Polina Golland

List of Publications by Year in descending order

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61 papers	1,573 citations	361413 20 h-index	361022 35 g-index
63 all docs	63 docs citations	63 times ranked	2661 citing authors

#	Article	IF	Citations
1	How Machine Learning is Powering Neuroimaging to Improve Brain Health. Neuroinformatics, 2022, 20, 943-964.	2.8	13
2	Automated detection and reacquisition of motionâ€degraded images in fetal HASTE imaging at 3 T. Magnetic Resonance in Medicine, 2022, 87, 1914-1922.	3.0	11
3	Deep Learning to Quantify Pulmonary Edema in Chest Radiographs. Radiology: Artificial Intelligence, 2021, 3, e190228.	5.8	17
4	MRI Radiomic Signature of White Matter Hyperintensities Is Associated With Clinical Phenotypes. Frontiers in Neuroscience, 2021, 15, 691244.	2.8	12
5	Joint super-resolution and synthesis of 1Âmm isotropic MP-RAGE volumes from clinical MRI exams with scans of different orientation, resolution and contrast. NeuroImage, 2021, 237, 118206.	4.2	52
6	Excessive White Matter Hyperintensity Increases Susceptibility to Poor Functional Outcomes After Acute Ischemic Stroke. Frontiers in Neurology, 2021, 12, 700616.	2.4	11
7	Segmentation of Tricuspid Valve Leaflets From Transthoracic 3D Echocardiograms of Children With Hypoplastic Left Heart Syndrome Using Deep Learning. Frontiers in Cardiovascular Medicine, 2021, 8, 735587.	2.4	12
8	A topological encoding convolutional neural network for segmentation of 3D multiphoton images of brain vasculature using persistent homology. , 2020, 2020, 4262-4271.		11
9	Distributed changes of the functional connectome in patients with glioblastoma. Scientific Reports, 2020, 10, 18312.	3.3	19
10	White matter hyperintensity burden in acute stroke patients differs by ischemic stroke subtype. Neurology, 2020, 95, e79-e88.	1.1	34
11	Diffusion-Weighted Imaging, MR Angiography, and Baseline Data in a Systematic Multicenter Analysis of 3,301 MRI Scans of Ischemic Stroke Patientsâ€"Neuroradiological Review Within the MRI-GENIE Study. Frontiers in Neurology, 2020, 11, 577.	2.4	5
12	Placental MRI: Effect of maternal position and uterine contractions on placental BOLD MRI measurements. Placenta, 2020, 95, 69-77.	1.5	27
13	Semi-supervised Learning for Fetal Brain MRI Quality Assessment with ROI Consistency. Lecture Notes in Computer Science, 2020, , 386-395.	1.3	11
14	Spatial-Intensity Transform GANs for High Fidelity Medical Image-to-Image Translation. Lecture Notes in Computer Science, 2020, 12262, 749-759.	1.3	2
15	Deformable MRI-Ultrasound registration using correlation-based attribute matching for brain shift correction: Accuracy and generality in multi-site data. NeuroImage, 2019, 202, 116094.	4.2	16
16	White matter hyperintensity quantification in large-scale clinical acute ischemic stroke cohorts â€" The MRI-GENIE study. NeuroImage: Clinical, 2019, 23, 101884.	2.7	48
17	Placental MRI. Topics in Magnetic Resonance Imaging, 2019, 28, 285-297.	1.2	23
18	Effective Reserve: A Latent Variable to Improve Outcome Prediction in Stroke. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 63-69.	1.6	10

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19	Joint Inference on Structural and Diffusion MRI for Sequence-Adaptive Bayesian Segmentation of Thalamic Nuclei with Probabilistic Atlases. Lecture Notes in Computer Science, 2019, 11492, 767-779.	1.3	5
20	Unsupervised Deep Learning for Bayesian Brain MRI Segmentation. Lecture Notes in Computer Science, 2019, 11766, 356-365.	1.3	38
21	Fetal Pose Estimation in Volumetric MRI Using a 3D Convolution Neural Network. Lecture Notes in Computer Science, 2019, 11767, 403-410.	1.3	18
22	Placental Flattening via Volumetric Parameterization. Lecture Notes in Computer Science, 2019, 11767, 39-47.	1.3	9
23	TADPOLE Challenge: Accurate Alzheimerâ€™s Disease Prediction Through Crowdsourced Forecasting of Future Data. Lecture Notes in Computer Science, 2019, 11843, 1-10.	1.3	32
24	BrainPainter: A Software for the Visualisation of Brain Structures, Biomarkers and Associated Pathological Processes. Lecture Notes in Computer Science, 2019, 11846, 112-120.	1.3	21
25	Patient-Specific Conditional Joint Models of Shape, Image Features and Clinical Indicators. Lecture Notes in Computer Science, 2019, 11767, 93-101.	1.3	2
26	Disease Knowledge Transfer Across Neurodegenerative Diseases. Lecture Notes in Computer Science, 2019, 11765, 860-868.	1.3	4
27	Iterative Segmentation from Limited Training Data: Applications to Congenital Heart Disease. Lecture Notes in Computer Science, 2018, 11045, 334-342.	1.3	21
28	Efficient Laplace Approximation for Bayesian Registration Uncertainty Quantification. Lecture Notes in Computer Science, 2018, 11070, 880-888.	1.3	9
29	Using the variogram for vector outlier screening: application to feature-based image registration. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1871-1880.	2.8	17
30	Non-rigid registration of 3D ultrasound for neurosurgery using automatic feature detection and matching. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1525-1538.	2.8	40
31	Abstract WMP56: Genetics of Acute Ischemic Lesion Volume: the MRI-Genetics Interface Exploration (MRI-GENIE) Study. Stroke, 2018, 49, .	2.0	0
32	Spatiotemporal alignment of in utero BOLDâ€MRI series. Journal of Magnetic Resonance Imaging, 2017, 46, 403-412.	3.4	25
33	In Vivo Quantification of Placental Insufficiency by BOLD MRI: A Human Study. Scientific Reports, 2017, 7, 3713.	3.3	66
34	Probabilistic modeling of anatomical variability using a low dimensional parameterization of diffeomorphisms. Medical Image Analysis, 2017, 41, 55-62.	11.6	8
35	Frequency Diffeomorphisms for Efficient Image Registration. Lecture Notes in Computer Science, 2017, 10265, 559-570.	1.3	31
36	Population Based Image Imputation. Lecture Notes in Computer Science, 2017, 10265, 659-671.	1.3	17

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37	Fast Geodesic Regression for Population-Based Image Analysis. Lecture Notes in Computer Science, 2017, 10433, 317-325.	1.3	10
38	Abstract WP204: Genetic Variant in VCAM1 Mediates Acute Infarct Size in Ischemic Stroke Patients. Stroke, 2017, 48, .	2.0	0
39	Abstract 136: Genetics of White Matter Hyperintensity Burden in Patients With Ischemic Stroke: The MRI-GENIE Study. Stroke, 2017, 48, .	2.0	0
40	Statistical shape analysis: From landmarks to diffeomorphisms. Medical Image Analysis, 2016, 33, 155-158.	11.6	12
41	Identifying Shared Brain Networks in Individuals by Decoupling Functional and Anatomical Variability. Cerebral Cortex, 2016, 26, 4004-4014.	2.9	68
42	Low-Dimensional Statistics of Anatomical Variability via Compact Representation of Image Deformations. Lecture Notes in Computer Science, 2016, 9902, 166-173.	1.3	9
43	Patch-Based Discrete Registration of Clinical Brain Images. Lecture Notes in Computer Science, 2016, 9993, 60-67.	1.3	20
44	Unsupervised Discovery of Emphysema Subtypes in a Large Clinical Cohort. Lecture Notes in Computer Science, 2016, 10019, 180-187.	1.3	22
45	BrainPrint: A discriminative characterization of brain morphology. NeuroImage, 2015, 109, 232-248.	4.2	128
46	Interactive Whole-Heart Segmentation in Congenital Heart Disease. Lecture Notes in Computer Science, 2015, 9351, 80-88.	1.3	70
47	Predictive Modeling of Anatomy with Genetic and Clinical Data. Lecture Notes in Computer Science, 2015, 9351, 519-526.	1.3	2
48	Decoupling function and anatomy in atlases of functional connectivity patterns: Language mapping in tumor patients. NeuroImage, 2014, 103, 462-475.	4.2	36
49	Coping with confounds in multivoxel pattern analysis: What should we do about reaction time differences? A comment on Todd, Nystrom & Cohen 2013. NeuroImage, 2014, 98, 506-512.	4.2	60
50	Quantification and Analysis of Large Multimodal Clinical Image Studies: Application to Stroke. Lecture Notes in Computer Science, 2013, 8159, 18-30.	1.3	15
51	Contour-Driven Regression for Label Inference in Atlas-Based Segmentation. Lecture Notes in Computer Science, 2013, 16, 211-218.	1.3	14
52	Modeling anatomical heterogeneity in populations. , 2011, , .		0
53	Functional Geometry Alignment and Localization of Brain Areas. Advances in Neural Information Processing Systems, 2010, 1, 1225-1233.	2.8	18
54	Categories and Functional Units: An Infinite Hierarchical Model for Brain Activations. Advances in Neural Information Processing Systems, 2010, 23, 1252-1260.	2.8	1

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55	Image-driven population analysis through mixture modeling. , 2009, , .		3
56	Spatial patterns and functional profiles for discovering structure in fMRI data. , 2008, 2008, 1402-1409.		2
57	Guest Editorial Special Issue on Mathematical Modeling in Biomedical Image Analysis. IEEE Transactions on Medical Imaging, 2007, 26, 1133-1135.	8.9	0
58	Detection of Spatial Activation Patterns as Unsupervised Segmentation of fMRI Data. , 2007, 10, 110-118.		31
59	Invertible Filter Banks on the 2-Sphere. , 2006, , .		4
60	Detection and analysis of statistical differences in anatomical shape. Medical Image Analysis, 2005, 9, 69-86.	11.6	95
61	Permutation Tests for Classification: Towards Statistical Significance in Image-Based Studies. Lecture Notes in Computer Science, 2003, 18, 330-341.	1.3	254