

# Robert C Griffiths

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

5,288  
citations

109264

35  
h-index

91828

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.  | 1.2 | 678       |
| 2  | Ancestral Inference from Samples of DNA Sequences with Recombination. <i>Journal of Computational Biology</i> , 1996, 3, 479-502.  | 0.8 | 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.                                 | 3.5 | 337       |
| 4  | Ancestral Inference in Population Genetics. <i>Statistical Science</i> , 1994, 9, 307.   | 1.6 | 282       |
| 5  | Ancestral Asian Source(s) of New World Y-Chromosome Founder Haplotypes. <i>American Journal of Human Genetics</i> , 1999, 64, 817-831.   | 2.6 | 271       |
| 6  | Simulating Probability Distributions in the Coalescent. <i>Theoretical Population Biology</i> , 1994, 46, 131-159.   | 0.5 | 239       |
| 7  | Inference from Gene Trees in a Subdivided Population. <i>Theoretical Population Biology</i> , 2000, 57, 79-95.   | 0.5 | 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.  | 1.2 | 163       |
| 10 | Lines of descent in the diffusion approximation of neutral Wright-Fisher models. <i>Theoretical Population Biology</i> , 1980, 17, 37-50.  | 0.5 | 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. | 3.3 | 136       |
| 12 | Unrooted genealogical tree probabilities in the infinitely-many-sites model. <i>Mathematical Biosciences</i> , 1995, 127, 77-98.   | 0.9 | 92        |
| 13 | Ancestral inference on gene trees under selection. <i>Theoretical Population Biology</i> , 2004, 66, 219-232.  | 0.5 | 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.  | 0.5 | 87        |
| 15 | Neutral two-locus multiple allele models with recombination. <i>Theoretical Population Biology</i> , 1981, 19, 169-186.  | 0.5 | 84        |
| 16 | A transition density expansion for a multi-allele diffusion model. <i>Advances in Applied Probability</i> , 1979, 11, 310-325.   | 0.4 | 74        |
| 17 | Importance sampling on coalescent histories. I. <i>Advances in Applied Probability</i> , 2004, 36, 417-433.  | 0.4 | 73        |
| 18 | The coalescent in two colonies with symmetric migration. <i>Journal of Mathematical Biology</i> , 1993, 31, 841-851.   | 0.8 | 69        |

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|----|--|-----|-----------|
| 19 | On the two-locus sampling distribution. <i>Journal of Mathematical Biology</i> , 1990, 29, 131-159.  | 0.8 | 59        |
| 20 | Importance sampling on coalescent histories. II: Subdivided population models. <i>Advances in Applied Probability</i> , 2004, 36, 434-454.                           | 0.4 | 59        |
| 21 | The Transition Function of a Fleming-Viot Process. <i>Annals of Probability</i> , 1993, 21, .  | 0.8 | 58        |
| 22 | Characterization of infinitely divisible multivariate gamma distributions. <i>Journal of Multivariate Analysis</i> , 1984, 15, 13-20.                                | 0.5 | 55        |
| 23 | The Infinitely-Many-Sites Model as a Measure-Valued Diffusion. <i>Annals of Probability</i> , 1987, 15, 515.   | 0.8 | 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.                                       | 0.8 | 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.   | 0.5 | 49        |
| 28 | A coalescent dual process in a Moran model with genic selection. <i>Theoretical Population Biology</i> , 2009, 75, 320-330.  | 0.5 | 48        |
| 29 | The ages of mutations in gene trees. <i>Annals of Applied Probability</i> , 1999, 9, .   | 0.6 | 48        |
| 30 | Statistical analysis of in situ hybridization data: Derivation and use of the Zmax test. <i>Genomics</i> , 1992, 12, 675-682.  | 1.3 | 47        |
| 31 | Asymptotic line-of-descent distributions. <i>Journal of Mathematical Biology</i> , 1984, 21, 67-75.  | 0.8 | 45        |
| 32 | Estimating the Age of the Common Ancestor of Men from the ZFY Intron. <i>Science</i> , 1996, 272, 1357-1359.   | 6.0 | 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.        | 1.8 | 41        |
| 34 | Stepwise mutation likelihood computation by sequential importance sampling in subdivided population models. <i>Theoretical Population Biology</i> , 2005, 68, 41-53. | 0.5 | 41        |
| 35 | Exact sampling distributions from the infinite neutral alleles model. <i>Advances in Applied Probability</i> , 1979, 11, 326-354.                                    | 0.4 | 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.           | 0.5 | 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. | 0.5 | 34        |
| 38 | Estimation in an Island Model Using Simulation. <i>Theoretical Population Biology</i> , 1996, 50, 227-253.  | 0.5 | 32        |
| 39 | An infinite-alleles version of the simple branching process. <i>Advances in Applied Probability</i> , 1988, 20, 489-524.  | 0.4 | 30        |
| 40 | A class of bivariate Poisson processes. <i>Journal of Multivariate Analysis</i> , 1978, 8, 380-395.   | 0.5 | 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.                              | 0.5 | 29        |
| 42 | A gene tree for $\beta$ -globin sequences from melanesia. <i>Journal of Molecular Evolution</i> , 1997, 44, S133-S138.  | 0.8 | 29        |
| 43 | Coalescence time for two genes from a subdivided population. <i>Journal of Mathematical Biology</i> , 2001, 43, 397-410.  | 0.8 | 29        |
| 44 | Importance sampling and the two-locus model with subdivided population structure. <i>Advances in Applied Probability</i> , 2008, 40, 473-500.   | 0.4 | 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.            | 0.8 | 27        |
| 46 | An introduction to multivariate Krawtchouk polynomials and their applications. <i>Journal of Statistical Planning and Inference</i> , 2014, 154, 39-53.   | 0.4 | 25        |
| 47 | A transition function expansion for a diffusion model with selection. <i>Annals of Applied Probability</i> , 2000, 10, .  | 0.6 | 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.  | 0.4 | 22        |
| 51 | On the distribution of points in a poisson dirichlet process. <i>Journal of Applied Probability</i> , 1988, 25, 336-345.  | 0.4 | 21        |
| 52 | A class of infinitely divisible multivariate negative binomial distributions. <i>Journal of Multivariate Analysis</i> , 1987, 22, 13-23.  | 0.5 | 19        |
| 53 | Bayesian logistic regression using a perfect phylogeny. <i>Biostatistics</i> , 2007, 8, 32-52.  | 0.9 | 19        |
| 54 | Inference from Samples of DNA Sequences Using a Two-Locus Model. <i>Journal of Computational Biology</i> , 2011, 18, 109-127.   | 0.8 | 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.                                 | 0.5 | 17        |
| 56 | Allele frequencies with genic selection. <i>Journal of Mathematical Biology</i> , 1983, 17, 1-10.   | 0.8 | 17        |
| 57 | The neutral two-locus model as a measure-valued diffusion. <i>Advances in Applied Probability</i> , 1990, 22, 773-786.  | 0.4 | 17        |
| 58 | Analysis and rejection sampling of Wright-Fisher diffusion bridges. <i>Theoretical Population Biology</i> , 2013, 89, 64-74.  | 0.5 | 16        |
| 59 | Finding Associations in Dense Genetic Maps: A Genetic Algorithm Approach. <i>Human Heredity</i> , 2005, 60, 97-108.   | 0.4 | 15        |
| 60 | Correlation of heterozygosity and the number of alleles in different frequency classes. <i>Theoretical Population Biology</i> , 1982, 21, 205-218.  | 0.5 | 13        |
| 61 | The Time to the Ancestor along Sequences with Recombination. <i>Theoretical Population Biology</i> , 1999, 55, 137-144.   | 0.5 | 13        |
| 62 | Importance sampling and the two-locus model with subdivided population structure. <i>Advances in Applied Probability</i> , 2008, 40, 473-500.   | 0.4 | 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, . | 0.7 | 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.  | 0.4 | 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.                       | 0.4 | 12        |
| 66 | Determinants of forearm mineral density and its correlation with fracture history in women. <i>Maturitas</i> , 1994, 20, 199-208.   | 1.0 | 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.                        | 0.4 | 12        |
| 68 | Record Indices and Age-Ordered Frequencies in Exchangeable Gibbs Partitions. <i>Electronic Journal of Probability</i> , 2007, 12, .   | 0.5 | 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.  | 0.4 | 11        |
| 70 | The number of alleles in multigene families. <i>Theoretical Population Biology</i> , 1990, 37, 110-123.   | 0.5 | 11        |
| 71 | Importance sampling on coalescent histories. I. <i>Advances in Applied Probability</i> , 2004, 36, 417-433.   | 0.4 | 11        |
| 72 | Coalescent lineage distributions. <i>Advances in Applied Probability</i> , 2006, 38, 405-429.   | 0.4 | 11        |

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|----|---|-----|-----------|
| 73 | Experiments with the Site Frequency Spectrum. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 829-872.  | 0.9 | 11        |
| 74 | Orthogonal polynomial kernels and canonical correlations for Dirichlet measures. <i>Bernoulli</i> , 2013, 19, .   | 0.7 | 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. | 0.3 | 11        |
| 76 | Orthogonal polynomials on the negative multinomial distribution. <i>Journal of Multivariate Analysis</i> , 1975, 5, 271-277.  | 0.5 | 9         |
| 77 | Genetic identity between populations when mutation rates vary within and across loci. <i>Journal of Mathematical Biology</i> , 1980, 10, 195-204.   | 0.8 | 9         |
| 78 | Coalescent lineage distributions. <i>Advances in Applied Probability</i> , 2006, 38, 405-429.   | 0.4 | 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.  | 0.4 | 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.  | 0.8 | 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.               | 0.8 | 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.   | 1.1 | 7         |
| 85 | Two chromosomes with multigene families. <i>Theoretical Population Biology</i> , 1991, 39, 263-272.   | 0.5 | 6         |
| 86 | Wright-Fisher diffusion bridges. <i>Theoretical Population Biology</i> , 2018, 122, 67-77.  | 0.5 | 6         |
| 87 | POSITIVE DEFINITE SEQUENCES AND CANONICAL CORRELATION COEFFICIENTS <sup>1</sup> . <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.         | 0.5 | 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.                | 0.5 | 5         |
| 90 | ON A BIVARIATE TRIANGULAR DISTRIBUTION <sup>1</sup> . <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.   | 0.9 | 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. | 0.5 | 3         |
| 93  | Ancestral inference from haplotypes and mutations. <i>Theoretical Population Biology</i> , 2018, 122, 12-21.   | 0.5 | 3         |
| 94  | Reproducing kernel orthogonal polynomials on the multinomial distribution. <i>Journal of Approximation Theory</i> , 2019, 242, 1-30.   | 0.5 | 3         |
| 95  | Distribution of the number of alleles in multigene families. <i>Journal of Applied Probability</i> , 1992, 29, 759-769.  | 0.4 | 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.                              | 0.8 | 2         |
| 97  | A universal approach to matching marginals and sums. <i>Electronic Communications in Probability</i> , 2020, 25, .   | 0.1 | 2         |
| 98  | Permanents of Random Doubly Stochastic Matrices. <i>Canadian Journal of Mathematics</i> , 1974, 26, 600-607.   | 0.3 | 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.  | 0.4 | 1         |
| 101 | A Multi-Type $\hat{\nu}$ -Coalescent. <i>Lecture Notes in Statistics</i> , 2016, , 23-37.  | 0.1 | 1         |
| 102 | The stationary and quasi-stationary properties of neutral multi-type branching process diffusions. <i>Stochastic Models</i> , 2023, 39, 185-218.   | 0.3 | 1         |
| 103 | A class of bivariate Poisson processes. <i>Advances in Applied Probability</i> , 1979, 11, 272-273.  | 0.4 | 0         |
| 104 | Which locus has the oldest allele?. <i>Journal of Mathematical Biology</i> , 1991, 29, 763-777.  | 0.8 | 0         |
| 105 | The star-shaped $\hat{\nu}$ -coalescent and Fleming–Viot process. <i>Stochastic Models</i> , 2016, 32, 606-631.  | 0.3 | 0         |
| 106 | A Class of Non-Reversible Hypercube Long-Range Random Walks and Bernoulli Autoregression. <i>Journal of Theoretical Probability</i> , 0, , 1.  | 0.4 | 0         |