Jon Wakefield

List of Publications by Year
in descending order

120 papers	5,408 citations	101543 36 h-index	98798 67 g-index
126 all docs	126 docs citations	126 times ranked	10769 citing authors

#	Article	IF	Citations
1	A Bayesian Measure of the Probability of False Discovery in Genetic Epidemiology Studies. American Journal of Human Genetics, 2007, 81, 208-227.	6.2	440
2	Excavating Neandertal and Denisovan DNA from the genomes of Melanesian individuals. Science, 2016, 352, 235-239.	12.6	391
3	Bayes factors for genomeâ€wide association studies: comparison with Pâ€values. Genetic Epidemiology, 2009, 33, 79-86.	1.3	369
4	Disease mapping and spatial regression with count data. Biostatistics, 2007, 8, 158-183.	1.5	250
5	Hand, Foot, and Mouth Disease in China. Epidemiology, 2011, 22, 781-792.	2.7	206
6	Bayesian inference for generalized linear mixed models. Biostatistics, 2010, 11, 397-412.	1.5	205
7	Socio-economic status and oesophageal cancer: results from a population-based caseâ€“control study in a high-risk area. International Journal of Epidemiology, 2009, 38, 978-988.	1.9	193
8	A powerful and flexible statistical framework for testing hypotheses of allele-specific gene expression from RNA-seq data. Genome Research, 2011, 21, 1728-1737.	5.5	181
9	Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. Nature, 2019, 574, 353-358.	27.8	161
10	The Bayesian Analysis of Population Pharmacokinetic Models. Journal of the American Statistical Association, 1996, 91, 62-75.	3.1	146
11	Integrative phenomics reveals insight into the structure of phenotypic diversity in budding yeast. Genome Research, 2013, 23, 1496-1504.	5.5	138
12	Bayesian analysis of population PK/PD models: general concepts and software. Journal of Pharmacokinetics and Pharmacodynamics, 2002, 29, 271-307.	1.8	137
13	Impacts of Neanderthal-Introgressed Sequences on the Landscape of Human Gene Expression. Cell, 2017, 168, 916-927.e12.	28.9	136
14	Ecological inference for 2 x 2 tables. Journal of the Royal Statistical Society Series A: Statistics in Society, 2004, 167, 385-425.	1.1	117
15	Bayesian and Frequentist Regression Methods. Springer Series in Statistics, 2013, , .	0.9	90
16	Issues in the statistical analysis of small area health data. , 1999, 18, 2377-2399.		85
17	Health-exposure modeling and the ecological fallacy. Biostatistics, 2005, 7, 438-455.	1.5	81
18	Sensitivity Analyses for Ecological Regression. Biometrics, 2003, 59, 9-17.	1.4	80

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19	Modelling daily multivariate pollutant data at multiple sites. Journal of the Royal Statistical Society Series C: Applied Statistics, 2002, 51, 351-372.	1.0	75
20	Population modelling in drug development. Statistical Methods in Medical Research, 1999, 8, 183-193.	1.5	72
21	Multi-level modelling, the ecologic fallacy, and hybrid study designs. International Journal of Epidemiology, 2009, 38, 330-336.	1.9	70
22	A Review and Comparison of Ageâ€“Periodâ€“Cohort Models for Cancer Incidence. Statistical Science, 2016, 31, .	2.8	64
23	Reporting and interpretation in genome-wide association studies. International Journal of Epidemiology, 2008, 37, 641-653.	1.9	61
24	Geographical epidemiology of prostate cancer in Great Britain. International Journal of Cancer, 2002, 97, 695-699.	5.1	60
25	The Bayesian Modeling of Covariates for Population Pharmacokinetic Models. Journal of the American Statistical Association, 1996, 91, 917-927.	3.1	57
26	Fine Particulate Matter Exposure and Initial Pseudomonas aeruginosa Acquisition in Cystic Fibrosis. Annals of the American Thoracic Society, 2015, 12, 385-391.	3.2	57
27	Bayesian individualization via sampling-based methods. Journal of Pharmacokinetics and Pharmacodynamics, 1996, 24, 103-131.	0.6	55
28	AN APPLICATION OF BAYESIAN POPULATION PHARMACOKINETIC/PHARMACODYNAMIC MODELS TO DOSE RECOMMENDATION. Statistics in Medicine, 1995, 14, 971-986.	1.6	54
29	Ecological regression analysis of environmental benzene exposure and childhood leukaemia: sensitivity to data inaccuracies, geographical scale and ecological bias. Journal of the Royal Statistical Society Series A: Statistics in Society, 2001, 164, 155-174.	1.1	53
30	The use of sampling weights in Bayesian hierarchical models for small area estimation. Spatial and Spatio-temporal Epidemiology, 2014, 11, 33-43.	1.7	52
31	Africaâ€™s Oesophageal Cancer Corridor: Geographic Variations in Incidence Correlate with Certain Micronutrient Deficiencies. PLoS ONE, 2015, 10, e0140107.	2.5	50
32	Spaceâ€“time smoothing of complex survey data: Small area estimation for child mortality. Annals of Applied Statistics, 2015, 9, 1889-1905.	1.1	49
33	A comparison of spatial smoothing methods for small area estimation with sampling weights. Spatial Statistics, 2014, 8, 69-85.	1.9	48
34	Changes in the spatial distribution of the under-five mortality rate: Small-area analysis of 122 DHS surveys in 262 subregions of 35 countries in Africa. PLoS ONE, 2019, 14, e0210645.	2.5	48
35	Patterns of Food and Nutrient Consumption in Northern Iran, a High-Risk Area for Esophageal Cancer. Nutrition and Cancer, 2009, 61, 475-483.	2.0	44
36	Statistical methods for population pharmacokinetic modelling. Statistical Methods in Medical Research, 1998, 7, 63-84.	1.5	42

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37	Smoking water-pipe, chewing nass and prevalence of heart disease: a cross-sectional analysis of baseline data from the Golestan Cohort Study, Iran. Heart, 2013, 99, 272-278.	2.9	42
38	The Bayesian Analysis of Population Pharmacokinetic Models. Journal of the American Statistical Association, 1996, 91, 62.	3.1	37
39	Estimating under-five mortality in space and time in a developing world context. Statistical Methods in Medical Research, 2019, 28, 2614-2634.	1.5	35
40	An Expected Loss Approach to the Design of Dosage Regimens Via Sampling-Based Methods. Journal of the Royal Statistical Society: Series D (the Statistician), 1994, 43, 13.	0.2	33
41	Associations between social capital and depression: A study of adult twins. Health and Place, 2018, 50, 162-167.	3.3	33
42	Bayesian Methods for Examining Hardyâ€“Weinberg Equilibrium. Biometrics, 2010, 66, 257-265.	1.4	32
43	Gamma Generalized Linear Models for Pharmacokinetic Data. Biometrics, 2008, 64, 620-626.	1.4	31
44	Bayesian penalized spline models for the analysis of spatio-temporal count data. Statistics in Medicine, 2016, 35, 1848-1865.	1.6	30
45	Air pollution exposure is associated with MRSA acquisition in young U.S. children with cystic fibrosis. BMC Pulmonary Medicine, 2017, 17, 106.	2.0	30
46	Overcoming Ecologic Bias using the Two-Phase Study Design. American Journal of Epidemiology, 2008, 167, 908-916.	3.4	27
47	Sequence Variants of NAT1 and NAT2 and Other Xenometabolic Genes and Risk of Lung and Aerodigestive Tract Cancers in Central Europe. Cancer Epidemiology Biomarkers and Prevention, 2008, 17, 141-147.	2.5	26
48	The Bayesian approach to Population pharmacokinetic/pharmacodynamic modeling. Lecture Notes in Statistics, 1999, , 205-265.	0.2	26
49	Ecological Inference for 2 Ã— 2 Tables (with Discussion). Journal of the Royal Statistical Society Series A: Statistics in Society, 2004, 167, 385-445.	1.1	23
50	Associations between neighbourhood characteristics and depression: a twin study. Journal of Epidemiology and Community Health, 2018, 72, 202-207.	3.7	23
51	Naomi: a new modelling tool for estimating HIV epidemic indicators at the district level in subâ€Saharan Africa. Journal of the International AIDS Society, 2021, 24, e25788.	3.0	23
52	A hybrid model for reducing ecological bias. Biostatistics, 2008, 9, 1-17.	1.5	22
53	Ecological inference in the social sciences. Statistical Methodology, 2010, 7, 307-322.	0.5	22
54	Differential Geographical Risk of Initial Pseudomonas aeruginosa Acquisition in Young US Children With Cystic Fibrosis. American Journal of Epidemiology, 2014, 179, 1503-1513.	3.4	22

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55	The hierarchical Bayesian approach to population pharmacokinetic modelling. International Journal of Bio-medical Computing, 1994, 36, 35-42.	0.5	21
56	Evolution and Genetic Architecture of Chromatin Accessibility and Function in Yeast. PLoS Genetics, 2014, 10, e1004427.	3.5	21
57	Temporal Trends in Geographic and Sociodemographic Disparities in Colorectal Cancer Among Medicare Patients, 1973â€2010. Journal of Rural Health, 2017, 33, 361-370.	2.9	21
58	Errors-in-Variables in Joint Population Pharmacokinetic/Pharmacodynamic Modeling. Biometrics, 2001, 57, 803-812.	1.4	20
59	Disease clusters: should they be investigated, and, if so, when and how?. Journal of the Royal Statistical Society Series A: Statistics in Society, 2001, 164, 3-12.	1.1	20
60	Introduction to the Design and Analysis of Complex Survey Data. Statistical Science, 2017, 32, .	2.8	20
61	Using Small-Area Estimation to Calculate the Prevalence of Smoking by Subcounty Geographic Areas in King County, Washington, Behavioral Risk Factor Surveillance System, 2009â€“2013. Preventing Chronic Disease, 2016, 13, E59.	3.4	19
62	A Bayesian Mixture Model for Partitioning Gene Expression Data. Biometrics, 2006, 62, 515-525.	1.4	18
63	Alleviating linear ecological bias and optimal design with subsample data. Journal of the Royal Statistical Society Series A: Statistics in Society, 2007, 171, 071029094155004-???.	1.1	18
64	Pointless spatial modeling. Biostatistics, 2020, 21, e17-e32.	1.5	18
65	Predictive modeling of cholera outbreaks in Bangladesh. Annals of Applied Statistics, 2016, 10, 575-595.	1.1	17
66	Using Prior Information from the Medical Literature in GWAS of Oral Cancer Identifies Novel Susceptibility Variant on Chromosome 4 - the AdAPT Method. PLoS ONE, 2012, 7, e36888.	2.5	17
67	Bayesian nonparametric population models: formulation and comparison with likelihood approaches. Journal of Pharmacokinetics and Pharmacodynamics, 1997, 25, 235-253.	0.6	16
68	Seasonality of acquisition of respiratory bacterial pathogens in young children with cystic fibrosis. BMC Infectious Diseases, 2017, 17, 411.	2.9	16
69	Stratified Spaceâ€“Time Infectious Disease Modelling, with an Application to Hand, Foot and Mouth Disease in China. Journal of the Royal Statistical Society Series C: Applied Statistics, 2018, 67, 1379-1398.	1.0	15
70	Trends in Sociodemographic Disparities in Colorectal Cancer Staging and Survival: A SEERâ€“Medicare Analysis. Clinical and Translational Gastroenterology, 2020, 11, e00155.	2.5	14
71	Efficient Data Augmentation for Fitting Stochastic Epidemic Models to Prevalence Data. Journal of Computational and Graphical Statistics, 2017, 26, 918-929.	1.7	13
72	Modeling and presentation of vaccination coverage estimates using data from household surveys. Vaccine, 2021, 39, 2584-2594.	3.8	13

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73	A linear noise approximation for stochastic epidemic models fit to partially observed incidence counts. Biometrics, 2022, 78, 1530-1541.	1.4	13
74	Bayes computation for ecological inference. Statistics in Medicine, 2011, 30, 1381-1396.	1.6	12
75	A POPULATION APPROACH TO INITIAL DOSE SELECTION. Statistics in Medicine, 1997, 16, 1135-1149.	1.6	11
76	Design- and Model-Based Approaches to Small-Area Estimation in a Low- and Middle-Income Country Context: Comparisons and Recommendations. Journal of Survey Statistics and Methodology, 2022, 10, 50-80.	1.2	11
77	A Hierarchical Aggregate Data Model with Spatially Correlated Disease Rates. Biometrics, 2002, 58, 898-905.	1.4	10
78	Estimating seroprevalence of SARS-CoV-2 in Ohio: A Bayesian multilevel poststratification approach with multiple diagnostic tests. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
79	Commentary: Genome-wide significance thresholds via Bayes factors. International Journal of Epidemiology, 2012, 41, 286-291.	1.9	9
80	Heritable variation of mRNA decay rates in yeast. Genome Research, 2014, 24, 2000-2010.	5.5	9
81	Ecological inference for infectious disease data, with application to vaccination strategies. Statistics in Medicine, 2020, 39, 220-238.	1.6	6
82	A transdimensional Bayesian model for pattern recognition in DNA sequences. Biostatistics, 2008, 9, 668-685.	1.5	5
83	Restricted Covariance Priors with Applications in Spatial Statistics. Bayesian Analysis, 2015, 10, 965-990.	3.0	5
84	Comment: Getting into Space with a Weight Problem. Journal of the American Statistical Association, 2016, 111, 1111-1118.	3.1	5
85	Spatial Clustering of Myelodysplastic Syndromes (MDS) in the Seattle-Puget Sound Region of Washington State. Cancer Causes and Control, 2010, 21, 829-838.	1.8	4
86	Child mortality estimation incorporating summary birth history data. Biometrics, 2021, 77, 1456-1466.	1.4	4
87	Controlling for provider of treatment in the modelling of respiratory disease risk near cokeworks. Statistics in Medicine, 2004, 23, 3139-3158.	1.6	3
88	Bayesian mixture modeling using a hybrid sampler with application to protein subfamily identification. Biostatistics, 2010, 11, 18-33.	1.5	3
89	An Efficient Markov Chain Monte Carlo Method for Mixture Models by Neighborhood Pruning. Journal of Computational and Graphical Statistics, 2012, 21, 197-216.	1.7	3
90	Alleviating Ecological Bias in Poisson Models Using Optimal Subsampling. Sociological Methodology, 2014, 44, 159-184.	2.4	3

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91	Harmonizing child mortality data at disparate geographic levels. Statistical Methods in Medical Research, 2021, 30, 1187-1210.	1.5	3
92	Estimation of health and demographic indicators with incomplete geographic information. Spatial and Spatio-temporal Epidemiology, 2021, 37, 100421.	1.7	3
93	Issues in the statistical analysis of small area health data. Statistics in Medicine, 1999, 18, 2377-2399.	1.6	3
94	Bayesian hierarchical models for smoothing in two-phase studies, with application to small area estimation. Journal of the Royal Statistical Society Series A: Statistics in Society, 2015, 178, 1009-1023.	1.1	2
95	Time Series Modeling of Pathogen-Specific Disease Probabilities with Subsampled Data. Biometrics, 2017, 73, 283-293.	1.4	2
96	Comments on â€˜The BUGS project: Evolution, critique and future directionsâ€™. Statistics in Medicine, 2009, 28, 3079-3080.	1.6	1
97	Frequentist Inference. Springer Series in Statistics, 2012, , 27-83.	0.9	1
98	Binary Data Models. Springer Series in Statistics, 2012, , 305-350.	0.9	1
99	Nonparametric Regression with Multiple Predictors. Springer Series in Statistics, 2012, , 597-645.	0.9	1
100	Introduction and Motivating Examples. Springer Series in Statistics, 2012, , 1-24.	0.9	1
101	Bayesian Inference for Twoâ€Phase Studies with Categorical Covariates. Biometrics, 2013, 69, 469-477.	1.4	1
102	Spaceâ€time modeling of child mortality at the Adminâ€2 level in a low and middle income countries context. Statistics in Medicine, 2021, 40, 1593-1638.	1.6	1
103	Space-time smoothing models for subnational measles routine immunization coverage estimation with complex survey data. Annals of Applied Statistics, 2021, 15, .	1.1	1
104	Bayesian multiresolution modeling of georeferenced data: An extension of â€˜LatticeKrigâ€™. Computational Statistics and Data Analysis, 2022, 173, 107503.	1.2	1
105	Bayesian Inference. Springer Series in Statistics, 2012, , 85-151.	0.9	0
106	Hypothesis Testing and Variable Selection. Springer Series in Statistics, 2012, , 153-191.	0.9	0
107	Linear Models. Springer Series in Statistics, 2012, , 195-252.	0.9	0
108	General Regression Models. Springer Series in Statistics, 2012, , 253-303.	0.9	0

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109	Linear Models. Springer Series in Statistics, 2012, , 353-423.	0.9	0
110	General Regression Models. Springer Series in Statistics, 2012, , 425-500.	0.9	0
111	Preliminaries for Nonparametric Regression. Springer Series in Statistics, 2012, , 503-545.	0.9	0
112	Spline and Kernel Methods. Springer Series in Statistics, 2012, , 547-595.	0.9	0
113	Differentiation of Matrix Expressions. Springer Series in Statistics, 2012, , 649-651.	0.9	0
114	Matrix Results. Springer Series in Statistics, 2012, , 653-654.	0.9	0
115	Some Linear Algebra. Springer Series in Statistics, 2012, , 655-655.	0.9	0
116	Probability Distributions and Generating Functions. Springer Series in Statistics, 2012, , 657-665.	0.9	0
117	Functions of Normal Random Variables. Springer Series in Statistics, 2012, , 667-667.	0.9	0
118	Some Results from Classical Statistics. Springer Series in Statistics, 2012, , 669-671.	0.9	0
119	Basic Large Sample Theory. Springer Series in Statistics, 2012, , 673-674.	0.9	0
120	A flexible Bayesian framework to estimate age- and cause-specific child mortality over time from sample registration data. Annals of Applied Statistics, 2022, 16, .	1.1	0