John Gilmore

List of Publications by Citations

293 papers	15,564 citations	70 h-index	118 g-index
319 ext. papers	18,192 ext. citations	4.6 avg, IF	6.57 L-index

#	Paper	IF	Citations
293	A structural MRI study of human brain development from birth to 2 years. *Journal of Neuroscience*, **2008**, 28, 12176-82	6.6	725
292	Magnetic resonance imaging and head circumference study of brain size in autism: birth through age 2 years. *Archives of General Psychiatry*, **2005**, 62, 1366-76		481
291	The early stages of schizophrenia: speculations on pathogenesis, pathophysiology, and therapeutic approaches. *Biological Psychiatry*, **2001**, 50, 884-97	7.9	414
290	Evidence on the emergence of the brain's default network from 2-week-old to 2-year-old healthy pediatric subjects. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6790-5	11.5	394
289	Infant brain atlases from neonates to 1- and 2-year-olds. *PLoS ONE*, **2011**, 6, e18746	3.7	328
288	Regional gray matter growth, sexual dimorphism, and cerebral asymmetry in the neonatal brain. *Journal of Neuroscience*, **2007**, 27, 1255-60	6.6	326
287	Prenatal exposure to maternal infection alters cytokine expression in the placenta, amniotic fluid, and fetal brain. *Schizophrenia Research*, **2001**, 47, 27-36	3.6	318
286	Longitudinal development of cortical and subcortical gray matter from birth to 2 years. *Cerebral Cortex*, **2012**, 22, 2478-85	5.1	311
285	Imaging structural and functional brain development in early childhood. *Nature Reviews Neuroscience*, **2018**, 19, 123-137	13.5	263
284	Family poverty affects the rate of human infant brain growth. *PLoS ONE*, **2013**, 8, e80954	3.7	262
283	Automatic segmentation of MR images of the developing newborn brain. *Medical Image Analysis*, **2005**, 9, 457-66	15.4	258
282	Apoptotic mechanisms and the synaptic pathology of schizophrenia. *Schizophrenia Research*, **2006**, 81, 47-63	3.6	243
281	Intracranial hemorrhage in asymptomatic neonates: prevalence on MR images and relationship to obstetric and neonatal risk factors. *Radiology*, **2007**, 242, 535-41	20.5	240
280	Temporal and spatial development of axonal maturation and myelination of white matter in the developing brain. *American Journal of Neuroradiology*, **2009**, 30, 290-6	4.4	230
279	Infant Gut Microbiome Associated With Cognitive Development. *Biological Psychiatry*, **2018**, 83, 148-159	7.9	207
278	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. *Cerebral Cortex*, **2015**, 25, 2204-12	5.1	200
277	Prenatal infection and risk for schizophrenia: IL-1beta, IL-6, and TNFalpha inhibit cortical neuron dendrite development. *Neuropsychopharmacology*, **2004**, 29, 1221-9	8.7	197

276	Temporal and spatial evolution of brain network topology during the first two years of life. *PLoS ONE*, **2011**, 6, e25278	3.7	190
275	Apoptotic proteins in the temporal cortex in schizophrenia: high Bax/Bcl-2 ratio without caspase-3 activation. *American Journal of Psychiatry*, **2004**, 161, 109-15	11.9	179
274	Functional Connectivity of the Infant Human Brain: Plastic and Modifiable. *Neuroscientist*, **2017**, 23, 169-184	7.6	177
273	Synaptophysin and postsynaptic density protein 95 in the human prefrontal cortex from mid-gestation into early adulthood. *Neuroscience*, **2007**, 149, 582-91	3.9	176
272	Development of human brain cortical network architecture during infancy. *Brain Structure and Function*, **2015**, 220, 1173-86	4	173
271	Exposure to infection and brain development: cytokines in the pathogenesis of schizophrenia. *Schizophrenia Research*, **1997**, 24, 365-7	3.6	173
270	LINKS: learning-based multi-source IntegratioN frameworK for Segmentation of infant brain images. *NeuroImage*, **2015**, 108, 160-72	7.9	168
269	Functional connectivity MR imaging reveals cortical functional connectivity in the developing brain. *American Journal of Neuroradiology*, **2008**, 29, 1883-9	4.4	165
268	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
267	Brain anatomical networks in early human brain development. *NeuroImage*, **2011**, 54, 1862-71	7.9	159
266	Mapping region-specific longitudinal cortical surface expansion from birth to 2 years of age. *Cerebral Cortex*, **2013**, 23, 2724-33	5.1	155
265	Neonatal brain image segmentation in longitudinal MRI studies. *NeuroImage*, **2010**, 49, 391-400	7.9	155
264	Group analysis of DTI fiber tract statistics with application to neurodevelopment. *NeuroImage*, **2009**, 45, S133-42	7.9	154
263	Maternal poly I:C exposure during pregnancy regulates TNF alpha, BDNF, and NGF expression in neonatal brain and the maternal-fetal unit of the rat. *Journal of Neuroimmunology*, **2005**, 159, 106-12	3.5	150
262	Quantitative tract-based white matter development from birth to age 2years. *NeuroImage*, **2012**, 61, 542-57	7.9	149
261	Apoptotic mechanisms in the pathophysiology of schizophrenia. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2005**, 29, 846-58	5.5	148
260	Development trends of white matter connectivity in the first years of life. *PLoS ONE*, **2011**, 6, e24678	3.7	142
259	Cortical bcl-2 protein expression and apoptotic regulation in schizophrenia. *Biological Psychiatry*, **2000**, 48, 641-50	7.9	141

258. The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. *NeuroImage*, **2019**, 185, 891-905 — 7.9 — 140

257. Segmentation of neonatal brain MR images using patch-driven level sets. *NeuroImage*, **2014**, 84, 141-58 — 7.9 — 136

256. LABEL: pediatric brain extraction using learning-based meta-algorithm. *NeuroImage*, **2012**, 62, 1975-86 — 7.9 — 136

255. Maternal Systemic Interleukin-6 During Pregnancy Is Associated With Newborn Amygdala Phenotypes and Subsequent Behavior at 2 Years of Age. *Biological Psychiatry*, **2018**, 83, 109-119 — 7.9 — 133

254. Cytokine regulation of embryonic rat dopamine and serotonin neuronal survival in vitro. *International Journal of Developmental Neuroscience*, **1997**, 15, 711-6 — 2.7 — 130

253. Development of thalamocortical connectivity during infancy and its cognitive correlations. *Journal of Neuroscience*, **2014**, 34, 9067-75 — 6.6 — 129

252. Maternal influenza infection during pregnancy impacts postnatal brain development in the rhesus monkey. *Biological Psychiatry*, **2010**, 67, 965-73 — 7.9 — 128

251. Circulating natural killer cell phenotypes in men and women with major depression. Relation to cytotoxic activity and severity of depression. *Archives of General Psychiatry*, **1992**, 49, 388-95 — 124

250. The synchronization within and interaction between the default and dorsal attention networks in early infancy. *Cerebral Cortex*, **2013**, 23, 594-603 — 5.1 — 116

249. Cytokine effects on cortical neuron MAP-2 immunoreactivity: implications for schizophrenia. *Biological Psychiatry*, **2001**, 50, 743-9 — 7.9 — 112

248. 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

247. Automatic segmentation of neonatal images using convex optimization and coupled level sets. *NeuroImage*, **2011**, 58, 805-17 — 7.9 — 102

246. Common variants in psychiatric risk genes predict brain structure at birth. *Cerebral Cortex*, **2014**, 24, 1230-46 — 100

245. Olanzapine increases allopregnanolone in the rat cerebral cortex. *Biological Psychiatry*, **2000**, 47, 1000-4 — 7.9 — 99

244. Altered structural connectivity in neonates at genetic risk for schizophrenia: a combined study using morphological and white matter networks. *NeuroImage*, **2012**, 62, 1622-33 — 7.9 — 98

243. DTI registration in atlas based fiber analysis of infantile Krabbe disease. *NeuroImage*, **2011**, 55, 1577-86 — 7.9 — 97

242. Genetic and environmental contributions to neonatal brain structure: A twin study. *Human Brain Mapping*, **2010**, 31, 1174-82 — 5.9 — 97

241. 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

240	Early postnatal development of corpus callosum and corticospinal white matter assessed with quantitative tractography. *American Journal of Neuroradiology*, **2007**, 28, 1789-95	4.4	94
239	Recent advances in the neurobiology of schizophrenia. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2003**, 3, 27-39		94
238	Maternal Cortisol Concentrations During Pregnancy and Sex-Specific Associations With Neonatal Amygdala Connectivity and Emerging Internalizing Behaviors. *Biological Psychiatry*, **2019**, 85, 172-181	7.9	92
237	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. *NeuroImage*, **2014**, 90, 266-79	7.9	92
236	Structural and Maturational Covariance in Early Childhood Brain Development. *Cerebral Cortex*, **2017**, 27, 1795-1807	5.1	91
235	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. *Medical Image Analysis*, **2015**, 25, 22-36	15.4	90
234	2D:4D ratios in the first 2 years of life: Stability and relation to testosterone exposure and sensitivity. *Hormones and Behavior*, **2011**, 60, 256-63	3.7	90
233	Maternal Interleukin-6 concentration during pregnancy is associated with variation in frontolimbic white matter and cognitive development in early life. *NeuroImage*, **2019**, 185, 825-835	7.9	87
232	Intergenerational Effect of Maternal Exposure to Childhood Maltreatment on Newborn Brain Anatomy. *Biological Psychiatry*, **2018**, 83, 120-127	7.9	85
231	Construction of multi-region-multi-reference atlases for neonatal brain MRI segmentation. *NeuroImage*, **2010**, 51, 684-93	7.9	84
230	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. *NeuroImage*, **2014**, 100, 206-18	7.9	83
229	Maternal infection regulates BDNF and NGF expression in fetal and neonatal brain and maternal-fetal unit of the rat. *Journal of Neuroimmunology*, **2003**, 138, 49-55	3.5	83
228	Intersubject variability of and genetic effects on the brain's functional connectivity during infancy. *Journal of Neuroscience*, **2014**, 34, 11288-96	6.6	81
227	Integration of sparse multi-modality representation and anatomical constraint for isointense infant brain MR image segmentation. *NeuroImage*, **2014**, 89, 152-64	7.9	80
226	Maturational trajectories of cortical brain development through the pubertal transition: unique species and sex differences in the monkey revealed through structural magnetic resonance imaging. *Cerebral Cortex*, **2010**, 20, 1053-63	5.1	77
225	Associations between white matter microstructure and infants'working memory. *NeuroImage*, **2013**, 64, 156-66	7.9	76
224	Prenatal and neonatal brain structure and white matter maturation in children at high risk for schizophrenia. *American Journal of Psychiatry*, **2010**, 167, 1083-91	11.9	74
223	Implications of newborn amygdala connectivity for fear and cognitive development at 6-months-of-age. *Developmental Cognitive Neuroscience*, **2016**, 18, 12-25	5.5	70

222   Developmental regulation of the NMDA receptor subunits, NR3A and NR1, in human prefrontal cortex. *Cerebral Cortex*, **2008**, 18, 2560-73   5.1   70

221   Comparisons of regional white matter diffusion in healthy neonates and adults performed with a 3.0-T head-only MR imaging unit. *Radiology*, **2003**, 229, 673-81   20.5   70

220   Brain enlargement and increased behavioral and cytokine reactivity in infant monkeys following acute prenatal endotoxemia. *Behavioural Brain Research*, **2011**, 219, 108-15   3.4   69

219   Regional characterization of longitudinal DT-MRI to study white matter maturation of the early developing brain. *NeuroImage*, **2013**, 68, 236-47   7.9   68

218   Impact of sex and gonadal steroids on neonatal brain structure. *Cerebral Cortex*, **2014**, 24, 2721-31   5.1   67

217   Serotonin transporter binding sites and mRNA levels in depressed persons committing suicide. *Biological Psychiatry*, **1997**, 41, 1156-64   7.9   65

216   Longitudinally guided level sets for consistent tissue segmentation of neonates. *Human Brain Mapping*, **2013**, 34, 956-72   5.9   61

215   Consistent anterior-posterior segregation of the insula during the first 2 years of life. *Cerebral Cortex*, **2015**, 25, 1176-87   5.1   60

214   Exploratory study of once-daily transcranial direct current stimulation (tDCS) as a treatment for auditory hallucinations in schizophrenia. *European Psychiatry*, **2016**, 33, 54-60   6   59

213   FADTTS: functional analysis of diffusion tensor tract statistics. *NeuroImage*, **2011**, 56, 1412-25   7.9   59

212   Neurosteroid modulation of embryonic neuronal survival in vitro following anoxia. *Brain Research*, **2000**, 871, 104-12   3.7   58

211   4D multi-modality tissue segmentation of serial infant images. *PLoS ONE*, **2012**, 7, e44596   3.7   55

210   Diffusion tensor imaging detects abnormalities in the corticospinal tracts of neonates with infantile Krabbe disease. *American Journal of Neuroradiology*, **2009**, 30, 1017-21   4.4   55

209   Targeting reduced neural oscillations in patients with schizophrenia by transcranial alternating current stimulation. *NeuroImage*, **2019**, 186, 126-136   7.9   55

208   Prenatal mild ventriculomegaly predicts abnormal development of the neonatal brain. *Biological Psychiatry*, **2008**, 64, 1069-76   7.9   54

207   Randomized trial of transcranial alternating current stimulation for treatment of auditory hallucinations in schizophrenia. *European Psychiatry*, **2018**, 51, 25-33   6   50

206   Multiscale Adaptive Regression Models for Neuroimaging Data. *Journal of the Royal Statistical Society Series B: Statistical Methodology*, **2011**, 73, 559-578   3.9   49

205   Gut microbiome and brain functional connectivity in infants-a preliminary study focusing on the amygdala. *Psychopharmacology*, **2019**, 236, 1641-1651   4.7   49

204	3 Tesla magnetic resonance imaging of the brain in newborns. *Psychiatry Research - Neuroimaging*, **2004**, 132, 81-5	2.9	48
203	Infant cerebral ventricle volume: a comparison of 3-D ultrasound and magnetic resonance imaging. *Ultrasound in Medicine and Biology*, **2001**, 27, 1143-6	3.5	48
202	Outcome in children with fetal mild ventriculomegaly: a case series. *Schizophrenia Research*, **2001**, 48, 219-26	3.6	48
201	Developmental regulation of the dopamine D1 receptor in human caudate and putamen. *Neuropsychopharmacology*, **1999**, 21, 641-9	8.7	48
200	A computational growth model for measuring dynamic cortical development in the first year of life. *Cerebral Cortex*, **2012**, 22, 2272-84	5.1	47
199	Dopamine D1 receptors: efficacy of full (dihydrexidine) vs. partial (SKF38393) agonists in primates vs. rodents. *European Journal of Pharmacology*, **1993**, 242, 165-72	5.3	47
198	Prenatal cocaine effects on brain structure in early infancy. *NeuroImage*, **2014**, 101, 114-23	7.9	44
197	Cortical thickness and surface area in neonates at high risk for schizophrenia. *Brain Structure and Function*, **2016**, 221, 447-61	4	42
196	Practical consideration for 3T imaging. *Magnetic Resonance Imaging Clinics of North America*, **2003**, 11, 615-39, vi	1.6	42
195	Mild ventriculomegaly detected in utero with ultrasound: clinical associations and implications for schizophrenia. *Schizophrenia Research*, **1998**, 33, 133-40	3.6	42
194	Nerve growth factor, brain-derived neurotrophic factor, and neurotrophin-3 levels in human amniotic fluid. *American Journal of Obstetrics and Gynecology*, **1999**, 181, 1225-30	6.4	42
193	Developmental regulation of neural cell adhesion molecule in human prefrontal cortex. *Neuroscience*, **2009**, 162, 96-105	3.9	41
192	Common and heritable components of white matter microstructure predict cognitive function at 1 and 2 y. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 148-153	11.5	39
191	Longitudinal development of cortical thickness, folding, and fiber density networks in the first 2 years of life. *Human Brain Mapping*, **2014**, 35, 3726-37	5.9	39
190	Diffusion tensor imaging-based characterization of brain neurodevelopment in primates. *Cerebral Cortex*, **2013**, 23, 36-48	5.1	39
189	White matter heritability using diffusion tensor imaging in neonatal brains. *Twin Research and Human Genetics*, **2012**, 15, 336-50	2.2	38
188	Antenatal depression, treatment with selective serotonin reuptake inhibitors, and neonatal brain structure: A propensity-matched cohort study. *Psychiatry Research - Neuroimaging*, **2016**, 253, 43-53	2.9	37
187	Genetic influences on individual differences in longitudinal changes in global and subcortical brain volumes: Results of the ENIGMA plasticity working group. *Human Brain Mapping*, **2017**, 38, 4444-4458	5.9	37

186	Network-Level Connectivity Dynamics of Movie Watching in 6-Year-Old Children. *Frontiers in Human Neuroscience*, **2015**, 9, 631	3.3	36
185	Pro-apoptotic Par-4 and dopamine D2 receptor in temporal cortex in schizophrenia, bipolar disorder and major depression. *Schizophrenia Research*, **2010**, 118, 292-9	3.6	35
184	Quantitative tract-based white matter heritability in twin neonates. *NeuroImage*, **2015**, 111, 123-35	7.9	34
183	CENTS: cortical enhanced neonatal tissue segmentation. *Human Brain Mapping*, **2011**, 32, 382-96	5.9	34
182	"Full" dopamine D1 agonists in human caudate: biochemical properties and therapeutic implications. *Neuropharmacology*, **1995**, 34, 481-8	5.5	33
181	Neonatal atlas construction using sparse representation. *Human Brain Mapping*, **2014**, 35, 4663-77	5.9	32
180	Environmental Influences on Infant Cortical Thickness and Surface Area. *Cerebral Cortex*, **2019**, 29, 1139-1149	5.1	32
179	Impact of Demographic and Obstetric Factors on Infant Brain Volumes: A Population Neuroscience Study. *Cerebral Cortex*, **2017**, 27, 5616-5625	5.1	31
178	Developmental expression of Bcl-2 protein in human cortex. *Developmental Brain Research*, **2000**, 119, 225-30		31
177	Prenatal isolated mild ventriculomegaly is associated with persistent ventricle enlargement at ages 1 and 2. *Early Human Development*, **2012**, 88, 691-8	2.2	30
176	Multiscale adaptive generalized estimating equations for longitudinal neuroimaging data. *NeuroImage*, **2013**, 72, 91-105	7.9	30
175	The dynamic reorganization of the default-mode network during a visual classification task. *Frontiers in Systems Neuroscience*, **2013**, 7, 34	3.5	29
174	Frequency of spontaneous BOLD signal shifts during infancy and correlates with cognitive performance. *Developmental Cognitive Neuroscience*, **2015**, 12, 40-50	5.5	28
173	SPHERE: SPherical Harmonic Elastic REgistration of HARDI data. *NeuroImage*, **2011**, 55, 545-56	7.9	28
172	Clomipramine challenge responses covary with Tridimensional Personality Questionnaire scores in healthy subjects. *Biological Psychiatry*, **1997**, 42, 1123-9	7.9	28
171	Caspase-3 activation in rat frontal cortex following treatment with typical and atypical antipsychotics. *Neuropsychopharmacology*, **2007**, 32, 95-102	8.7	28
170	FRATS: Functional Regression Analysis of DTI Tract Statistics. *IEEE Transactions on Medical Imaging*, **2010**, 29, 1039-49	11.7	27
169	Improved correspondence for DTI population studies via unbiased atlas building. *Lecture Notes in Computer Science*, **2006**, 9, 260-7	0.9	27

168	Functional Brain Parcellations of the Infant Brain and the Associated Developmental Trends. *Cerebral Cortex*, **2018**, 28, 1358-1368	5.1	26
167	A review on neuroimaging studies of genetic and environmental influences on early brain development. *NeuroImage*, **2019**, 185, 802-812	7.9	26
166	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
165	Interhemispheric modulation of dopamine receptor interactions in unilateral 6-OHDA rodent model. *Synapse*, **1995**, 21, 299-311	2.4	24
164	Postmortem stability of dopamine D1 receptor mRNA and D1 receptors. *Molecular Brain Research*, **1993**, 18, 290-6		24
163	White matter microstructural development and cognitive ability in the first 2 years of life. *Human Brain Mapping*, **2019**, 40, 1195-1210	5.9	24
162	Adaptive prior probability and spatial temporal intensity change estimation for segmentation of the one-year-old human brain. *Journal of Neuroscience Methods*, **2013**, 212, 43-55	3	23
161	Spherical U-Net on Cortical Surfaces: Methods and Applications. *Lecture Notes in Computer Science*, **2019**, 11492, 855-866	0.9	22
160	Newborn amygdala connectivity and early emerging fear. *Developmental Cognitive Neuroscience*, **2019**, 37, 100604	5.5	22
159	White matter connectomes at birth accurately predict cognitive abilities at age 2. *NeuroImage*, **2019**, 192, 145-155	7.9	21
158	Development of Amygdala Functional Connectivity During Infancy and Its Relationship With 4-Year Behavioral Outcomes. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2019**, 4, 62-71	3.4	20
157	Twin-singleton differences in neonatal brain structure. *Twin Research and Human Genetics*, **2011**, 14, 268-76	2.2	19
156	Resting state network topology of the ferret brain. *NeuroImage*, **2016**, 143, 70-81	7.9	19
155	PopTract: population-based tractography. *IEEE Transactions on Medical Imaging*, **2011**, 30, 1829-40	11.7	18
154	Understanding what causes schizophrenia: a developmental perspective. *American Journal of Psychiatry*, **2010**, 167, 8-10	11.9	18
153	Neurotrophin-3 levels in the cerebrospinal fluid of patients with schizophrenia or medical illness. *Psychiatry Research*, **1997**, 73, 109-13	9.9	18
152	FMEM: functional mixed effects modeling for the analysis of longitudinal white matter Tract data. *NeuroImage*, **2014**, 84, 753-64	7.9	17
151	Genome-wide association analysis identifies common variants influencing infant brain volumes. *Translational Psychiatry*, **2017**, 7, e1188	8.6	17

150 Genetic influences on neonatal cortical thickness and surface area. *Human Brain Mapping*, **2018**, 39, 4998-5013 5.9 16

149 Exploring folding patterns of infant cerebral cortex based on multi-view curvature features: Methods and applications. *NeuroImage*, **2019**, 185, 575-592 7.9 16

148 Rate of Chiari I malformation in children of mothers with depression with and without prenatal SSRI exposure. *Neuropsychopharmacology*, **2014**, 39, 2611-21 8.7 16

147 SGPP: spatial Gaussian predictive process models for neuroimaging data. *NeuroImage*, **2014**, 89, 70-80 7.9 16

146 Fetal brain development of twins assessed in utero by ultrasound: implications for schizophrenia. *Schizophrenia Research*, **1996**, 19, 141-9 3.6 16

145 Management of Medical Illness in Persons With Schizophrenia. *Psychiatric Annals*, **2000**, 30, 35-40 0.5 16

144 Regulation of complexin 1 and complexin 2 in the developing human prefrontal cortex. *Synapse*, **2008**, 62, 273-82 2.4 15

143 Altered prolactin response to clomipramine rechallenge in healthy subjects. *Biological Psychiatry*, **1993**, 34, 885-8 7.9 15

142 Brain charts for the human lifespan.. *Nature*, **2022**, 50.4 15

141 A naturalistic comparison of the long-term metabolic adverse effects of clozapine versus other antipsychotics for patients with psychotic illnesses. *Journal of Clinical Psychopharmacology*, **2014**, 34, 441-5 1.7 14

140 Projection regression models for multivariate imaging phenotype. *Genetic Epidemiology*, **2012**, 36, 631-41 1.6 14

139 Identifying priorities for patient-centered outcomes research for serious mental illness. *Psychiatric Services*, **2012**, 63, 1125-30 3.3 14

138 Automatic brain segmentation in rhesus monkeys **2007**, 6512, 883 14

137 Maternal Immune Activation Alters Adult Behavior, Gut Microbiome and Juvenile Brain Oscillations in Ferrets. *ENeuro*, **2018**, 5, 3.9 14

136 A cortical shape-adaptive approach to local gyrification index. *Medical Image Analysis*, **2018**, 48, 244-258 15.4 14

135 Emergence of a hierarchical brain during infancy reflected by stepwise functional connectivity. *Human Brain Mapping*, **2017**, 38, 2666-2682 5.9 13

134 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

133 TwinMARM: two-stage multiscale adaptive regression methods for twin neuroimaging data. *IEEE Transactions on Medical Imaging*, **2012**, 31, 1100-12 11.7 13

132	Twin-singleton developmental study of brain white matter anatomy. *Human Brain Mapping*, **2017**, 38, 1009-1024	5.9	13
131	Longitudinal regression analysis of spatial-temporal growth patterns of geometrical diffusion measures in early postnatal brain development with diffusion tensor imaging. *NeuroImage*, **2011**, 58, 993-1005	7.9	13
130	Quantitative Analysis of White Matter Fiber Properties along Geodesic Paths. *Lecture Notes in Computer Science*, **2003**, 16-23	0.9	13
129	The effects of age, gender, and season on serotonergic function in healthy subjects. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **1996**, 20, 1315-23	5.5	13
128	Serotonin and Mood Disorders. *Psychiatric Annals*, **1990**, 20, 580-586	0.5	13
127	Spherical Deformable U-Net: Application to Cortical Surface Parcellation and Development Prediction. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1217-1228	11.7	13
126	Registration-Free Infant Cortical Surface Parcellation using Deep Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2018**, 11072, 672-680	0.9	13
125	Fiber tract-oriented statistics for quantitative diffusion tensor MRI analysis. *Lecture Notes in Computer Science*, **2005**, 8, 131-9	0.9	13
124	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
123	The Predictive Value of Developmental Assessments at 1 and 2 for Intelligence Quotients at 6. *Intelligence*, **2018**, 68, 58-65	3	12
122	Lateral ventricle morphology analysis via mean latitude axis. *Proceedings of SPIE*, **2013**, 8672,	1.7	12
121	Lack of pineal beta-adrenergic receptor alterations in suicide victims with major depression. *Psychoneuroendocrinology*, **1997**, 22, 53-62	5	12
120	Learning-based meta-algorithm for MRI brain extraction. *Lecture Notes in Computer Science*, **2011**, 14, 313-21	0.9	12
119	A novel maturation index based on neonatal diffusion tensor imaging reflects typical perinatal white matter development in humans. *International Journal of Developmental Neuroscience*, **2017**, 56, 42-51	2.7	11
118	Environmental and genetic contributors to salivary testosterone levels in infants. *Frontiers in Endocrinology*, **2014**, 5, 187	5.7	11
117	Analysis of ependymal abnormalities in subjects with schizophrenia, bipolar disorder, and depression. *Schizophrenia Research*, **2002**, 57, 267-71	3.6	11
116	Altered Brain Structure in Infants with Turner Syndrome. *Cerebral Cortex*, **2020**, 30, 587-596	5.1	11
115	Discovering cortical sulcal folding patterns in neonates using large-scale dataset. *Human Brain Mapping*, **2018**, 39, 3625-3635	5.9	10

114	Cortical multisensory connectivity is present near birth in humans. *Brain Imaging and Behavior*, **2017**, 11, 1207-1213	4.1	10
113	A NEW FRAMEWORK FOR ANALYZING WHITE MATTER MATURATION IN EARLY BRAIN DEVELOPMENT **2010**, 97-100	1.5	10
112	Group statistics of DTI fiber bundles using spatial functions of tensor measures. *Lecture Notes in Computer Science*, **2008**, 11, 1068-75	0.9	10
111	Cortical Structure and Cognition in Infants and Toddlers. *Cerebral Cortex*, **2020**, 30, 786-800	5.1	10
110	Early Postnatal Myelin Content Estimate of White Matter via T1w/T2w Ratio. *Proceedings of SPIE*, **2015**, 9417,	1.7	9
109	Antidepressant challenge tests: the interface of pharmacokinetics and pharmacodynamics. *Psychopharmacology Bulletin*, **1991**, 27, 611-7	0.9	9
108	White Matter Development from Birth to 6 Years of Age: A Longitudinal Study. *Cerebral Cortex*, **2020**, 30, 6152-6168	5.1	8
107	Early Development of Network Oscillations in the Ferret Visual Cortex. *Scientific Reports*, **2017**, 7, 17766	4.9	8
106	Longitudinal tractography with application to neuronal fiber trajectory reconstruction in neonates. *Lecture Notes in Computer Science*, **2011**, 14, 66-73	0.9	8
105	Neonatal White Matter Maturation Is Associated With Infant Language Development. *Frontiers in Human Neuroscience*, **2019**, 13, 434	3.3	8
104	Placental genomic risk scores and early neurodevelopmental outcomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
103	Verbal and nonverbal predictors of executive function in early childhood. *Journal of Cognition and Development*, **2018**, 19, 182-200	2.5	7
102	3D of Brain Shape and Volume After Cranial Vault Remodeling Surgery for Craniosynostosis Correction in Infants. *Proceedings of SPIE*, **2013**, 8672, 86720V	1.7	7
101	MULTIVARIATE MODELING OF LONGITUDINAL MRI IN EARLY BRAIN DEVELOPMENT WITH CONFIDENCE MEASURES **2013**, 1400-1403	1.5	7
100	Early onset schizophrenia in a patient with premature birth, germinal matrix hemorrhage and periventricular leukomalacia. *Schizophrenia Research*, **2000**, 44, 158-60	3.6	7
99	The Subgrouping Structure of Newborns with Heterogenous Brain-Behavior Relationships. *Cerebral Cortex*, **2021**, 31, 301-311	5.1	7
98	Population variation in neuroendocrine activity is associated with behavioral inhibition and hemispheric brain structure in young rhesus monkeys. *Psychoneuroendocrinology*, **2014**, 47, 56-67	5	6
97	VARYING COEFFICIENT MODEL FOR MODELING DIFFUSION TENSORS ALONG WHITE MATTER TRACTS. *Annals of Applied Statistics*, **2013**, 7, 102-125	2.1	6

96	Discordance of prenatal and neonatal brain development in twins. *Early Human Development*, **2009**, 85, 171-5	2.2	6
95	Fetal and neonatal brain development. *American Journal of Psychiatry*, **2006**, 163, 2046	11.9	6
94	Risperidone-induced dystonic reaction. *American Journal of Psychiatry*, **1996**, 153, 577	11.9	6
93	Spatial-Temporal Constraint for Segmentation of Serial Infant Brain MR Images. *Lecture Notes in Computer Science*, **2010**, 42-50	0.9	6
92	Multivariate varying coefficient models for DTI tract statistics. *Lecture Notes in Computer Science*, **2010**, 13, 690-7	0.9	6
91	Discovering Cortical Folding Patterns in Neonatal Cortical Surfaces Using Large-Scale Dataset. *Lecture Notes in Computer Science*, **2016**, 9900, 10-18	0.9	6
90	Image registration driven by combined probabilistic and geometric descriptors. *Lecture Notes in Computer Science*, **2010**, 13, 602-9	0.9	6
89	Quantitative tract-based white matter heritability in 1- and 2-year-old twins. *Human Brain Mapping*, **2019**, 40, 1164-1173	5.9	6
88	Individual differences in neonatal white matter are associated with executive function at 3 years of age. *Brain Structure and Function*, **2019**, 224, 3159-3169	4	5
87	White matter development in infants at risk for schizophrenia. *Schizophrenia Research*, **2019**, 210, 107-114	3.6	5
86	Neonatal hippocampal volume moderates the effects of early postnatal enrichment on cognitive development. *Developmental Cognitive Neuroscience*, **2020**, 45, 100820	5.5	5
85	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
84	More insights into early brain development through statistical analyses of eigen-structural elements of diffusion tensor imaging using multivariate adaptive regression splines. *Brain Structure and Function*, **2014**, 219, 551-69	4	5
83	Brain Tissue Segmentation of Neonatal MR Images Using a Longitudinal Subject-specific Probabilistic Atlas. *Proceedings of SPIE*, **2009**, 7259,	1.7	5
82	Efficient Probabilistic and Geometric Anatomical Mapping Using Particle Mesh Approximation on GPUs. *International Journal of Biomedical Imaging*, **2011**, 2011, 572187	5.2	5
81	A longitudinal functional analysis framework for analysis of white matter tract statistics. *Lecture Notes in Computer Science*, **2013**, 23, 220-31	0.9	5
80	FSEM: Functional Structural Equation Models for Twin Functional Data. *Journal of the American Statistical Association*, **2019**, 114, 344-357	2.8	5
79	CONSTRUCTION OF SPATIOTEMPORAL NEONATAL CORTICAL SURFACE ATLASES USING A LARGE-SCALE DATASET **2018**, 2018, 1056-1059	1.5	5

78	SPHERICAL U-NET FOR INFANT CORTICAL SURFACE PARCELLATION **2019**, 2019, 1882-1886	1.5	4
77	Neonatal brain connectivity outliers identify over forty percent of IQ outliers at 4 years of age. *Brain and Behavior*, **2020**, 10, e01846	3.4	4
76	Personalized connectome fingerprints: Their importance in cognition from childhood to adult years. *NeuroImage*, **2020**, 221, 117122	7.9	4
75	Brain structure in sagittal craniosynostosis. *Proceedings of SPIE*, **2017**, 10137,	1.7	4
74	Spatio-Temporal Analysis of Early Brain Development. *Conference Record of the Asilomar Conference on Signals, Systems and Computers*, **2010**, 2010, 777-781	0.3	4
73	STATISTICAL GROWTH MODELING OF LONGITUDINAL DT-MRI FOR REGIONAL CHARACTERIZATION OF EARLY BRAIN DEVELOPMENT **2012**, 1507-1510	1.5	4
72	Mapping growth patterns and genetic influences on early brain development in twins. *Lecture Notes in Computer Science*, **2009**, 12, 232-9	0.9	4
71	Atlas construction via dictionary learning and group sparsity. *Lecture Notes in Computer Science*, **2012**, 15, 247-55	0.9	4
70	Integration of sparse multi-modality representation and geometrical constraint for isointense infant brain segmentation. *Lecture Notes in Computer Science*, **2013**, 16, 703-10	0.9	4
69	Hippocampal functional connectivity development during the first two years indexes 4-year working memory performance. *Cortex*, **2021**, 138, 165-177	3.8	4
68	Newborn insula gray matter volume is prospectively associated with early life adiposity gain. *International Journal of Obesity*, **2017**, 41, 1434-1439	5.5	3
67	Multi-contrast diffusion tensor image registration with structural MRI **2012**,		3
66	Towards Analysis of Growth Trajectory through Multi-modal Longitudinal MR Imaging. *Proceedings of SPIE*, **2010**, 7623,	1.7	3
65	Automatic regional analysis of DTI properties in the developmental macaque brain **2008**,		3
64	Extra-axial Cerebrospinal Fluid Relationships to Infant Brain Structure, Cognitive Development, and Risk for Schizophrenia. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2020**, 5, 651-659	3.4	3
63	Intrinsic Patch-Based Cortical Anatomical Parcellation Using Graph Convolutional Neural Network on Surface Manifold. *Lecture Notes in Computer Science*, **2019**, 11766, 492-500	0.9	3
62	Parcellation of Infant Surface Atlas Using Developmental Trajectories of Multidimensional Cortical Attributes. *Lecture Notes in Computer Science*, **2015**, 9351, 543-550	0.9	3
61	Accurate and Consistent 4D Segmentation of Serial Infant Brain MR Images. *Lecture Notes in Computer Science*, **2011**, 93-101	0.9	3

60	Subject-specific prediction using nonlinear population modeling: application to early brain maturation from DTI. *Lecture Notes in Computer Science*, **2014**, 17, 33-40	0.9	3
59	LINKS: Learning-Based Multi-source IntegratioN FrameworK for Segmentation of Infant Brain Images. *Lecture Notes in Computer Science*, **2014**, 22-33	0.9	3
58	Neonatal brain volume as a marker of differential susceptibility to parenting quality and its association with neurodevelopment across early childhood. *Developmental Cognitive Neuroscience*, **2020**, 45, 100826	5.5	3
57	Estimation for the bivariate quantile varying coefficient model with application to diffusion tensor imaging data analysis. *Biostatistics*, **2021**,	3.7	3
56	White Matter Fiber-based Analysis of T1w/T2w Ratio Map. *Proceedings of SPIE*, **2017**, 10133,	1.7	2
55	CONSTRUCTION OF 4D NEONATAL CORTICAL SURFACE ATLASES USING WASSERSTEIN DISTANCE **2019**, 2019, 995-998	1.5	2
54	Novel Local Shape-Adaptive Gyrification Index with Application to Brain Development. *Lecture Notes in Computer Science*, **2017**, 31-39	0.9	2
53	Semiparametric Bayesian local functional models for diffusion tensor tract statistics. *NeuroImage*, **2012**, 63, 460-74	7.9	2
52	SPATIOTEMPORAL MODELING OF DISCRETE-TIME DISTRIBUTION-VALUED DATA APPLIED TO DTI TRACT EVOLUTION IN INFANT NEURODEVELOPMENT **2013**, 2013, 684-687	1.5	2
51	Changes of MR and DTI appearance in early human brain development. *Proceedings of SPIE*, **2010**, 7623,	1.7	2
50	A rapid and efficient method for the radiosynthesis and purification of [125I]SCH23982. *Journal of Neuroscience Methods*, **1993**, 49, 141-53	3	2
49	LONGITUDINAL MULTI-SCALE MAPPING OF INFANT CORTICAL FOLDING USING SPHERICAL WAVELETS **2017**, 2017, 93-96	1.5	2
48	Semi-supervised VAE-GAN for Out-of-Sample Detection Applied to MRI Quality Control. *Lecture Notes in Computer Science*, **2019**, 127-136	0.9	2
47	Individual Variation of Human Cortical Structure Is Established in the First Year of Life. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2020**, 5, 971-980	3.4	2
46	Early Development of Infants with Turner Syndrome. *Journal of Developmental and Behavioral Pediatrics*, **2020**, 41, 470-479	2.4	2
45	Maternal trait anxiety symptoms, frontolimbic resting-state functional connectivity, and cognitive development in infancy. *Developmental Psychobiology*, **2021**, 63, e22166	3	2
44	gene network in the prefrontal cortex is associated with total brain volume in childhood. *Journal of Psychiatry and Neuroscience*, **2020**, 46, E154-E163	4.5	2
43	Prospective association of maternal psychosocial stress in pregnancy with newborn hippocampal volume and implications for infant social-emotional development. *Neurobiology of Stress*, **2021**, 15, 100368	7.6	2

#	Title		
42	CORTICAL FOLDINGPRINTS FOR INFANT IDENTIFICATION **2019**, 2019, 396-399	1.5	1
41	O10.3. EARLY BRAIN AND COGNITIVE DEVELOPMENT IN CHILDREN AT RISK FOR SCHIZOPHRENIA. *Schizophrenia Bulletin*, **2018**, 44, S103-S104	1.3	1
40	Longitudinal multi-scale mapping of infant cortical folding using spherical wavelets **2017**,		1
39	PARAMETRIC REGRESSION SCHEME FOR DISTRIBUTIONS: ANALYSIS OF DTI FIBER TRACT DIFFUSION CHANGES IN EARLY BRAIN DEVELOPMENT **2014**, 2014, 559-562	1.5	1
38	Fiber feature map based landmark initialization for highly deformable DTI registration. *Proceedings of SPIE*, **2013**, 8669,	1.7	1
37	Measuring longitudinally dynamic cortex development in infants by reconstruction of consistent cortical surfaces **2013**,		1
36	Patch-driven neonatal brain MRI segmentation with sparse representation and level sets **2013**,		1
35	SPATIAL INTENSITY PRIOR CORRECTION FOR TISSUE SEGMENTATION IN THE DEVELOPING HUMAN BRAIN **2011**, 2049-2052	1.5	1
34	LONGITUDINAL GROWTH MODELING OF DISCRETE-TIME FUNCTIONS WITH APPLICATION TO DTI TRACT EVOLUTION IN EARLY NEURODEVELOPMENT **2013**, 2012, 1945-1400	1.5	1
33	Neuroimaging, Neurodevelopment, and Schizophrenia. *Child and Adolescent Psychiatric Clinics of North America*, **1997**, 6, 325-342	3.3	1
32	Multivariate longitudinal statistics for neonatal-pediatric brain tissue development **2008**,		1
31	Factors related to psychiatric consultation for schizophrenic patients receiving medical care. *Psychiatric Services*, **1994**, 45, 1233-5	3.3	1
30	Confounding variables in neuroendocrine challenge tests: what we need to control for. *Clinical Neuropharmacology*, **1992**, 15 Suppl 1 Pt A, 210A-211A	1.4	1
29	Neurodegenerative models of schizophrenia **2004**, 373-389		1
28	Maternal infection, cytokines and risk for schizophrenia **2005**, 96-106		1
27	Spatiotemporal Modeling for Image Time Series with Appearance Change: Application to Early Brain Development. *Lecture Notes in Computer Science*, **2019**, 174-185	0.9	1
26	Model selection for spatiotemporal modeling of early childhood sub-cortical development. *Proceedings of SPIE*, **2019**, 10949,	1.7	1
25	Hierachical Spherical Harmonics Based Deformable HARDI Registration. *Lecture Notes in Computer Science*, **2010**, 228-236	0.9	1

24	HFPRM: Hierarchical Functional Principal Regression Model for Diffusion Tensor Image Bundle Statistics. *Lecture Notes in Computer Science*, **2017**, 10265, 478-489	0.9	1
23	Automatic Segmentation of Neonatal Images Using Convex Optimization and Coupled Level Set Method. *Lecture Notes in Computer Science*, **2010**, 1-10	0.9	1
22	Joint Segmentation and Registration for Infant Brain Images. *Lecture Notes in Computer Science*, **2014**, 13-21	0.9	1
21	Canonical correlation analysis for elliptical copulas. *Journal of Multivariate Analysis*, **2021**, 183, 104715-104715	0.7	1
20	Subject-specific Estimation of Missing Cortical Thickness Maps in Developing Infant Brains. *Lecture Notes in Computer Science*, **2016**, 9601, 83-92	0.9	1
19	Subdural Hemorrhage in Asymptomatic Neonates: Neurodevelopmental Outcomes and MRI Findings at 2 Years. *Radiology*, **2021**, 298, 173-179	20.5	1
18	Developmental heatmaps of brain functional connectivity from newborns to 6-year-olds. *Developmental Cognitive Neuroscience*, **2021**, 50, 100976	5.5	1
17	The Reliability of Computer-Processed EEG in the Determination of ECT Seizure Duration. *Convulsive Therapy*, **1991**, 7, 166-174		1
16	Genome-Wide Association Analysis of Neonatal White Matter Microstructure. *Cerebral Cortex*, **2021**, 31, 933-948	5.1	0
15	Impact of gonadectomy on maturational changes in brain volume in adolescent macaques. *Psychoneuroendocrinology*, **2021**, 124, 105068	5	0
14	Diffusion Tensor Based White Matter Tract Atlases for Pediatric Populations.. *Frontiers in Neuroscience*, **2022**, 16, 806268	5.1	0
13	Exposure to prenatal maternal distress and infant white matter neurodevelopment.. *Development and Psychopathology*, **2021**, 33, 1526-1538	4.3	0
12	Cortical Surface-Based Construction of Individual Structural Network with Application to Early Brain Development Study. *Lecture Notes in Computer Science*, **2015**, 9351, 560-568	0.9	
11	Commentary: The neonatal brain and the challenge of imaging biomarkers, reflections on Batalle et al. (2018). *Journal of Child Psychology and Psychiatry and Allied Disciplines*, **2018**, 59, 372-373	7.9	
10	Maternal Depression and Structural Covariance of the Amygdala in Early Childhood. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2019**, 4, 936-937	3.4	
9	3D Tensor Normalization for Improved Accuracy in DTI Tensor Registration Methods. *Lecture Notes in Computer Science*, **2012**, 170-179	0.9	
8	NEONATAL BRAIN MRI SEGMENTATION BY BUILDING MULTI-REGION-MULTI-REFERENCE ATLASES **2010**, 2010, 964-967	1.5	
7	Dr. Gilmore Replies. *American Journal of Psychiatry*, **2010**, 167, 718-718	11.9	

6	Early Childhood Brain Development and Schizophrenia: An Imaging Perspective **2020**, 303-317	
5	Turner syndrome: language profile of young girls at 12 and 24 months of age. *Journal of Neurodevelopmental Disorders*, **2021**, 13, 52	4.6
4	Revealing Developmental Regionalization of Infant Cerebral Cortex Based on Multiple Cortical Properties. *Lecture Notes in Computer Science*, **2019**, 11765, 841-849	0.9
3	Reconstruction of fiber trajectories via population-based estimation of local orientations. *Lecture Notes in Computer Science*, **2011**, 14, 133-40	0.9
2	Two-Stage Multiscale Adaptive Regression Methods for Twin Neuroimaging Data. *Lecture Notes in Computer Science*, **2011**, 102-109	0.9
1	Learning Infant Brain Developmental Connectivity for Cognitive Score Prediction. *Lecture Notes in Computer Science*, **2021**, 228-237	0.9