

# Marie Davidian

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Estimation of the Odds Ratio in a Proportional Odds Model with Censored Time-Lagged Outcome in a Randomized Clinical Trial. <i>Biometrics</i> , 2023, 79, 975-987.   | 1.4 | 1         |
| 2  | Methods Based on Semiparametric Theory for Analysis in the Presence of Missing Data. <i>Annual Review of Statistics and Its Application</i> , 2022, 9, 167-196.  | 7.0 | 0         |
| 3  | Rejoinder: Estimating vaccine efficacy over time after a randomized study is unblinded. <i>Biometrics</i> , 2022, 78, 848-851.   | 1.4 | 1         |
| 4  | Estimating vaccine efficacy over time after a randomized study is unblinded. <i>Biometrics</i> , 2022, 78, 825-838.  | 1.4 | 5         |
| 5  | Interpretable Dynamic Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2018, 113, 1541-1549.  | 3.1 | 46        |
| 6  | Optimal Two-Stage Dynamic Treatment Regimes from a Classification Perspective with Censored Survival Data. <i>Biometrics</i> , 2018, 74, 1180-1192.  | 1.4 | 19        |
| 7  | 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        |
| 8  | The analysis of multivariate longitudinal data: A review. <i>Statistical Methods in Medical Research</i> , 2017, 26, 112-112.  | 1.5 | 4         |
| 9  | 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        |
| 10 | 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         |
| 11 | Special Issue of <i>Journal of Biopharmaceutical Statistics</i> dedicated to 2016 Trends and Innovations in Clinical Trial Statistics (TICTS) Conference. <i>Journal of Biopharmaceutical Statistics</i> , 2017, 27, 357-357.                | 0.8 | 0         |
| 12 | 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        |
| 13 | <i>Biometrics</i> , JABES and the International Biometric Society. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 221-223.   | 1.4 | 1         |
| 14 | Ten Simple Rules for Effective Statistical Practice. <i>PLoS Computational Biology</i> , 2016, 12, e1004961.   | 3.2 | 69        |
| 15 | 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        |
| 16 | A Placebo-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        |
| 17 | Chapter 9: Value search estimators for optimal dynamic treatment regimes. , 2015, , 135-155.   |     | 0         |
| 18 | Using Decision Lists to Construct Interpretable and Parsimonious Treatment Regimes. <i>Biometrics</i> , 2015, 71, 895-904.   | 1.4 | 76        |

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|----|---|------|-----------|
| 19 | Properties of Estimators in Exponential Family Settings with Observationbased Stopping Rules. Journal of Biometrics & Biostatistics, 2015, 07, .  | 4.0  | 3         |
| 20 | Estimation After a Group Sequential Trial. Statistics in Biosciences, 2015, 7, 187-205.   | 1.2  | 6         |
| 21 | Discussion of "Combining biomarkers to optimize patient treatment recommendation". Biometrics, 2014, 70, 707-710.   | 1.4  | 4         |
| 22 | The analysis of multivariate longitudinal data: A review. Statistical Methods in Medical Research, 2014, 23, 42-59.   | 1.5  | 199       |
| 23 | Collaboration To Meet the Statistical Needs in the Chemistry Curriculum. Journal of Chemical Education, 2014, 91, 12-12.  | 2.3  | 5         |
| 24 | On random sample size, ignorability, ancillarity, completeness, separability, and degeneracy: Sequential trials, random sample sizes, and missing data. Statistical Methods in Medical Research, 2014, 23, 11-41. | 1.5  | 23        |
| 25 | $\mathbf{Q}$ - and $\mathbf{A}$ -Learning Methods for Estimating Optimal Dynamic Treatment Regimes. Statistical Science, 2014, 29, 640-661.   | 2.8  | 145       |
| 26 | <code>SNP_NLMM</code> : 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         |
| 27 | Research Methods for Clinical Trials in Personalized Medicine: A Systematic Review. , 2014, , 659-684.  |      | 1         |
| 28 | Building the Biostatistics Pipeline: Summer Institutes for Training in Biostatistics (SIBS). Chance, 2013, 26, 4-9.   | 0.2  | 0         |
| 29 | 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         |
| 30 | Robust estimation of optimal dynamic treatment regimes for sequential treatment decisions. Biometrika, 2013, 100, 681-694.  | 2.4  | 138       |
| 31 | Assessing the Causal Effect of Organ Transplantation on the Distribution of Residual Lifetime. Biometrics, 2013, 69, 820-829.   | 1.4  | 16        |
| 32 | 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         |
| 33 | Mixed model analysis of censored longitudinal data with flexible random-effects density. Biostatistics, 2012, 13, 61-73.  | 1.5  | 24        |
| 34 | Estimating optimal treatment regimes from a classification perspective. Stat, 2012, 1, 103-114.   | 0.4  | 177       |
| 35 | Why Statistics?. Science, 2012, 336, 12-12.   | 12.6 | 37        |
| 36 | Variable selection for covariate-adjusted semiparametric inference in randomized clinical trials. Statistics in Medicine, 2012, 31, 3789-3804.  | 1.6  | 6         |

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|----|---|-----|-----------|
| 37 | A Robust Method for Estimating Optimal Treatment Regimes. <i>Biometrics</i> , 2012, 68, 1010-1018.  | 1.4 | 317       |
| 38 | 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        |
| 39 | A Moment-Adjusted Imputation Method for Measurement Error Models. <i>Biometrics</i> , 2011, 67, 1461-1470.  | 1.4 | 19        |
| 40 | Discussions. <i>International Statistical Review</i> , 2011, 79, 221-223.   | 1.9 | 0         |
| 41 | Doubly Robust Estimation of Causal Effects. <i>American Journal of Epidemiology</i> , 2011, 173, 761-767.   | 3.4 | 671       |
| 42 | 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        |
| 43 | 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        |
| 44 | 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       |
| 45 | Latent Model Robustness in Joint Models for a Primary Endpoint and a Longitudinal Process. <i>Biometrics</i> , 2009, 65, 719-727.   | 1.4 | 20        |
| 46 | Gene-Trait Similarity Regression for Multimarker-Based Association Analysis. <i>Biometrics</i> , 2009, 65, 822-832.   | 1.4 | 45        |
| 47 | A model for HCMV infection in immunosuppressed patients. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1653-1663.  | 2.0 | 19        |
| 48 | Nonlinear Models for Longitudinal Data. <i>American Statistician</i> , 2009, 63, 378-388.   | 1.6 | 24        |
| 49 | An Inverse Problem Statistical Methodology Summary. , 2009, , 249-302.  |     | 52        |
| 50 | 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       |
| 51 | Smooth inference for survival functions with arbitrarily censored data. <i>Statistics in Medicine</i> , 2008, 27, 5421-5439.  | 1.6 | 11        |
| 52 | Smooth Semiparametric Regression Analysis for Arbitrarily Censored Time-to-Event Data. <i>Biometrics</i> , 2008, 64, 567-576.   | 1.4 | 41        |
| 53 | Improving Efficiency of Inferences in Randomized Clinical Trials Using Auxiliary Covariates. <i>Biometrics</i> , 2008, 64, 707-715.   | 1.4 | 163       |
| 54 | Modelling HIV immune response and validation with clinical data. <i>Journal of Biological Dynamics</i> , 2008, 2, 357-385.  | 1.7 | 47        |

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|----|---|-----|-----------|
| 55 | 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       |
| 56 | 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        |
| 57 | 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         |
| 58 | Estimation and Prediction With HIV-Treatment Interruption Data. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 563-584.  | 1.9 | 42        |
| 59 | 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        |
| 60 | Smoothing Spline-Based Score Tests for Proportional Hazards Models. <i>Biometrics</i> , 2006, 62, 803-812.  | 1.4 | 19        |
| 61 | Latent-model robustness in structural measurement error models. <i>Biometrika</i> , 2006, 93, 53-64.  | 2.4 | 27        |
| 62 | Semiparametric Estimation of Treatment Effect in a Pretestâ€“Posttest Study with Missing Data. <i>Statistical Science</i> , 2005, 20, 261-301.  | 2.8 | 66        |
| 63 | HIV dynamics: Modeling, data analysis, and optimal treatment protocols. <i>Journal of Computational and Applied Mathematics</i> , 2005, 184, 10-49.   | 2.0 | 177       |
| 64 | Discussion on "Statistical Issues Arising in the Women's Health Initiative". <i>Biometrics</i> , 2005, 61, 933-935.   | 1.4 | 0         |
| 65 | Surgeons? Economic Profiles: Can We Get the ?Right? Answers?. <i>Journal of Medical Systems</i> , 2005, 29, 111-124.  | 3.6 | 1         |
| 66 | 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       |
| 67 | 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        |
| 68 | 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        |
| 69 | 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     |
| 70 | 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         |
| 71 | Semiparametric Estimation of Treatment Effect in a Pretestâ€“Posttest Study. <i>Biometrics</i> , 2003, 59, 1046-1055.   | 1.4 | 55        |
| 72 | 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         |

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|----|--|-----|-----------|
| 73 | 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       |
| 74 | An estimator for the proportional hazards model with multiple longitudinal covariates measured with error. <i>Biostatistics</i> , 2002, 3, 511-528.  | 1.5 | 91        |
| 75 | 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       |
| 76 | 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        |
| 77 | 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        |
| 78 | A Semiparametric Likelihood Approach to Joint Modeling of Longitudinal and Time-to-Event Data. <i>Biometrics</i> , 2002, 58, 742-753.  | 1.4 | 186       |
| 79 | Robust Two-Stage Estimation in Hierarchical Nonlinear Models. <i>Biometrics</i> , 2001, 57, 266-272.   | 1.4 | 18        |
| 80 | Linear Mixed Models with Flexible Distributions of Random Effects for Longitudinal Data. <i>Biometrics</i> , 2001, 57, 795-802.  | 1.4 | 231       |
| 81 | Consequences of misspecifying assumptions in nonlinear mixed effects models. <i>Computational Statistics and Data Analysis</i> , 2000, 34, 139-164.  | 1.2 | 48        |
| 82 | Estimating Data Transformations in Nonlinear Mixed Effects Models. <i>Biometrics</i> , 2000, 56, 65-72.  | 1.4 | 29        |
| 83 | Correcting for Measurement Error in Individual-Level Covariates in Nonlinear Mixed Effects Models. <i>Biometrics</i> , 2000, 56, 368-375.  | 1.4 | 16        |
| 84 | 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       |
| 85 | 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       |
| 86 | The Effect of Serial Dilution Error on Calibration Inference in Immunoassay. <i>Biometrics</i> , 1998, 54, 19.   | 1.4 | 45        |
| 87 | Estimating the Parameters in the Cox Model When Covariate Variables are Measured with Error. <i>Biometrics</i> , 1998, 54, 1407.   | 1.4 | 116       |
| 88 | Calibration Inference Based on Multiple Runs of an Immunoassay. <i>Biometrics</i> , 1997, 53, 1304.  | 1.4 | 9         |
| 89 | 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        |
| 90 | Nonlinear Models for Repeated Measurement Data. <i>Journal of the American Statistical Association</i> , 1997, 92, 789.  | 3.1 | 220       |

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|-----|--|-----|-----------|
| 91  | Bootstrap-Adjusted Calibration Confidence Intervals for Immunoassay. Journal of the American Statistical Association, 1997, 92, 278-290.   | 3.1 | 29        |
| 92  | Testing homogeneity of intra-run variance parameters in immunoassay. , 1997, 16, 1765-1776.  |     | 9         |
| 93  | Bootstrap-Adjusted Calibration Confidence Intervals for Immunoassay. Journal of the American Statistical Association, 1997, 92, 278.   | 3.1 | 5         |
| 94  | A Two-Step Approach to Measurement Error in Time-Dependent Covariates in Nonlinear Mixed-Effects Models, With Application to IGF-I Pharmacokinetics. Journal of the American Statistical Association, 1997, 92, 436. | 3.1 | 12        |
| 95  | Denaturation and Aggregation of Chicken Myosin Isoforms. Journal of Agricultural and Food Chemistry, 1996, 44, 1435-1440.  | 5.2 | 29        |
| 96  | Pyrimethamine pharmacokinetics in human immunodeficiency virus-positive patients seropositive for Toxoplasma gondii. Antimicrobial Agents and Chemotherapy, 1996, 40, 1360-1365.                                     | 3.2 | 29        |
| 97  | A note on covariate measurement error in nonlinear mixed effects models. Biometrika, 1996, 83, 801-812.  | 2.4 | 32        |
| 98  | The Effect of Variance Function Estimation on Nonlinear Calibration Inference in Immunoassay Data. Biometrics, 1996, 52, 158.  | 1.4 | 27        |
| 99  | Therapeutic effects of diethylcarbamazine and 3-azido-2-deoxythymidine on feline leukemia virus lymphoma formation. Veterinary Immunology and Immunopathology, 1995, 46, 181-194.                                    | 1.2 | 10        |
| 100 | Assays for recombinant proteins: A problem in non-linear calibration. Statistics in Medicine, 1994, 13, 1165-1179.   | 1.6 | 29        |
| 101 | Population Pharmacokinetic/Pharmacodynamic Methodology and Applications: A Bibliography. Biometrics, 1994, 50, 566.  | 1.4 | 75        |
| 102 | Low serum antibacterial activity coincides with increased prevalence of shell disease in blue crabs Callinectes sapidus. Diseases of Aquatic Organisms, 1994, 19, 121-128.   | 1.0 | 45        |
| 103 | Analysis of repeated measurement data using the nonlinear mixed effects model. Chemometrics and Intelligent Laboratory Systems, 1993, 20, 1-24.  | 3.5 | 9         |
| 104 | Some general estimation methods for nonlinear mixed-effects model. Journal of Biopharmaceutical Statistics, 1993, 3, 23-55.  | 0.8 | 67        |
| 105 | The nonlinear mixed effects model with a smooth random effects density. Biometrika, 1993, 80, 475-488.   | 2.4 | 191       |
| 106 | Some Simple Methods for Estimating Intraindividual Variability in Nonlinear Mixed Effects Models. Biometrics, 1993, 49, 59.  | 1.4 | 54        |
| 107 | Smooth nonparametric maximum likelihood estimation for population pharmacokinetics, with application to quinidine. Journal of Pharmacokinetics and Pharmacodynamics, 1992, 20, 529-556.                              | 0.6 | 103       |
| 108 | Regression and calibration with nonconstant error variance. Chemometrics and Intelligent Laboratory Systems, 1990, 9, 231-248.   | 3.5 | 55        |

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|-----|---|-----|-----------|
| 109 | Estimation of variance functions in assays with possibly unequal replication and nonnormal data. <i>Biometrika</i> , 1990, 77, 43-54. | 2.4 | 20        |
| 110 | Variance functions and the minimum detectable concentration in assays. <i>Biometrika</i> , 1988, 75, 549-556.                         | 2.4 | 76        |