

# Matthew Stephens

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

52,336  
citations

51  
h-index

110  
g-index

110  
ext. papers

61,208  
ext. citations

14.1  
avg, IF

7.93  
L-index

#	Paper	IF	Citations
101	Inference of population structure using multilocus genotype data. <i>Genetics</i> , <b>2000</b> , 155, 945-59	4	22315
100	Inference of population structure using multilocus genotype data: linked loci and correlated allele frequencies. <i>Genetics</i> , <b>2003</b> , 164, 1567-87	4	5901
99	A second generation human haplotype map of over 3.1 million SNPs. <i>Nature</i> , <b>2007</b> , 449, 851-61	50.4	3647
98	Human genomics. The Genotype-Tissue Expression (GTEx) pilot analysis: multitissue gene regulation in humans. <i>Science</i> , <b>2015</b> , 348, 648-60	33.3	3242
97	RNA-seq: an assessment of technical reproducibility and comparison with gene expression arrays. <i>Genome Research</i> , <b>2008</b> , 18, 1509-17	9.7	2051
96	A fast and flexible statistical model for large-scale population genotype data: applications to inferring missing genotypes and haplotypic phase. <i>American Journal of Human Genetics</i> , <b>2006</b> , 78, 629-44 <sup>11</sup>		1493
95	Genome-wide efficient mixed-model analysis for association studies. <i>Nature Genetics</i> , <b>2012</b> , 44, 821-4	36.3	1480
94	Fast and accurate genotype imputation in genome-wide association studies through pre-phasing. <i>Nature Genetics</i> , <b>2012</b> , 44, 955-9	36.3	1292
93	Understanding mechanisms underlying human gene expression variation with RNA sequencing. <i>Nature</i> , <b>2010</b> , 464, 768-72	50.4	993
92	fastSTRUCTURE: variational inference of population structure in large SNP data sets. <i>Genetics</i> , <b>2014</b> , 197, 573-89	4	839
91	Genotype imputation with thousands of genomes. <i>G3: Genes, Genomes, Genetics</i> , <b>2011</b> , 1, 457-70	3.2	719
90	Modeling linkage disequilibrium and identifying recombination hotspots using single-nucleotide polymorphism data. <i>Genetics</i> , <b>2003</b> , 165, 2213-33	4	652
89	Dealing with label switching in mixture models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2000</b> , 62, 795-809	3.9	561
88	DNase I sensitivity QTLs are a major determinant of human expression variation. <i>Nature</i> , <b>2012</b> , 482, 390-4	50.4	479
87	High-resolution mapping of expression-QTLs yields insight into human gene regulation. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000214	6	456
86	Polygenic modeling with bayesian sparse linear mixed models. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003264	6	440
85	Efficient multivariate linear mixed model algorithms for genome-wide association studies. <i>Nature Methods</i> , <b>2014</b> , 11, 407-9	21.6	432

84	Imputation-based analysis of association studies: candidate regions and quantitative traits. <i>PLoS Genetics</i> , <b>2007</b> , 3, e114	6	386
83	Interpreting principal component analyses of spatial population genetic variation. <i>Nature Genetics</i> , <b>2008</b> , 40, 646-9	36.3	381
82	Bayesian statistical methods for genetic association studies. <i>Nature Reviews Genetics</i> , <b>2009</b> , 10, 681-90	30.1	339
81	Visualizing spatial population structure with estimated effective migration surfaces. <i>Nature Genetics</i> , <b>2016</b> , 48, 94-100	36.3	226
80	Bayesian variable selection regression for genome-wide association studies and other large-scale problems. <i>Annals of Applied Statistics</i> , <b>2011</b> , 5,	2.1	220
79	False discovery rates: a new deal. <i>Biostatistics</i> , <b>2017</b> , 18, 275-294	3.7	201
78	Genome-wide association of lipid-lowering response to statins in combined study populations. <i>PLoS ONE</i> , <b>2010</b> , 5, e9763	3.7	185
77	A statistical framework for joint eQTL analysis in multiple tissues. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003486	6	175
76	A statin-dependent QTL for GATM expression is associated with statin-induced myopathy. <i>Nature</i> , <b>2013</b> , 502, 377-80	50.4	160
75	Polymorphisms of the HNF1A gene encoding hepatocyte nuclear factor-1 alpha are associated with C-reactive protein. <i>American Journal of Human Genetics</i> , <b>2008</b> , 82, 1193-201	11	155
74	Dissecting the regulatory architecture of gene expression QTLs. <i>Genome Biology</i> , <b>2012</b> , 13, R7	18.3	151
73	A unified framework for association analysis with multiple related phenotypes. <i>PLoS ONE</i> , <b>2013</b> , 8, e65245	3.7	146
72	Practical issues in imputation-based association mapping. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000279	6	144
71	Scalable Variational Inference for Bayesian Variable Selection in Regression, and Its Accuracy in Genetic Association Studies. <i>Bayesian Analysis</i> , <b>2012</b> , 7,	2.3	126
70	A multivariate genome-wide association analysis of 10 LDL subfractions, and their response to statin treatment, in 1868 Caucasians. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120758	3.7	118
69	The impact of sex on gene expression across human tissues. <i>Science</i> , <b>2020</b> , 369,	33.3	100
68	Analysis of population structure: a unifying framework and novel methods based on sparse factor analysis. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001117	6	95
67	Flexible statistical methods for estimating and testing effects in genomic studies with multiple conditions. <i>Nature Genetics</i> , <b>2019</b> , 51, 187-195	36.3	94

66	A simple new approach to variable selection in regression, with application to genetic fine mapping. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2020</b> , 82, 1273-1300	3.9	91
65	A Simple Model-Based Approach to Inferring and Visualizing Cancer Mutation Signatures. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005657	6	87
64	Thousands of novel translated open reading frames in humans inferred by ribosome footprint profiling. <i>ELife</i> , <b>2016</b> , 5,	8.9	82
63	The GTEx Consortium atlas of genetic regulatory effects across human tissues		81
62	Interactions between glucocorticoid treatment and cis-regulatory polymorphisms contribute to cellular response phenotypes. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002162	6	80
61	The contribution of RNA decay quantitative trait loci to inter-individual variation in steady-state gene expression levels. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1003000	6	80
60	BAYESIAN LARGE-SCALE MULTIPLE REGRESSION WITH SUMMARY STATISTICS FROM GENOME-WIDE ASSOCIATION STUDIES. <i>Annals of Applied Statistics</i> , <b>2017</b> , 11, 1561-1592	2.1	73
59	The genetic architecture of gene expression levels in wild baboons. <i>ELife</i> , <b>2015</b> , 4,	8.9	73
58	Cell type-specific genetic regulation of gene expression across human tissues. <i>Science</i> , <b>2020</b> , 369,	33.3	68
57	Visualizing the structure of RNA-seq expression data using grade of membership models. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1006599	6	66
56	Genome-wide association study of d-amphetamine response in healthy volunteers identifies putative associations, including cadherin 13 (CDH13). <i>PLoS ONE</i> , <b>2012</b> , 7, e42646	3.7	65
55	Mendelian randomization accounting for correlated and uncorrelated pleiotropic effects using genome-wide summary statistics. <i>Nature Genetics</i> , <b>2020</b> , 52, 740-747	36.3	64
54	Genotyping Polyploids from Messy Sequencing Data. <i>Genetics</i> , <b>2018</b> , 210, 789-807	4	64
53	Genetic analyses support the contribution of mRNA N-methyladenosine (m <sup>6</sup> A) modification to human disease heritability. <i>Nature Genetics</i> , <b>2020</b> , 52, 939-949	36.3	52
52	USING LINEAR PREDICTORS TO IMPUTE ALLELE FREQUENCIES FROM SUMMARY OR POOLED GENOTYPE DATA. <i>Annals of Applied Statistics</i> , <b>2010</b> , 4, 1158-1182	2.1	52
51	Promoter shape varies across populations and affects promoter evolution and expression noise. <i>Nature Genetics</i> , <b>2017</b> , 49, 550-558	36.3	51
50	Epigenetic modifications are associated with inter-species gene expression variation in primates. <i>Genome Biology</i> , <b>2014</b> , 15, 547	18.3	49
49	Large-scale genome-wide enrichment analyses identify new trait-associated genes and pathways across 31 human phenotypes. <i>Nature Communications</i> , <b>2018</b> , 9, 4361	17.4	48

48	Integrated enrichment analysis of variants and pathways in genome-wide association studies indicates central role for IL-2 signaling genes in type 1 diabetes, and cytokine signaling genes in Crohn's disease. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003770	6	47
47	An estimate of the average number of recessive lethal mutations carried by humans. <i>Genetics</i> , <b>2015</b> , 199, 1243-54	4	45
46	BAYESIAN METHODS FOR GENETIC ASSOCIATION ANALYSIS WITH HETEROGENEOUS SUBGROUPS: FROM META-ANALYSES TO GENE-ENVIRONMENT INTERACTIONS. <i>Annals of Applied Statistics</i> , <b>2014</b> , 8, 176-203	2.1	39
45	Exploiting the GTEx resources to decipher the mechanisms at GWAS loci. <i>Genome Biology</i> , <b>2021</b> , 22, 49	18.3	38
44	Discovery and characterization of variance QTLs in human induced pluripotent stem cells. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008045	6	31
43	Estimating Time to the Common Ancestor for a Beneficial Allele. <i>Molecular Biology and Evolution</i> , <b>2018</b> , 35, 1003-1017	8.3	31
42	New evidence for hybrid zones of forest and savanna elephants in Central and West Africa. <i>Molecular Ecology</i> , <b>2015</b> , 24, 6134-47	5.7	30
41	A simple new approach to variable selection in regression, with application to genetic fine-mapping		30
40	Estimating recent migration and population-size surfaces. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1007908	6	29
39	msCentipede: Modeling Heterogeneity across Genomic Sites and Replicates Improves Accuracy in the Inference of Transcription Factor Binding. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138030	3.7	28
38	Separating measurement and expression models clarifies confusion in single-cell RNA sequencing analysis. <i>Nature Genetics</i> , <b>2021</b> , 53, 770-777	36.3	27
37	Characterizing and inferring quantitative cell cycle phase in single-cell RNA-seq data analysis. <i>Genome Research</i> , <b>2020</b> , 30, 611-621	9.7	26
36	Detailed modeling of positive selection improves detection of cancer driver genes. <i>Nature Communications</i> , <b>2019</b> , 10, 3399	17.4	24
35	Creating and sharing reproducible research code the workflowr way. <i>F1000Research</i> , <b>2019</b> , 8, 1749	3.6	23
34	A new sequence logo plot to highlight enrichment and depletion. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 473	3.6	23
33	Exploiting the GTEx resources to decipher the mechanisms at GWAS loci		21
32	Regional influences on community structure across the tropical-temperate divide. <i>Nature Communications</i> , <b>2019</b> , 10, 2646	17.4	20
31	Genetic, functional and molecular features of glucocorticoid receptor binding. <i>PLoS ONE</i> , <b>2013</b> , 8, e61654	4.7	20

30	Population-scale tissue transcriptomics maps long non-coding RNAs to complex disease. <i>Cell</i> , <b>2021</b> , 184, 2633-2648.e19	56.2	20
29	WAVELET-BASED GENETIC ASSOCIATION ANALYSIS OF FUNCTIONAL PHENOTYPES ARISING FROM HIGH-THROUGHPUT SEQUENCING ASSAYS. <i>Annals of Applied Statistics</i> , <b>2015</b> , 9, 655-686	2.1	18
28	A vast resource of allelic expression data spanning human tissues. <i>Genome Biology</i> , <b>2020</b> , 21, 234	18.3	18
27	Exon-specific QTLs skew the inferred distribution of expression QTLs detected using gene expression array data. <i>PLoS ONE</i> , <b>2012</b> , 7, e30629	3.7	17
26	Accurate genomic prediction of <i>Coffea canephora</i> in multiple environments using whole-genome statistical models. <i>Heredity</i> , <b>2019</b> , 122, 261-275	3.6	15
25	Silencing of transposable elements may not be a major driver of regulatory evolution in primate iPSCs. <i>ELife</i> , <b>2018</b> , 7,	8.9	15
24	Separating measurement and expression models clarifies confusion in single-cell RNA sequencing analysis		11
23	False Discovery Rates: A New Deal		10
22	Dynamic effects of genetic variation on gene expression revealed following hypoxic stress in cardiomyocytes. <i>ELife</i> , <b>2021</b> , 10,	8.9	8
21	Empirical Bayes shrinkage and false discovery rate estimation, allowing for unwanted variation. <i>Biostatistics</i> , <b>2020</b> , 21, 15-32	3.7	5
20	Bayesian multivariate reanalysis of large genetic studies identifies many new associations. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008431	6	5
19	A large-scale genome-wide enrichment analysis identifies new trait-associated genes, pathways and tissues across 31 human phenotypes*		5
18	Mangravite et al. reply. <i>Nature</i> , <b>2014</b> , 513, E3	50.4	4
17	Flexible statistical methods for estimating and testing effects in genomic studies with multiple conditions		4
16	Bayesian large-scale multiple regression with summary statistics from genome-wide association studies		4
15	A Fast Algorithm for Maximum Likelihood Estimation of Mixture Proportions Using Sequential Quadratic Programming. <i>Journal of Computational and Graphical Statistics</i> , <b>2020</b> , 29, 261-273	1.4	4
14	Inference and visualization of DNA damage patterns using a grade of membership model. <i>Bioinformatics</i> , <b>2019</b> , 35, 1292-1298	7.2	4
13	Variance adaptive shrinkage (vash): flexible empirical Bayes estimation of variances. <i>Bioinformatics</i> , <b>2016</b> , 32, 3428-3434	7.2	3

12	Characterizing and inferring quantitative cell cycle phase in single-cell RNA-seq data analysis		3
11	Dispersal syndromes drive the formation of biogeographical regions, illustrated by the case of Wallace's Line. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 685-696	6.1	3
10	Visualizing the Structure of RNA-seq Expression Data using Grade of Membership Models		2
9	Fine-mapping from summary data with the Sum of Single Effects model		1
8	Dynamic effects of genetic variation on gene expression revealed following hypoxic stress in cardiomyocytes		1
7	Genotyping Polyploids from Messy Sequencing Data		1
6	Bayesian multivariate reanalysis of large genetic studies identifies many new associations <b>2019</b> , 15, e1008431		
5	Bayesian multivariate reanalysis of large genetic studies identifies many new associations <b>2019</b> , 15, e1008431		
4	Bayesian multivariate reanalysis of large genetic studies identifies many new associations <b>2019</b> , 15, e1008431		
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