Robert Tibshirani

List of Publications by Year
in descending order

134 papers	73,423 citations	29994 54 h-index	22102 113 g-index
150 all docs	150 docs citations	150 times ranked	79010 citing authors

#	Article	IF	Citations
1	Fast Lasso method for large-scale and ultrahigh-dimensional Cox model with applications to UK Biobank. Biostatistics, 2022, 23, 522-540.	0.9	22
2	Prediction and Outlier Detection in Classification Problems. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 524-546.	1.1	8
3	Significant sparse polygenic risk scores across 813 traits in UK Biobank. PLoS Genetics, 2022, 18, e1010105.	1.5	40
4	What is Cox's proportional hazards model?. Significance, 2022, 19, 38-39.	0.3	1
5	Increased diversity of gut microbiota during active oral immunotherapy in peanutâ€allergic adults. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 927-930.	2.7	20
6	Genetics of 35 blood and urine biomarkers in the UK Biobank. Nature Genetics, 2021, 53, 185-194.	9.4	377
7	Polygenic risk modeling with latent trait-related genetic components. European Journal of Human Genetics, 2021, 29, 1071-1081.	1.4	14
8	Assessment of heterogeneous treatment effect estimation accuracy via matching. Statistics in Medicine, 2021, 40, 3990-4013.	0.8	4
9	Principal componentâ€guided sparse regression. Canadian Journal of Statistics, 2021, 49, 1222.	0.6	4
10	MassExplorer: a computational tool for analyzing desorption electrospray ionization mass spectrometry data. Bioinformatics, 2021, 37, 3688-3690.	1.8	4
11	Fast numerical optimization for genome sequencing data in population biobanks. Bioinformatics, 2021, 37, 4148-4155.	1.8	9
12	De novo mutational signature discovery in tumor genomes using SparseSignatures. PLoS Computational Biology, 2021, 17, e1009119.	1.5	20
13	The stanford prostate cancer calculator: Development and external validation of online nomograms incorporating PIRADS scores to predict clinically significant prostate cancer. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 831.e19-831.e27.	0.8	11
14	Penalized regression for leftâ€truncated and rightâ€censored survival data. Statistics in Medicine, 2021, 40, 5487-5500.	0.8	21
15	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. Nature Aging, 2021, 1, 598-615.	5.3	202
16	Using Aggregate Patient Data at the Bedside via an On-Demand Consultation Service. NEJM Catalyst, 2021, 2, .	0.4	6
17	Can auxiliary indicators improve COVID-19 forecasting and hotspot prediction?. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
18	An open repository of real-time COVID-19 indicators. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27

#	Article	IF	Citations
19	Main Effects and Interactions in Mixed and Incomplete Data Frames. Journal of the American Statistical Association, 2020, 115, 1292-1303.	1.8	12
20	A Pliable Lasso. Journal of Computational and Graphical Statistics, 2020, 29, 215-225.	0.9	18
21	Identification of diagnostic metabolic signatures in clear cell renal cell carcinoma using mass spectrometry imaging. International Journal of Cancer, 2020, 147, 256-265.	2.3	38
22	Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions. Nature Machine Intelligence, 2020, 2, 619-628.	8.3	52
23	Transcriptional changes in peanut-specific CD4+ T cells over the course of oral immunotherapy. Clinical Immunology, 2020, 219, 108568.	1.4	22
24	Reluctant Generalised Additive Modelling. International Statistical Review, 2020, 88, S205.	1.1	5
25	Defining the features and duration of antibody responses to SARS-CoV-2 infection associated with disease severity and outcome. Science Immunology, 2020, 5, .	5.6	404
26	Discussion of â€œPrediction, Estimation, and Attributionâ€•by Bradley Efron. Journal of the American Statistical Association, 2020, 115, 665-666.	1.8	0
27	Origins and clonal convergence of gastrointestinal IgE ⁺ B cells in human peanut allergy. Science Immunology, 2020, 5, .	5.6	88
28	Integrating genomic features for non-invasive early lung cancer detection. Nature, 2020, 580, 245-251.	13.7	379
29	Post modelâ€fitting exploration via a â€œNextâ€Doorâ€•analysis. Canadian Journal of Statistics, 2020, 48, 447-470.	0.6	4
30	Metabolic Dynamics and Prediction of Gestational Age and Time to Delivery in Pregnant Women. Cell, 2020, 181, 1680-1692.e15.	13.5	154
31	Discussion of â€œPrediction, Estimation, and Attributionâ€•by Bradley Efron. International Statistical Review, 2020, 88, S73.	1.1	2
32	A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank. PLoS Genetics, 2020, 16, e1009141.	1.5	75
33	Title is missing!. , 2020, 16, e1009141.		0
34	Title is missing!. , 2020, 16, e1009141.		0
35	Title is missing!. , 2020, 16, e1009141.		0
36	Title is missing!. , 2020, 16, e1009141.		0

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37	Title is missing!. , 2020, 16, e1009141.		0
38	Title is missing!. , 2020, 16, e1009141.		0
39	Multiomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy. Bioinformatics, 2019, 35, 95-103.	1.8	162
40	Dynamic Risk Profiling Using Serial Tumor Biomarkers for Personalized Outcome Prediction. Cell, 2019, 178, 699-713.e19.	13.5	138
41	Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study. Lancet, The, 2019, 394, 1437-1449.	6.3	215
42	Reply to J. Wang et al. Journal of Clinical Oncology, 2019, 37, 755-757.	0.8	2
43	Shaping of infant B cell receptor repertoires by environmental factors and infectious disease. Science Translational Medicine, 2019, 11, .	5.8	58
44	Proliferation tracing with single-cell mass cytometry optimizes generation of stem cell memory-like T cells. Nature Biotechnology, 2019, 37, 259-266.	9.4	49
45	Log-Ratio Lasso: Scalable, Sparse Estimation for Log-Ratio Models. Biometrics, 2019, 75, 613-624.	0.8	24
46	Some methods for heterogeneous treatment effect estimation in high dimensions. Statistics in Medicine, 2018, 37, 1767-1787.	0.8	83
47	Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse. Nature Medicine, 2018, 24, 474-483.	15.2	112
48	Genomic feature selection by coverage design optimization. Journal of Applied Statistics, 2018, 45, 2658-2676.	0.6	1
49	A proteomic clock of human pregnancy. American Journal of Obstetrics and Gynecology, 2018, 218, 347.e1-347.e14.	0.7	82
50	Food allergy and omics. Journal of Allergy and Clinical Immunology, 2018, 141, 20-29.	1.5	59
51	Results from the second year of a collaborative effort to forecast influenza seasons in the United States. Epidemics, 2018, 24, 26-33.	1.5	83
52	A General Framework for Estimation and Inference From Clusters of Features. Journal of the American Statistical Association, 2018, 113, 280-293.	1.8	10
53	Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma. Journal of Clinical Oncology, 2018, 36, 2845-2853.	0.8	313
54	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. Analytical Chemistry, 2018, 90, 11324-11332.	3.2	70

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55	Noninvasive blood tests for fetal development predict gestational age and preterm delivery. Science, 2018, 360, 1133-1136.	6.0	198
56	Landscape of monoallelic DNA accessibility in mouse embryonic stem cells and neural progenitor cells. Nature Genetics, 2017, 49, 377-386.	9.4	76
57	Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single-institution cohort study. Blood, 2017, 129, 324-332.	0.6	60
58	Chemical Space Mimicry for Drug Discovery. Journal of Chemical Information and Modeling, 2017, 57, 875-882.	2.5	63
59	Metabolic Markers and Statistical Prediction of Serous Ovarian Cancer Aggressiveness by Ambient Ionization Mass Spectrometry Imaging. Cancer Research, 2017, 77, 2903-2913.	0.4	106
60	An immune clock of human pregnancy. Science Immunology, 2017, 2, .	5.6	371
61	Postâ€selection point and interval estimation of signal sizes in Gaussian samples. Canadian Journal of Statistics, 2017, 45, 128-148.	0.6	11
62	Development of a Dynamic Model for Personalized Risk Assessment in Large B-Cell Lymphoma. Blood, 2017, 130, 826-826.	0.6	4
63	Noninvasive Cancer Classification Using Diverse Genomic Features in Circulating Tumor DNA. , 2016, , .		0
64	Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma. Blood, 2016, 128, 239-248.	0.6	17
65	Data Shared Lasso: A novel tool to discover uplift. Computational Statistics and Data Analysis, 2016, 101, 226-235.	0.7	26
66	Customized training with an application to mass spectrometric imaging of cancer tissue. Annals of Applied Statistics, 2015, 9, 1709-1725.	0.5	11
67	Collaborative regression. Biostatistics, 2015, 16, 326-338.	0.9	45
68	Pancancer analysis of DNA methylation-driven genes using MethylMix. Genome Biology, 2015, 16, 17.	3.8	117
69	Sparse regression and marginal testing using cluster prototypes. Biostatistics, 2015, 17, kxv049.	0.9	14
70	Quantitative SD-OCT Imaging Biomarkers as Indicators of Age-Related Macular Degeneration Progression. , 2014, 55, 7093.		118
71	Sensitivity analysis for inference with partially identifiable covariance matrices. Computational Statistics, 2014, 29, 529-546.	0.8	1
72	Increasing value and reducing waste in research design, conduct, and analysis. Lancet, The, 2014, 383, 166-175.	6.3	1,186

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73	A Simple Method for Estimating Interactions Between a Treatment and a Large Number of Covariates. Journal of the American Statistical Association, 2014, 109, 1517-1532.	1.8	227
74	A significance test for the lasso. Annals of Statistics, 2014, 42, 413-468.	1.4	400
75	A Sparse-Group Lasso. Journal of Computational and Graphical Statistics, 2013, 22, 231-245.	0.9	913
76	Gene expression deconvolution in linear space. Nature Methods, 2012, 9, 9-9.	9.0	8
77	Standardization and the Group Lasso Penalty. Statistica Sinica, 2012, 22, 983-1001.	0.2	79
78	Inference with Transposable Data: Modelling the Effects of Row and Column Correlations. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 721-743.	1.1	25
79	Hierarchical Clustering With Prototypes via Minimax Linkage. Journal of the American Statistical Association, 2011, 106, 1075-1084.	1.8	127
80	Nearly-Isotonic Regression. Technometrics, 2011, 53, 54-61.	1.3	64
81	Regularization Paths for Cox's Proportional Hazards Model via Coordinate Descent. Journal of Statistical Software, 2011, 39, 1-13.	1.8	1,453
82	Reply to D.R. Catchpoole et al. Journal of Clinical Oncology, 2010, 28, e725-e725.	0.8	1
83	Transposable regularized covariance models with an application to missing data imputation. Annals of Applied Statistics, 2010, 4, 764-790.	0.5	82
84	Regularization Paths for Generalized Linear Models via Coordinate Descent. Journal of Statistical Software, 2010, 33, .	1.8	10,210
85	Regularization Paths for Generalized Linear Models via Coordinate Descent. Journal of Statistical Software, 2010, 33, 1-22.	1.8	5,775
86	MicroRNA Are Useful Biomarkers for Prediction of Response to Therapy and Survival of Patients with Diffuse Large B-Cell Lymphoma.. Blood, 2009, 114, 624-624.	0.6	0
87	Differentiation-Stage-Specific Expression of MicroRNAs in B-Lymphocytes and Diffuse Large B-Cell Lymphomas (DLBCL). Blood, 2008, 112, 805-805.	0.6	15
88	Neither CD68+ Nor CD163+ Macrophages Are Associated with Decreased Survival in Follicular Lymphoma. Blood, 2008, 112, 3747-3747.	0.6	0
89	Lymphoma-Expressed VEGF-a, VEGFR-1, VEGFR-2, and Microvessel Density Are Not Predictive of Overall Survival in Follicular Lymphoma. Blood, 2008, 112, 3767-3767.	0.6	0
90	Survival in Follicular Lymphoma: The Stanford Experience, 1960â€“2003.. Blood, 2007, 110, 3428-3428.	0.6	7

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91	Paraffin-Based 6-Gene Model Predicts Outcome of Diffuse Large B-Cell Lymphoma Patients Treated with R-CHOP.. Blood, 2007, 110, 49-49.	0.6	1
92	LMO2 Protein Expression Predicts Survival in Patients with Diffuse Large B-Cell Lymphoma in the Pre- and Post-Rituximab Treatment Eras.. Blood, 2007, 110, 52-52.	0.6	2
93	Anti-Idiotype Antibody Response after Vaccination Correlates with Better Overall Survival in Follicular Lymphoma.. Blood, 2007, 110, 647-647.	0.6	0
94	Sparse Principal Component Analysis. Journal of Computational and Graphical Statistics, 2006, 15, 265-286.	0.9	2,067
95	Prediction by Supervised Principal Components. Journal of the American Statistical Association, 2006, 101, 119-137.	1.8	568
96	Preliminary Report on a Phase I/II Study of Intratumoral Injection of PF-3512676 (CpG 7909), a TLR9 Agonist, Combined with Radiation in Recurrent Low-Grade Lymphomas.. Blood, 2006, 108, 2716-2716.	0.6	3
97	Tumor-Infiltrating T Cells Are Not Predictive of Clinical Outcome in Follicular Lymphoma.. Blood, 2006, 108, 824-824.	0.6	3
98	A FLT3 Gene-Expression Signature Outperforms FLT3 Status in Predicting Clinical Outcome for Patients with Normal Karyotype AML.. Blood, 2006, 108, 2311-2311.	0.6	0
99	Gene Expression Profiling Predicts Outcome in De Novo Acute Myeloid Leukemia (AML) with Normal Karyotype: Results of Childrenâ€™s Oncology Group (COG) Study POG #9421.. Blood, 2006, 108, 1915-1915.	0.6	1
100	Cluster Validation by Prediction Strength. Journal of Computational and Graphical Statistics, 2005, 14, 511-528.	0.9	428
101	Gene Expression Profiling and FLT3 Status Correlate with Outcome in De Novo Acute Myeloid Leukemia (AML) with Normal Karyotype: Results of Childrenâ€™s Oncology Group (COG) Study POG #9421.. Blood, 2005, 106, 2372-2372.	0.6	0
102	Prognostic Gene-Expression Signatures in Adult Acute Myeloid Leukemia with Normal Karyotype.. Blood, 2005, 106, 756-756.	0.6	38
103	Least angle regression. Annals of Statistics, 2004, 32, 407.	1.4	6,530
104	Identification of Distinct inv(16) Subclasses in Adult Acute Myeloid Leukemia Based on Gene Expression Profiling.. Blood, 2004, 104, 2037-2037.	0.6	0
105	The Percentage of Tumor-Infiltrating T Cells Is Not Correlated with Overall Survival in Follicular B-Cell Lymphomas.. Blood, 2004, 104, 3262-3262.	0.6	0
106	Diagnosis of multiple cancer types by shrunken centroids of gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6567-6572.	3.3	2,632
107	Empirical Bayes Analysis of a Microarray Experiment. Journal of the American Statistical Association, 2001, 96, 1151-1160.	1.8	1,420
108	Estimating the number of clusters in a data set via the gap statistic. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2001, 63, 411-423.	1.1	3,996

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109	The Elements of Statistical Learning. Springer Series in Statistics, 2001, , .	0.9	9,764
110	Statistical Measures for the Computer-Aided Diagnosis of Mammographic Masses. Journal of Computational and Graphical Statistics, 1999, 8, 531-543.	0.9	2
111	Model Search by Bootstrap â€œBumpingâ€• Journal of Computational and Graphical Statistics, 1999, 8, 671-686.	0.9	37
112	A comparison of statistical learning methods on the GUSTO database. , 1998, 17, 2501-2508.		67
113	A comparison of statistical learning methods on the GUSTO database. , 1998, 17, 2501.		3
114	Who is the Fastest Man in the World?. American Statistician, 1997, 51, 106-111.	0.9	10
115	Impact of menstrual phase on false-negative mammograms in the canadian national breast screening study. Cancer, 1997, 80, 720-724.	2.0	59
116	THE LASSO METHOD FOR VARIABLE SELECTION IN THE COX MODEL. Statistics in Medicine, 1997, 16, 385-395.	0.8	3,038
117	THE LASSO METHOD FOR VARIABLE SELECTION IN THE COX MODEL. , 1997, 16, 385.		35
118	Regression Shrinkage and Selection Via the Lasso. Journal of the Royal Statistical Society Series B: Methodological, 1996, 58, 267-288.	0.8	14,507
119	A Comparison of Some Error Estimates for Neural Network Models. Neural Computation, 1996, 8, 152-163.	1.3	204
120	Combining Estimates in Regression and Classification. Journal of the American Statistical Association, 1996, 91, 1641-1650.	1.8	181
121	Flexible Discriminant Analysis by Optimal Scoring. Journal of the American Statistical Association, 1994, 89, 1255-1270.	1.8	588
122	Adaptive Principal Surfaces. Journal of the American Statistical Association, 1994, 89, 53-64.	1.8	83
123	A Strategy for Binary Description and Classification. Journal of Computational and Graphical Statistics, 1992, 1, 3-20.	0.9	4
124	Estimating Transformations for Regression via Additivity and Variance Stabilization. Journal of the American Statistical Association, 1988, 83, 394-405.	1.8	161
125	Bootstrap Confidence Intervals and Bootstrap Approximations. Journal of the American Statistical Association, 1987, 82, 163-170.	1.8	73
126	Local Likelihood Estimation. Journal of the American Statistical Association, 1987, 82, 559-567.	1.8	378

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127	Generalized Additive Models: Some Applications. Journal of the American Statistical Association, 1987, 82, 371-386.	1.8	558
128	The Bootstrap Method for Assessing Statistical Accuracy. Behaviormetrika, 1985, 12, 1-35.	0.9	142
129	Estimating Transformations for Regression via Additivity and Variance Stabilization. , 0, .		41
130	Bootstrap Confidence Intervals and Bootstrap Approximations. , 0, .		13
131	Generalized Additive Models: Some Applications. , 0, .		83
132	Local Likelihood Estimation. , 0, .		97
133	Flexible Discriminant Analysis by Optimal Scoring. , 0, .		150
134	Adaptive Principal Surfaces. , 0, .		27