

Wesley O Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,335
citations

186265

28
h-index

155660

55
g-index

81
all docs

81
docs citations

81
times ranked

2674
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of sensitivity and specificity of diagnostic tests and disease prevalence when the true disease state is unknown. Preventive Veterinary Medicine, 2000, 45, 61-81.	1.9	396
2	A New Perspective on Priors for Generalized Linear Models. Journal of the American Statistical Association, 1996, 91, 1450-1460.	3.1	202
3	Modeling Regression Error With a Mixture of Polya Trees. Journal of the American Statistical Association, 2002, 97, 1020-1033.	3.1	174
4	STARD-BLCM: Standards for the Reporting of Diagnostic accuracy studies that use Bayesian Latent Class Models. Preventive Veterinary Medicine, 2017, 138, 37-47.	1.9	161
5	Comparison of methods for estimation of individual-level prevalence based on pooled samples. Preventive Veterinary Medicine, 1999, 39, 211-225.	1.9	148
6	Correlation-adjusted estimation of sensitivity and specificity of two diagnostic tests. Journal of the Royal Statistical Society Series C: Applied Statistics, 2003, 52, 63-76.	1.0	146
7	A New Perspective on Priors for Generalized Linear Models. Journal of the American Statistical Association, 1996, 91, 1450.	3.1	140
8	Bayesian Ideas and Data Analysis. , 0, , .		125
9	A Predictive View of the Detection and Characterization of Influential Observations in Regression Analysis. Journal of the American Statistical Association, 1983, 78, 137-144.	3.1	123
10	Identifiability of Models for Multiple Diagnostic Testing in the Absence of a Gold Standard. Biometrics, 2010, 66, 855-863.	1.4	99
11	Modelling risk when binary outcomes are subject to error. Statistics in Medicine, 2004, 23, 1095-1109.	1.6	96
12	Screening with Cost-Effective Quality Control: Potential Applications to HIV and Drug Testing. Journal of the American Statistical Association, 1994, 89, 972-981.	3.1	78
13	The Bayesian Two-Sample Test. American Statistician, 2005, 59, 252-257.	1.6	74
14	BAYESIAN BETA REGRESSION: APPLICATIONS TO HOUSEHOLD EXPENDITURE DATA AND GENETIC DISTANCE BETWEEN FOOT-AND-MOUTH DISEASE VIRUSES. Australian and New Zealand Journal of Statistics, 2007, 49, 287-301.	0.9	71
15	Hierarchical models for estimating herd prevalence and test accuracy in the absence of a gold standard. Journal of Agricultural, Biological, and Environmental Statistics, 2003, 8, 223-239.	1.4	70
16	Pooled-Sample Testing as a Herd-Screening Tool for Detection of Bovine Viral Diarrhea Virus Persistently Infected Cattle. Journal of Veterinary Diagnostic Investigation, 2000, 12, 195-203.	1.1	68
17	Bayesian inferences for receiver operating characteristic curves in the absence of a gold standard. Journal of Agricultural, Biological, and Environmental Statistics, 2006, 11, 210-229.	1.4	66
18	Factors affecting sensitivity and specificity of pooled-sample testing for diagnosis of low prevalence infections. Preventive Veterinary Medicine, 2006, 74, 309-322.	1.9	51

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19	Bayesian semiparametric ROC curve estimation and disease diagnosis. <i>Statistics in Medicine</i> , 2008, 27, 2474-2496.	1.6	51
20	Bayesian Binomial Regression: Predicting Survival at a Trauma Center. <i>American Statistician</i> , 1997, 51, 211.	1.6	49
21	Sample Size Calculations for Surveys to Substantiate Freedom of Populations from Infectious Agents. <i>Biometrics</i> , 2004, 60, 165-171.	1.4	41
22	Gold standards are out and Bayes is in: Implementing the cure for imperfect reference tests in diagnostic accuracy studies. <i>Preventive Veterinary Medicine</i> , 2019, 167, 113-127.	1.9	41
23	A Bayesian Semiparametric AFT Model for Interval-Censored Data. <i>Journal of Computational and Graphical Statistics</i> , 2004, 13, 341-361.	1.7	39
24	Bayesian Binomial Regression: Predicting Survival at a Trauma Center. <i>American Statistician</i> , 1997, 51, 211-218.	1.6	36
25	Bayesian analysis of screening data: Application to AIDS in blood donors. <i>Canadian Journal of Statistics</i> , 1991, 19, 135-150.	0.9	35
26	Split Hamiltonian Monte Carlo. <i>Statistics and Computing</i> , 2014, 24, 339-349.	1.5	34
27	Circulating Sex Hormones and Risk of Uterine Fibroids: Study of Women's Health Across the Nation (SWAN). <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 123-130.	3.6	33
28	On the interpretation of test sensitivity in the two-test two-population problem: Assumptions matter. <i>Preventive Veterinary Medicine</i> , 2009, 91, 116-121.	1.9	30
29	Associations between urinary biomarkers of polycyclic aromatic hydrocarbon exposure and reproductive function during menstrual cycles in women. <i>Environment International</i> , 2017, 100, 110-120.	10.0	30
30	Factors associated with reasons incontinent midlife women report for not seeking urinary incontinence treatment over 9 years across the menopausal transition. <i>Menopause</i> , 2018, 25, 29-37.	2.0	30
31	A Predictive View of the Detection and Characterization of Influential Observations in Regression Analysis. <i>Journal of the American Statistical Association</i> , 1983, 78, 137.	3.1	30
32	A mixture model for bovine abortion and foetal survival. <i>Statistics in Medicine</i> , 2003, 22, 1725-1739.	1.6	26
33	Diagnosis using predictive probabilities without cut-offs. <i>Statistics in Medicine</i> , 2006, 25, 699-717.	1.6	25
34	Bayesian accelerated failure time analysis with application to veterinary epidemiology. , 2000, 19, 221-237.		24
35	Dual group screening. <i>Journal of Statistical Planning and Inference</i> , 2000, 83, 449-473.	0.6	23
36	A Statistical Model for Assessing Sample Size for Bacterial Colony Selection: A Case Study of <i>Escherichia Coli</i> and Avian Cellulitis. <i>Journal of Veterinary Diagnostic Investigation</i> , 2000, 12, 118-125.	1.1	23

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37	Diagnostic test accuracy and prevalence inferences based on joint and sequential testing with finite population sampling. <i>Statistics in Medicine</i> , 2004, 23, 2237-2255.	1.6	23
38	Log-linear and logistic modeling of dependence among diagnostic tests. <i>Preventive Veterinary Medicine</i> , 2000, 45, 123-137.	1.9	22
39	Diagnostic Performance Tests for Suspected Scaphoid Fractures Differ with Conventional and Latent Class Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2011, 469, 3400-3407.	1.5	22
40	Comparison of pre- and post-vaccination ovine Johne's disease prevalence using a Bayesian approach. <i>Preventive Veterinary Medicine</i> , 2013, 111, 81-91.	1.9	22
41	Flexible regression models for ROC and risk analysis, with or without a gold standard. <i>Statistics in Medicine</i> , 2015, 34, 3997-4015.	1.6	22
42	Screening with Cost-Effective Quality Control: Potential Applications to HIV and Drug Testing. <i>Journal of the American Statistical Association</i> , 1994, 89, 972.	3.1	21
43	Determining the infection status of a herd. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2003, 8, 469-485.	1.4	20
44	Triglyceride Levels and Fracture Risk in Midlife Women: Study of Women's Health Across the Nation (SWAN). <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 3297-3305.	3.6	20
45	Patterns of Cardiometabolic Health as Midlife Women Transition to Menopause: A Prospective Multiethnic Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 1404-1412.	3.6	20
46	Bayesian nonparametric survival analysis for grouped data. <i>Canadian Journal of Statistics</i> , 1986, 14, 307-314.	0.9	19
47	A Bayesian Approach to Estimate OJD Prevalence From Pooled Fecal Samples of Variable Pool Size. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2010, 15, 452-473.	1.4	19
48	Prior Elicitation: Interactive Spreadsheet Graphics With Sliders Can Be Fun, and Informative. <i>American Statistician</i> , 2014, 68, 42-51.	1.6	18
49	Regression models for time to seroconversion following experimental bovine leukaemia virus infection. <i>Statistics in Medicine</i> , 1989, 8, 725-741.	1.6	15
50	A method of probability diagnostic assignment that applies Bayes theorem for use in serologic diagnostics, using an example of <i>Neospora caninum</i> infection in cattle. <i>American Journal of Veterinary Research</i> , 2002, 63, 318-325.	0.6	15
51	Bayesian inference for prevalence and diagnostic test accuracy based on dual-pooled screening. <i>Biostatistics</i> , 2005, 7, 41-57.	1.5	14
52	Bayesian estimation of the sensitivity and specificity of individual fecal culture and Paralisa to detect <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> infection in young farmed deer. <i>Journal of Veterinary Diagnostic Investigation</i> , 2013, 25, 759-764.	1.1	12
53	Bayesian modeling and inference for diagnostic accuracy and probability of disease based on multiple diagnostic biomarkers with and without a perfect reference standard. <i>Statistics in Medicine</i> , 2016, 35, 859-876.	1.6	12
54	The Detection of Influential Observations for Allocation, Separation, and the Determination of Probabilities in a Bayesian Framework. <i>Journal of Business and Economic Statistics</i> , 1987, 5, 369-381.	2.9	11

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55	Sample size calculations for studies designed to evaluate diagnostic test accuracy. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2007, 12, 112-127.	1.4	11
56	Semiparametric inference for survival models with step process covariates. <i>Canadian Journal of Statistics</i> , 2009, 37, 60-79.	0.9	11
57	Modeling bivariate longitudinal diagnostic outcome data in the absence of a gold standard. <i>Statistics and Its Interface</i> , 2009, 2, 171-185.	0.3	10
58	Evaluating a Continuous Biomarker for Infection by using Observed Disease Status with Covariate Effects on Disease. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2009, 58, 705-717.	1.0	9
59	Environmental tobacco smoke and risk of late-diagnosis incident fibroids in the Study of Women's Health across the Nation (SWAN). <i>Fertility and Sterility</i> , 2016, 106, 1157-1164.	1.0	9
60	Dual Screening. <i>Biometrics</i> , 1999, 55, 867-873.	1.4	8
61	NONNESTED LINEAR MODEL SELECTION REVISITED. <i>Communications in Statistics - Theory and Methods</i> , 2001, 30, 1-20.	1.0	8
62	Robust Medical Test Evaluation Using Flexible Bayesian Semiparametric Regression Models. <i>Epidemiology Research International</i> , 2013, 2013, 1-8.	0.2	7
63	Reporting guidelines for diagnostic accuracy studies that use Bayesian latent class models (STARD α BLCM). <i>Statistics in Medicine</i> , 2017, 36, 3603-3604.	1.6	7
64	A Bayesian Superpopulation Approach to Inference for Finite Populations Based on Imperfect Diagnostic Outcomes. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2016, 21, 314-327.	1.4	6
65	Comparing Objective and Subjective Bayes Factors for the Two-Sample Comparison: The Classification Theorem in Action. <i>American Statistician</i> , 2019, 73, 22-31.	1.6	5
66	Testing independence when the form of the bivariate distribution is unspecified. <i>Statistics in Medicine</i> , 1995, 14, 1621-1639.	1.6	4
67	Large-Sample Joint Posterior Approximations When Full Conditionals Are Approximately Normal. <i>Journal of the American Statistical Association</i> , 2006, 101, 795-811.	3.1	4
68	Comment: Bayesian Statistics in the Twenty First Century. <i>American Statistician</i> , 2013, 67, 9-11.	1.6	4
69	The Evolution of Teaching Bayesian Statistics to Nonstatisticians. <i>American Statistician</i> , 2008, 62, 199-201.	1.6	3
70	A monte carlo comparison of bayesian estimators and trimmed means. <i>Journal of Statistical Computation and Simulation</i> , 1986, 25, 167-192.	1.2	2
71	Bayesian estimation of cluster-level test accuracy based on different sampling schemes. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2007, 12, 250-271.	1.4	2
72	More nonparametric Bayesian inference in applications. <i>Statistical Methods and Applications</i> , 2018, 27, 239-251.	1.2	2

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73	Hierarchical Models for Estimating Herd Prevalence and Test Accuracy in the Absence of a Gold Standard. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2003, 8, 223-239.	1.4	2
74	Bayesian semi-parametric joint modeling of biomarker data with a latent changepoint: assessing the temporal performance of Enzyme-Linked Immunosorbent Assay (ELISA) testing for paratuberculosis. <i>Statistics and Its Interface</i> , 2014, 7, 417-438.	0.3	2
75	The non-significance of straw man arguments. <i>Behavioral and Brain Sciences</i> , 1998, 21, 226-227.	0.7	1
76	Bayesian Methods in Public Health. <i>Handbook of Statistics</i> , 2017, 36, 407-442.	0.6	1
77	Rejoinder for "Predictive comparison of joint longitudinal-survival modeling: a case study illustrating competing approaches". <i>Lifetime Data Analysis</i> , 2011, 17, 37-42.	0.9	0
78	Comment on "Group Testing Ready for Prime Time in Disease Identification?". <i>Statistics in Medicine</i> , 2021, 40, 3889-3891.	1.6	0
79	Analysis of German BSE Surveillance Data: Estimation of the Prevalence of Confirmed Cases versus the Number of Infected, but Non-Detected, Cattle to Assess Confidence in Freedom from Infection. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9966.	2.6	0
80	Normal Approximation for Bayesian Mixed Effects Binomial Regression Models. <i>Bayesian Analysis</i> , 2022, -1, .	3.0	0