

Trevor Hastie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87 papers	76,636 citations	62 h-index	95 g-index
95 ext. papers	91,628 ext. citations	5.9 avg, IF	8.34 L-index

#	Paper	IF	Citations
87	Significant sparse polygenic risk scores across 813 traits in UK Biobank.. <i>PLoS Genetics</i> , 2022 , 18, e1010105	10.5	0
86	Wearable sensors enable personalized predictions of clinical laboratory measurements. <i>Nature Medicine</i> , 2021 , 27, 1105-1112	50.5	30
85	Genetics of 35 blood and urine biomarkers in the UK Biobank. <i>Nature Genetics</i> , 2021 , 53, 185-194	36.3	78
84	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. <i>Nature Aging</i> , 2021 , 1, 598-615		36
83	Best Subset, Forward Stepwise or Lasso? Analysis and Recommendations Based on Extensive Comparisons. <i>Statistical Science</i> , 2020 , 35,	2.4	16
82	A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank. <i>PLoS Genetics</i> , 2020 , 16, e1009141	6	22
81	Fast Lasso method for large-scale and ultrahigh-dimensional Cox model with applications to UK Biobank. <i>Biostatistics</i> , 2020 ,	3.7	7
80	CAUSAL INTERPRETATIONS OF BLACK-BOX MODELS. <i>Journal of Business and Economic Statistics</i> , 2019 , 2019,	3.8	87
79	Nuclear penalized multinomial regression with an application to predicting at bat outcomes in baseball. <i>Statistical Modelling</i> , 2018 , 18, 388-410	0.7	4
78	Sparse EEG/MEG source estimation via a group lasso. <i>PLoS ONE</i> , 2017 , 12, e0176835	3.7	7
77	ZeitZeiger: supervised learning for high-dimensional data from an oscillatory system. <i>Nucleic Acids Research</i> , 2016 , 44, e80	20.1	47
76	Point process models for presence-only analysis. <i>Methods in Ecology and Evolution</i> , 2015 , 6, 366-379	7.7	211
75	Learning interactions via hierarchical group-lasso regularization. <i>Journal of Computational and Graphical Statistics</i> , 2015 , 24, 627-654	1.4	102
74	Bias correction in species distribution models: pooling survey and collection data for multiple species. <i>Methods in Ecology and Evolution</i> , 2015 , 6, 424-438	7.7	225
73	LOCAL CASE-CONTROL SAMPLING: EFFICIENT SUBSAMPLING IN IMBALANCED DATA SETS. <i>Annals of Statistics</i> , 2014 , 42, 1693-1724	3.2	41
72	Generalized Additive Models 2014 ,		21
71	A Sparse-Group Lasso. <i>Journal of Computational and Graphical Statistics</i> , 2013 , 22, 231-245	1.4	618

70	Inference from presence-only data; the ongoing controversy. <i>Ecography</i> , 2013 , 36, 864-867	6.5	139
69	Finite-Sample Equivalence in Statistical Models for Presence-Only Data. <i>Annals of Applied Statistics</i> , 2013 , 7, 1917-1939	2.1	132
68	Strong rules for discarding predictors in lasso-type problems. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2012 , 74, 245-266	3.9	254
67	The graphical lasso: New insights and alternatives. <i>Electronic Journal of Statistics</i> , 2012 , 6, 2125-2149	1.2	124
66	Exact Covariance Thresholding into Connected Components for Large-Scale Graphical Lasso. <i>Journal of Machine Learning Research</i> , 2012 , 13, 781-794	28.6	59
65	Sparse Discriminant Analysis. <i>Technometrics</i> , 2011 , 53, 406-413	1.4	337
64	A fused lasso latent feature model for analyzing multi-sample aCGH data. <i>Biostatistics</i> , 2011 , 12, 776-91	3.7	38
63	A statistical explanation of MaxEnt for ecologists. <i>Diversity and Distributions</i> , 2011 , 17, 43-57	5	3194
62	: Coordinate Descent With Nonconvex Penalties. <i>Journal of the American Statistical Association</i> , 2011 , 106, 1125-1138	2.8	218
61	Regularization Paths for Cox's Proportional Hazards Model via Coordinate Descent. <i>Journal of Statistical Software</i> , 2011 , 39, 1-13	7.3	826
60	Regularization Paths for Generalized Linear Models via Coordinate Descent. <i>Journal of Statistical Software</i> , 2010 , 33, 1-22	7.3	3855
59	Regularization Paths for Generalized Linear Models via Coordinate Descent. <i>Journal of Statistical Software</i> , 2010 , 33,	7.3	6603
58	Genome-wide association analysis by lasso penalized logistic regression. <i>Bioinformatics</i> , 2009 , 25, 714-217.2	1.2	504
57	Presence-only data and the em algorithm. <i>Biometrics</i> , 2009 , 65, 554-63	1.8	161
56	The Elements of Statistical Learning. <i>Springer Series in Statistics</i> , 2009 ,	0.3	9918
55	A penalized matrix decomposition, with applications to sparse principal components and canonical correlation analysis. <i>Biostatistics</i> , 2009 , 10, 515-34	3.7	839
54	Risk estimation of distant metastasis in node-negative, estrogen receptor-positive breast cancer patients using an RT-PCR based prognostic expression signature. <i>BMC Cancer</i> , 2008 , 8, 339	4.8	43
53	Combining biological gene expression signatures in predicting outcome in breast cancer: An alternative to supervised classification. <i>European Journal of Cancer</i> , 2008 , 44, 2319-29	7.5	18

52	Radiation-induced gene expression in human subcutaneous fibroblasts is predictive of radiation-induced fibrosis. <i>Radiotherapy and Oncology</i> , 2008 , 86, 314-20	5.3	65
51	Sparse inverse covariance estimation with the graphical lasso. <i>Biostatistics</i> , 2008 , 9, 432-41	3.7	2705
50	Penalized logistic regression for detecting gene interactions. <i>Biostatistics</i> , 2008 , 9, 30-50	3.7	261
49	Novel methods for the design and evaluation of marine protected areas in offshore waters. <i>Conservation Letters</i> , 2008 , 1, 91-102	6.9	133
48	Preconditioning for feature selection and regression in high-dimensional problems. <i>Annals of Statistics</i> , 2008 , 36,	3.2	64
47	NEW MULTICATEGORY BOOSTING ALGORITHMS BASED ON MULTICATEGORY FISHER-CONSISTENT LOSSES. <i>Annals of Applied Statistics</i> , 2008 , 2, 1290-1306	2.1	54
46	Pathwise coordinate optimization. <i>Annals of Applied Statistics</i> , 2007 , 1,	2.1	1022
45	L1-regularization path algorithm for generalized linear models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2007 , 69, 659-677	3.9	457
44	Gene expression programs of human smooth muscle cells: tissue-specific differentiation and prognostic significance in breast cancers. <i>PLoS Genetics</i> , 2007 , 3, 1770-84	6	48
43	Regularized linear discriminant analysis and its application in microarrays. <i>Biostatistics</i> , 2007 , 8, 86-100	3.7	370
42	Averaged gene expressions for regression. <i>Biostatistics</i> , 2007 , 8, 212-27	3.7	101
41	On the degrees of freedom of the lasso. <i>Annals of Statistics</i> , 2007 , 35, 2173	3.2	500
40	Characterization of heterotypic interaction effects in vitro to deconvolute global gene expression profiles in cancer. <i>Genome Biology</i> , 2007 , 8, R191	18.3	65
39	Sparse Principal Component Analysis. <i>Journal of Computational and Graphical Statistics</i> , 2006 , 15, 265-286	6.4	1510
38	Gene expression programs in response to hypoxia: cell type specificity and prognostic significance in human cancers. <i>PLoS Medicine</i> , 2006 , 3, e47	11.6	476
37	Making better biogeographical predictions of species distributions. <i>Journal of Applied Ecology</i> , 2006 , 43, 386-392	5.8	359
36	Prediction by Supervised Principal Components. <i>Journal of the American Statistical Association</i> , 2006 , 101, 119-137	2.8	415
35	Regularization and variable selection via the elastic net. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2005 , 67, 301-320	3.9	8544

34	Robustness, scalability, and integration of a wound-response gene expression signature in predicting breast cancer survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3738-43	11.5	823
33	Least angle regression. <i>Annals of Statistics</i> , 2004 , 32, 407	3.2	5029
32	Classification of gene microarrays by penalized logistic regression. <i>Biostatistics</i> , 2004 , 5, 427-43	3.7	66
31	Gene expression patterns in ovarian carcinomas. <i>Molecular Biology of the Cell</i> , 2003 , 14, 4376-86	3.5	273
30	Class Prediction by Nearest Shrunk Centroids, with Applications to DNA Microarrays. <i>Statistical Science</i> , 2003 , 18, 104	2.4	252
29	Repeated observation of breast tumor subtypes in independent gene expression data sets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8418-23	11.5	4262
28	Generalized linear and generalized additive models in studies of species distributions: setting the scene. <i>Ecological Modelling</i> , 2002 , 157, 89-100	3	1332
27	Support Vector Machines, Kernel Logistic Regression and Boosting. <i>Lecture Notes in Computer Science</i> , 2002 , 16-26	0.9	6
26	Diagnosis of multiple cancer types by shrunken centroids of gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6567-72	11.5	2252
25	The Elements of Statistical Learning. <i>Springer Series in Statistics</i> , 2001 ,	0.3	6424
24	Supervised harvesting of expression trees. <i>Genome Biology</i> , 2001 , 2, RESEARCH0003	18.3	113
23	Bayesian backfitting (with comments and a rejoinder by the authors). <i>Statistical Science</i> , 2000 , 15, 196	2.4	74
22	Additive logistic regression: a statistical view of boosting (With discussion and a rejoinder by the authors). <i>Annals of Statistics</i> , 2000 , 28, 337	3.2	3535
21	Metrics and models for handwritten character recognition. <i>Statistical Science</i> , 1998 , 13, 54	2.4	52
20	Classification by pairwise coupling. <i>Annals of Statistics</i> , 1998 , 26, 451	3.2	640
19	Metrics and Models for Handwritten Character Recognition 1997 , 203-219		4
18	Discriminant Analysis by Gaussian Mixtures. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1996 , 58, 155-176		103
17	Penalized Discriminant Analysis. <i>Annals of Statistics</i> , 1995 , 23, 73	3.2	490

16	Flexible Discriminant Analysis by Optimal Scoring. <i>Journal of the American Statistical Association</i> , 1994 , 89, 1255-1270	2.8	392
15	Varying-Coefficient Models. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1993 , 55, 757-779		255
14	3-D curve matching using splines. <i>Journal of Field Robotics</i> , 1991 , 8, 723-743		27
13	Principal Curves. <i>Journal of the American Statistical Association</i> , 1989 , 84, 502-516	2.8	818
12	Linear Smoothers and Additive Models. <i>Annals of Statistics</i> , 1989 , 17, 453	3.2	559
11	Rejoinder: Linear Smoothers and Additive Models. <i>Annals of Statistics</i> , 1989 , 17, 543	3.2	11
10	The Geometric Interpretation of Correspondence Analysis. <i>Journal of the American Statistical Association</i> , 1987 , 82, 437-447	2.8	242
9	Local Likelihood Estimation. <i>Journal of the American Statistical Association</i> , 1987 , 82, 559-567	2.8	276
8	Generalized Additive Models: Some Applications. <i>Journal of the American Statistical Association</i> , 1987 , 82, 371-386	2.8	365
7	Generalized Additive Models. <i>Statistical Science</i> , 1986 , 1, 297	2.4	1531
6	Discussion: Projection Pursuit. <i>Annals of Statistics</i> , 1985 , 13, 502	3.2	7
5	Principal Curves and Surfaces 1984 ,		74
4	Generalized Additive Models: Some Applications		59
3	The Geometric Interpretation of Correspondence Analysis		53
2	Local Likelihood Estimation		91
1	Flexible Discriminant Analysis by Optimal Scoring		122