

# Andre F Marquand

## List of Publications by Year in descending order

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Version: 2024-02-01

114  
papers

9,934  
citations

47006

47  
h-index

45317

90  
g-index

148  
all docs

148  
docs citations

148  
times ranked

11684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Support Vector Machine to identify imaging biomarkers of neurological and psychiatric disease: A critical review. <i>Neuroscience and Biobehavioral Reviews</i> , 2012, 36, 1140-1152.	6.1	854
2	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020, 367, .	12.6	450
3	Understanding Heterogeneity in Clinical Cohorts Using Normative Models: Beyond Case-Control Studies. <i>Biological Psychiatry</i> , 2016, 80, 552-561.	1.3	376
4	Describing the Brain in Autism in Five Dimensionsâ€™Magnetic Resonance Imaging-Assisted Diagnosis of Autism Spectrum Disorder Using a Multiparameter Classification Approach. <i>Journal of Neuroscience</i> , 2010, 30, 10612-10623.	3.6	369
5	PRoNTo: Pattern Recognition for Neuroimaging Toolbox. <i>Neuroinformatics</i> , 2013, 11, 319-337.	2.8	367
6	Investigating the predictive value of whole-brain structural MR scans in autism: A pattern classification approach. <i>NeuroImage</i> , 2010, 49, 44-56.	4.2	361
7	Pattern Classification of Sad Facial Processing: Toward the Development of Neurobiological Markers in Depression. <i>Biological Psychiatry</i> , 2008, 63, 656-662.	1.3	298
8	Mapping the Heterogeneous Phenotype of Schizophrenia and Bipolar Disorder Using Normative Models. <i>JAMA Psychiatry</i> , 2018, 75, 1146.	11.0	290
9	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	12.8	250
10	From estimating activation locality to predicting disorder: A review of pattern recognition for neuroimaging-based psychiatric diagnostics. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 57, 328-349.	6.1	241
11	Evaluating the evidence for biotypes of depression: Methodological replication and extension of. <i>NeuroImage: Clinical</i> , 2019, 22, 101796.	2.7	232
12	Conceptualizing mental disorders as deviations from normative functioning. <i>Molecular Psychiatry</i> , 2019, 24, 1415-1424.	7.9	222
13	Quantitative prediction of subjective pain intensity from whole-brain fMRI data using Gaussian processes. <i>NeuroImage</i> , 2010, 49, 2178-2189.	4.2	218
14	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	14.8	213
15	Connectopic mapping with resting-state fMRI. <i>NeuroImage</i> , 2018, 170, 83-94.	4.2	203
16	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019, 51, 1624-1636.	21.4	192
17	Prognostic prediction of therapeutic response in depression using high-field MR imaging. <i>NeuroImage</i> , 2011, 55, 1497-1503.	4.2	182
18	Beyond Lumping and Splitting: A Review of Computational Approaches for Stratifying Psychiatric Disorders. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 433-447.	1.5	148

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19	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017, 11, 1497-1514.	2.1	144
20	Brain aging in major depressive disorder: results from the ENIGMA major depressive disorder working group. <i>Molecular Psychiatry</i> , 2021, 26, 5124-5139.	7.9	136
21	Integrating Neurobiological Markers of Depression. <i>Archives of General Psychiatry</i> , 2010, 68, 361.	12.3	130
22	Predicting long-term outcome of Internet-delivered cognitive behavior therapy for social anxiety disorder using fMRI and support vector machine learning. <i>Translational Psychiatry</i> , 2015, 5, e530-e530.	4.8	129
23	Functional corticostriatal connection topographies predict goal-directed behaviour in humans. <i>Nature Human Behaviour</i> , 2017, 1, 0146.	12.0	126
24	Individual differences <i>v.</i> the average patient: mapping the heterogeneity in ADHD using normative models. <i>Psychological Medicine</i> , 2020, 50, 314-323.	4.5	113
25	Patient classification as an outlier detection problem: An application of the One-Class Support Vector Machine. <i>NeuroImage</i> , 2011, 58, 793-804.	4.2	112
26	Neuroanatomy of verbal working memory as a diagnostic biomarker for depression. <i>NeuroReport</i> , 2008, 19, 1507-1511.	1.2	111
27	Frequency-specific directed interactions in the human brain network for language. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8083-8088.	7.1	105
28	Pattern classification of response inhibition in ADHD: Toward the development of neurobiological markers for ADHD. <i>Human Brain Mapping</i> , 2014, 35, 3083-3094.	3.6	104
29	Testâ€“retest reliability of the BOLD pharmacological MRI response to ketamine in healthy volunteers. <i>NeuroImage</i> , 2013, 64, 75-90.	4.2	103
30	Using genetic, cognitive and multi-modal neuroimaging data to identify ultra-high-risk and first-episode psychosis at the individual level. <i>Psychological Medicine</i> , 2013, 43, 2547-2562.	4.5	97
31	Dissecting the Heterogeneous Cortical Anatomy of Autism Spectrum Disorder Using Normative Models. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 567-578.	1.5	97
32	From pattern classification to stratification: towards conceptualizing the heterogeneity of Autism Spectrum Disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 104, 240-254.	6.1	88
33	Subregional hippocampal deformations in major depressive disorder. <i>Journal of Affective Disorders</i> , 2010, 126, 272-277.	4.1	87
34	Predicting the Naturalistic Course of Major Depressive Disorder Using Clinical and Multimodal Neuroimaging Information: A Multivariate Pattern Recognition Study. <i>Biological Psychiatry</i> , 2015, 78, 278-286.	1.3	87
35	Predicting the naturalistic course of depression from a wide range of clinical, psychological, and biological data: a machine learning approach. <i>Translational Psychiatry</i> , 2018, 8, 241.	4.8	87
36	Disorder-Specific Predictive Classification of Adolescents with Attention Deficit Hyperactivity Disorder (ADHD) Relative to Autism Using Structural Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2013, 8, e63660.	2.5	85

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37	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 260-270.	1.5	82
38	Pattern Classification of Working Memory Networks Reveals Differential Effects of Methylphenidate, Atomoxetine, and Placebo in Healthy Volunteers. <i>Neuropsychopharmacology</i> , 2011, 36, 1237-1247.	5.4	81
39	Pattern recognition analyses of brain activation elicited by happy and neutral faces in unipolar and bipolar depression. <i>Bipolar Disorders</i> , 2012, 14, 451-460.	1.9	71
40	Dissociable effects of methylphenidate, atomoxetine and placebo on regional cerebral blood flow in healthy volunteers at rest: A multi-class pattern recognition approach. <i>NeuroImage</i> , 2012, 60, 1015-1024.	4.2	67
41	Using structural neuroanatomy to identify trauma survivors with and without post-traumatic stress disorder at the individual level. <i>Psychological Medicine</i> , 2014, 44, 195-203.	4.5	67
42	Classifying social anxiety disorder using multivoxel pattern analyses of brain function and structure. <i>Behavioural Brain Research</i> , 2014, 259, 330-335.	2.2	65
43	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020, 11, 4796.	12.8	61
44	Charting brain growth and aging at high spatial precision. <i>ELife</i> , 2022, 11, .	6.0	61
45	The normative modeling framework for computational psychiatry. <i>Nature Protocols</i> , 2022, 17, 1711-1734.	12.0	61
46	Pattern Recognition and Functional Neuroimaging Help to Discriminate Healthy Adolescents at Risk for Mood Disorders from Low Risk Adolescents. <i>PLoS ONE</i> , 2012, 7, e29482.	2.5	60
47	SCoRS—A Method Based on Stability for Feature Selection and Mapping in Neuroimaging. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 85-98.	8.9	57
48	Association Between the Probability of Autism Spectrum Disorder and Normative Sex-Related Phenotypic Diversity in Brain Structure. <i>JAMA Psychiatry</i> , 2017, 74, 329.	11.0	57
49	10,000 social brains: Sex differentiation in human brain anatomy. <i>Science Advances</i> , 2020, 6, eaaz1170.	10.3	55
50	Distinguishing medication-free subjects with unipolar disorder from subjects with bipolar disorder: state matters. <i>Bipolar Disorders</i> , 2016, 18, 612-623.	1.9	54
51	Heterogeneity in Brain Microstructural Development Following Preterm Birth. <i>Cerebral Cortex</i> , 2020, 30, 4800-4810.	2.9	54
52	Examination of the predictive value of structural magnetic resonance scans in bipolar disorder: a pattern classification approach. <i>Psychological Medicine</i> , 2014, 44, 519-532.	4.5	49
53	Bayesian multi-task learning for decoding multi-subject neuroimaging data. <i>NeuroImage</i> , 2014, 92, 298-311.	4.2	49
54	Beyond the average patient: how neuroimaging models can address heterogeneity in dementia. <i>Brain</i> , 2021, 144, 2946-2953.	7.6	46

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55	Deep neural networks learn general and clinically relevant representations of the ageing brain. <i>NeuroImage</i> , 2022, 256, 119210.	4.2	46
56	Predicting Progression of Alzheimer's Disease Using Ordinal Regression. <i>PLoS ONE</i> , 2014, 9, e105542.	2.5	44
57	Modelling brain development to detect white matter injury in term and preterm born neonates. <i>Brain</i> , 2020, 143, 467-479.	7.6	44
58	Pattern recognition analysis of anterior cingulate cortex blood flow to classify depression polarity. <i>British Journal of Psychiatry</i> , 2013, 203, 310-311.	2.8	43
59	Replicating extensive brain structural heterogeneity in individuals with schizophrenia and bipolar disorder. <i>Human Brain Mapping</i> , 2021, 42, 2546-2555.	3.6	42
60	In Vivo Evidence of Reduced Integrity of the Gray-White Matter Boundary in Autism Spectrum Disorder. <i>Cerebral Cortex</i> , 2017, 27, 877-887.	2.9	41
61	Fractionating autism based on neuroanatomical normative modeling. <i>Translational Psychiatry</i> , 2020, 10, 384.	4.8	40
62	Automated, High Accuracy Classification of Parkinsonian Disorders: A Pattern Recognition Approach. <i>PLoS ONE</i> , 2013, 8, e69237.	2.5	39
63	Refinement by integration: aggregated effects of multimodal imaging markers on adult ADHD. <i>Journal of Psychiatry and Neuroscience</i> , 2017, 42, 386-394.	2.4	39
64	Warped Bayesian linear regression for normative modelling of big data. <i>NeuroImage</i> , 2021, 245, 118715.	4.2	38
65	Identification of neurobehavioural symptom groups based on shared brain mechanisms. <i>Nature Human Behaviour</i> , 2019, 3, 1306-1318.	12.0	37
66	Atypical Brain Asymmetry in Autism: A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 802-812.	1.5	36
67	Aiding the diagnosis of dissociative identity disorder: pattern recognition study of brain biomarkers. <i>British Journal of Psychiatry</i> , 2019, 215, 536-544.	2.8	35
68	Predicting individual clinical trajectories of depression with generative embedding. <i>NeuroImage: Clinical</i> , 2020, 26, 102213.	2.7	33
69	Probabilistic prediction of neurological disorders with a statistical assessment of neuroimaging data modalities. <i>Annals of Applied Statistics</i> , 2012, 6, 1883-1905.	1.1	32
70	Predictive Neurofunctional Markers of Attention-Deficit/Hyperactivity Disorder Based on Pattern Classification of Temporal Processing. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014, 53, 569-578.e1.	0.5	31
71	A novel approach to probabilistic biomarker-based classification using functional near-infrared spectroscopy. <i>Human Brain Mapping</i> , 2013, 34, 1102-1114.	3.6	30
72	The functional anatomy of suggested limb paralysis. <i>Cortex</i> , 2013, 49, 411-422.	2.4	30

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73	Identifying Individuals at High Risk of Psychosis: Predictive Utility of Support Vector Machine using Structural and Functional MRI Data. <i>Frontiers in Psychiatry</i> , 2016, 7, 52.	2.6	29
74	Structural asymmetries of the human cerebellum in relation to cerebral cortical asymmetries and handedness. <i>Brain Structure and Function</i> , 2017, 222, 1611-1623.	2.3	29
75	Phenomapping: Methods and Measures for Deconstructing Diagnosis in Psychiatry. , 2019, , 119-134.		28
76	Interindividual Differences in Cortical Thickness and Their Genomic Underpinnings in Autism Spectrum Disorder. <i>American Journal of Psychiatry</i> , 2022, 179, 242-254.	7.2	28
77	Hierarchical Bayesian Regression for Multi-site Normative Modeling of Neuroimaging Data. <i>Lecture Notes in Computer Science</i> , 2020, , 699-709.	1.3	28
78	Analysing brain networks in population neuroscience: a case for the Bayesian philosophy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190661.	4.0	27
79	An empirical comparison of different approaches for combining multimodal neuroimaging data with support vector machine. <i>Frontiers in Neuroscience</i> , 2014, 8, 189.	2.8	26
80	Multivariate decoding of brain images using ordinal regression. <i>NeuroImage</i> , 2013, 81, 347-357.	4.2	24
81	Global urbanicity is associated with brain and behaviour in young people. <i>Nature Human Behaviour</i> , 2022, 6, 279-293.	12.0	24
82	Brain Connectome Mapping of Complex Human Traits and Their Polygenic Architecture Using Machine Learning. <i>Biological Psychiatry</i> , 2020, 87, 717-726.	1.3	23
83	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 813-824.	1.5	21
84	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis. <i>Molecular Autism</i> , 2022, 13, 22.	4.9	20
85	Cerebellar Atypicalities in Autism?. <i>Biological Psychiatry</i> , 2022, 92, 674-682.	1.3	20
86	Sensory Modality-Independent Activation of the Brain Network for Language. <i>Journal of Neuroscience</i> , 2020, 40, 2914-2924.	3.6	19
87	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. <i>Cerebral Cortex</i> , 2021, 31, 3665-3677.	2.9	19
88	Multivariate decoding of cerebral blood flow measures in a clinical model of ongoing postsurgical pain. <i>Human Brain Mapping</i> , 2015, 36, 633-642.	3.6	18
89	A Bayesian spatial model for neuroimaging data based on biologically informed basis functions. <i>NeuroImage</i> , 2017, 161, 134-148.	4.2	18
90	Quantifying patterns of brain activity: Distinguishing unaffected siblings from participants with ADHD and healthy individuals. <i>NeuroImage: Clinical</i> , 2016, 12, 227-233.	2.7	16

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91	Modeling longitudinal imaging biomarkers with parametric Bayesian multi-task learning. <i>Human Brain Mapping</i> , 2019, 40, 3982-4000.	3.6	15
92	Deep learning identifies partially overlapping subnetworks in the human social brain. <i>Communications Biology</i> , 2021, 4, 65.	4.4	11
93	Estimating multivariate similarity between neuroimaging datasets with sparse canonical correlation analysis: an application to perfusion imaging. <i>Frontiers in Neuroscience</i> , 2015, 9, 366.	2.8	10
94	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers. <i>Molecular Autism</i> , 2021, 12, 74.	4.9	10
95	Age-related brain deviations and aggression. <i>Psychological Medicine</i> , 2023, 53, 4012-4021.	4.5	10
96	A Closer Look at Depression Biotypes: Correspondence Relating to Grosenick et al. (2019). <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 554-555.	1.5	9
97	Mapping dopaminergic projections in the human brain with resting-state fMRI. <i>ELife</i> , 2022, 11, .	6.0	9
98	Mapping Normative Trajectories of Cognitive Function and Its Relation to Psychopathology Symptoms and Genetic Risk in Youth. <i>Biological Psychiatry Global Open Science</i> , 2023, 3, 255-263.	2.2	8
99	Normative Modeling of Neuroimaging Data Using Scalable Multi-task Gaussian Processes. <i>Lecture Notes in Computer Science</i> , 2018, , 127-135.	1.3	7
100	Full Bayesian multi-task learning for multi-output brain decoding and accommodating missing data. , 2014, , .		5
101	Making use of longitudinal information in pattern recognition. <i>Human Brain Mapping</i> , 2016, 37, 4385-4404.	3.6	5
102	Using Pattern Classification to Identify Brain Imaging Markers in Autism Spectrum Disorder. <i>Current Topics in Behavioral Neurosciences</i> , 2018, 40, 413-436.	1.7	5
103	Rapid processing and quantitative evaluation of structural brain scans for adaptive multimodal imaging. <i>Human Brain Mapping</i> , 2022, 43, 1749-1765.	3.6	5
104	Quantifying the Information Content of Brain Voxels Using Target Information, Gaussian Processes and Recursive Feature Elimination. , 2010, , .		4
105	Correction to "SCoRS" A Method Based on Stability for Feature Selection and Mapping in Neuroimaging [Jan 14 85-98]. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 794-794.	8.9	3
106	Classification of Neurodegenerative Diseases Using Gaussian Process Classification with Automatic Feature Determination. , 2010, , .		2
107	The heterogeneous brain: Mapping individualised patterns of atrophy in Alzheimer's disease using spatial normative models. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	2
108	Linear methods for classification. , 2020, , 83-100.		1

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109	Data-Driven Modeling of BOLD Drug Response Curves Using Gaussian Process Learning. Lecture Notes in Computer Science, 2012, , 210-217.	1.3	1
110	Pseudo-Marginal Bayesian Multiple-Class Multiple-Kernel Learning for Neuroimaging Data. , 2014, , .		0
111	86. Understanding the Heterogeneous Phenotype of Psychiatric Disorders Using Normative Models. Biological Psychiatry, 2019, 85, S36.	1.3	0
112	56. Aiding the Diagnosis of Dissociative Identity Disorder: A Pattern Recognition Study of Brain Structural Biomarkers. Biological Psychiatry, 2019, 85, S23-S24.	1.3	0
113	Chapter 6 Neuroimaging biomarkers for autism spectrum disorder. , 2016, , 95-120.		0
114	P324. Striatal Connectopic Maps Link to Functional Domains Across Psychiatric Disorders. Biological Psychiatry, 2022, 91, S218.	1.3	0