of the human ventral visual cortex. *Trends in Cognitive Sciences*, **2008**, 12, 152-62	14	106
36	Object Recognition: Insights From Advances in fMRI Methods. *Current Directions in Psychological Science*, **2008**, 17, 73-79	6.5	22
35	Representation of shapes, edges, and surfaces across multiple cues in the human visual cortex. *Journal of Neurophysiology*, **2008**, 99, 1380-93	3.2	78
34	Fine-scale spatial organization of face and object selectivity in the temporal lobe: do functional magnetic resonance imaging, optical imaging, and electrophysiology agree?. *Journal of Neuroscience*, **2008**, 28, 11796-801	6.6	31
33	Relating retinotopic and object-selective responses in human lateral occipital cortex. *Journal of Neurophysiology*, **2008**, 100, 249-67	3.2	128
32	Differential development of high-level visual cortex correlates with category-specific recognition memory. *Nature Neuroscience*, **2007**, 10, 512-22	25.5	382
31	Autism and the development of face processing. *Clinical Neuroscience Research*, **2006**, 6, 145-160		115
30	Object-selective cortex exhibits performance-independent repetition suppression. *Journal of Neurophysiology*, **2006**, 95, 995-1007	3.2	123
29	Selectivity of adaptation in single units: implications for FMRI experiments. *Neuron*, **2006**, 49, 170-1	13.9	47

28	Repetition and the brain: neural models of stimulus-specific effects. *Trends in Cognitive Sciences*, **2006**, 10, 14-23	14	1827
27	High-resolution imaging reveals highly selective nonface clusters in the fusiform face area. *Nature Neuroscience*, **2006**, 9, 1177-85	25.5	247
26	Visual recognition: as soon as you know it is there, you know what it is. *Psychological Science*, **2005**, 16, 152-60	7.9	365
25	fMRI Adaptation: A Tool for Studying Visual Representations in the Primate Brain **2005**, 173-188		12
24	The fusiform face area subserves face perception, not generic within-category identification. *Nature Neuroscience*, **2004**, 7, 555-62	25.5	713
23	The human visual cortex. *Annual Review of Neuroscience*, **2004**, 27, 649-77	17	764
22	Occipital Lobe **2003**, 653-660		2
21	The neural basis of object perception. *Current Opinion in Neurobiology*, **2003**, 13, 159-66	7.6	420
20	fMR-adaptation: a tool for studying the functional properties of human cortical neurons. *Acta Psychologica*, **2001**, 107, 293-321	1.7	827
19	Semantic versus perceptual priming in fusiform cortex. *Trends in Cognitive Sciences*, **2001**, 5, 227-228	14	12
18	The lateral occipital complex and its role in object recognition. *Vision Research*, **2001**, 41, 1409-22	2.1	949
17	The dynamics of object-selective activation correlate with recognition performance in humans. *Nature Neuroscience*, **2000**, 3, 837-43	25.5	479
16	Differential processing of objects under various viewing conditions in the human lateral occipital complex. *Neuron*, **1999**, 24, 187-203	13.9	987
15	A sequence of object-processing stages revealed by fMRI in the human occipital lobe. *Human Brain Mapping*, **1998**, 6, 316-28	5.9	352
14	Cue-invariant activation in object-related areas of the human occipital lobe. *Neuron*, **1998**, 21, 191-202	13.9	344
13	Toward direct visualization of the internal shape representation space by fMRI. *Cognitive, Affective and Behavioral Neuroscience*, **1998**, 26, 309-321		80
12	What Has fMRI Taught Us About Object Recognition?102-128		4
11	Holistic face recognition is an emergent phenomenon of spatial integration in face-selective regions		1

10	Differential spatial computations in ventral and lateral face-selective regions are scaffolded by structural connections	1
9	Reduced spatial integration in the ventral visual cortex underlies face recognition deficits in developmental prosopagnosia	14
8	Sulcal depth in medial ventral temporal cortex predicts the location of a place-selective region in macaques, children, and adults	1
7	Cortical recycling in high-level visual cortex during childhood development	3
6	Learning to read increases the informativeness of distributed ventral temporal responses	2
5	Apparent thinning of visual cortex during childhood is associated with myelination, not pruning	7
4	Separate lanes for math and reading in the white matter highways of the human brain	1
3	An encoding model of temporal processing in human visual cortex	2
2	White matter myelination during early infancy is explained by spatial gradients and myelin content at birth	1
1	InfantsXcortex undergoes microstructural growth coupled with myelination	1