

Robert C Griffiths

List of Publications by Year in descending order

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106
papers

5,288
citations

109321

35
h-index

91884

69
g-index

109
all docs

109
docs citations

109
times ranked

3143
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferring Coalescence Times From DNA Sequence Data. <i>Genetics</i> , 1997, 145, 505-518.	2.9	678
2	Ancestral Inference from Samples of DNA Sequences with Recombination. <i>Journal of Computational Biology</i> , 1996, 3, 479-502.	1.6	369
3	Out of Africa and back again: nested cladistic analysis of human Y chromosome variation. <i>Molecular Biology and Evolution</i> , 1998, 15, 427-441.	8.9	337
4	Ancestral Inference in Population Genetics. <i>Statistical Science</i> , 1994, 9, 307.	2.8	282
5	Ancestral Asian Source(s) of New World Y-Chromosome Founder Haplotypes. <i>American Journal of Human Genetics</i> , 1999, 64, 817-831.	6.2	271
6	Simulating Probability Distributions in the Coalescent. <i>Theoretical Population Biology</i> , 1994, 46, 131-159.	1.1	239
7	Inference from Gene Trees in a Subdivided Population. <i>Theoretical Population Biology</i> , 2000, 57, 79-95.	1.1	193
8	An Ancestral Recombination Graph. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997, , 257-270.	0.5	172
9	Bounds on the Minimum Number of Recombination Events in a Sample History. <i>Genetics</i> , 2003, 163, 375-394.	2.9	163
10	Lines of descent in the diffusion approximation of neutral Wright-Fisher models. <i>Theoretical Population Biology</i> , 1980, 17, 37-50.	1.1	139
11	High levels of Y-chromosome nucleotide diversity in the genus <i>Pan</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 43-48.	7.1	136
12	Unrooted genealogical tree probabilities in the infinitely-many-sites model. <i>Mathematical Biosciences</i> , 1995, 127, 77-98.	1.9	92
13	Ancestral inference on gene trees under selection. <i>Theoretical Population Biology</i> , 2004, 66, 219-232.	1.1	88
14	The frequency spectrum of a mutation, and its age, in a general diffusion model. <i>Theoretical Population Biology</i> , 2003, 64, 241-251.	1.1	87
15	Neutral two-locus multiple allele models with recombination. <i>Theoretical Population Biology</i> , 1981, 19, 169-186.	1.1	84
16	A transition density expansion for a multi-allele diffusion model. <i>Advances in Applied Probability</i> , 1979, 11, 310-325.	0.7	74
17	Importance sampling on coalescent histories. I. <i>Advances in Applied Probability</i> , 2004, 36, 417-433.	0.7	73
18	The coalescent in two colonies with symmetric migration. <i>Journal of Mathematical Biology</i> , 1993, 31, 841-851.	1.9	69

#	ARTICLE	IF	CITATIONS
19	On the two-locus sampling distribution. <i>Journal of Mathematical Biology</i> , 1990, 29, 131-159.	1.9	59
20	Importance sampling on coalescent histories. II: Subdivided population models. <i>Advances in Applied Probability</i> , 2004, 36, 434-454.	0.7	59
21	The Transition Function of a Fleming-Viot Process. <i>Annals of Probability</i> , 1993, 21, .	1.8	58
22	Characterization of infinitely divisible multivariate gamma distributions. <i>Journal of Multivariate Analysis</i> , 1984, 15, 13-20.	1.0	55
23	The Infinitely-Many-Sites Model as a Measure-Valued Diffusion. <i>Annals of Probability</i> , 1987, 15, 515.	1.8	55
24	The Two-Locus Ancestral Graph. <i>Lecture Notes-monograph Series / Institute of Mathematical Statistics</i> , 1991, , 100-117.	1.0	53
25	Genealogical-tree probabilities in the infinitely-many-site model. <i>Journal of Mathematical Biology</i> , 1989, 27, 667-680.	1.9	52
26	Monte Carlo inference methods in population genetics. <i>Mathematical and Computer Modelling</i> , 1996, 23, 141-158.	2.0	50
27	On the distribution of allele frequencies in a diffusion model. <i>Theoretical Population Biology</i> , 1979, 15, 140-158.	1.1	49
28	A coalescent dual process in a Moran model with genic selection. <i>Theoretical Population Biology</i> , 2009, 75, 320-330.	1.1	48
29	The ages of mutations in gene trees. <i>Annals of Applied Probability</i> , 1999, 9, .	1.3	48
30	Statistical analysis of in situ hybridization data: Derivation and use of the Zmax test. <i>Genomics</i> , 1992, 12, 675-682.	2.9	47
31	Asymptotic line-of-descent distributions. <i>Journal of Mathematical Biology</i> , 1984, 21, 67-75.	1.9	45
32	Estimating the Age of the Common Ancestor of Men from the ZFY Intron. <i>Science</i> , 1996, 272, 1357-1359.	12.6	44
33	Multiple mating and sperm displacement in a natural population of <i>Drosophila melanogaster</i> . <i>Theoretical and Applied Genetics</i> , 1982, 62, 89-96.	3.6	41
34	Stepwise mutation likelihood computation by sequential importance sampling in subdivided population models. <i>Theoretical Population Biology</i> , 2005, 68, 41-53.	1.1	41
35	Exact sampling distributions from the infinite neutral alleles model. <i>Advances in Applied Probability</i> , 1979, 11, 326-354.	0.7	38
36	A coalescent dual process in a Moran model with genic selection, and the lambda coalescent limit. <i>Theoretical Population Biology</i> , 2010, 78, 77-92.	1.1	36

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37	Ewens's sampling formula and related formulae: combinatorial proofs, extensions to variable population size and applications to ages of alleles. <i>Theoretical Population Biology</i> , 2005, 68, 167-177.	1.1	34
38	Estimation in an Island Model Using Simulation. <i>Theoretical Population Biology</i> , 1996, 50, 227-253.	1.1	32
39	An infinite-alleles version of the simple branching process. <i>Advances in Applied Probability</i> , 1988, 20, 489-524.	0.7	30
40	A class of bivariate Poisson processes. <i>Journal of Multivariate Analysis</i> , 1978, 8, 380-395.	1.0	29
41	Simulating allele frequencies in a population and the genetic differentiation of populations under mutation pressure. <i>Theoretical Population Biology</i> , 1983, 23, 19-33.	1.1	29
42	A gene tree for β -globin sequences from melanesia. <i>Journal of Molecular Evolution</i> , 1997, 44, S133-S138.	1.8	29
43	Coalescence time for two genes from a subdivided population. <i>Journal of Mathematical Biology</i> , 2001, 43, 397-410.	1.9	29
44	Importance sampling and the two-locus model with subdivided population structure. <i>Advances in Applied Probability</i> , 2008, 40, 473-500.	0.7	28
45	The number of heterozygous loci between two randomly chosen completely linked sequences of loci in two subdivided population models. <i>Journal of Mathematical Biology</i> , 1981, 12, 251-261.	1.9	27
46	An introduction to multivariate Krawtchouk polynomials and their applications. <i>Journal of Statistical Planning and Inference</i> , 2014, 154, 39-53.	0.6	25
47	A transition function expansion for a diffusion model with selection. <i>Annals of Applied Probability</i> , 2000, 10, .	1.3	25
48	Computational Methods for the Coalescent. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997, , 165-182.	0.5	23
49	The Canonical Correlation Coefficients of Bivariate Gamma Distributions. <i>Annals of Mathematical Statistics</i> , 1969, 40, 1401-1408.	0.5	22
50	Importance sampling on coalescent histories. II: Subdivided population models. <i>Advances in Applied Probability</i> , 2004, 36, 434-454.	0.7	22
51	On the distribution of points in a poisson dirichlet process. <i>Journal of Applied Probability</i> , 1988, 25, 336-345.	0.7	21
52	A class of infinitely divisible multivariate negative binomial distributions. <i>Journal of Multivariate Analysis</i> , 1987, 22, 13-23.	1.0	19
53	Bayesian logistic regression using a perfect phylogeny. <i>Biostatistics</i> , 2007, 8, 32-52.	1.5	19
54	Inference from Samples of DNA Sequences Using a Two-Locus Model. <i>Journal of Computational Biology</i> , 2011, 18, 109-127.	1.6	19

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55	Allele frequencies in multidimensional Wright-Fisher models with a general symmetric mutation structure. <i>Theoretical Population Biology</i> , 1980, 17, 51-70.	1.1	17
56	Allele frequencies with genic selection. <i>Journal of Mathematical Biology</i> , 1983, 17, 1-10.	1.9	17
57	The neutral two-locus model as a measure-valued diffusion. <i>Advances in Applied Probability</i> , 1990, 22, 773-786.	0.7	17
58	Analysis and rejection sampling of Wright-Fisher diffusion bridges. <i>Theoretical Population Biology</i> , 2013, 89, 64-74.	1.1	16
59	Finding Associations in Dense Genetic Maps: A Genetic Algorithm Approach. <i>Human Heredity</i> , 2005, 60, 97-108.	0.8	15
60	Correlation of heterozygosity and the number of alleles in different frequency classes. <i>Theoretical Population Biology</i> , 1982, 21, 205-218.	1.1	13
61	The Time to the Ancestor along Sequences with Recombination. <i>Theoretical Population Biology</i> , 1999, 55, 137-144.	1.1	13
62	Importance sampling and the two-locus model with subdivided population structure. <i>Advances in Applied Probability</i> , 2008, 40, 473-500.	0.7	13
63	Multivariate Jacobi and Laguerre polynomials, infinite-dimensional extensions, and their probabilistic connections with multivariate Hahn and Meixner polynomials. <i>Bernoulli</i> , 2011, 17, .	1.3	13
64	The $\hat{\nu}$ -Fleming-Viot Process and a Connection with Wright-Fisher Diffusion. <i>Advances in Applied Probability</i> , 2014, 46, 1009-1035.	0.7	13
65	Transient distribution of the number of segregating sites in a neutral infinite-sites model with no recombination. <i>Journal of Applied Probability</i> , 1981, 18, 42-51.	0.7	12
66	Determinants of forearm mineral density and its correlation with fracture history in women. <i>Maturitas</i> , 1994, 20, 199-208.	2.4	12
67	EXCHANGEABLE PAIRS OF BERNOULLI RANDOM VARIABLES, KRAWTCHOUCK POLYNOMIALS, AND EHRENFEST URNS. <i>Australian and New Zealand Journal of Statistics</i> , 2012, 54, 81-101.	0.9	12
68	Record Indices and Age-Ordered Frequencies in Exchangeable Gibbs Partitions. <i>Electronic Journal of Probability</i> , 2007, 12, .	1.0	12
69	The number of alleles and segregating sites in a sample from the infinite-alleles model. <i>Advances in Applied Probability</i> , 1982, 14, 225-239.	0.7	11
70	The number of alleles in multigene families. <i>Theoretical Population Biology</i> , 1990, 37, 110-123.	1.1	11
71	Importance sampling on coalescent histories. I. <i>Advances in Applied Probability</i> , 2004, 36, 417-433.	0.7	11
72	Coalescent lineage distributions. <i>Advances in Applied Probability</i> , 2006, 38, 405-429.	0.7	11

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73	Experiments with the Site Frequency Spectrum. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 829-872.	1.9	11
74	Orthogonal polynomial kernels and canonical correlations for Dirichlet measures. <i>Bernoulli</i> , 2013, 19, .	1.3	11
75	Method of levels therapy for first-episode psychosis: rationale, design and baseline data for the feasibility randomised controlled Next Level study. <i>BJPsych Open</i> , 2018, 4, 339-345.	0.7	11
76	Orthogonal polynomials on the negative multinomial distribution. <i>Journal of Multivariate Analysis</i> , 1975, 5, 271-277.	1.0	9
77	Genetic identity between populations when mutation rates vary within and across loci. <i>Journal of Mathematical Biology</i> , 1980, 10, 195-204.	1.9	9
78	Coalescent lineage distributions. <i>Advances in Applied Probability</i> , 2006, 38, 405-429.	0.7	9
79	The $\hat{\nu}$ -Fleming-Viot Process and a Connection with Wright-Fisher Diffusion. <i>Advances in Applied Probability</i> , 2014, 46, 1009-1035.	0.7	9
80	Orthogonal Polynomials on the Multinomial Distribution. <i>The Australian Journal of Statistics</i> , 1972, 14, 270-270.	0.2	8
81	Counting genealogical trees. <i>Journal of Mathematical Biology</i> , 1987, 25, 423-431.	1.9	8
82	The stationary distribution of a sample from the Wright-Fisher diffusion model with general small mutation rates. <i>Journal of Mathematical Biology</i> , 2019, 78, 1211-1224.	1.9	8
83	A TEST OF INDEPENDENCE FOR BIVARIATE SYMMETRIC STABLE DISTRIBUTIONS. <i>The Australian Journal of Statistics</i> , 1980, 22, 172-177.	0.2	7
84	Multivariate Krawtchouk Polynomials and Composition Birth and Death Processes. <i>Symmetry</i> , 2016, 8, 33.	2.2	7
85	Two chromosomes with multigene families. <i>Theoretical Population Biology</i> , 1991, 39, 263-272.	1.1	6
86	Wright-Fisher diffusion bridges. <i>Theoretical Population Biology</i> , 2018, 122, 67-77.	1.1	6
87	POSITIVE DEFINITE SEQUENCES AND CANONICAL CORRELATION COEFFICIENTS ¹ . <i>The Australian Journal of Statistics</i> , 1970, 12, 162-165.	0.2	5
88	A coalescent dual process for a Wright-Fisher diffusion with recombination and its application to haplotype partitioning. <i>Theoretical Population Biology</i> , 2016, 112, 126-138.	1.1	5
89	Stationary distribution of a 2-island 2-allele Wright-Fisher diffusion model with slow mutation and migration rates. <i>Theoretical Population Biology</i> , 2018, 124, 70-80.	1.1	5
90	ON A BIVARIATE TRIANGULAR DISTRIBUTION ¹ . <i>The Australian Journal of Statistics</i> , 1978, 20, 183-185.	0.2	4

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91	Advancing nursing practice for improved health outcomes using the principles of perceptual control theory. <i>Nursing Philosophy</i> , 2020, 21, e12301.	1.9	4
92	Lancaster distributions and Markov chains with multivariate Poisson–Charlier, Meixner and Hermite–Chebycheff polynomial eigenfunctions. <i>Journal of Approximation Theory</i> , 2016, 207, 139-164.	0.8	3
93	Ancestral inference from haplotypes and mutations. <i>Theoretical Population Biology</i> , 2018, 122, 12-21.	1.1	3
94	Reproducing kernel orthogonal polynomials on the multinomial distribution. <i>Journal of Approximation Theory</i> , 2019, 242, 1-30.	0.8	3
95	Distribution of the number of alleles in multigene families. <i>Journal of Applied Probability</i> , 1992, 29, 759-769.	0.7	2
96	The transition distribution of a sample from a Wright–Fisher diffusion with general small mutation rates. <i>Journal of Mathematical Biology</i> , 2019, 79, 2315-2342.	1.9	2
97	A universal approach to matching marginals and sums. <i>Electronic Communications in Probability</i> , 2020, 25, .	0.4	2
98	Permanents of Random Doubly Stochastic Matrices. <i>Canadian Journal of Mathematics</i> , 1974, 26, 600-607.	0.6	2
99	A CHARACTERIZATION OF THE MULTINOMIAL DISTRIBUTION. <i>The Australian Journal of Statistics</i> , 1974, 16, 53-56.	0.2	1
100	Structure of exchangeable infinitely divisible sequences of poisson random vectors. <i>Stochastic Processes and Their Applications</i> , 1986, 22, 145-160.	0.9	1
101	A Multi-Type $\hat{\nu}$ -Coalescent. <i>Lecture Notes in Statistics</i> , 2016, , 23-37.	0.2	1
102	The stationary and quasi-stationary properties of neutral multi-type branching process diffusions. <i>Stochastic Models</i> , 2023, 39, 185-218.	0.5	1
103	A class of bivariate Poisson processes. <i>Advances in Applied Probability</i> , 1979, 11, 272-273.	0.7	0
104	Which locus has the oldest allele?. <i>Journal of Mathematical Biology</i> , 1991, 29, 763-777.	1.9	0
105	The star-shaped $\hat{\nu}$ -coalescent and Fleming–Viot process. <i>Stochastic Models</i> , 2016, 32, 606-631.	0.5	0
106	A Class of Non-Reversible Hypercube Long-Range Random Walks and Bernoulli Autoregression. <i>Journal of Theoretical Probability</i> , 0, , 1.	0.8	0