

# Boris A Gutman

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

5,327  
citations

101384

36  
h-index

102304

66  
g-index

96  
all docs

96  
docs citations

96  
times ranked

8368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Subcortical brain structures and the risk of dementia in the Rotterdam Study. <i>Alzheimer's and Dementia</i> , 2023, 19, 646-657.	0.4	5
2	Subcortical shape alterations in major depressive disorder: Findings from the ENIGMA major depressive disorder working group. <i>Human Brain Mapping</i> , 2022, 43, 341-351.	1.9	64
3	Effects of copy number variations on brain structure and risk for psychiatric illness: Large-scale studies from the ENIGMA working groups on CNVs. <i>Human Brain Mapping</i> , 2022, 43, 300-328.	1.9	30
4	A meta-analysis of deep brain structural shape and asymmetry abnormalities in 2,833 individuals with schizophrenia compared with 3,929 healthy volunteers via the ENIGMA Consortium. <i>Human Brain Mapping</i> , 2022, 43, 352-372.	1.9	39
5	FreeSurfer-based segmentation of hippocampal subfields: A review of methods and applications, with a novel quality control procedure for ENIGMA studies and other collaborative efforts. <i>Human Brain Mapping</i> , 2022, 43, 207-233.	1.9	57
6	Predicting future cognitive decline with hyperbolic stochastic coding. <i>Medical Image Analysis</i> , 2021, 70, 102009.	7.0	2
7	International Multicenter Analysis of Brain Structure Across Clinical Stages of Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 2583-2594.	2.2	54
8	Subcortical surface morphometry in substance dependence: An ENIGMA addiction working group study. <i>Addiction Biology</i> , 2020, 25, e12830.	1.4	33
9	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020, 11, 4796.	5.8	61
10	Applying surface-based morphometry to study ventricular abnormalities of cognitively unimpaired subjects prior to clinically significant memory decline. <i>NeuroImage: Clinical</i> , 2020, 27, 102338.	1.4	18
11	Shared imaging biomarkers across Alzheimer's and Parkinson's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e046542.	0.4	1
12	Individual connectome priors improve neuroimaging-based Alzheimer's progression modeling. <i>Alzheimer's and Dementia</i> , 2020, 16, e046717.	0.4	0
13	ENIGMA MDD: seven years of global neuroimaging studies of major depression through worldwide data sharing. <i>Translational Psychiatry</i> , 2020, 10, 172.	2.4	121
14	ENIGMA and global neuroscience: A decade of large-scale studies of the brain in health and disease across more than 40 countries. <i>Translational Psychiatry</i> , 2020, 10, 100.	2.4	365
15	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020, 367, .	6.0	450
16	Mapping Subcortical Brain Alterations in 22q11.2 Deletion Syndrome: Effects of Deletion Size and Convergence With Idiopathic Neuropsychiatric Illness. <i>American Journal of Psychiatry</i> , 2020, 177, 589-600.	4.0	55
17	Optimizing Connectivity-Driven Brain Parcellation Using Ensemble Clustering. <i>Brain Connectivity</i> , 2020, 10, 183-194.	0.8	1
18	High-Dimensional Mapping of Cognition to the Brain Using Voxel-Based Morphometry and Subcortical Shape Analysis. <i>Journal of Alzheimer's Disease</i> , 2019, 71, 141-152.	1.2	8

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19	Striatal morphology and neurocognitive dysfunction in Huntington disease: The IMAGE-HD study. <i>Psychiatry Research - Neuroimaging</i> , 2019, 291, 1-8.	0.9	9
20	Federated Learning in Distributed Medical Databases: Meta-Analysis of Large-Scale Subcortical Brain Data. , 2019, , .		107
21	Multi-Site Meta-Analysis of Morphometry. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 16, 1508-1514.	1.9	7
22	Mapping abnormal subcortical neurodevelopment in a cohort of Thai children with HIV. <i>NeuroImage: Clinical</i> , 2019, 23, 101810.	1.4	11
23	Applying surface-based hippocampal morphometry to study APOE-E4 allele dose effects in cognitively unimpaired subjects. <i>NeuroImage: Clinical</i> , 2019, 22, 101744.	1.4	40
24	Reply to: New Meta- and Mega-analyses of Magnetic Resonance Imaging Findings in Schizophrenia: Do They Really Increase Our Knowledge About the Nature of the Disease Process?. <i>Biological Psychiatry</i> , 2019, 85, e35-e39.	0.7	5
25	Subcortical shape and neuropsychological function among U.S. service members with mild traumatic brain injury. <i>Brain Imaging and Behavior</i> , 2019, 13, 377-388.	1.1	16
26	Constraining Disease Progression Models Using Subject Specific Connectivity Priors. <i>Lecture Notes in Computer Science</i> , 2019, , 106-116.	1.0	1
27	Susceptibility of brain atrophy to <i>TRIB3</i> in Alzheimer's disease, evidence from functional prioritization in imaging genetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3162-3167.	3.3	41
28	Remote Changes in Cortical Excitability after Experimental Traumatic Brain Injury and Functional Reorganization. <i>Journal of Neurotrauma</i> , 2018, 35, 2448-2461.	1.7	20
29	Hemispheric brain asymmetry differences in youths with attention-deficit/hyperactivity disorder. <i>NeuroImage: Clinical</i> , 2018, 18, 744-752.	1.4	35
30	Smaller hippocampal CA1 subfield volume in posttraumatic stress disorder. <i>Depression and Anxiety</i> , 2018, 35, 1018-1029.	2.0	58
31	Cortical Brain Abnormalities in 4474 Individuals With Schizophrenia and 5098 Control Subjects via the Enhancing Neuro Imaging Genetics Through Meta Analysis (ENIGMA) Consortium. <i>Biological Psychiatry</i> , 2018, 84, 644-654.	0.7	627
32	Connectivity-Driven Brain Parcellation via Consensus Clustering. <i>Lecture Notes in Computer Science</i> , 2018, , 117-126.	1.0	0
33	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017, 145, 389-408.	2.1	173
34	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	5.8	250
35	Continuous representations of brain connectivity using spatial point processes. <i>Medical Image Analysis</i> , 2017, 41, 32-39.	7.0	16
36	Data-driven cluster selection for subcortical shape and cortical thickness predicts recovery from depressive symptoms. , 2017, 2017, 502-506.		5

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37	Mapping 22q11.2 Gene Dosage Effects on Brain Morphometry. <i>Journal of Neuroscience</i> , 2017, 37, 6183-6199.	1.7	65
38	Approximating principal genetic components of subcortical shape. , 2017, 2017, 1226-1230.		0
39	Structural connectome validation using pairwise classification. , 2017, , .		0
40	Landmark-Free Three-dimensional Quantification of Morphological Variation and Shape Change in the Mouse Mandible: Methodological Development and Application. , 2017, , .		0
41	Machine learning on high dimensional shape data from subcortical brain surfaces: A comparison of feature selection and classification methods. <i>Pattern Recognition</i> , 2017, 63, 731-739.	5.1	37
42	Machine Learning for Large-Scale Quality Control of 3D Shape Models in Neuroimaging. <i>Lecture Notes in Computer Science</i> , 2017, 10541, 371-378.	1.0	4
43	Secure multivariate large-scale multi-centric analysis through on-line learning: an imaging genetics case study. , 2017, , .		0
44	Influence of APOE Genotype on Hippocampal Atrophy over Time - An N=1925 Surface-Based ADNI Study. <i>PLoS ONE</i> , 2016, 11, e0152901.	1.1	59
45	Heritability of the shape of subcortical brain structures in the general population. <i>Nature Communications</i> , 2016, 7, 13738.	5.8	78
46	Morphometric analysis of hippocampus and lateral ventricle reveals regional difference between cognitively stable and declining persons. , 2016, 2016, 14-18.		5
47	Effect of Electroconvulsive Therapy on Striatal Morphometry in Major Depressive Disorder. <i>Neuropsychopharmacology</i> , 2016, 41, 2481-2491.	2.8	74
48	Bi-directional changes in fractional anisotropy after experiment TBI: Disorganization and reorganization?. <i>NeuroImage</i> , 2016, 133, 129-143.	2.1	62
49	Volumetric and shape analyses of subcortical structures in United States service members with mild traumatic brain injury. <i>Journal of Neurology</i> , 2016, 263, 2065-2079.	1.8	40
50	Applying sparse coding to surface multivariate tensor-based morphometry to predict future cognitive decline. , 2016, 2016, 646-650.		25
51	Partial least squares modelling for imaging-genetics in Alzheimer's disease: Plausibility and generalization. , 2016, , .		9
52	Hyperbolic Space Sparse Coding with Its Application on Prediction of Alzheimer's Disease in Mild Cognitive Impairment. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 326-334.	1.0	17
53	MRI-based brain atrophy rates in ADNI phase 2: acceleration and enrichment considerations for clinical trials. <i>Neurobiology of Aging</i> , 2016, 37, 26-37.	1.5	39
54	A Continuous Model of Cortical Connectivity. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 157-165.	1.0	7

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55	Utilizing a Novel 3D Surface Mapping Technology to Evaluate Craniofacial Morphology. , 2015, , .		0
56	Mapping abnormal subcortical brain morphometry in an elderly HIV + cohort. <i>NeuroImage: Clinical</i> , 2015, 9, 564-573.	1.4	37
57	Subregional Hippocampal Morphology and Psychiatric Outcome in Adolescents Who Were Born Very Preterm and at Term. <i>PLoS ONE</i> , 2015, 10, e0130094.	1.1	14
58	Information-theoretic characterization of blood panel predictors for brain atrophy and cognitive decline in the elderly. , 2015, 2015, 980-984.		6
59	A transformation similarity constraint for groupwise nonlinear registration in longitudinal neuroimaging studies. <i>Proceedings of SPIE</i> , 2015, 9413, .	0.8	1
60	Medial demons registration localizes the degree of genetic influence over subcortical shape variability: An N&#x003D; 1480 meta-analysis. , 2015, 2015, 1402-1406.		29
61	Carriers of a common variant in the dopamine transporter gene have greater dementia risk, cognitive decline, and faster ventricular expansion. <i>Alzheimer's and Dementia</i> , 2015, 11, 1153-1162.	0.4	15
62	Mapping ventricular expansion onto cortical gray matter in older adults. <i>Neurobiology of Aging</i> , 2015, 36, S32-S41.	1.5	32
63	Empowering imaging biomarkers of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015, 36, S69-S80.	1.5	22
64	Magnetic resonance imaging in Alzheimer's Disease Neuroimaging Initiative 2. <i>Alzheimer's and Dementia</i> , 2015, 11, 740-756.	0.4	142
65	Studying ventricular abnormalities in mild cognitive impairment with hyperbolic Ricci flow and tensor-based morphometry. <i>NeuroImage</i> , 2015, 104, 1-20.	2.1	42
66	A Riemannian Framework for Intrinsic Comparison of Closed Genus-Zero Shapes. <i>Lecture Notes in Computer Science</i> , 2015, 24, 205-218.	1.0	10
67	Combined Effects of Alzheimer Risk Variants in the <i>CLU</i> and <i>ApoE</i> Genes on Ventricular Expansion Patterns in the Elderly. <i>Journal of Neuroscience</i> , 2014, 34, 6537-6545.	1.7	56
68	Physical activity, inflammation, and volume of the aging brain. <i>Neuroscience</i> , 2014, 273, 199-209.	1.1	53
69	Automatic clustering of white matter fibers in brain diffusion MRI with an application to genetics. <i>NeuroImage</i> , 2014, 100, 75-90.	2.1	117
70	The apolipoprotein E epsilon 4 allele is associated with ventricular expansion rate and surface morphology in dementia and normal aging. <i>Neurobiology of Aging</i> , 2014, 35, 1309-1317.	1.5	26
71	Genetic influence of apolipoprotein E4 genotype on hippocampal morphometry: An $N = 725$ surface-based Alzheimer's disease neuroimaging initiative study. <i>Human Brain Mapping</i> , 2014, 35, 3903-3918.	1.9	62
72	Registering Cortical Surfaces Based on Whole-Brain Structural Connectivity and Continuous Connectivity Analysis. <i>Lecture Notes in Computer Science</i> , 2014, 17, 161-168.	1.0	9

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73	Global and regional alterations of hippocampal anatomy in long-term meditation practitioners. <i>Human Brain Mapping</i> , 2013, 34, 3369-3375.	1.9	97
74	Maximizing power to track Alzheimer's disease and MCI progression by LDA-based weighting of longitudinal ventricular surface features. <i>NeuroImage</i> , 2013, 70, 386-401.	2.1	59
75	Surface fluid registration of conformal representation: Application to detect disease burden and genetic influence on hippocampus. <i>NeuroImage</i> , 2013, 78, 111-134.	2.1	83
76	Unbiased tensor-based morphometry: Improved robustness and sample size estimates for Alzheimer's disease clinical trials. <i>NeuroImage</i> , 2013, 66, 648-661.	2.1	103
77	A single nucleotide polymorphism associated with reduced alcohol intake in the RASGRF2 gene predicts larger cortical volumes but faster longitudinal ventricular expansion in the elderly. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 93.	1.7	6
78	A Family of Fast Spherical Registration Algorithms for Cortical Shapes. <i>Lecture Notes in Computer Science</i> , 2013, , 246-257.	1.0	22
79	Mapping Dynamic Changes in Ventricular Volume onto Baseline Cortical Surfaces in Normal Aging, MCI, and Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , 2013, 8159, 84-94.	1.0	13
80	Shape matching with medial curves and 1-D group-wise registration. , 2012, , .		33
81	Structural and functional neuroimaging phenotypes in dysbindin mutant mice. <i>NeuroImage</i> , 2012, 62, 120-129.	2.1	19
82	Disease and genetic contributions toward local tissue volume disturbances in schizophrenia: A tensor-based morphometry study. <i>Human Brain Mapping</i> , 2012, 33, 2081-2091.	1.9	13
83	CUDA optimization strategies for compute- and memory-bound neuroimaging algorithms. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 106, 175-187.	2.6	40
84	Accurate measurement of brain changes in longitudinal MRI scans using tensor-based morphometry. <i>NeuroImage</i> , 2011, 57, 5-14.	2.1	77
85	Surface-based TBM boosts power to detect disease effects on the brain: An N=804 ADNI study. <i>NeuroImage</i> , 2011, 56, 1993-2010.	2.1	109
86	The link between callosal thickness and intelligence in healthy children and adolescents. <i>NeuroImage</i> , 2011, 54, 1823-1830.	2.1	67
87	Comparing 3 T and 1.5 T MRI for tracking Alzheimer's disease progression with tensor-based morphometry. <i>Human Brain Mapping</i> , 2010, 31, 499-514.	1.9	66
88	Neuroimaging Study Designs, Computational Analyses and Data Provenance Using the LONI Pipeline. <i>PLoS ONE</i> , 2010, 5, e13070.	1.1	120
89	When more is less: Associations between corpus callosum size and handedness lateralization. <i>NeuroImage</i> , 2010, 52, 43-49.	2.1	127
90	Multivariate tensor-based morphometry on surfaces: Application to mapping ventricular abnormalities in HIV/AIDS. <i>NeuroImage</i> , 2010, 49, 2141-2157.	2.1	90

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91	Disease classification with hippocampal shape invariants. <i>Hippocampus</i> , 2009, 19, 572-578.	0.9	59
92	Optimizing power to track brain degeneration in Alzheimer's disease and mild cognitive impairment with tensor-based morphometry: An ADNI study of 515 subjects. <i>NeuroImage</i> , 2009, 48, 668-681.	2.1	129