

# Marie Davidian

## List of Publications by Year in descending order

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110  
papers

8,678  
citations

66343

42  
h-index

45317

90  
g-index

118  
all docs

118  
docs citations

118  
times ranked

7737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratification and weighting via the propensity score in estimation of causal treatment effects: a comparative study. <i>Statistics in Medicine</i> , 2004, 23, 2937-2960.	1.6	1,163
2	Demystifying Double Robustness: A Comparison of Alternative Strategies for Estimating a Population Mean from Incomplete Data. <i>Statistical Science</i> , 2007, 22, 569-573.	2.8	726
3	Doubly Robust Estimation of Causal Effects. <i>American Journal of Epidemiology</i> , 2011, 173, 761-767.	3.4	671
4	A Robust Method for Estimating Optimal Treatment Regimes. <i>Biometrics</i> , 2012, 68, 1010-1018.	1.4	317
5	Nonlinear models for repeated measurement data: An overview and update. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2003, 8, 387-419.	1.4	292
6	Linear Mixed Models with Flexible Distributions of Random Effects for Longitudinal Data. <i>Biometrics</i> , 2001, 57, 795-802.	1.4	231
7	Covariate adjustment for two-sample treatment comparisons in randomized clinical trials: A principled yet flexible approach. <i>Statistics in Medicine</i> , 2008, 27, 4658-4677.	1.6	228
8	Nonlinear Models for Repeated Measurement Data. <i>Journal of the American Statistical Association</i> , 1997, 92, 789.	3.1	220
9	Improving efficiency and robustness of the doubly robust estimator for a population mean with incomplete data. <i>Biometrika</i> , 2009, 96, 723-734.	2.4	219
10	Differences in Viral Dynamics between Genotypes 1 and 2 of Hepatitis C Virus. <i>Journal of Infectious Diseases</i> , 2000, 182, 28-35.	4.0	214
11	The analysis of multivariate longitudinal data: A review. <i>Statistical Methods in Medical Research</i> , 2014, 23, 42-59.	1.5	199
12	The nonlinear mixed effects model with a smooth random effects density. <i>Biometrika</i> , 1993, 80, 475-488.	2.4	191
13	A Semiparametric Likelihood Approach to Joint Modeling of Longitudinal and Time-to-Event Data. <i>Biometrics</i> , 2002, 58, 742-753.	1.4	186
14	HIV dynamics: Modeling, data analysis, and optimal treatment protocols. <i>Journal of Computational and Applied Mathematics</i> , 2005, 184, 10-49.	2.0	177
15	Estimating optimal treatment regimes from a classification perspective. <i>Stat</i> , 2012, 1, 103-114.	0.4	177
16	Improving Efficiency of Inferences in Randomized Clinical Trials Using Auxiliary Covariates. <i>Biometrics</i> , 2008, 64, 707-715.	1.4	163
17	$\mathbf{Q}$ - and $\mathbf{A}$ -Learning Methods for Estimating Optimal Dynamic Treatment Regimes. <i>Statistical Science</i> , 2014, 29, 640-661.	2.8	145
18	Robust estimation of optimal dynamic treatment regimes for sequential treatment decisions. <i>Biometrika</i> , 2013, 100, 681-694.	2.4	138

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19	Randomized COMparison of Platelet Inhibition With Abciximab, TiRofiban and Eptifibatide During Percutaneous Coronary Intervention in Acute Coronary Syndromes. <i>Circulation</i> , 2002, 106, 1470-1476.	1.6	128
20	Human Immunodeficiency Virus Type 1-Specific Cytotoxic T Lymphocyte Activity Is Inversely Correlated with HIV Type 1 Viral Load in HIV Type 1-Infected Long-Term Survivors. <i>AIDS Research and Human Retroviruses</i> , 1999, 15, 1219-1228.	1.1	120
21	Estimating the Parameters in the Cox Model When Covariate Variables are Measured with Error. <i>Biometrics</i> , 1998, 54, 1407.	1.4	116
22	Marginal Structural Models for Analyzing Causal Effects of Time-dependent Treatments: An Application in Perinatal Epidemiology. <i>American Journal of Epidemiology</i> , 2004, 159, 926-934.	3.4	113
23	Smooth nonparametric maximum likelihood estimation for population pharmacokinetics, with application to quinidine. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1992, 20, 529-556.	0.6	103
24	Estimation of Survival Distributions of Treatment Policies in Two-Stage Randomization Designs in Clinical Trials. <i>Biometrics</i> , 2002, 58, 48-57.	1.4	97
25	An estimator for the proportional hazards model with multiple longitudinal covariates measured with error. <i>Biostatistics</i> , 2002, 3, 511-528.	1.5	91
26	Survival Benefit of Lung Transplantation in the Modern Era of Lung Allocation. <i>Annals of the American Thoracic Society</i> , 2017, 14, 172-181.	3.2	91
27	A Monte Carlo EM algorithm for generalized linear mixed models with flexible random effects distribution. <i>Biostatistics</i> , 2002, 3, 347-360.	1.5	80
28	Variance functions and the minimum detectable concentration in assays. <i>Biometrika</i> , 1988, 75, 549-556.	2.4	76
29	Using Decision Lists to Construct Interpretable and Parsimonious Treatment Regimes. <i>Biometrics</i> , 2015, 71, 895-904.	1.4	76
30	Population Pharmacokinetic/Pharmacodynamic Methodology and Applications: A Bibliography. <i>Biometrics</i> , 1994, 50, 566.	1.4	75
31	Ten Simple Rules for Effective Statistical Practice. <i>PLoS Computational Biology</i> , 2016, 12, e1004961.	3.2	69
32	Some general estimation methods for nonlinear mixed-effects model. <i>Journal of Biopharmaceutical Statistics</i> , 1993, 3, 23-55.	0.8	67
33	Semiparametric Estimation of Treatment Effect in a Pretestâ€“Posttest Study with Missing Data. <i>Statistical Science</i> , 2005, 20, 261-301.	2.8	66
34	A Placeboâ€“Controlled, Prospective, Randomized Clinical Trial of Polyethylene Glycol and Methylprednisolone Sodium Succinate in Dogs with Intervertebral Disk Herniation. <i>Journal of Veterinary Internal Medicine</i> , 2016, 30, 206-214.	1.6	59
35	A Two-Step Approach to Measurement Error in Time-Dependent Covariates in Nonlinear Mixed-Effects Models, with Application to IGF-I Pharmacokinetics. <i>Journal of the American Statistical Association</i> , 1997, 92, 436-448.	3.1	58
36	Regression and calibration with nonconstant error variance. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1990, 9, 231-248.	3.5	55

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37	Semiparametric Estimation of Treatment Effect in a Pretestâ€Posttest Study. <i>Biometrics</i> , 2003, 59, 1046-1055.	1.4	55
38	Some Simple Methods for Estimating Intraindividual Variability in Nonlinear Mixed Effects Models. <i>Biometrics</i> , 1993, 49, 59.	1.4	54
39	An Inverse Problem Statistical Methodology Summary. , 2009, , 249-302.		52
40	Consequences of misspecifying assumptions in nonlinear mixed effects models. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 139-164.	1.2	48
41	Modelling HIV immune response and validation with clinical data. <i>Journal of Biological Dynamics</i> , 2008, 2, 357-385.	1.7	47
42	Interpretable Dynamic Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2018, 113, 1541-1549.	3.1	46
43	The Effect of Serial Dilution Error on Calibration Inference in Immunoassay. <i>Biometrics</i> , 1998, 54, 19.	1.4	45
44	Geneâ€Trait Similarity Regression for Multimarkerâ€Based Association Analysis. <i>Biometrics</i> , 2009, 65, 822-832.	1.4	45
45	Low serum antibacterial activity coincides with increased prevalence of shell disease in blue crabs <i>Callinectes sapidus</i> . <i>Diseases of Aquatic Organisms</i> , 1994, 19, 121-128.	1.0	45
46	Comment: Demystifying Double Robustness: A Comparison of Alternative Strategies for Estimating a Population Mean from Incomplete Data. <i>Statistical Science</i> , 2007, 22, .	2.8	44
47	Estimation and Prediction With HIV-Treatment Interruption Data. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 563-584.	1.9	42
48	â€Smoothâ€Semiparametric Regression Analysis for Arbitrarily Censored Timeâ€toâ€Event Data. <i>Biometrics</i> , 2008, 64, 567-576.	1.4	41
49	On Estimation of Optimal Treatment Regimes for Maximizing $t$ -Year Survival Probability. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2017, 79, 1165-1185.	2.2	40
50	Conditional Estimation for Generalized Linear Models When Covariates Are Subjectâ€Specific Parameters in a Mixed Model for Longitudinal Measurements. <i>Biometrics</i> , 2004, 60, 1-7.	1.4	39
51	Why Statistics?. <i>Science</i> , 2012, 336, 12-12.	12.6	37
52	Differential Treatment Benefit of Platelet Glycoprotein IIb/IIIa Inhibition With Percutaneous Coronary Intervention Versus Medical Therapy for Acute Coronary Syndromes. <i>Circulation</i> , 2004, 109, 641-646.	1.6	35
53	A note on covariate measurement error in nonlinear mixed effects models. <i>Biometrika</i> , 1996, 83, 801-812.	2.4	32
54	Improved Doubly Robust Estimation When Data Are Monotonely Coarsened, with Application to Longitudinal Studies with Dropout. <i>Biometrics</i> , 2011, 67, 536-545.	1.4	32

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55	Demographic and Historical Findings, Including Exposure to Environmental Tobacco Smoke, in Dogs with Chronic Cough. <i>Journal of Veterinary Internal Medicine</i> , 2010, 24, 825-831.	1.6	31
56	Assays for recombinant proteins: A problem in non-linear calibration. <i>Statistics in Medicine</i> , 1994, 13, 1165-1179.	1.6	29
57	Denaturation and Aggregation of Chicken Myosin Isoforms. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 1435-1440.	5.2	29
58	Pyrimethamine pharmacokinetics in human immunodeficiency virus-positive patients seropositive for <i>Toxoplasma gondii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1996, 40, 1360-1365.	3.2	29
59	Bootstrap-Adjusted Calibration Confidence Intervals for Immunoassay. <i>Journal of the American Statistical Association</i> , 1997, 92, 278-290.	3.1	29
60	Estimating Data Transformations in Nonlinear Mixed Effects Models. <i>Biometrics</i> , 2000, 56, 65-72.	1.4	29
61	The Effect of Variance Function Estimation on Nonlinear Calibration Inference in Immunoassay Data. <i>Biometrics</i> , 1996, 52, 158.	1.4	27
62	Latent-model robustness in structural measurement error models. <i>Biometrika</i> , 2006, 93, 53-64.	2.4	27
63	Optimizing delivery of a behavioral pain intervention in cancer patients using a sequential multiple assignment randomized trial SMART. <i>Contemporary Clinical Trials</i> , 2017, 57, 51-57.	1.8	27
64	Nonlinear Models for Longitudinal Data. <i>American Statistician</i> , 2009, 63, 378-388.	1.6	24
65	Mixed model analysis of censored longitudinal data with flexible random-effects density. <i>Biostatistics</i> , 2012, 13, 61-73.	1.5	24
66	On random sample size, ignorability, ancillarity, completeness, separability, and degeneracy: Sequential trials, random sample sizes, and missing data. <i>Statistical Methods in Medical Research</i> , 2014, 23, 11-41.	1.5	23
67	Using mathematical modeling and control to develop structured treatment interruption strategies for HIV infection. <i>Drug and Alcohol Dependence</i> , 2007, 88, S41-S51.	3.2	22
68	Estimation of variance functions in assays with possibly unequal replication and nonnormal data. <i>Biometrika</i> , 1990, 77, 43-54.	2.4	20
69	Latent Model Robustness in Joint Models for a Primary Endpoint and a Longitudinal Process. <i>Biometrics</i> , 2009, 65, 719-727.	1.4	20
70	Smoothing Spline-Based Score Tests for Proportional Hazards Models. <i>Biometrics</i> , 2006, 62, 803-812.	1.4	19
71	A model for HCMV infection in immunosuppressed patients. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1653-1663.	2.0	19
72	A Moment-Adjusted Imputation Method for Measurement Error Models. <i>Biometrics</i> , 2011, 67, 1461-1470.	1.4	19

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73	Using pilot data to size a two-arm randomized trial to find a nearly optimal personalized treatment strategy. <i>Statistics in Medicine</i> , 2016, 35, 1245-1256.	1.6	19
74	Optimal Two-Stage Dynamic Treatment Regimes from a Classification Perspective with Censored Survival Data. <i>Biometrics</i> , 2018, 74, 1180-1192.	1.4	19
75	Robust Two-Stage Estimation in Hierarchical Nonlinear Models. <i>Biometrics</i> , 2001, 57, 266-272.	1.4	18
76	Correcting for Measurement Error in Individual-Level Covariates in Nonlinear Mixed Effects Models. <i>Biometrics</i> , 2000, 56, 368-375.	1.4	16
77	Assessing the Causal Effect of Organ Transplantation on the Distribution of Residual Lifetime. <i>Biometrics</i> , 2013, 69, 820-829.	1.4	16
78	Inference on treatment effects from a randomized clinical trial in the presence of premature treatment discontinuation: the SYNERGY trial. <i>Biostatistics</i> , 2011, 12, 258-269.	1.5	14
79	A Two-Step Approach to Measurement Error in Time-Dependent Covariates in Nonlinear Mixed-Effects Models, With Application to IGF-I Pharmacokinetics. <i>Journal of the American Statistical Association</i> , 1997, 92, 436.	3.1	12
80	Smooth inference for survival functions with arbitrarily censored data. <i>Statistics in Medicine</i> , 2008, 27, 5421-5439.	1.6	11
81	Therapeutic effects of diethylcarbamazine and 3-azido-3-deoxythymidine on feline leukemia virus lymphoma formation. <i>Veterinary Immunology and Immunopathology</i> , 1995, 46, 181-194.	1.2	10
82	Analysis of repeated measurement data using the nonlinear mixed effects model. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1993, 20, 1-24.	3.5	9
83	Calibration Inference Based on Multiple Runs of an Immunoassay. <i>Biometrics</i> , 1997, 53, 1304.	1.4	9
84	Testing homogeneity of intra-run variance parameters in immunoassay. , 1997, 16, 1765-1776.		9
85	Likelihood and pseudo-likelihood methods for semiparametric joint models for a primary endpoint and longitudinal data. <i>Computational Statistics and Data Analysis</i> , 2007, 51, 5776-5790.	1.2	9
86	Robust two-stage approach to repeated measurements analysis of chronic ozone exposure in rats. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2003, 8, 438-454.	1.4	7
87	Likelihood and conditional likelihood inference for generalized additive mixed models for clustered data. <i>Journal of Multivariate Analysis</i> , 2004, 91, 90-106.	1.0	7
88	Variable selection for covariate-adjusted semiparametric inference in randomized clinical trials. <i>Statistics in Medicine</i> , 2012, 31, 3789-3804.	1.6	6
89	Estimation After a Group Sequential Trial. <i>Statistics in Biosciences</i> , 2015, 7, 187-205.	1.2	6
90	Dynamic treatment regimes, past, present, and future: A conversation with experts. <i>Statistical Methods in Medical Research</i> , 2017, 26, 1605-1610.	1.5	6

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91	Moment adjusted imputation for multivariate measurement error data with applications to logistic regression. Computational Statistics and Data Analysis, 2013, 67, 15-24.	1.2	5
92	Collaboration To Meet the Statistical Needs in the Chemistry Curriculum. Journal of Chemical Education, 2014, 91, 12-12.	2.3	5
93	Estimating vaccine efficacy over time after a randomized study is unblinded. Biometrics, 2022, 78, 825-838.	1.4	5
94	Bootstrap-Adjusted Calibration Confidence Intervals for Immunoassay. Journal of the American Statistical Association, 1997, 92, 278.	3.1	5
95	Discussion of "Combining biomarkers to optimize patient treatment recommendation". Biometrics, 2014, 70, 707-710.	1.4	4
96	The analysis of multivariate longitudinal data: A review. Statistical Methods in Medical Research, 2017, 26, 112-112.	1.5	4
97	<tt>SNP_NLMM</tt>: A SAS Macro to Implement a Flexible Random Effects Density for Generalized Linear and Nonlinear Mixed Models. Journal of Statistical Software, 2014, 56, 2.	3.7	4
98	The International Year of Statistics: A Celebration and A Call to Action. Journal of the American Statistical Association, 2013, 108, 1141-1146.	3.1	3
99	Properties of Estimators in Exponential Family Settings with Observationbased Stopping Rules. Journal of Biometrics & Biostatistics, 2015, 07, .	4.0	3
100	Surgeons? Economic Profiles: Can We Get the "Right" Answers?. Journal of Medical Systems, 2005, 29, 111-124.	3.6	1
101	Biometrics, JABES and the International Biometric Society. Journal of Agricultural, Biological, and Environmental Statistics, 2017, 22, 221-223.	1.4	1
102	Rejoinder: Estimating vaccine efficacy over time after a randomized study is unblinded. Biometrics, 2022, 78, 848-851.	1.4	1
103	Research Methods for Clinical Trials in Personalized Medicine: A Systematic Review. , 2014, , 659-684.		1
104	Estimation of the Odds Ratio in a Proportional Odds Model with Censored Time-Lagged Outcome in a Randomized Clinical Trial. Biometrics, 2023, 79, 975-987.	1.4	1
105	Discussion on "Statistical Issues Arising in the Women's Health Initiative". Biometrics, 2005, 61, 933-935.	1.4	0
106	Discussions. International Statistical Review, 2011, 79, 221-223.	1.9	0
107	Building the Biostatistics Pipeline: Summer Institutes for Training in Biostatistics (SIBS). Chance, 2013, 26, 4-9.	0.2	0
108	Chapter 9: Value search estimators for optimal dynamic treatment regimes. , 2015, , 135-155.		0

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109	Special Issue of Journal of Biopharmaceutical Statistics dedicated to 2016 Trends and Innovations in Clinical Trial Statistics (TICTS) Conference. Journal of Biopharmaceutical Statistics, 2017, 27, 357-357.	0.8	0
110	Methods Based on Semiparametric Theory for Analysis in the Presence of Missing Data. Annual Review of Statistics and Its Application, 2022, 9, 167-196.	7.0	0