

# Nagesh Adluru

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

3,026  
citations

218662

26  
h-index

189881

50  
g-index

101  
all docs

101  
docs citations

101  
times ranked

5422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Cerebral White Matter Properties Using Quantitative Magnetic Resonance Imaging Stains. <i>Brain Connectivity</i> , 2011, 1, 423-446.	1.7	387
2	Diffusion Tensor Imaging in Autism Spectrum Disorder: A Review. <i>Autism Research</i> , 2012, 5, 289-313.	3.8	356
3	Early Neglect Is Associated With Alterations in White Matter Integrity and Cognitive Functioning. <i>Child Development</i> , 2013, 84, 1566-1578.	3.0	210
4	Atypical diffusion tensor hemispheric asymmetry in autism. <i>Autism Research</i> , 2010, 3, 350-358.	3.8	132
5	Associations between white matter microstructure and amyloid burden in preclinical Alzheimer's disease: A multimodal imaging investigation. <i>NeuroImage: Clinical</i> , 2014, 4, 604-614.	2.7	119
6	Mapping an index of the myelin g-ratio in infants using magnetic resonance imaging. <i>NeuroImage</i> , 2016, 132, 225-237.	4.2	110
7	Cerebrospinal Fluid Markers of Alzheimer's Disease Pathology and Microglial Activation are Associated with Altered White Matter Microstructure in Asymptomatic Adults at Risk for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 50, 873-886.	2.6	101
8	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	4.2	94
9	Association of Prenatal Maternal Depression and Anxiety Symptoms With Infant White Matter Microstructure. <i>JAMA Pediatrics</i> , 2018, 172, 973.	6.2	93
10	Atypical development of white matter microstructure of the corpus callosum in males with autism: a longitudinal investigation. <i>Molecular Autism</i> , 2015, 6, 15.	4.9	72
11	Optimizing the intrinsic parallel diffusivity in NODDI: An extensive empirical evaluation. <i>PLoS ONE</i> , 2019, 14, e0217118.	2.5	70
12	A diffusion tensor brain template for Rhesus Macaques. <i>NeuroImage</i> , 2012, 59, 306-318.	4.2	66
13	White matter microstructure in late middle-age: Effects of apolipoprotein E4 and parental family history of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2014, 4, 730-742.	2.7	64
14	Gut microbiome populations are associated with structure-specific changes in white matter architecture. <i>Translational Psychiatry</i> , 2018, 8, 6.	4.8	63
15	Age-dependent differences in brain tissue microstructure assessed with neurite orientation dispersion and density imaging. <i>Neurobiology of Aging</i> , 2016, 43, 79-88.	3.1	61
16	Mindfulness-Based Stress Reduction-related changes in posterior cingulate resting brain connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2019, 14, 777-787.	3.0	61
17	Cortical Microstructural Alterations in Mild Cognitive Impairment and Alzheimer's Disease Dementia. <i>Cerebral Cortex</i> , 2020, 30, 2948-2960.	2.9	61
18	Multi-resolution statistical analysis of brain connectivity graphs in preclinical Alzheimer's disease. <i>NeuroImage</i> , 2015, 118, 103-117.	4.2	53

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19	Longitudinal processing speed impairments in males with autism and the effects of white matter microstructure. <i>Neuropsychologia</i> , 2014, 53, 137-145.	1.6	47
20	Evaluation of striatonigral connectivity using probabilistic tractography in Parkinson's disease. <i>NeuroImage: Clinical</i> , 2017, 16, 557-563.	2.7	47
21	Assessment of white matter microstructure in stroke patients using NODDI. , 2014, 2014, 742-5.		46
22	Brainstem White Matter Predicts Individual Differences in Manual Motor Difficulties and Symptom Severity in Autism. <i>Journal of Autism and Developmental Disorders</i> , 2015, 45, 3030-3040.	2.7	42
23	Multivariate General Linear Models (MGLM) on Riemannian Manifolds with Applications to Statistical Analysis of Diffusion Weighted Images. , 2014, 2014, 2705-2712.		38
24	Longitudinal white matter microstructural change in Parkinson's disease. <i>Human Brain Mapping</i> , 2018, 39, 4150-4161.	3.6	37
25	Integrative Structural Brain Network Analysis in Diffusion Tensor Imaging. <i>Brain Connectivity</i> , 2017, 7, 331-346.	1.7	34
26	A Diffusion-Tensor-Based White Matter Atlas for Rhesus Macaques. <i>PLoS ONE</i> , 2014, 9, e107398.	2.5	32
27	Association of longitudinal white matter degeneration and cerebrospinal fluid biomarkers of neurodegeneration, inflammation and Alzheimer's disease in late-middle-aged adults. <i>Brain Imaging and Behavior</i> , 2019, 13, 41-52.	2.1	32
28	Particle filter with state permutations for solving image jigsaw puzzles. , 2011, 2011, 2873-2880.		30
29	Longitudinal development of thalamic and internal capsule microstructure in autism spectrum disorder. <i>Autism Research</i> , 2018, 11, 450-462.	3.8	28
30	Predicting Motor Outcomes in Stroke Patients Using Diffusion Spectrum MRI Microstructural Measures. <i>Frontiers in Neurology</i> , 2019, 10, 72.	2.4	28
31	Cerebrospinal fluid biomarkers of neurofibrillary tangles and synaptic dysfunction are associated with longitudinal decline in white matter connectivity: A multi-resolution graph analysis. <i>NeuroImage: Clinical</i> , 2019, 21, 101586.	2.7	24
32	A 16-year study of longitudinal volumetric brain development in males with autism. <i>NeuroImage</i> , 2021, 236, 118067.	4.2	24
33	Investigating the Microstructural Correlation of White Matter in Autism Spectrum Disorder. <i>Brain Connectivity</i> , 2016, 6, 415-433.	1.7	22
34	Heritability of nested hierarchical structural brain network. , 2018, 2018, 554-557.		21
35	Fornix Microstructure and Memory Performance Is Associated with Altered Neural Connectivity during Episodic Recognition. <i>Journal of the International Neuropsychological Society</i> , 2016, 22, 191-204.	1.8	19
36	Shape guided contour grouping with particle filters. , 2009, 2009, 2288-2295.		18

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37	Anxiety-related experience-dependent white matter structural differences in adolescence: A monozygotic twin difference approach. <i>Scientific Reports</i> , 2017, 7, 8749.	3.3	18
38	Interaction of amyloid and tau on cortical microstructure in cognitively unimpaired adults. <i>Alzheimer's and Dementia</i> , 2022, 18, 65-76.	0.8	18
39	Riemannian Nonlinear Mixed Effects Models: Analyzing Longitudinal Deformations in Neuroimaging. , 2017, 2017, 5777-5786.		17
40	A Novel Registration-Based Semiautomatic Mandible Segmentation Pipeline Using Computed Tomography Images to Study Mandibular Development. <i>Journal of Computer Assisted Tomography</i> , 2018, 42, 306-316.	0.9	17
41	Canonical Correlation Analysis on Riemannian Manifolds and Its Applications. <i>Lecture Notes in Computer Science</i> , 2014, 8690, 251-267.	1.3	17
42	Classification in DTI using shapes of white matter tracts. , 2009, 2009, 2719-22.		15
43	Efficient Relative Attribute Learning Using Graph Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018, 11218, 575-590.	1.3	14
44	Associations Between Positron Emission Tomography Amyloid Pathology and Diffusion Tensor Imaging Brain Connectivity in Pre-Clinical Alzheimer's Disease. <i>Brain Connectivity</i> , 2019, 9, 162-173.	1.7	11
45	BrainAGE and regional volumetric analysis of a Buddhist monk: a longitudinal MRI case study. <i>Neurocase</i> , 2020, 26, 79-90.	0.6	11
46	Persistent Homological Sparse Network Approach to Detecting White Matter Abnormality in Maltreated Children: MRI and DTI Multimodal Study. <i>Lecture Notes in Computer Science</i> , 2013, 16, 300-307.	1.3	11
47	Effects of simvastatin on white matter integrity in healthy middle-aged adults. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1656-1667.	3.7	10
48	Hot Spots Conjecture and Its Application to Modeling Tubular Structures. <i>Lecture Notes in Computer Science</i> , 2011, 7009, 225-232.	1.3	10
49	Multi-resolutional Brain Network Filtering and Analysis via Wavelets on Non-Euclidean Space. <i>Lecture Notes in Computer Science</i> , 2013, 16, 643-651.	1.3	10
50	A 3D Fully Convolutional Neural Network With Top-Down Attention-Guided Refinement for Accurate and Robust Automatic Segmentation of Amygdala and Its Subnuclei. <i>Frontiers in Neuroscience</i> , 2020, 14, 260.	2.8	9
51	Mindfulness video game improves connectivity of the fronto-parietal attentional network in adolescents: A multi-modal imaging study. <i>Scientific Reports</i> , 2019, 9, 18667.	3.3	8
52	Genetic and environmental influences of variation in diffusion MRI measures of white matter microstructure. <i>Brain Structure and Function</i> , 2022, 227, 131-144.	2.3	8
53	A Geometric Framework for Statistical Analysis of Trajectories with Distinct Temporal Spans. , 2017, 2017, 172-181.		6
54	The Connectomes: Methods of White Matter Tractography and Contributions of Resting State fMRI. <i>Seminars in Ultrasound, CT and MRI</i> , 2021, 42, 507-522.	1.5	6

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55	A Projection Free Method for Generalized Eigenvalue Problem with a Nonsmooth Regularizer. , 2015, 2015, 1841-1849.		5
56	Latent Variable Graphical Model Selection Using Harmonic Analysis: Applications to the Human Connectome Project (HCP). , 2016, 2016, 2443-2451.		5
57	Coupled Harmonic Bases for Longitudinal Characterization of Brain Networks. , 2016, 2016, 2517-2525.		5
58	Penalized Likelihood Phenotyping: Unifying Voxelwise Analyses and Multi-Voxel Pattern Analyses in Neuroimaging. Neuroinformatics, 2013, 11, 227-247.	2.8	4
59	Harmonization and Targeted Feature Dropout for Generalized Segmentation: Application to Multi-site Traumatic Brain Injury Images. Lecture Notes in Computer Science, 2019, , 81-89.	1.3	4
60	Effects of DTI spatial normalization on white matter tract reconstructions. , 2013, 8669, .		3
61	Sequential Monte Carlo for Maximum Weight Subgraphs with Application to Solving Image Jigsaw Puzzles. International Journal of Computer Vision, 2015, 112, 319-341.	15.6	3
62	Individual variation in white matter microstructure is related to better recovery from negative stimuli.. Emotion, 2022, 22, 244-257.	1.8	3
63	Applications of Epsilon Radial Networks in Neuroimage Analyses. Lecture Notes in Computer Science, 2011, 7087, 236-247.	1.3	3
64	The 4D Hyperspherical Diffusion Wavelet: A New Method for the Detection of Localized Anatomical Variation. Lecture Notes in Computer Science, 2014, 17, 65-72.	1.3	3
65	A Natural Language Interface for Dissemination of Reproducible Biomedical Data Science. Lecture Notes in Computer Science, 2018, 11073, 197-205.	1.3	3
66	Interpolation on the Manifold of K Component GMMs. , 2015, 2015, 2884-2892.		2
67	Abundant Inverse Regression Using Sufficient Reduction and Its Applications. Lecture Notes in Computer Science, 2016, 9907, 570-584.	1.3	2
68	Heat Kernel Smoothing on Manifolds and Its Application to Hyoid Bone Growth Modeling. Emerging Topics in Statistics and Biostatistics, 2020, , 235-261.	0.1	2
69	Adaptive Signal Recovery on Graphs via Harmonic Analysis for Experimental Design in Neuroimaging. Lecture Notes in Computer Science, 2016, 9910, 188-205.	1.3	2
70	Canonical Correlation Analysis on SPD(n) Manifolds. , 2016, , 69-100.		2
71	Simulating convection-enhanced delivery in the putamen using probabilistic tractography. , 2011, 2011, 787-790.		1
72	Max margin general linear modeling for neuroimage analyses. , 2012, 2012, .		1

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73	Riemannian Variance Filtering: An Independent Filtering Scheme for Statistical Tests on Manifold-Valued Data. , 2017, 2017, 699-708.		1
74	Geodesic path differences in neural networks in the Alzheimer's disease connectome project. Alzheimer's and Dementia, 2020, 16, e047284.	0.8	1
75	Characterizing brain age in the Alzheimer's disease connectome project using a deep neural network pre-trained on the UK Biobank. Alzheimer's and Dementia, 2021, 17, .	0.8	1
76	Adaptive cuts for extracting specific white matter tracts. , 2012, 2012, .		0
77	IC-P-096: Insulin resistance is associated with altered microstructure in the medial temporal lobe and fornix of cognitively healthy APOE4 carriers. , 2015, 11, P66-P67.		0
78	Multi-resolution statistical analysis on graph structured data in neuroimaging. , 2015, 2015, 1548-1551.		0
79	P4-260: A framework for performing multi-resolution statistical analysis of brain connectivity graphs for preclinical Alzheimer's disease. , 2015, 11, P882-P882.		0
80	P4-262: Neuroinflammation in preclinical Alzheimer's disease is associated with parahippocampal pathology and memory deficits. , 2015, 11, P883-P884.		0
81	O1â€12â€01: Multi-Resolution Analysis of DTI-Derived Brain Connectivity and the Influence of PET-Derived Alzheimer's Disease Pathology in a Preclinical Cohort. Alzheimer's and Dementia, 2016, 12, P205.	0.8	0
82	O1â€12â€05: Amyloid Deposition in the Posterior Cingulate is Associated with Altered Microstructure in Cognitively Asymptomatic Individuals: Findings From the Wrap Study. Alzheimer's and Dementia, 2016, 12, P207.	0.8	0
83	P1â€286: Manifold-Valued Statistical Models for Longitudinal Morphometric Analysis in Preclinical Alzheimer's Disease. Alzheimer's and Dementia, 2016, 12, P529.	0.8	0
84	P3â€084: Effects of Kibra Polymorphism on White Matter Integrity: Findings from the Wisconsin Registry for Alzheimer's Prevention. Alzheimer's and Dementia, 2016, 12, P850.	0.8	0
85	[P4â€402]: IMAGE ANALYSIS THROUGH CONVERSATIONS: REDUCING BARRIERS AND IMPROVING PROVENANCE TRACKING IN ALZHEIMER'S DISEASE RESEARCH. Alzheimer's and Dementia, 2017, 13, P1484.	0.8	0
86	[P4â€400]: LONGITUDINAL ANALYSIS OF STRUCTURAL MRI IN ALZHEIMER'S DISEASE USING RIEMANNIAN MIXED EFFECTS MODELS. Alzheimer's and Dementia, 2017, 13, P1483.	0.8	0
87	[P4â€067]: GRAPH COMPLETION: A GENERALIZATION OF NETFLIX PRIZE PROBLEM TO DESIGN COST-EFFECTIVE NEUROIMAGING TRIALS IN PRECLINICAL AD. Alzheimer's and Dementia, 2017, 13, P1283.	0.8	0
88	ICâ€Pâ€011: DATA-DRIVEN PROPAGATION MODELING OF PET-DERIVED ALZHEIMER'S PATHOLOGY IN A PRECLINICAL COHORT. Alzheimer's and Dementia, 2018, 14, P20.	0.8	0
89	ICâ€Pâ€149: DECREASED CORTICAL NEURITE DENSITY AND ORIENTATION DISPERSION IN ALZHEIMER'S DISEASE DEMENTIA. Alzheimer's and Dementia, 2019, 15, P120.	0.8	0
90	Association of Prenatal Maternal Depression and Anxiety Symptoms With Infant White Matter Microstructure. Obstetrical and Gynecological Survey, 2019, 74, 138-139.	0.4	0

#	ARTICLE	IF	CITATIONS
91	Simvastatin maintains white matter integrity in healthy middle-aged adults with increased risk for Alzheimer's disease: A secondary analysis of a randomized controlled trial. <i>Alzheimer's and Dementia</i> , 2020, 16, e043408.	0.8	0
92	The interaction of amyloid and tau on decreased cortical neurite density in preclinical Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e043979.	0.8	0
93	Contrasting alterations between cortical and subcortical myelin across age, AD diagnosis, and amyloid and tau pathology as assessed by quantitative R1 mapping. <i>Alzheimer's and Dementia</i> , 2020, 16, e046993.	0.8	0