Gang Li

List of Publications by Citations

80 papers	2,638 citations	25 h-index	50 g-index
86 ext. papers	3,265 ext. citations	5.7 avg, IF	5.13 L-index

#	Paper	IF	Citations
80	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. *Cerebral Cortex*, **2015**, 25, 2204-12	5.1	200
79	LINKS: learning-based multi-source IntegratioN frameworK for Segmentation of infant brain images. *NeuroImage*, **2015**, 108, 160-72	7.9	168
78	Mapping longitudinal development of local cortical gyrification in infants from birth to 2 years of age. *Journal of Neuroscience*, **2014**, 34, 4228-38	6.6	164
77	Mapping region-specific longitudinal cortical surface expansion from birth to 2 years of age. *Cerebral Cortex*, **2013**, 23, 2724-33	5.1	155
76	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. *NeuroImage*, **2019**, 185, 891-905	7.9	140
75	Segmentation of neonatal brain MR images using patch-driven level sets. *NeuroImage*, **2014**, 84, 141-58	7.9	136
74	Spatial Patterns, Longitudinal Development, and Hemispheric Asymmetries of Cortical Thickness in Infants from Birth to 2 Years of Age. *Journal of Neuroscience*, **2015**, 35, 9150-62	6.6	107
73	Mapping longitudinal hemispheric structural asymmetries of the human cerebral cortex from birth to 2 years of age. *Cerebral Cortex*, **2014**, 24, 1289-300	5.1	96
72	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. *NeuroImage*, **2014**, 90, 266-79	7.9	92
71	Structural and Maturational Covariance in Early Childhood Brain Development. *Cerebral Cortex*, **2017**, 27, 1795-1807	5.1	91
70	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. *Medical Image Analysis*, **2015**, 25, 22-36	15.4	90
69	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. *NeuroImage*, **2014**, 100, 206-18	7.9	83
68	Computational neuroanatomy of baby brains: A review. *NeuroImage*, **2019**, 185, 906-925	7.9	82
67	Axonal fiber terminations concentrate on gyri. *Cerebral Cortex*, **2012**, 22, 2831-9	5.1	81
66	Consistent reconstruction of cortical surfaces from longitudinal brain MR images. *NeuroImage*, **2012**, 59, 3805-20	7.9	79
65	Benchmark on Automatic 6-month-old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. *IEEE Transactions on Medical Imaging*, **2019**,	11.7	69
64	Gyral folding pattern analysis via surface profiling. *NeuroImage*, **2010**, 52, 1202-14	7.9	48

63	A computational growth model for measuring dynamic cortical development in the first year of life. *Cerebral Cortex*, **2012**, 22, 2272-84	5.1	47
62	Cortical thickness and surface area in neonates at high risk for schizophrenia. *Brain Structure and Function*, **2016**, 221, 447-61	4	42
61	An automated pipeline for cortical sulcal fundi extraction. *Medical Image Analysis*, **2010**, 14, 343-59	15.4	42
60	Volume-Based Analysis of 6-Month-Old Infant Brain MRI for Autism Biomarker Identification and Early Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11072, 411-419	0.9	41
59	Developmental topography of cortical thickness during infancy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15855-15860	11.5	37
58	First-year development of modules and hubs in infant brain functional networks. *NeuroImage*, **2019**, 185, 222-235	7.9	36
57	Environmental Influences on Infant Cortical Thickness and Surface Area. *Cerebral Cortex*, **2019**, 29, 1139-1149	5.1	32
56	Simultaneous and consistent labeling of longitudinal dynamic developing cortical surfaces in infants. *Medical Image Analysis*, **2014**, 18, 1274-89	15.4	31
55	Spatiotemporal patterns of cortical fiber density in developing infants, and their relationship with cortical thickness. *Human Brain Mapping*, **2015**, 36, 5183-95	5.9	24
54	Harmonization of Infant Cortical Thickness Using Surface-to-Surface Cycle-Consistent Adversarial Networks. *Lecture Notes in Computer Science*, **2019**, 11767, 475-483	0.9	23
53	Spherical U-Net on Cortical Surfaces: Methods and Applications. *Lecture Notes in Computer Science*, **2019**, 11492, 855-866	0.9	22
52	Cortical surface based identification of brain networks using high spatial resolution resting state FMRI data **2010**,		21
51	Predicting infant cortical surface development using a 4D varifold-based learning framework and local topography-based shape morphing. *Medical Image Analysis*, **2016**, 28, 1-12	15.4	20
50	Joint prediction of longitudinal development of cortical surfaces and white matter fibers from neonatal MRI. *NeuroImage*, **2017**, 152, 411-424	7.9	19
49	Genetic influences on neonatal cortical thickness and surface area. *Human Brain Mapping*, **2018**, 39, 4998-5013	5.9	16
48	Exploring folding patterns of infant cerebral cortex based on multi-view curvature features: Methods and applications. *NeuroImage*, **2019**, 185, 575-592	7.9	16
47	Learning-Based Topological Correction for Infant Cortical Surfaces. *Lecture Notes in Computer Science*, **2016**, 9900, 219-227	0.9	15
46	Multi-Site Infant Brain Segmentation Algorithms: The iSeg-2019 Challenge. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1363-1376	11.7	15

45	Constructing 4D infant cortical surface atlases based on dynamic developmental trajectories of the cortex. *Lecture Notes in Computer Science*, **2014**, 17, 89-96	0.9	14
44	Multi-task prediction of infant cognitive scores from longitudinal incomplete neuroimaging data. *NeuroImage*, **2019**, 185, 783-792	7.9	14
43	Individual identification and individual variability analysis based on cortical folding features in developing infant singletons and twins. *Human Brain Mapping*, **2020**, 41, 1985-2003	5.9	13
42	Anatomy-guided joint tissue segmentation and topological correction for 6-month infant brain MRI with risk of autism. *Human Brain Mapping*, **2018**, 39, 2609-2623	5.9	13
41	Learning-based subject-specific estimation of dynamic maps of cortical morphology at missing time points in longitudinal infant studies. *Human Brain Mapping*, **2016**, 37, 4129-4147	5.9	13
40	Spherical Deformable U-Net: Application to Cortical Surface Parcellation and Development Prediction. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1217-1228	11.7	13
39	Registration-Free Infant Cortical Surface Parcellation using Deep Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2018**, 11072, 672-680	0.9	13
38	Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. *Human Brain Mapping*, **2017**, 38, 2865-2874	5.9	12
37	Construction of 4D infant cortical surface atlases with sharp folding patterns via spherical patch-based group-wise sparse representation. *Human Brain Mapping*, **2019**, 40, 3860-3880	5.9	12
36	4D Infant Cortical Surface Atlas Construction using Spherical Patch-based Sparse Representation. *Lecture Notes in Computer Science*, **2017**, 10433, 57-65	0.9	12
35	Fetal cortical surface atlas parcellation based on growth patterns. *Human Brain Mapping*, **2019**, 40, 3881-3899	5.9	11
34	Topological correction of infant white matter surfaces using anatomically constrained convolutional neural network. *NeuroImage*, **2019**, 198, 114-124	7.9	11
33	Disentangled-Multimodal Adversarial Autoencoder: Application to Infant Age Prediction With Incomplete Multimodal Neuroimages. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4137-4149	11.7	11
32	Discovering cortical sulcal folding patterns in neonates using large-scale dataset. *Human Brain Mapping*, **2018**, 39, 3625-3635	5.9	10
31	Cortical Structure and Cognition in Infants and Toddlers. *Cerebral Cortex*, **2020**, 30, 786-800	5.1	10
30	Infant Brain Development Prediction With Latent Partial Multi-View Representation Learning. *IEEE Transactions on Medical Imaging*, **2019**, 38, 909-918	11.7	9
29	S3Reg: Superfast Spherical Surface Registration Based on Deep Learning. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1964-1976	11.7	8
28	Discovering Cortical Folding Patterns in Neonatal Cortical Surfaces Using Large-Scale Dataset. *Lecture Notes in Computer Science*, **2016**, 9900, 10-18	0.9	6

27	Hierarchical Rough-to-Fine Model for Infant Age Prediction Based on Cortical Features. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 214-225	7.2	6
26	DIKA-Nets: Domain-invariant knowledge-guided attention networks for brain skull stripping of early developing macaques. *NeuroImage*, **2021**, 227, 117649	7.9	6
25	Exploring Gyral Patterns of Infant Cortical Folding based on Multi-view Curvature Information. *Lecture Notes in Computer Science*, **2017**, 10433, 12-20	0.9	5
24	SPHERICAL U-NET FOR INFANT CORTICAL SURFACE PARCELLATION **2019**, 2019, 1882-1886	1.5	4
23	Multi-Regression based supervised sample selection for predicting baby connectome evolution trajectory from neonatal timepoint. *Medical Image Analysis*, **2021**, 68, 101853	15.4	4
22	AUTOMATIC PARCELLATION OF CORTICAL SURFACES USING RANDOM FORESTS **2015**, 2015, 810-813	1.5	3
21	Semi-supervised Transfer Learning for Infant Cerebellum Tissue Segmentation. *Lecture Notes in Computer Science*, **2020**, 12436, 663-673	0.9	3
20	LONGITUDINAL MULTI-SCALE MAPPING OF INFANT CORTICAL FOLDING USING SPHERICAL WAVELETS **2017**, 2017, 93-96	1.5	2
19	Deep Modeling of Growth Trajectories for Longitudinal Prediction of Missing Infant Cortical Surfaces. *Lecture Notes in Computer Science*, **2019**, 277-288	0.9	2
18	A Computational Framework for Dissociating Development-Related from Individually Variable Flexibility in Regional Modularity Assignment in Early Infancy. *Lecture Notes in Computer Science*, **2020**, 12267, 13-21	0.9	2
17	Infant Cognitive Scores Prediction with Multi-stream Attention-Based Temporal Path Signature Features. *Lecture Notes in Computer Science*, **2020**, 12267, 134-144	0.9	2
16	ABCnet: Adversarial bias correction network for infant brain MR images. *Medical Image Analysis*, **2021**, 72, 102133	15.4	2
15	Harmonized neonatal brain MR image segmentation model for cross-site datasets. *Biomedical Signal Processing and Control*, **2021**, 69, 102810	4.9	2
14	Learning 4D Infant Cortical Surface Atlas with Unsupervised Spherical Networks. *Lecture Notes in Computer Science*, **2021**, 262-272	0.9	2
13	CORTICAL FOLDINGPRINTS FOR INFANT IDENTIFICATION **2019**, 2019, 396-399	1.5	1
12	Path Signature Neural Network of Cortical Features for Prediction of Infant Cognitive Scores.. *IEEE Transactions on Medical Imaging*, **2022**, PP,	11.7	1
11	Existence of Functional Connectome Fingerprint During Infancy and Its Stability Over Months. *Journal of Neuroscience*, **2021**,	6.6	1
10	Maternal Obesity during Pregnancy is Associated with Lower Cortical Thickness in the Neonate Brain. *American Journal of Neuroradiology*, **2021**,	4.4	1

9	Construction of Spatiotemporal Infant Cortical Surface Functional Templates. *Lecture Notes in Computer Science*, **2020**, 12267, 238-248	0.9	1
8	Reference-Relation Guided Autoencoder with Deep CCA Restriction for Awake-to-Sleep Brain Functional Connectome Prediction. *Lecture Notes in Computer Science*, **2021**, 231-240	0.9	1
7	A Deep Network for Joint Registration and Parcellation of Cortical Surfaces. *Lecture Notes in Computer Science*, **2021**, 171-181	0.9	1
6	Longitudinal brain atlases of early developing cynomolgus macaques from birth to 48 months of age.. *NeuroImage*, **2021**, 247, 118799	7.9	0
5	A Few-Shot Learning Graph Multi-trajectory Evolution Network for Forecasting Multimodal Baby Connectivity Development from a Baseline Timepoint. *Lecture Notes in Computer Science*, **2021**, 11-24	0.9	0
4	Surface-based analysis of the developing cerebral cortex. *Advances in Magnetic Resonance Technology and Applications*, **2021**, 287-307	0.1	
3	Learning Infant Brain Developmental Connectivity for Cognitive Score Prediction. *Lecture Notes in Computer Science*, **2021**, 228-237	0.9	
2	Longitudinal Parcellation of the Infant Cortex Using Multi-modal Connectome Harmonics. *Mathematics and Visualization*, **2021**, 251-261	0.6	
1	Multi-Scale Self-Supervised Learning for Multi-Site Pediatric Brain MR Image Segmentation with Motion/Gibbs Artifacts.. *Lecture Notes in Computer Science*, **2021**, 12966, 171-179	0.9	