## Paul Gustafson

List of Publications by Year in descending order

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140 papers 3,071 citations

201674 27 h-index 214800 47 g-index

146 all docs

146
docs citations

146 times ranked 3788 citing authors

#	Article	IF	CITATIONS
1	Association Between Use of Interferon Beta and Progression of Disability in Patients With Relapsing-Remitting Multiple Sclerosis. JAMA - Journal of the American Medical Association, 2012, 308, 247-56.	7.4	234
2	On Model Expansion, Model Contraction, Identifiability and Prior Information: Two Illustrative Scenarios Involving Mismeasured Variables. Statistical Science, 2005, 20, 111.	2.8	143
3	Bayesian sensitivity analysis for unmeasured confounding in observational studies. Statistics in Medicine, 2007, 26, 2331-2347.	1.6	133
4	Incidence, risk factors, and prevention of hepatitis C reinfection: a population-based cohort study. The Lancet Gastroenterology and Hepatology, 2017, 2, 200-210.	8.1	93
5	Neonatal Intensive Care Unit Characteristics Affect the Incidence of Severe Intraventricular Hemorrhage. Medical Care, 2006, 44, 754-759.	2.4	92
6	STRATOS guidance document on measurement error and misclassification of variables in observational epidemiology: Part 1—Basic theory and simple methods of adjustment. Statistics in Medicine, 2020, 39, 2197-2231.	1.6	90
7	Case-Control Analysis with Partial Knowledge of Exposure Misclassification Probabilities. Biometrics, 2001, 57, 598-609.	1.4	83
8	Bayesian propensity score analysis for observational data. Statistics in Medicine, 2009, 28, 94-112.	1.6	79
9	Global estimation of exposure to fine particulate matter (PM2.5) from household air pollution. Environment International, 2018, 120, 354-363.	10.0	77
10	Comparison of Statistical Approaches for Dealing With Immortal Time Bias in Drug Effectiveness Studies. American Journal of Epidemiology, 2016, 184, 325-335.	3.4	68
11	Expanding access to HAART: a cost-effective approach for treating and preventing HIV. Aids, 2010, 24, 1929-1935.	2.2	63
12	Marginal Structural Cox Models for Estimating the Association Between $\hat{l}^2$ -Interferon Exposure and Disease Progression in a Multiple Sclerosis Cohort. American Journal of Epidemiology, 2014, 180, 160-171.	3.4	61
13	Large Hierarchical Bayesian Analysis of Multivariate Survival Data. Biometrics, 1997, 53, 230.	1.4	60
14	Is Probabilistic Bias Analysis Approximately Bayesian?. Epidemiology, 2012, 23, 151-158.	2.7	54
15	Accounting for Independent Nondifferential Misclassification Does Not Increase Certainty that an Observed Association Is in the Correct Direction. American Journal of Epidemiology, 2006, 164, 63-68.	3.4	51
16	Regression B-spline smoothing in Bayesian disease mapping: with an application to patient safety surveillance. Statistics in Medicine, 2007, 26, 4455-4474.	1.6	45
17	Evaluating the safety of $\hat{I}^2$ -interferons in MS. Neurology, 2017, 88, 2310-2320.	1.1	45
18	STRATOS guidance document on measurement error and misclassification of variables in observational epidemiology: Part 2—More complex methods of adjustment and advanced topics. Statistics in Medicine, 2020, 39, 2232-2263.	1.6	43

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19	Multiple Sclerosis in Older Adults: The Clinical Profile and Impact of Interferon Beta Treatment. BioMed Research International, 2015, 2015, 1-11.	1.9	40
20	Discordance in Hormone Receptor Status Among Primary, Metastatic, and Second Primary Breast Cancers: Biological Difference or Misclassification?. Oncologist, 2014, 19, 592-601.	3.7	39
21	Comparing the Effects of Continuous and Discrete Covariate Mismeasurement, with Emphasis on the Dichotomization of Mismeasured Predictors. Biometrics, 2002, 58, 878-887.	1.4	37
22	Conservative prior distributions for variance parameters in hierarchical models. Canadian Journal of Statistics, 2006, 34, 377-390.	0.9	34
23	Curious phenomena in Bayesian adjustment for exposure misclassification. Statistics in Medicine, 2006, 25, 87-103.	1.6	30
24	A sensitivity analysis using information about measured confounders yielded improved uncertainty assessments for unmeasured confounding. Journal of Clinical Epidemiology, 2008, 61, 247-255.	5.0	29
25	Bayesian analysis of a matched case–control study with expert prior information on both the misclassification of exposure and the exposure–disease association. Statistics in Medicine, 2009, 28, 3411-3423.	1.6	29
26	Predictors identifying those at increased risk for STDs: a theory-guided review of empirical literature and clinical guidelines. International Journal of STD and AIDS, 2015, 26, 839-851.	1.1	29
27	What Are the Limits of Posterior Distributions Arising From Nonidentified Models, and Why Should We Care?. Journal of the American Statistical Association, 2009, 104, 1682-1695.	3.1	28
28	Geospatial indicators of exposure, sensitivity, and adaptive capacity to assess neighbourhood variation in vulnerability to climate change-related health hazards. Environmental Health, 2021, 20, 31.	4.0	28
29	The utility of prior information and stratification for parameter estimation with two screening tests but no gold standard. Statistics in Medicine, 2005, 24, 1203-1217.	1.6	27
30	Impact of Statistical Adjustment for Frequency of Venue Attendance in a Venue-based Survey of Men Who Have Sex With Men. American Journal of Epidemiology, 2013, 177, 1157-1164.	3.4	27
31	Household, community, sub-national and country-level predictors of primary cooking fuel switching in nine countries from the PURE study. Environmental Research Letters, 2019, 14, 085006.	5.2	27
32	The consolidation/transition model in moral reasoning development Developmental Psychology, 2001, 37, 187-197.	1.6	26
33	An innovative application of Bayesian disease mapping methods to patient safety research: a Canadian adverse medical event study. Statistics in Medicine, 2006, 25, 3960-3980.	1.6	25
34	The application of Bayesian analysis to issues in developmental research. International Journal of Behavioral Development, 2007, 31, 366-373.	2.4	25
35	Interval Estimation for Messy Observational Data. Statistical Science, 2009, 24, .	2.8	25
36	A comparison of Bayesian and Monte Carlo sensitivity analysis for unmeasured confounding. Statistics in Medicine, 2017, 36, 2887-2901.	1.6	25

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37	Effects of Multiple Forms of Information Bias on Estimated Prevalence of Suicide Attempts According to Sexual Orientation: An Application of a Bayesian Misclassification Correction Method to Data From a Systematic Review. American Journal of Epidemiology, 2019, 188, 239-249.	3.4	25
38	Towards reduction in bias in epidemic curves due to outcome misclassification through Bayesian analysis of time-series of laboratory test results: case study of COVID-19 in Alberta, Canada and Philadelphia, USA. BMC Medical Research Methodology, 2020, 20, 146.	3.1	25
39	A guided walk Metropolis algorithm. Statistics and Computing, 1998, 8, 357-364.	1.5	23
40	Probabilistic Approaches to Better Quantifying the Results of Epidemiologic Studies. International Journal of Environmental Research and Public Health, 2010, 7, 1520-1539.	2.6	23
41	Flexible Bayesian modelling for survival data. Lifetime Data Analysis, 1998, 4, 281-299.	0.9	22
42	The Performance of Random Coefficient Regression in Accounting for Residual Confounding. Biometrics, 2006, 62, 760-768.	1.4	22
43	Local Sensitivity of Inferences to Prior Marginals. Journal of the American Statistical Association, 1996, 91, 774-781.	3.1	21
44	On cross-validation of Bayesian models. Canadian Journal of Statistics, 2001, 29, 333-340.	0.9	21
45	A Bayesian approach to case-control studies with errors in covariables. Biostatistics, 2002, 3, 229-243.	1.5	21
46	Bayesian adjustment for exposure misclassification in case–control studies. Statistics in Medicine, 2010, 29, 994-1003.	1.6	19
47	Hierarchical priors for bias parameters in Bayesian sensitivity analysis for unmeasured confounding. Statistics in Medicine, 2012, 31, 383-396.	1.6	19
48	Conditional equivalence testing: An alternative remedy for publication bias. PLoS ONE, 2018, 13, e0195145.	2.5	19
49	Describing the Dynamics of Attention to TV Commercials: A Hierarchical Bayes Analysis of the Time to Zap an Ad. Journal of Applied Statistics, 2007, 34, 585-609.	1.3	18
50	Network metaâ€analysis of disconnected networks: How dangerous are random baseline treatment effects?. Research Synthesis Methods, 2017, 8, 465-474.	8.7	18
51	The impact of maternal smoking during pregnancy on childhood asthma: adjusted for exposure misclassification; results from the National Health and Nutrition Examination Survey, 2011–2012. Annals of Epidemiology, 2018, 28, 697-703.	1.9	18
52	Bayesian Regression Modeling with Interactions and Smooth Effects. Journal of the American Statistical Association, 2000, 95, 795-806.	3.1	17
53	Comparative effectiveness of buprenorphine-naloxone versus methadone for treatment of opioid use disorder: a population-based observational study protocol in British Columbia, Canada. BMJ Open, 2020, 10, e036102.	1.9	17
54	A simple approach to fitting Bayesian survival models. Lifetime Data Analysis, 2003, 9, 5-19.	0.9	15

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55	A Bayesian analysis of bivariate survival data from a multicentre cancer clinical trial. Statistics in Medicine, 1995, 14, 2523-2535.	1.6	14
56	On the Value of derivative evaluations and random walk suppression in Markov Chain Monte Carlo algorithms. Statistics and Computing, 2004, 14, 23-38.	1.5	14
57	A Bayesian approach to improving spatial estimates of prevalence of COVID-19 after accounting for misclassification bias in surveillance data in Philadelphia, PA. Spatial and Spatio-temporal Epidemiology, 2021, 36, 100401.	1.7	14
58	Sample size implications when biases are modelled rather than ignored. Journal of the Royal Statistical Society Series A: Statistics in Society, 2006, 169, 865-881.	1.1	13
59	Comparison of statistical approaches dealing with time-dependent confounding in drug effectiveness studies. Statistical Methods in Medical Research, 2018, 27, 1709-1722.	1.5	13
60	Decomposing posterior variance. Journal of Statistical Planning and Inference, 2004, 119, 311-327.	0.6	12
61	On Robustness and Model Flexibility in Survival Analysis: Transformed Hazard Models and Average Effects. Biometrics, 2007, 63, 69-77.	1.4	12
62	Risk of intracranial hypertension with intrauterine levonorgestrel. Therapeutic Advances in Drug Safety, 2015, 6, 110-113.	2.4	12
63	It can be dangerous to take epidemic curves of COVID-19 at face value. Canadian Journal of Public Health, 2020, 111, 397-400.	2.3	12
64	Hierarchical Bayes Analysis of Multilevel Health Services Data: A Canadian Neonatal Mortality Study. Health Services and Outcomes Research Methodology, 2004, 5, 5-26.	1.8	11
65	A Bayesian multilevel model for estimating the diet/disease relationship in a multicenter study with exposures measured with error: The EPIC study. Statistics in Medicine, 2008, 27, 6037-6054.	1.6	11
66	Hepatitis C cross-genotype immunity and implications for vaccine development. Scientific Reports, 2017, 7, 12326.	3.3	11
67	Misclassification. , 2014, , 639-658.		11
68	Extending logistic regression to model diffuse interactions. Statistics in Medicine, 2005, 24, 2089-2104.	1.6	10
69	On Average Predictive Comparisons and Interactions. International Statistical Review, 2008, 76, 419-432.	1.9	10
70	Local Sensitivity of Inferences to Prior Marginals. Journal of the American Statistical Association, 1996, 91, 774.	3.1	10
71	The effect of mixing-distribution misspecification in conjugate mixture models. Canadian Journal of Statistics, 1996, 24, 307-318.	0.9	9
72	Measurement error modelling with an approximate instrumental variable. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2007, 69, 797-815.	2.2	9

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73	On the Impact of Misclassification in an Ordinal Exposure Variable. Epidemiologic Methods, 2014, 3, .	0.9	9
74	Association between beta-interferon exposure and hospital events in multiple sclerosis. Pharmacoepidemiology and Drug Safety, 2014, 23, 1213-1222.	1.9	9
75	Bayesian regression models adjusting for unidirectional covariate misclassification. Canadian Journal of Statistics, 2016, 44, 198-218.	0.9	9
76	On the simultaneous effects of model misspecification and errors in variables. Canadian Journal of Statistics, 2002, 30, 463-474.	0.9	8
77	Covariate balance in a Bayesian propensity score analysis of beta blocker therapy in heart failure patients. Epidemiologic Perspectives and Innovations, 2009, 6, 5.	7.0	8
78	A validation study of a clinical prediction rule for screening asymptomatic chlamydia and gonorrhoea infections among heterosexuals in British Columbia. Sexually Transmitted Infections, 2016, 92, 12-18.	1.9	8
79	On the application of statistical learning approaches to construct inverse probability weights in marginal structural Cox models: Hedging against weight-model misspecification. Communications in Statistics Part B: Simulation and Computation, 2017, 46, 7668-7697.	1.2	8
80	The World of Research Has Gone Berserk: Modeling the Consequences of Requiring "Greater Statistical Stringency―for Scientific Publication. American Statistician, 2019, 73, 358-373.	1.6	8
81	Explaining the variation in the attained power of a stepped-wedge trial with unequal cluster sizes. BMC Medical Research Methodology, 2020, 20, 166.	3.1	8
82	Bayesian Regression Modeling with Interactions and Smooth Effects. Journal of the American Statistical Association, 2000, 95, 795.	3.1	8
83	Bayesian inference of gene–environment interaction from incomplete data: What happens when information on environment is disjoint from data on gene and disease?. Statistics in Medicine, 2011, 30, 877-889.	1.6	7
84	Commentary. Epidemiology, 2014, 25, 910-912.	2.7	7
85	Bayesian inference for unidirectional misclassification of a binary response trait. Statistics in Medicine, 2018, 37, 933-947.	1.6	7
86	Correction of odds ratios in case-control studies for exposure misclassification with partial knowledge of the degree of agreement among experts who assessed exposures. Occupational and Environmental Medicine, 2018, 75, 155-159.	2.8	7
87	Multinational prediction of household and personal exposure to fine particulate matter (PM2.5) in the PURE cohort study. Environment International, 2022, 159, 107021.	10.0	7
88	An extension of the Dirichlet prior for the analysis of longitudinal multinomial data. Journal of Applied Statistics, 2003, 30, 293-310.	1.3	6
89	On the behaviour of Bayesian credible intervals in partially identified models. Electronic Journal of Statistics, 2012, 6, .	0.7	6
90	A Bayesian method for estimating prevalence in the presence of a hidden subâ€population. Statistics in Medicine, 2012, 31, 2386-2398.	1.6	6

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91	A comparison of Bayesian hierarchical modeling with groupâ€based exposure assessment in occupational epidemiology. Statistics in Medicine, 2013, 32, 3686-3699.	1.6	6
92	Investigations of Gene–Disease Associations. Epidemiology, 2013, 24, 562-568.	2.7	6
93	An assessment of population-based screening guidelines versus clinical prediction rules for chlamydia and gonorrhea case finding. Preventive Medicine, 2016, 89, 51-56.	3.4	5
94	CRTpowerdist: An R package to calculate attained power and construct the power distribution for cross-sectional stepped-wedge and parallel cluster randomized trials. Computer Methods and Programs in Biomedicine, 2021, 208, 106255.	4.7	5
95	A spatiotemporal analysis of inequalities in life expectancy and 20 causes of mortality in sub-neighbourhoods of Metro Vancouver, British Columbia, Canada, 1990–2016. Health and Place, 2021, 72, 102692.	3.3	5
96	Inferring the COVID-19 infection fatality rate in the community-dwelling population: a simple Bayesian evidence synthesis of seroprevalence study data and imprecise mortality data. Epidemiology and Infection, 2021, 149, .	2.1	5
97	Model influence functions based on mixtures. Canadian Journal of Statistics, 1996, 24, 535-548.	0.9	4
98	Partial Identification arising from Nondifferential Exposure Misclassification: How Informative are Data on the Unlikely, Maybe, and Likely Exposed?. International Journal of Biostatistics, 2012, 8, 31.	0.7	4
99	Interferon Beta and Long-term Disability in Multiple Sclerosis. JAMA Neurology, 2013, 70, 651.	9.0	4
100	Bayesian sensitivity analyses for hidden subâ€populations in weighted sampling. Canadian Journal of Statistics, 2014, 42, 436-450.	0.9	4
101	Association between the use of selective serotonin reuptake inhibitors and multiple sclerosis disability progression. Pharmacoepidemiology and Drug Safety, 2016, 25, 1150-1159.	1.9	4
102	Bayesian analysis of pairâ€matched caseâ€control studies subject to outcome misclassification. Statistics in Medicine, 2017, 36, 4196-4213.	1.6	4
103	Discussion of "On Bayesian Estimation of Marginal Structural Models― Biometrics, 2015, 71, 291-293.	1.4	3
104	Relative impact characteristic curve: a graphical tool to visualize and quantify the clinical utility and population-level consequences of implementing markers. Annals of Epidemiology, 2018, 28, 717-723.e3.	1.9	3
105	Adjusting for differential misclassification in matched caseâ€control studies utilizing health administrative data. Statistics in Medicine, 2019, 38, 3669-3681.	1.6	3
106	Invited Commentary: Toward Better Bias Analysis. American Journal of Epidemiology, 2021, 190, 1613-1616.	3.4	3
107	Current trends in the application of causal inference methods to pooled longitudinal observational infectious disease studies—A protocol for a methodological systematic review. PLoS ONE, 2021, 16, e0250778.	2.5	3
108	A Theoretical Investigation of How Evidence Flows in Bayesian Network Meta-Analysis of Disconnected Networks. Bayesian Analysis, 2021, 16, .	3.0	3

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109	Current trends in the application of causal inference methods to pooled longitudinal non-randomised data: a protocol for a methodological systematic review. BMJ Open, 2021, 11, e052969.	1.9	3
110	Uncertainty and the Value of Information in Risk Prediction Modeling. Medical Decision Making, 2022, 42, 661-671.	2.4	3
111	Bayesian methods in survival analysis. Lifetime Data Analysis, 2011, 17, 1-2.	0.9	2
112	Gene-Environment Independence in Case–Control Studies: Issues of Parameterization and Bayesian Inference. Statistics in Biosciences, 2015, 7, 460-475.	1.2	2
113	Hypothesis Testing for an Exposure–Disease Association in Case–Control Studies Under Nondifferential Exposure Misclassification in the Presence of Validation Data: Bayesian and Frequentist Adjustments. Statistics in Biosciences, 2016, 8, 234-252.	1.2	2
114	What to Do When Accumulated Exposure Affects Health but Only Its Duration Was Measured? A Case of Linear Regression. International Journal of Environmental Research and Public Health, 2019, 16, 1896.	2.6	2
115	Effects of tailored advice on injury prevention knowledge and behaviours in runners: Secondary analysis from a randomised controlled trial. Physical Therapy in Sport, 2019, 37, 164-170.	1.9	2
116	A Bayesian mixture of experts approach to covariate misclassification. Canadian Journal of Statistics, 2020, 48, 731-750.	0.9	2
117	Incorporating partial adherence into the principal stratification analysis framework. Statistics in Medicine, 2021, 40, 3625-3644.	1.6	2
118	Measurement error in metaâ€analysis ( MEMA )â€"A Bayesian framework for continuous outcome data subject to nonâ€differential measurement error. Research Synthesis Methods, 2021, 12, 796-815.	8.7	2
119	Systematic Review Reveals Lack of Causal Methodology Applied to Pooled Longitudinal Observational Infectious Disease Studies. Journal of Clinical Epidemiology, 2022, 145, 29-38.	5.0	2
120	Bayesian adjustment for preferential testing in estimating infection fatality rates, as motivated by the COVID-19 pandemic. Annals of Applied Statistics, 2022, $16$ , .	1.1	2
121	Reflections on Bayesian inference and Markov chain Monte Carlo. Canadian Journal of Statistics, 2022, 50, 1213-1227.	0.9	2
122	Innovative Bayesian Methods for Biostatistics and Epidemiology. Handbook of Statistics, 2005, 25, 763-792.	0.6	1
123	Reply to â€~Evidence is still required for treatment as prevention for riskier routes of HIV transmission'. Aids, 2010, 24, 2892-2893.	2.2	1
124	Bayesian adjustment for the misclassification in both dependent and independent variables with application to a breast cancer study. Statistics in Medicine, 2016, 35, 4252-4263.	1.6	1
125	THE AUTHORS REPLY. American Journal of Epidemiology, 2016, 184, 857-858.	3.4	1
126	Inferring population size: extending the multiplier method to incorporate multiple traits with a likelihoodâ€based approach. Stat, 2017, 6, 4-13.	0.4	1

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127	A thresholdâ€free summary index for quantifying the capacity of covariates to yield efficient treatment rules. Statistics in Medicine, 2020, 39, 1362-1373.	1.6	1
128	Invited Commentary: Quantitative Bias Analysis Can See the Forest for the Trees. American Journal of Epidemiology, 2021, 190, 1841-1843.	3.4	1
129	To Bound or Not to Bound. Epidemiology, 2021, 32, 635-637.	2.7	1
130	Assessing Trade-Offs and Optimal Ranges of Density for Life Expectancy and 12 Causes of Mortality in Metro Vancouver, Canada, 1990–2016. International Journal of Environmental Research and Public Health, 2022, 19, 2900.	2.6	1
131	A few things to consider when deciding whether or not to conduct underpowered research. Journal of Clinical Epidemiology, 2022, 144, 194-197.	5.0	1
132	Discussion of "Bayesian local influence for survival models,―by Ibrahim, Zhu, and Tang. Lifetime Data Analysis, 2011, 17, 71-73.	0.9	0
133	Assessing large sample bias in misspecified model scenarios with reference to exposure model misspecification in errors-in-variable regression: A new computational approach. Journal of Statistical Planning and Inference, 2011, 141, 1161-1169.	0.6	0
134	On the detectability of different forms of interaction in regression models. Metrika, 2012, 75, 347-365.	0.8	0
135	Reconciling randomized trial evidence on proximal versus distal outcomes, with application to trials of influenza vaccination for healthcare workers. Statistics in Medicine, 2019, 38, 4323-4333.	1.6	0
136	New perspective on the benefits of the gene–environment independence in case–control studies. Canadian Journal of Statistics, 2019, 47, 473-486.	0.9	0
137	When exposure is subject to nondifferential misclassification, are validation data helpful in testing for an exposure–disease association?. Canadian Journal of Statistics, 2019, 47, 222-237.	0.9	0
138	Authors' reply: Letter to the Editor: Comparison of statistical approaches dealing with time-dependent confounding in drug effectiveness studies (SMMR, Vol 27, Issue 6, 2018). Statistical Methods in Medical Research, 2019, 28, 323-324.	1.5	0
139	On logistic Box–Cox regression for flexibly estimating the shape and strength of exposureâ€disease relationships. Canadian Journal of Statistics, 2021, 49, 808-825.	0.9	0
140	A spatiotemporal analysis of inequalities in life expectancy and 20 causes of mortality in sub-neighbourhoods of Metro Vancouver, Canada, 1990-2016. ISEE Conference Abstracts, 2021, 2021, .	0.0	0