

# David A Stephens

## List of Publications by Year in descending order

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115  
papers

4,228  
citations

218677

26  
h-index

144013

57  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a cross-platform biomarker signature to detect renal transplant tolerance in humans. <i>Journal of Clinical Investigation</i> , 2010, 120, 1848-1861.	8.2	488
2	Markov Chain Monte Carlo Methods and the Label Switching Problem in Bayesian Mixture Modeling. <i>Statistical Science</i> , 2005, 20, 50.	2.8	461
3	Treatment Dose-Response in Amblyopia Therapy: The Monitored Occlusion Treatment of Amblyopia Study (MOTAS). , 2004, 45, 3048.		253
4	A Quantitative Study of Gene Regulation Involved in the Immune Response of Anopheline Mosquitoes. <i>Journal of the American Statistical Association</i> , 2006, 101, 18-29.	3.1	170
5	Demystifying Optimal Dynamic Treatment Regimes. <i>Biometrics</i> , 2007, 63, 447-455.	1.4	162
6	On population-based simulation for static inference. <i>Statistics and Computing</i> , 2007, 17, 263-279.	1.5	147
7	Treatment of Unilateral Amblyopia: Factors Influencing Visual Outcome. , 2005, 46, 3152.		140
8	Triiodothyronine Stimulates Food Intake via the Hypothalamic Ventromedial Nucleus Independent of Changes in Energy Expenditure. <i>Endocrinology</i> , 2004, 145, 5252-5258.	2.8	138
9	Objectively monitored patching regimens for treatment of amblyopia: randomised trial. <i>BMJ: British Medical Journal</i> , 2007, 335, 707.	2.3	127
10	Linear growth faltering in infants is associated with <i>Acidaminococcus</i> sp. and community-level changes in the gut microbiota. <i>Microbiome</i> , 2015, 3, 24.	11.1	120
11	Reductions in intestinal Clostridiales precede the development of nosocomial <i>Clostridium difficile</i> infection. <i>Microbiome</i> , 2013, 1, 18.	11.1	107
12	Transmission Clustering Drives the Onward Spread of the HIV Epidemic Among Men Who Have Sex With Men in Quebec. <i>Journal of Infectious Diseases</i> , 2011, 204, 1115-1119.	4.0	105
13	Inference for LÃ©vy-Driven Stochastic Volatility Models via Adaptive Sequential Monte Carlo. <i>Scandinavian Journal of Statistics</i> , 2011, 38, 1-22.	1.4	99
14	Bayesian Analysis of Errors-in-Variables Regression Models. <i>Biometrics</i> , 1995, 51, 1085.	1.4	97
15	Compliance With Occlusion Therapy for Childhood Amblyopia. , 2013, 54, 6158.		96
16	Clinical and haemodynamic effects of sildenafil in pulmonary hypertension: acute and mid-term effects. <i>European Heart Journal</i> , 2004, 25, 431-436.	2.2	91
17	Modeling Dose-Response in Amblyopia: Toward a Child-Specific Treatment Plan. , 2007, 48, 2589.		78
18	Population-Based Reversible Jump Markov Chain Monte Carlo. <i>Biometrika</i> , 2007, 94, 787-807.	2.4	73

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19	Design of the Monitored Occlusion Treatment of Amblyopia Study (MOTAS). <i>British Journal of Ophthalmology</i> , 2002, 86, 915-919.	3.9	63
20	Bayesian Mixture Modelling in Geochronology via Markov Chain Monte Carlo. <i>Mathematical Geosciences</i> , 2006, 38, 269-300.	0.9	57
21	Bayesian coclustering of Anopheles gene expression time series: Study of immune defense response to multiple experimental challenges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16939-16944.	7.1	56
22	The effect of amblyopia treatment on stereoacuity. <i>Journal of AAPOS</i> , 2013, 17, 166-173.	0.3	56
23	Two-sample Bayesian Nonparametric Hypothesis Testing. <i>Bayesian Analysis</i> , 2015, 10, .	3.0	53
24	A Bayesian Model of NMR Spectra for the Deconvolution and Quantification of Metabolites in Complex Biological Mixtures. <i>Journal of the American Statistical Association</i> , 2012, 107, 1259-1271.	3.1	41
25	Interacting sequential Monte Carlo samplers for trans-dimensional simulation. <i>Computational Statistics and Data Analysis</i> , 2008, 52, 1765-1791.	1.2	33
26	Bayesian inference in multipoint gene mapping. <i>Annals of Human Genetics</i> , 1993, 57, 65-82.	0.8	32
27	A Bayesian view of doubly robust causal inference: Table 1.. <i>Biometrika</i> , 2016, 103, 667-681.	2.4	31
28	Large cluster outbreaks sustain the HIV epidemic among MSM in Quebec. <i>Aids</i> , 2017, 31, 707-717.	2.2	31
29	Stochastic volatility modelling in continuous time with general marginal distributions: Inference, prediction and model selection. <i>Journal of Statistical Planning and Inference</i> , 2007, 137, 3068-3081.	0.6	30
30	Segmentation of Fluorescence Microscopy Images for Quantitative Analysis of Cell Nuclear Architecture. <i>Biophysical Journal</i> , 2009, 96, 3379-3389.	0.5	29
31	On Bayesian Estimation of Marginal Structural Models. <i>Biometrics</i> , 2015, 71, 279-288.	1.4	29
32	Assessment of Overlap of Phylogenetic Transmission Clusters and Communities in Simple Sexual Contact Networks: Applications to HIV-1. <i>PLoS ONE</i> , 2016, 11, e0148459.	2.5	28
33	Simulation and inference for stochastic volatility models driven by Levy processes. <i>Biometrika</i> , 2007, 94, 627-646.	2.4	26
34	The Transcriptional Regulator CBP Has Defined Spatial Associations within Interphase Nuclei. <i>PLoS Computational Biology</i> , 2006, 2, e139.	3.2	24
35	Decomposing the impact of deprivation on child pedestrian casualties in England. <i>Accident Analysis and Prevention</i> , 2008, 40, 1351-1364.	5.7	24
36	Comparing Approaches to Causal Inference for Longitudinal Data: Inverse Probability Weighting versus Propensity Scores. <i>International Journal of Biostatistics</i> , 2010, 6, Article 14.	0.7	24

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37	Simulating sequential multiple assignment randomized trials to generate optimal personalized warfarin dosing strategies. <i>Clinical Trials</i> , 2014, 11, 435-444.	1.6	24
38	Approximate Bayesian Inference for Doubly Robust Estimation. <i>Bayesian Analysis</i> , 2016, 11, .	3.0	22
39	Variable Selection in Causal Inference using a Simultaneous Penalization Method. <i>Journal of Causal Inference</i> , 2018, 6, .	1.2	22
40	Quantitative Analysis of Cell Nucleus Organisation. <i>PLoS Computational Biology</i> , 2007, 3, e138.	3.2	21
41	Quantifying Causal Effects of Road Network Capacity Expansions on Traffic Volume and Density via a Mixed Model Propensity Score Estimator. <i>Journal of the American Statistical Association</i> , 2014, 109, 1440-1449.	3.1	21
42	Bayesian analysis of discrete time warranty data. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2004, 53, 195-217.	1.0	19
43	Model Assessment in Dynamic Treatment Regimen Estimation via Double Robustness. <i>Biometrics</i> , 2016, 72, 855-864.	1.4	19
44	Should a propensity score model be super? The utility of ensemble procedures for causal adjustment. <i>Statistics in Medicine</i> , 2019, 38, 1690-1702.	1.6	19
45	Dynamic Treatment Regimen Estimation via Regression-Based Techniques: Introducing <i>R</i> Package <i>DTRreg</i> . <i>Journal of Statistical Software</i> , 2017, 80, .	3.7	19
46	Model Checking with Residuals for g-estimation of Optimal Dynamic Treatment Regimes. <i>International Journal of Biostatistics</i> , 2010, 6, Article 12.	0.7	18
47	The Gap Procedure: for the identification of phylogenetic clusters in HIV-1 sequence data. <i>BMC Bioinformatics</i> , 2015, 16, 355.	2.6	17
48	Estimation of dose-response functions for longitudinal data using the generalised propensity score. <i>Statistical Methods in Medical Research</i> , 2012, 21, 149-166.	1.5	16
49	A hierarchical Bayesian model for predicting ecological interactions using scaled evolutionary relationships. <i>Annals of Applied Statistics</i> , 2020, 14, .	1.1	16
50	A marginal structural model for multiple-outcome survival data: assessing the impact of injection drug use on several causes of death in the Canadian Co-infection Cohort. <i>Statistics in Medicine</i> , 2014, 33, 1409-1425.	1.6	15
51	Miscellanea. A multivariate family of distributions on $(0, \hat{\Lambda})^p$ . <i>Biometrika</i> , 1999, 86, 703-709.	2.4	14
52	Quantifying the Effect of Area Deprivation on Child Pedestrian Casualties by Using Longitudinal Mixed Models to Adjust for Confounding, Interference and Spatial Dependence. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2013, 176, 931-950.	1.1	14
53	Sampling-resampling techniques for the computation of posterior densities in normal means problems. <i>Test</i> , 1992, 1, 1-18.	1.1	13
54	Intermediate spatial frequency letter contrast sensitivity: its relation to visual resolution before and during amblyopia treatment. <i>Ophthalmic and Physiological Optics</i> , 2006, 26, 1-4.	2.0	13

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55	hGH isoform differential immunoassays applied to blood samples from athletes: Decision limits for anti-doping testing. <i>Growth Hormone and IGF Research</i> , 2014, 24, 205-215.	1.1	12
56	Bayesian time series analysis of periodic behaviour and spectral structure. <i>International Journal of Forecasting</i> , 2004, 20, 713-730.	6.5	10
57	Personalized versus standardized dosing strategies for the treatment of childhood amblyopia: study protocol for a randomized controlled trial. <i>Trials</i> , 2015, 16, 189.	1.6	10
58	Predictive Bayesian inference and dynamic treatment regimes. <i>Biometrical Journal</i> , 2015, 57, 941-958.	1.0	10
59	SMART Thinking: a Review of Recent Developments in Sequential Multiple Assignment Randomized Trials. <i>Current Epidemiology Reports</i> , 2016, 3, 225-232.	2.4	10
60	Treatment Prediction, Balance, and Propensity Score Adjustment. <i>Epidemiology</i> , 2017, 28, e51-e53.	2.7	10
61	A doubly robust weighting estimator of the average treatment effect on the treated. <i>Stat</i> , 2018, 7, e205.	0.4	10
62	Bayesian latent multi-state modeling for nonequidistant longitudinal electronic health records. <i>Biometrics</i> , 2021, 77, 78-90.	1.4	10
63	Optimal individualized dosing strategies: A pharmacologic approach to developing dynamic treatment regimens for continuous-valued treatments. <i>Biometrical Journal</i> , 2016, 58, 502-517.	1.0	9
64	A Hidden Markov Model for Identifying Differentially Methylated Sites in Bisulfite Sequencing Data. <i>Biometrics</i> , 2019, 75, 210-221.	1.4	9
65	The Role of Phylogenetics in Unravelling Patterns of HIV Transmission towards Epidemic Control: The Quebec Experience (2002-2020). <i>Viruses</i> , 2021, 13, 1643.	3.3	9
66	Quantification of automobile insurance liability: a Bayesian failure time approach. <i>Insurance: Mathematics and Economics</i> , 2004, 34, 1-21.	1.2	8
67	Using Bayesian inference to understand the allocation of resources between sexual and asexual reproduction. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2009, 58, 143-170.	1.0	8
68	Regularization and selection in Gaussian mixture of autoregressive models. <i>Canadian Journal of Statistics</i> , 2017, 45, 356-374.	0.9	8
69	An R Package for G-estimation of Structural Nested Mean Models. <i>Epidemiology</i> , 2017, 28, e18-e20.	2.7	8
70	Model validation and selection for personalized medicine using dynamic-weighted ordinary least squares. <i>Statistical Methods in Medical Research</i> , 2017, 26, 1641-1653.	1.5	7
71	Assessing the role of transmission chains in the spread of HIV-1 among men who have sex with men in Quebec, Canada. <i>PLoS ONE</i> , 2019, 14, e0213366.	2.5	7
72	On the Analysis of Quasi-Life Tables. <i>Lifetime Data Analysis</i> , 2003, 9, 345-355.	0.9	6

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73	Propensity score estimation in the presence of length-biased sampling: a non-parametric adjustment approach. <i>Stat</i> , 2014, 3, 83-94.	0.4	6
74	DM-PhyClus: a Bayesian phylogenetic algorithm for infectious disease transmission cluster inference. <i>BMC Bioinformatics</i> , 2018, 19, 324.	2.6	6
75	Reward ignorant modeling of dynamic treatment regimes. <i>Biometrical Journal</i> , 2018, 60, 991-1002.	1.0	6
76	Model Selection for G-Estimation of Dynamic Treatment Regimes. <i>Biometrics</i> , 2019, 75, 1205-1215.	1.4	6
77	Large-sample properties of the periodogram estimator of seasonally persistent processes. <i>Biometrika</i> , 2004, 91, 613-628.	2.4	5
78	HEDGING STRATEGIES AND MINIMAL VARIANCE PORTFOLIOS FOR EUROPEAN AND EXOTIC OPTIONS IN A LIBOR MARKET. <i>Mathematical Finance</i> , 2010, 20, 617-646.	1.8	5
79	Analysis of Spatial Point Patterns in Nuclear Biology. <i>PLoS ONE</i> , 2012, 7, e36841.	2.5	5
80	A cure-rate model for Q-learning: Estimating an adaptive immunosuppressant treatment strategy for allogeneic hematopoietic cell transplant patients. <i>Biometrical Journal</i> , 2019, 61, 442-453.	1.0	5
81	Bayesian inference for continuous-time hidden Markov models with an unknown number of states. <i>Statistics and Computing</i> , 2021, 31, 57.	1.5	5
82	Rejoinder "On Bayesian Estimation of Marginal Structural Models". <i>Biometrics</i> , 2015, 71, 299-301.	1.4	4
83	Treatment of Amblyopia Using Personalized Dosing Strategies: Statistical Modelling and Clinical Implementation. <i>Strabismus</i> , 2016, 24, 161-168.	0.7	4
84	A Bayesian Approach to Modeling Multivariate Multilevel Insurance Claims in the Presence of Unsettled Claims. <i>Bayesian Analysis</i> , 2022, 17, .	3.0	4
85	Predicting missing links in global host-parasite networks. <i>Journal of Animal Ecology</i> , 2022, 91, 715-726.	2.8	4
86	Modeling Chronic Obstructive Pulmonary Disease Progression Using Continuous-Time Hidden Markov Models. <i>Studies in Health Technology and Informatics</i> , 2019, 264, 920-924.	0.3	4
87	Estimating multipoint recombination fractions. <i>Annals of Human Genetics</i> , 1995, 59, 307-321.	0.8	3
88	Estimating linkage heterogeneity. <i>Annals of Human Genetics</i> , 1996, 60, 161-169.	0.8	3
89	The explicit chaotic representation of the powers of increments of Lévy processes. <i>Stochastics</i> , 2010, 82, 257-290.	1.1	3
90	On inference from Markov chain macro-data using transforms. <i>Journal of Statistical Planning and Inference</i> , 2011, 141, 3201-3216.	0.6	3

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91	Bayesian adaptive trials for rare cardiovascular conditions. <i>Future Cardiology</i> , 2018, 14, 143-150.	1.2	3
92	Estimating sparse networks with hubs. <i>Journal of Multivariate Analysis</i> , 2020, 179, 104655.	1.0	3
93	A note on the applicability of the standard nonparametric maximum likelihood estimator for combined incident and prevalent cohort data. <i>Stat</i> , 2020, 9, e280.	0.4	3
94	Parametric models for combined failure time data from an incident cohort study and a prevalent cohort study with follow-up. <i>International Journal of Biostatistics</i> , 2021, 17, 283-293.	0.7	3
95	Semiparametric Bayesian inference for optimal dynamic treatment regimes via dynamic marginal structural models. <i>Biostatistics</i> , 2023, 24, 708-727.	1.5	3
96	Parametric modelling of prevalent cohort data with uncertainty in the measurement of the initial onset date. <i>Lifetime Data Analysis</i> , 2020, 26, 389-401.	0.9	2
97	Adaptive treatment strategies for chronic conditions: shared-parameter G-estimation with an application to rheumatoid arthritis. <i>Biostatistics</i> , 2022, 23, 430-448.	1.5	2
98	Methodology for Quantitative Analysis of 3-D Nuclear Architecture. , 2011, , 173-187.		2
99	Causal inference: Critical developments, past and future. <i>Canadian Journal of Statistics</i> , 2022, 50, 1299-1320.	0.9	2
100	Special Issue on Causal Inference. <i>International Journal of Biostatistics</i> , 2010, 6, Article 1.	0.7	1
101	Estimating prevalence using indirect information and Bayesian evidence synthesis. <i>Canadian Journal of Statistics</i> , 2018, 46, 673-689.	0.9	1
102	Spatial Point Process Analysis of Promyelocytic Leukemia Nuclear Bodies. , 2011, , 59-85.		1
103	Hedging Strategies and Minimal Variance Portfolios for European and Exotic Options in a Levy Market. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
104	Multivariate and Longitudinal Health System Indicators. <i>Studies in Health Technology and Informatics</i> , 2017, 235, 266-270.	0.3	1
105	Dose-Response Functions for Occlusion Treatment of Amblyopia. <i>Clinical Science</i> , 2003, 104, 62P-62P.	0.0	0
106	Bayesian analysis of quasi-life tables. <i>Lifetime Data Analysis</i> , 2006, 12, 117-141.	0.9	0
107	Pricing American Options in an Infinite Activity Lévy Market: Monte Carlo and Deterministic Approaches Using a Diffusion Approximation. <i>Springer Proceedings in Mathematics</i> , 2012, , 291-321.	0.5	0
108	Discussion of "Deductive Derivation and Turing-Computerization of Semiparametric Efficient Estimation" by Frangakis et al.. <i>Biometrics</i> , 2015, 71, 880-880.	1.4	0

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109	Double Bias: Estimation of Causal Effects from Length-Biased Samples in the Presence of Confounding. International Journal of Biostatistics, 2015, 11, 69-89.	0.7	0
110	New quantitative approaches reveal the spatial preference of nuclear compartments in mammalian fibroblasts. Journal of the Royal Society Interface, 2015, 12, 20140894.	3.4	0
111	Influence Re-weighted G-Estimation. International Journal of Biostatistics, 2016, 12, 157-177.	0.7	0
112	Interview with Professor Adrian FM Smith. International Statistical Review, 2020, 88, 265-279.	1.9	0
113	Complexity in Systems Level Biology and Genetics: Statistical Perspectives. , 2012, , 561-578.		0
114	Commentary on "The Statistician in Medicine" by Professor Sir Austin Bradford Hill. Statistics in Medicine, 2021, 40, 37-41.	1.6	0
115	Bayesian clustering for continuous-time hidden Markov models. Canadian Journal of Statistics, 0, , .	0.9	0