Russell T Shinohara

List of Publications by Citations

148 papers	5,938 citations	38 h-index	74 g-index
174 ext. papers	9,318 ext. citations	6.7 avg, IF	5.74 L-index

#	Paper	IF	Citations
148	Benchmarking of participant-level confound regression strategies for the control of motion artifact in studies of functional connectivity. *NeuroImage*, **2017**, 154, 174-187	7.9	501
147	Harmonization of multi-site diffusion tensor imaging data. *NeuroImage*, **2017**, 161, 149-170	7.9	307
146	Harmonization of cortical thickness measurements across scanners and sites. *NeuroImage*, **2018**, 167, 104-120	7.9	286
145	Statistical normalization techniques for magnetic resonance imaging. *NeuroImage: Clinical*, **2014**, 6, 9-19	5.3	186
144	Modular Segregation of Structural Brain Networks Supports the Development of Executive Function in Youth. *Current Biology*, **2017**, 27, 1561-1572.e8	6.3	178
143	Large-scale Radiomic Profiling of Recurrent Glioblastoma Identifies an Imaging Predictor for Stratifying Anti-Angiogenic Treatment Response. *Clinical Cancer Research*, **2016**, 22, 5765-5771	12.9	173
142	The central vein sign and its clinical evaluation for the diagnosis of multiple sclerosis: a consensus statement from the North American Imaging in Multiple Sclerosis Cooperative. *Nature Reviews Neurology*, **2016**, 12, 714-722	15	172
141	Linked dimensions of psychopathology and connectivity in functional brain networks. *Nature Communications*, **2018**, 9, 3003	17.4	169
140	On testing for spatial correspondence between maps of human brain structure and function. *NeuroImage*, **2018**, 178, 540-551	7.9	162
139	Neurological injury in adults treated with extracorporeal membrane oxygenation. *Archives of Neurology*, **2011**, 68, 1543-9		152
138	Quantitative assessment of structural image quality. *NeuroImage*, **2018**, 169, 407-418	7.9	129
137	The extent and drivers of gender imbalance in neuroscience reference lists. *Nature Neuroscience*, **2020**, 23, 918-926	25.5	125
136	Common and Dissociable Mechanisms of Executive System Dysfunction Across Psychiatric Disorders in Youth. *American Journal of Psychiatry*, **2016**, 173, 517-26	11.9	125
135	Impact of puberty on the evolution of cerebral perfusion during adolescence. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 8643-8	11.5	122
134	Normative brain size variation and brain shape diversity in humans. *Science*, **2018**, 360, 1222-1227	33.3	117
133	Statistical harmonization corrects site effects in functional connectivity measurements from multi-site fMRI data. *Human Brain Mapping*, **2018**, 39, 4213-4227	5.9	117
132	Glutamate imaging (GluCEST) lateralizes epileptic foci in nonlesional temporal lobe epilepsy. *Science Translational Medicine*, **2015**, 7, 309ra161	17.5	112

131	Radiomic subtyping improves disease stratification beyond key molecular, clinical, and standard imaging characteristics in patients with glioblastoma. *Neuro-Oncology*, **2018**, 20, 848-857	1	111
130	The impact of peppermint oil on the irritable bowel syndrome: a meta-analysis of the pooled clinical data. *BMC Complementary and Alternative Medicine*, **2019**, 19, 21	4.7	100
129	Development of structure-function coupling in human brain networks during youth. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 771-778	11.5	97
128	Common Dimensional Reward Deficits Across Mood and Psychotic Disorders: A Connectome-Wide Association Study. *American Journal of Psychiatry*, **2017**, 174, 657-666	11.9	92
127	Topologically dissociable patterns of development of the human cerebral cortex. *Journal of Neuroscience*, **2015**, 35, 599-609	6.6	80
126	Structural Brain Abnormalities in Youth With Psychosis Spectrum Symptoms. *JAMA Psychiatry*, **2016**, 73, 515-24	14.5	79
125	Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan. *NeuroImage*, **2020**, 208, 116450	7.9	79
124	Burden of Environmental Adversity Associated With Psychopathology, Maturation, and Brain Behavior Parameters in Youths. *JAMA Psychiatry*, **2019**, 76, 966-975	14.5	72
123	Elevated Amygdala Perfusion Mediates Developmental Sex Differences in Trait Anxiety. *Biological Psychiatry*, **2016**, 80, 775-785	7.9	67
122	Childhood trauma history is linked to abnormal brain connectivity in major depression. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8582-8590	11.5	66
121	OASIS is Automated Statistical Inference for Segmentation, with applications to multiple sclerosis lesion segmentation in MRI. *NeuroImage: Clinical*, **2013**, 2, 402-13	5.3	64
120	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. *Journal of Medical Imaging*, **2018**, 5, 011018	2.6	64
119	Volumetric Analysis from a Harmonized Multisite Brain MRI Study of a Single Subject with Multiple Sclerosis. *American Journal of Neuroradiology*, **2017**, 38, 1501-1509	4.4	62
118	Tracheobronchomalacia Is Associated with Increased Morbidity in Bronchopulmonary Dysplasia. *Annals of the American Thoracic Society*, **2017**, 14,	4.7	62
117	Individual Variation in Functional Topography of Association Networks in Youth. *Neuron*, **2020**, 106, 340-353.e8	11.9	61
116	Removing inter-subject technical variability in magnetic resonance imaging studies. *NeuroImage*, **2016**, 132, 198-212	7.9	61
115	Cognitive behavioral therapy increases amygdala connectivity with the cognitive control network in both MDD and PTSD. *NeuroImage: Clinical*, **2017**, 14, 464-470	5.3	54
114	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. *Brain*, **2020**, 143, 1027-1038	11.2	53

95	Diminished Cortical Thickness Is Associated with Impulsive Choice in Adolescence. *Journal of Neuroscience*, **2018**, 38, 2471-2481	6.6	26
94	A comparison of supervised machine learning algorithms and feature vectors for MS lesion segmentation using multimodal structural MRI. *PLoS ONE*, **2014**, 9, e95753	3.7	25
93	Imaging outcome measures of neuroprotection and repair in MS: A consensus statement from NAIMS. *Neurology*, **2019**, 92, 519-533	6.5	25
92	A surface-in gradient of thalamic damage evolves in pediatric multiple sclerosis. *Annals of Neurology*, **2019**, 85, 340-351	9.4	24
91	MIMoSA: An Automated Method for Intermodal Segmentation Analysis of Multiple Sclerosis Brain Lesions. *Journal of Neuroimaging*, **2018**, 28, 389-398	2.8	24
90	Effect of center catheterization volume on risk of catastrophic adverse event after cardiac catheterization in children. *American Heart Journal*, **2015**, 169, 823-832.e5	4.9	24
89	Cost comparison of transcatheter and operative closures of ostium secundum atrial septal defects. *American Heart Journal*, **2015**, 169, 727-735.e2	4.9	23
88	Structural Correlation-based Outlier Rejection (SCORE) algorithm for arterial spin labeling time series. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 1786-1797	5.6	23
87	Structural and functional asymmetry of medial temporal subregions in unilateral temporal lobe epilepsy: A 7T MRI study. *Human Brain Mapping*, **2019**, 40, 2390-2398	5.9	22
86	Addressing Confounding in Predictive Models with an Application to Neuroimaging. *International Journal of Biostatistics*, **2016**, 12, 31-44	1.3	22
85	Comparative effectiveness of less commonly used systemic monotherapies and common combination therapies for moderate to severe psoriasis in the clinical setting. *Journal of the American Academy of Dermatology*, **2014**, 71, 1167-75	4.5	22
84	Longitudinal Development of Brain Iron Is Linked to Cognition in Youth. *Journal of Neuroscience*, **2020**, 40, 1810-1818	6.6	20
83	Network changes associated with transdiagnostic depressive symptom improvement following cognitive behavioral therapy in MDD and PTSD. *Molecular Psychiatry*, **2018**, 23, 2314-2323	15.1	20
82	Spatial distribution of interictal spikes fluctuates over time and localizes seizure onset. *Brain*, **2020**, 143, 554-569	11.2	20
81	Characterizing the role of the structural connectome in seizure dynamics. *Brain*, **2019**, 142, 1955-1972	11.2	19
80	Gradient nonlinearity effects on upper cervical spinal cord area measurement from 3D T -weighted brain MRI acquisitions. *Magnetic Resonance in Medicine*, **2018**, 79, 1595-1601	4.4	19
79	Optimization of energy state transition trajectory supports the development of executive function during youth. *ELife*, **2020**, 9,	8.9	19
78	Influence of vitamin D on liver fibrosis in chronic hepatitis C: A systematic review and meta-analysis of the pooled clinical trials data. *World Journal of Hepatology*, **2017**, 9, 278-287	3.4	18

77	Automated Integration of Multimodal MRI for the Probabilistic Detection of the Central Vein Sign in White Matter Lesions. *American Journal of Neuroradiology*, **2018**, 39, 1806-1813	4.4	18
76	Neuroimaging Findings in US Government Personnel With Possible Exposure to Directional Phenomena in Havana, Cuba. *JAMA - Journal of the American Medical Association*, **2019**, 322, 336-347	27.4	16
75	Sex-biased trajectories of amygdalo-hippocampal morphology change over human development. *NeuroImage*, **2020**, 204, 116122	7.9	16
74	An Automated Statistical Technique for Counting Distinct Multiple Sclerosis Lesions. *American Journal of Neuroradiology*, **2018**, 39, 626-633	4.4	15
73	Relating multi-sequence longitudinal intensity profiles and clinical covariates in incident multiple sclerosis lesions. *NeuroImage: Clinical*, **2016**, 10, 1-17	5.3	15
72	Multisite reliability and repeatability of an advanced brain MRI protocol. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 878-888	5.6	14
71	Imaging Mechanisms of Disease Progression in Multiple Sclerosis: Beyond Brain Atrophy. *Journal of Neuroimaging*, **2020**, 30, 251-266	2.8	14
70	White matter microstructural deficits in 22q11.2 deletion syndrome. *Psychiatry Research - Neuroimaging*, **2017**, 268, 35-44	2.9	14
69	Health effects of lesion localization in multiple sclerosis: spatial registration and confounding adjustment. *PLoS ONE*, **2014**, 9, e107263	3.7	14
68	Control-group feature normalization for multivariate pattern analysis of structural MRI data using the support vector machine. *NeuroImage*, **2016**, 132, 157-166	7.9	14
67	Imaging local genetic influences on cortical folding. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 7430-7436	11.5	13
66	A Multicenter Cohort Study of Inferior Vena Cava Filter Use in Children. *Pediatric Blood and Cancer*, **2015**, 62, 2089-93	3	13
65	Vitamin D levels do not predict the stage of hepatic fibrosis in patients with non-alcoholic fatty liver disease: A PRISMA compliant systematic review and meta-analysis of pooled data. *World Journal of Hepatology*, **2018**, 10, 142-154	3.4	13
64	Statistical estimation of T1 relaxation times using conventional magnetic resonance imaging. *NeuroImage*, **2016**, 133, 176-188	7.9	13
63	Accelerated cortical thinning within structural brain networks is associated with irritability in youth. *Neuropsychopharmacology*, **2019**, 44, 2254-2262	8.7	12
62	Neurostructural Heterogeneity in Youths With Internalizing Symptoms. *Biological Psychiatry*, **2020**, 87, 473-482	7.9	12
61	Subject-level measurement of local cortical coupling. *NeuroImage*, **2016**, 133, 88-97	7.9	12
60	Stroke in HIV-infected African Americans: a retrospective cohort study. *Journal of NeuroVirology*, **2016**, 22, 50-5	3.9	11

59	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. *Journal of Medical Imaging*, **2020**, 7, 031505	2.6	11
58	Pitfalls in brain age analyses. *Human Brain Mapping*, **2021**, 42, 4092-4101	5.9	11
57	Statistical estimation of white matter microstructure from conventional MRI. *NeuroImage: Clinical*, **2016**, 12, 615-623	5.3	11
56	Sex Differences in Variability of Brain Structure Across the Lifespan. *Cerebral Cortex*, **2020**, 30, 5420-5430	4.1	10
55	Multi-scale network regression for brain-phenotype associations. *Human Brain Mapping*, **2020**, 41, 2553-2566	5.9	10
54	Approaches to Defining Common and Dissociable Neurobiological Deficits Associated With Psychopathology in Youth. *Biological Psychiatry*, **2020**, 88, 51-62	7.9	10
53	Reproducibility analysis of multi-institutional paired expert annotations and radiomic features of the Ivy Glioblastoma Atlas Project (Ivy GAP) dataset. *Medical Physics*, **2020**, 47, 6039-6052	4.4	10
52	Structural and Functional Brain Parameters Related to Cognitive Performance Across Development: Replication and Extension of the Parieto-Frontal Integration Theory in a Single Sample. *Cerebral Cortex*, **2021**, 31, 1444-1463	5.1	9
51	The emergent integrated network structure of scientific research. *PLoS ONE*, **2019**, 14, e0216146	3.7	8
50	Accuracy of Transthoracic Echocardiography in Assessing Retro-aortic Rim prior to Device Closure of Atrial Septal Defects. *Congenital Heart Disease*, **2015**, 10, E146-54	3.1	8
49	Recovery kinetics of creatine in mild plantar flexion exercise using 3D creatine CEST imaging at 7 Tesla. *Magnetic Resonance in Medicine*, **2021**, 85, 802-817	4.4	8
48	The NAIMS cooperative pilot project: Design, implementation and future directions. *Multiple Sclerosis Journal*, **2018**, 24, 1770-1772	5	8
47	The landscape of NeuroImage-ing research. *NeuroImage*, **2018**, 183, 872-883	7.9	8
46	Removal of Scanner Effects in Covariance Improves Multivariate Pattern Analysis in Neuroimaging Data		7
45	Single-Voxel H MR spectroscopy of cerebral nicotinamide adenine dinucleotide (NAD) in humans at 7T using a 32-channel volume coil. *Magnetic Resonance in Medicine*, **2020**, 83, 806-814	4.4	7
44	Robust spatial extent inference with a semiparametric bootstrap joint inference procedure. *Biometrics*, **2019**, 75, 1145-1155	1.8	5
43	PREVAIL: Predicting Recovery through Estimation and Visualization of Active and Incident Lesions. *NeuroImage: Clinical*, **2016**, 12, 293-9	5.3	5
42	Alterations in white matter microstructure in individuals at persistent risk for psychosis. *Molecular Psychiatry*, **2020**, 25, 2441-2454	15.1	5

41	Resting fMRI-guided TMS results in subcortical and brain network modulation indexed by interleaved TMS/fMRI. *Experimental Brain Research*, **2021**, 239, 1165-1178	2.3	5
40	TAPAS: A Thresholding Approach for Probability Map Automatic Segmentation in Multiple Sclerosis. *NeuroImage: Clinical*, **2020**, 27, 102256	5.3	4
39	Scan-stratified case-control sampling for modeling blood-brain barrier integrity in multiple sclerosis. *Statistics in Medicine*, **2015**, 34, 2872-80	2.3	4
38	Multiple sclerosis diagnosis: Knowledge gaps and opportunities for educational intervention in neurologists in the United States. *Multiple Sclerosis Journal*, **2021**, 13524585211048401	5	4
37	Multi-institutional noninvasive in vivo characterization of , 1p/19q, and EGFRvIII in glioma using neuro-Cancer Imaging Phenomics Toolkit (neuro-CaPTk). *Neuro-Oncology Advances*, **2020**, 2, iv22-iv34	0.9	4
36	Structural brain measures linked to clinical phenotypes in major depression replicate across clinical centres. *Molecular Psychiatry*, **2021**, 26, 2764-2775	15.1	4
35	A pilot trial to examine the effect of high-dose niacin on arterial wall inflammation using fluorodeoxyglucose positron emission tomography. *Academic Radiology*, **2015**, 22, 600-9	4.3	3
34	Dimensional connectomics of anxious misery, a human connectome study related to human disease: Overview of protocol and data quality. *NeuroImage: Clinical*, **2020**, 28, 102489	5.3	3
33	Estimating parsimonious models of longitudinal causal effects using regressions on propensity scores. *Statistics in Medicine*, **2013**, 32, 3829-37	2.3	3
32	Dice Overlap Measures for Objects of Unknown Number: Application to Lesion Segmentation. *Lecture Notes in Computer Science*, **2018**, 10670, 3-14	0.9	3
31	MIMoSA: A Method for Inter-Modal Segmentation Analysis		3
30	Statistical Pitfalls in Brain Age Analyses		3
29	Diminished reward responsiveness is associated with lower reward network GluCEST: an ultra-high field glutamate imaging study. *Molecular Psychiatry*, **2021**, 26, 2137-2147	15.1	3
28	A simple permutation-based test of intermodal correspondence. *Human Brain Mapping*, **2021**, 42, 5175-5187	5.9	3
27	Mitigating site effects in covariance for machine learning in neuroimaging data.. *Human Brain Mapping*, **2021**,	5.9	3
26	Experimental design and sample size considerations in longitudinal magnetic resonance imaging-based biomarker detection for multiple sclerosis. *Statistical Methods in Medical Research*, **2020**, 29, 2617-2628	2.3	2
25	Alternating event processes during lifetimes: population dynamics and statistical inference. *Lifetime Data Analysis*, **2018**, 24, 110-125	1.3	2
24	A broad symmetry criterion for nonparametric validity of parametrically based tests in randomized trials. *Biometrics*, **2012**, 68, 85-91	1.8	2

23	Joint Intensity Fusion Image Synthesis Applied to Multiple Sclerosis Lesion Segmentation **2018**, 10670, 43-54		2
22	Individualized non-invasive brain stimulation engages the subgenual anterior cingulate and amygdala		2
21	Longitudinal ComBat: A Method for Harmonizing Longitudinal Multi-scanner Imaging Data		2
20	Soft Null Hypotheses: A Case Study of Image Enhancement Detection in Brain Lesions. *Journal of Computational and Graphical Statistics*, **2016**, 25, 570-588	1.4	2
19	A dual modeling approach to automatic segmentation of cerebral T2 hyperintensities and T1 black holes in multiple sclerosis. *NeuroImage: Clinical*, **2018**, 20, 1211-1221	5.3	2
18	Fully automated detection of paramagnetic rims in multiple sclerosis lesions on 3T susceptibility-based MR imaging. *NeuroImage: Clinical*, **2021**, 32, 102796	5.3	2
17	Nonnegative decomposition of functional count data. *Biometrics*, **2020**, 76, 1273-1284	1.8	1
16	Interpretable High-Dimensional Inference Via Score Projection with an Application in Neuroimaging. *Journal of the American Statistical Association*, **2018**, 114, 820-830	2.8	1
15	Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. *Medical Image Analysis*, **2021**, 75, 102304	15.4	1
14	Multidimensional Brain-Age Prediction Reveals Altered Brain Developmental Trajectory in Psychiatric Disorders.. *Cerebral Cortex*, **2022**,	5.1	1
13	Privacy-preserving harmonization via distributed ComBat.. *NeuroImage*, **2021**, 248, 118822	7.9	1
12	Structural and functional brain parameters related to cognitive performance across development: Replication and extension of the parieto-frontal integration theory in a single sample		1
11	Multiple Sclerosis Lesion Segmentation Using Joint Label Fusion. *Lecture Notes in Computer Science*, **2017**, 10530, 138-145	0.9	1
10	Harmonization of large multi-site imaging datasets: Application to 10,232 MRIs for the analysis of imaging patterns of structural brain change throughout the lifespan		1
9	Statistical approaches to temporal and spatial autocorrelation in resting-state functional connectivity in mice measured with optical intrinsic signal imaging.. *Neurophotonics*, **2022**, 9, 041405	3.9	1
8	A Framework for Brain Atlases: Lessons from Seizure Dynamics.. *NeuroImage*, **2022**, 118986	7.9	1
7	Leveraging machine learning predictive biomarkers to augment the statistical power of clinical trials with baseline magnetic resonance imaging. *Brain Communications*, **2021**, 3, fcab264	4.5	0
6	Distance-based analysis of variance for brain connectivity. *Biometrics*, **2020**, 76, 257-269	1.8	0

5	Developmental coupling of cerebral blood flow and fMRI fluctuations in youth.. *Cell Reports*, **2022**, 38, 110576	10.6	0
4	Generalized ComBat harmonization methods for radiomic features with multi-modal distributions and multiple batch effects.. *Scientific Reports*, **2022**, 12, 4493	4.9	0
3	Harmonizing Functional Connectivity Reduces Scanner Effects in Community Detection.. *NeuroImage*, **2022**, 119198	7.9	0
2	Bayesian Spatial Binary Regression for Label Fusion in Structural Neuroimaging. *Journal of the American Statistical Association*,1-14	2.8	
1	A local group differences test for subject-level multivariate density neuroimaging outcomes. *Biostatistics*, **2021**, 22, 646-661	3.7	