

# Nagesh Adluru

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1595393/publications.pdf>

Version: 2024-02-01

93  
papers

3,026  
citations

218677

26  
h-index

189892

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        |

| #  | ARTICLE                                                                                                                                                                                                                                      | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 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        |

| #  | ARTICLE                                                                                                                                                                                                           | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 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         |

| #  | ARTICLE                                                                                                                                                                             | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 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         |

| #  | ARTICLE                                                                                                                                                                                                                | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 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         |