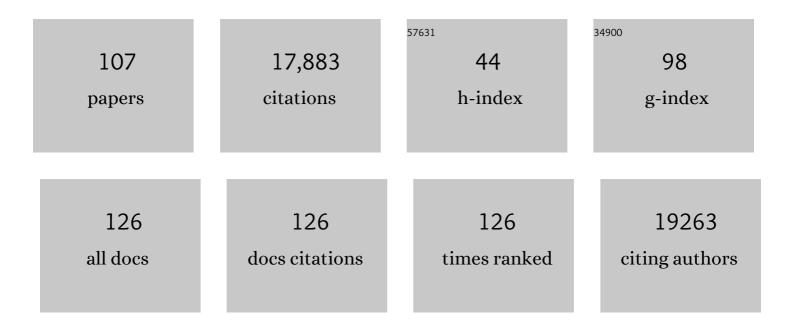
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5778682/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | NeuroGen: Activation optimized image synthesis for discovery neuroscience. NeuroImage, 2022, 247, 118812. | 2.1 | 10 |
| 2 | Predicting individual task contrasts from restingâ€state functional connectivity using a surfaceâ€based convolutional network. NeuroImage, 2022, 248, 118849. | 2.1 | 12 |
| 3 | Heritability of individualized cortical network topography. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 59 |
| 4 | Cortical response to naturalistic stimuli is largely predictable with deep neural networks. Science Advances, 2021, 7, . | 4.7 | 27 |
| 5 | Magnetic Resonance Imaging Radiomicsâ€Based Machine Learning Prediction of Clinically Significant Prostate Cancer in Equivocal <scp>Plâ€RADS</scp> 3 Lesions. Journal of Magnetic Resonance Imaging, 2021, 54, 1466-1473. | 1.9 | 24 |
| 6 | Heritability and interindividual variability of regional structure-function coupling. Nature Communications, 2021, 12, 4894. | 5.8 | 79 |
| 7 | Deep neural networks and kernel regression achieve comparable accuracies for functional connectivity prediction of behavior and demographics. NeuroImage, 2020, 206, 116276. | 2.1 | 187 |
| 8 | Deep-Learning-Based Optimization of the Under-Sampling Pattern in MRI. IEEE Transactions on Computational Imaging, 2020, 6, 1139-1152. | 2.6 | 74 |
| 9 | Machine Learning Prediction of Stroke Mechanism in Embolic Strokes of Undetermined Source. Stroke, 2020, 51, e203-e210. | 1.0 | 30 |
| 10 | Machine Learning Methods Predict Individual Upper-Limb Motor Impairment Following Therapy in Chronic Stroke. Neurorehabilitation and Neural Repair, 2020, 34, 428-439. | 1.4 | 43 |
| 11 | Volumetric Landmark Detection with a Multi-Scale Shift Equivariant Neural Network. , 2020, , . | | 6 |
| 12 | Sex classification using longâ€range temporal dependence of restingâ€state functional <scp>MRI</scp> time series. Human Brain Mapping, 2020, 41, 3567-3579. | 1.9 | 21 |
| 13 | Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. NeuroImage, 2020, 211, 116579. | 2.1 | 31 |
| 14 | Learning Conditional Deformable Shape Templates for Brain Anatomy. Lecture Notes in Computer Science, 2020, , 353-362. | 1.0 | 5 |
| 15 | Neural Network-Based Reconstruction in Compressed Sensing MRI Without Fully-Sampled Training Data. Lecture Notes in Computer Science, 2020, , 27-37. | 1.0 | 10 |
| 16 | Spatial Topography of Individual-Specific Cortical Networks Predicts Human Cognition, Personality, and Emotion. Cerebral Cortex, 2019, 29, 2533-2551. | 1.6 | 430 |
| 17 | Medical Image Imputation From Image Collections. IEEE Transactions on Medical Imaging, 2019, 38, 504-514. | 5.4 | 33 |
| 18 | Unsupervised learning of probabilistic diffeomorphic registration for images and surfaces. Medical Image Analysis, 2019, 57, 226-236. | 7.0 | 191 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Multi-modal latent factor exploration of atrophy, cognitive and tau heterogeneity in Alzheimer's disease. NeuroImage, 2019, 201, 116043. | 2.1 | 38 |
| 20 | Image Registration in Medical Robotics and Intelligent Systems: Fundamentals and Applications. Advanced Intelligent Systems, 2019, 1, 1900048. | 3.3 | 13 |
| 21 | Machine Learning Enables High-Throughput Phenotyping for Analyses of the Genetic Architecture of Bulliform Cell Patterning in Maize. G3: Genes, Genomes, Genetics, 2019, 9, 4235-4243. | 0.8 | 9 |
| 22 | Resting brain dynamics at different timescales capture distinct aspects of human behavior. Nature Communications, 2019, 10, 2317. | 5.8 | 208 |
| 23 | Ensemble learning with 3D convolutional neural networks for functional connectome-based prediction. Neurolmage, 2019, 199, 651-662. | 2.1 | 87 |
| 24 | Machine learning in resting-state fMRI analysis. Magnetic Resonance Imaging, 2019, 64, 101-121. | 1.0 | 135 |
| 25 | Deep convolutional neural networks for segmenting 3D in vivo multiphoton images of vasculature in Alzheimer disease mouse models. PLoS ONE, 2019, 14, e0213539. | 1.1 | 60 |
| 26 | Global signal regression strengthens association between resting-state functional connectivity and behavior. Neurolmage, 2019, 196, 126-141. | 2.1 | 292 |
| 27 | The Shared Genetic Basis of Educational Attainment and Cerebral Cortical Morphology. Cerebral Cortex, 2019, 29, 3471-3481. | 1.6 | 23 |
| 28 | Unsupervised Deep Learning for Bayesian Brain MRI Segmentation. Lecture Notes in Computer Science, 2019, 11766, 356-365. | 1.0 | 38 |
| 29 | Reply to Risk and Zhu: Mixed-effects modeling as a principled approach to heritability analysis with repeat measurements. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E123-E123. | 3.3 | 0 |
| 30 | Joint Analysis of Cortical Area and Thickness as a Replacement for the Analysis of the Volume of the Cerebral Cortex. Cerebral Cortex, 2018, 28, 738-749. | 1.6 | 92 |
| 31 | Dissociable influences of <i>APOE</i> ε4 and polygenic risk of AD dementia on amyloid and cognition. Neurology, 2018, 90, e1605-e1612. | 1.5 | 71 |
| 32 | The human cortex possesses a reconfigurable dynamic network architecture that is disrupted in psychosis. Nature Communications, 2018, 9, 1157. | 5.8 | 65 |
| 33 | Polygenic Risk of Spasmodic Dysphonia is Associated With Vulnerable Sensorimotor Connectivity. Cerebral Cortex, 2018, 28, 158-166. | 1.6 | 23 |
| 34 | Subspecialization within default mode nodes characterized in 10,000 UK Biobank participants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12295-12300. | 3.3 | 125 |
| 35 | An Unsupervised Learning Model for Deformable Medical Image Registration. , 2018, , . | | 414 |
| 36 | Unsupervised Learning for Fast Probabilistic Diffeomorphic Registration. Lecture Notes in Computer Science, 2018, , 729-738. | 1.0 | 178 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Is deep learning better than kernel regression for functional connectivity prediction of fluid intelligence?. , 2018, , . | | 18 |
| 38 | Mid-space-independent deformable image registration. NeuroImage, 2017, 152, 158-170. | 2.1 | 18 |
| 39 | Diffeomorphic functional brain surface alignment: Functional demons. Neurolmage, 2017, 156, 456-465. | 2.1 | 41 |
| 40 | Heritability analysis with repeat measurements and its application to resting-state functional connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5521-5526. | 3.3 | 122 |
| 41 | Tau and amyloid β proteins distinctively associate to functional network changes in the aging brain. Alzheimer's and Dementia, 2017, 13, 1261-1269. | 0.4 | 90 |
| 42 | Guest editorial of the IJCARS MICCAI 2016 special issue. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1243-1244. | 1.7 | 0 |
| 43 | Population Based Image Imputation. Lecture Notes in Computer Science, 2017, 10265, 659-671. | 1.0 | 17 |
| 44 | Phenome-wide heritability analysis of the UK Biobank. PLoS Genetics, 2017, 13, e1006711. | 1.5 | 191 |
| 45 | Morphometricity as a measure of the neuroanatomical signature of a trait. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5749-56. | 3.3 | 53 |
| 46 | Bayesian model reveals latent atrophy factors with dissociable cognitive trajectories in Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6535-E6544. | 3.3 | 137 |
| 47 | Multidimensional heritability analysis of neuroanatomical shape. Nature Communications, 2016, 7, 13291. | 5.8 | 68 |
| 48 | Polygenic risk of Alzheimer disease is associated with early- and late-life processes. Neurology, 2016, 87, 481-488. | 1.5 | 159 |
| 49 | Identifying Shared Brain Networks in Individuals by Decoupling Functional and Anatomical Variability. Cerebral Cortex, 2016, 26, 4004-4014. | 1.6 | 68 |
| 50 | A kernel machine method for detecting effects of interaction between multidimensional variable sets: An imaging genetics application. NeuroImage, 2015, 109, 505-514. | 2.1 | 23 |
| 51 | Massively expedited genome-wide heritability analysis (MEGHA). Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2479-2484. | 3.3 | 69 |
| 52 | Clinical Prediction from Structural Brain MRI Scans: A Large-Scale Empirical Study. Neuroinformatics, 2015, 13, 31-46. | 1.5 | 131 |
| 53 | An algorithm for optimal fusion of atlases with different labeling protocols. NeuroImage, 2015, 106, 451-463. | 2.1 | 16 |
| 54 | Avoiding symmetry-breaking spatial non-uniformity in deformable image registration via a quasi-volume-preserving constraint. Neurolmage, 2015, 106, 238-251. | 2.1 | 8 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Multi-atlas segmentation of biomedical images: A survey. Medical Image Analysis, 2015, 24, 205-219. | 7.0 | 513 |
| 56 | Mid-Space-Independent Symmetric Data Term for Pairwise Deformable Image Registration. Lecture Notes in Computer Science, 2015, 9350, 263-271. | 1.0 | 1 |
| 57 | Predictive Modeling of Anatomy with Genetic and Clinical Data. Lecture Notes in Computer Science, 2015, 9351, 519-526. | 1.0 | 2 |
| 58 | A Sparse Bayesian Learning Algorithm for Longitudinal Image Data. Lecture Notes in Computer Science, 2015, 9351, 411-418. | 1.0 | 1 |
| 59 | Event time analysis of longitudinal neuroimage data. NeuroImage, 2014, 97, 9-18. | 2.1 | 28 |
| 60 | Genetic variation of oxidative phosphorylation genes in stroke and Alzheimer's disease. Neurobiology of Aging, 2014, 35, 1956.e1-1956.e8. | 1.5 | 17 |
| 61 | A Cautionary Analysis of STAPLE Using Direct Inference of Segmentation Truth. Lecture Notes in Computer Science, 2014, 17, 398-406. | 1.0 | 8 |
| 62 | A Universal and Efficient Method to Compute Maps from Image-Based Prediction Models. Lecture Notes in Computer Science, 2014, 17, 353-360. | 1.0 | 6 |
| 63 | Improved inference in Bayesian segmentation using Monte Carlo sampling: Application to hippocampal subfield volumetry. Medical Image Analysis, 2013, 17, 766-778. | 7.0 | 36 |
| 64 | A Surface-based Analysis of Language Lateralization and Cortical Asymmetry. Journal of Cognitive Neuroscience, 2013, 25, 1477-1492. | 1.1 | 188 |
| 65 | A unified framework for cross-modality multi-atlas segmentation of brain MRI. Medical Image Analysis, 2013, 17, 1181-1191. | 7.0 | 46 |
| 66 | Individual Variability in Functional Connectivity Architecture of the Human Brain. Neuron, 2013, 77, 586-595. | 3.8 | 949 |
| 67 | On Removing Interpolation and Resampling Artifacts in Rigid Image Registration. IEEE Transactions on Image Processing, 2013, 22, 816-827. | 6.0 | 28 |
| 68 | Statistical analysis of longitudinal neuroimage data with Linear Mixed Effects models. NeuroImage, 2013, 66, 249-260. | 2.1 | 298 |
| 69 | Symmetric non-rigid image registration via an adaptive quasi-volume-preserving constraint. , 2013, 2013, 230-233. | | 5 |
| 70 | Spatiotemporal linear mixed effects modeling for the mass-univariate analysis of longitudinal neuroimage data. NeuroImage, 2013, 81, 358-370. | 2.1 | 111 |
| 71 | In vivo characterization of the early states of the amyloid-beta network. Brain, 2013, 136, 2239-2252. | 3.7 | 104 |
| 72 | Joint Modeling of Imaging and Genetics. Lecture Notes in Computer Science, 2013, 23, 766-777. | 1.0 | 27 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Example-Based Restoration of High-Resolution Magnetic Resonance Image Acquisitions. Lecture Notes in Computer Science, 2013, 16, 131-138. | 1.0 | 18 |
| 74 | A Probabilistic, Non-parametric Framework for Inter-modality Label Fusion. Lecture Notes in Computer Science, 2013, 16, 576-583. | 1.0 | 1 |
| 75 | On Feature Relevance in Image-Based Prediction Models: An Empirical Study. Lecture Notes in Computer Science, 2013, , 171-178. | 1.0 | 1 |
| 76 | An Improved Optimization Method for the Relevance Voxel Machine. Lecture Notes in Computer Science, 2013, , 147-154. | 1.0 | 0 |
| 77 | The Association between a Polygenic Alzheimer Score and Cortical Thickness in Clinically Normal Subjects. Cerebral Cortex, 2012, 22, 2653-2661. | 1.6 | 145 |
| 78 | Network assemblies in the functional brain. Current Opinion in Neurology, 2012, 25, 1. | 1.8 | 35 |
| 79 | A generative model for multi-atlas segmentation across modalities. , 2012, , 888-891. | | 21 |
| 80 | A coding variant in CR1 interacts with APOE-ɛ4 to influence cognitive decline. Human Molecular Genetics, 2012, 21, 2377-2388. | 1.4 | 90 |
| 81 | The Relevance Voxel Machine (RVoxM): A Self-Tuning Bayesian Model for Informative Image-Based Prediction. IEEE Transactions on Medical Imaging, 2012, 31, 2290-2306. | 5.4 | 41 |
| 82 | The influence of head motion on intrinsic functional connectivity MRI. NeuroImage, 2012, 59, 431-438. | 2.1 | 2,209 |
| 83 | Measuring and comparing brain cortical surface area and other areal quantities. NeuroImage, 2012, 61, 1428-1443. | 2.1 | 157 |
| 84 | Stepwise Connectivity of the Modal Cortex Reveals the Multimodal Organization of the Human Brain. Journal of Neuroscience, 2012, 32, 10649-10661. | 1.7 | 253 |
| 85 | A Generative Model for Probabilistic Label Fusion of Multimodal Data. Lecture Notes in Computer Science, 2012, 7509, 115-133. | 1.0 | 12 |
| 86 | The organization of the human cerebral cortex estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2011, 106, 1125-1165. | 0.9 | 6,420 |
| 87 | The Dynamics of Cortical and Hippocampal Atrophy in Alzheimer Disease. Archives of Neurology, 2011, 68, 1040. | 4.9 | 267 |
| 88 | Modeling anatomical heterogeneity in populations. , 2011, , . | | 0 |
| 89 | The Relevance Voxel Machine (RVoxM): A Bayesian Method for Image-Based Prediction. Lecture Notes in Computer Science, 2011, 14, 99-106. | 1.0 | 19 |
| 90 | Spherical Demons: Fast Diffeomorphic Landmark-Free Surface Registration. IEEE Transactions on Medical Imaging, 2010, 29, 650-668. | 5.4 | 301 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Learning Task-Optimal Registration Cost Functions for Localizing Cytoarchitecture and Function in the Cerebral Cortex. IEEE Transactions on Medical Imaging, 2010, 29, 1424-1441. | 5.4 | 57 |
| 92 | A Generative Model for Image Segmentation Based on Label Fusion. IEEE Transactions on Medical Imaging, 2010, 29, 1714-1729. | 5.4 | 423 |
| 93 | Function-based Intersubject Alignment of Human Cortical Anatomy. Cerebral Cortex, 2010, 20, 130-140. | 1.6 | 147 |
| 94 | Robust Atlas-Based Segmentation of Highly Variable Anatomy: Left Atrium Segmentation. Lecture Notes in Computer Science, 2010, 6364, 85-94. | 1.0 | 41 |
| 95 | Selective Disruption of the Cerebral Neocortex in Alzheimer's Disease. PLoS ONE, 2010, 5, e12853. | 1.1 | 69 |
| 96 | Image-driven population analysis through mixture modeling. , 2009, , . | | 3 |
| 97 | Image-Driven Population Analysis Through Mixture Modeling. IEEE Transactions on Medical Imaging, 2009, 28, 1473-1487. | 5.4 | 68 |
| 98 | Consistency Clustering: A Robust Algorithm for Group-wise Registration, Segmentation and Automatic Atlas Construction inÂDiffusion MRI. International Journal of Computer Vision, 2009, 85, 279-290. | 10.9 | 38 |
| 99 | A Unified Framework for MR Based Disease Classification. Lecture Notes in Computer Science, 2009, 21, 300-313. | 1.0 | 39 |
| 100 | Asymmetric Image-Template Registration. Lecture Notes in Computer Science, 2009, 12, 565-573. | 1.0 | 26 |
| 101 | Supervised Nonparametric Image Parcellation. Lecture Notes in Computer Science, 2009, 12, 1075-1083. | 1.0 | 6 |
| 102 | Nonparametric Mixture Models for Supervised Image Parcellation. , 2009, 12, 301-313. | | 3 |
| 103 | Effects of registration regularization and atlas sharpness on segmentation accuracy. Medical Image Analysis, 2008, 12, 603-615. | 7.0 | 82 |
| 104 | Using Spanning Graphs for Efficient Image Registration. IEEE Transactions on Image Processing, 2008, 17, 788-797. | 6.0 | 55 |
| 105 | Analysis of Surfaces Using Constrained Regression Models. Lecture Notes in Computer Science, 2008, 11, 842-849. | 1.0 | 3 |
| 106 | Discovering Modes of an Image Population through Mixture Modeling. Lecture Notes in Computer Science, 2008, 11, 381-389. | 1.0 | 30 |
| 107 | A Robust Algorithm for Fiber-Bundle Atlas Construction. , 2007, , . | | 2 |