

Xuming He

List of Publications by Year in descending order

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114
papers

5,057
citations

71102

41
h-index

98798

67
g-index

120
all docs

120
docs citations

120
times ranked

3977
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantile regression methods for reference growth charts. <i>Statistics in Medicine</i> , 2006, 25, 1369-1382.	1.6	262
2	Head Impacts During High School Football: A Biomechanical Assessment. <i>Journal of Athletic Training</i> , 2009, 44, 342-349.	1.8	234
3	Biomechanical Properties of Concussions in High School Football. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 2064-2071.	0.4	205
4	Non-parametric quantification of protein lysate arrays. <i>Bioinformatics</i> , 2007, 23, 1986-1994.	4.1	193
5	A general Bahadur representation of M-estimators and its application to linear regression with nonstochastic designs. <i>Annals of Statistics</i> , 1996, 24, 2608.	2.6	174
6	Quantile-adaptive model-free variable screening for high-dimensional heterogeneous data. <i>Annals of Statistics</i> , 2013, 41, .	2.6	170
7	On Parameters of Increasing Dimensions. <i>Journal of Multivariate Analysis</i> , 2000, 73, 120-135.	1.0	147
8	Robust Estimation in Generalized Partial Linear Models for Clustered Data. <i>Journal of the American Statistical Association</i> , 2005, 100, 1176-1184.	3.1	136
9	A Lack-of-Fit Test for Quantile Regression. <i>Journal of the American Statistical Association</i> , 2003, 98, 1013-1022.	3.1	127
10	Wild bootstrap for quantile regression. <i>Biometrika</i> , 2011, 98, 995-999.	2.4	127
11	Practical Confidence Intervals for Regression Quantiles. <i>Journal of Computational and Graphical Statistics</i> , 2005, 14, 41-55.	1.7	126
12	Bivariate Tensor-Product B-Splines in a Partly Linear Model. <i>Journal of Multivariate Analysis</i> , 1996, 58, 162-181.	1.0	124
13	Convergence rate of b-spline estimators of nonparametric conditional quantile functions $\hat{\alpha}^{\leftarrow}$. <i>Journal of Nonparametric Statistics</i> , 1994, 3, 299-308.	0.9	123
14	Quantile Curves without Crossing. <i>American Statistician</i> , 1997, 51, 186-192.	1.6	115
15	Quantile Curves without Crossing. <i>American Statistician</i> , 1997, 51, 186.	1.6	111
16	Markov Chain Marginal Bootstrap. <i>Journal of the American Statistical Association</i> , 2002, 97, 783-795.	3.1	110
17	Conditional growth charts. <i>Annals of Statistics</i> , 2006, 34, 2069.	2.6	100
18	High Breakdown Estimation for Multiple Populations with Applications to Discriminant Analysis. <i>Journal of Multivariate Analysis</i> , 2000, 72, 151-162.	1.0	97

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19	Breakdown Robustness of Tests. <i>Journal of the American Statistical Association</i> , 1990, 85, 446-452.	3.1	93
20	Monotone B-Spline Smoothing. <i>Journal of the American Statistical Association</i> , 1998, 93, 643-650.	3.1	93
21	Bayesian empirical likelihood for quantile regression. <i>Annals of Statistics</i> , 2012, 40, .	2.6	91
22	Inference for Subgroup Analysis With a Structured Logistic-Normal Mixture Model. <i>Journal of the American Statistical Association</i> , 2015, 110, 303-312.	3.1	90
23	COBS: qualitatively constrained smoothing via linear programming. <i>Computational Statistics</i> , 1999, 14, 315-337.	1.5	85
24	Estimation of High Conditional Quantiles for Heavy-Tailed Distributions. <i>Journal of the American Statistical Association</i> , 2012, 107, 1453-1464.	3.1	82
25	On the Stahel-Donoho estimator and depth-weighted means of multivariate data. <i>Annals of Statistics</i> , 2004, 32, 167.	2.6	73
26	Posterior Inference in Bayesian Quantile Regression with Asymmetric Laplace Likelihood. <i>International Statistical Review</i> , 2016, 84, 327-344.	1.9	66
27	Bounded Influence and High Breakdown Point Testing Procedures in Linear Models. <i>Journal of the American Statistical Association</i> , 1994, 89, 543-549.	3.1	65
28	Lower Bounds for Contamination Bias: Globally Minimax Versus Locally Linear Estimation. <i>Annals of Statistics</i> , 1993, 21, .	2.6	65
29	Influence diagnostics and outlier tests for semiparametric mixed models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2002, 64, 565-579.	2.2	64
30	Detecting Differential Expressions in GeneChip Microarray Studies. <i>Journal of the American Statistical Association</i> , 2007, 102, 104-112.	3.1	62
31	Asymptotic distributions of the maximal depth estimators for regression and multivariate location. <i>Annals of Statistics</i> , 1999, 27, .	2.6	60
32	A local breakdown property of robust tests in linear regression. <i>Journal of Multivariate Analysis</i> , 1991, 38, 294-305.	1.0	58
33	Convergence of depth contours for multivariate datasets. <i>Annals of Statistics</i> , 1997, 25, .	2.6	57
34	Power Transformation Toward a Linear Regression Quantile. <i>Journal of the American Statistical Association</i> , 2007, 102, 269-279.	3.1	56
35	Robust Direction Estimation. <i>Annals of Statistics</i> , 1992, 20, .	2.6	52
36	Monotone B-Spline Smoothing. <i>Journal of the American Statistical Association</i> , 1998, 93, 643.	3.1	51

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37	Reproducibility Probability Score"incorporating measurement variability across laboratories for gene selection. <i>Nature Biotechnology</i> , 2006, 24, 1476-1477.	17.5	51
38	Median regression for longitudinal data. <i>Statistics in Medicine</i> , 2003, 22, 3655-3669.	1.6	50
39	Rewighted LS Estimators Converge at the same Rate as the Initial Estimator. <i>Annals of Statistics</i> , 1992, 20, 2161.	2.6	49
40	Globally adaptive quantile regression with ultra-high dimensional data. <i>Annals of Statistics</i> , 2015, 43, 2225-2258.	2.6	49
41	Bolus Location Associated With Videofluoroscopic and Respirodeglutometric Events. <i>Journal of Speech, Language, and Hearing Research</i> , 2005, 48, 21-33.	1.6	48
42	Bent Line Quantile Regression with Application to an Allometric Study of Land Mammals' Speed and Mass. <i>Biometrics</i> , 2011, 67, 242-249.	1.4	44
43	A cohort study to identify and evaluate concussion risk factors across multiple injury settings: findings from the CARE Consortium. <i>Injury Epidemiology</i> , 2019, 6, 1.	1.8	42
44	Quantile splines with several covariates. <i>Journal of Statistical Planning and Inference</i> , 1999, 75, 343-352.	0.6	40
45	Multivariate L-estimation. <i>Test</i> , 1999, 8, 255-317.	1.1	38
46	Inference for single-index quantile regression models with profile optimization. <i>Annals of Statistics</i> , 2016, 44, .	2.6	37
47	Enhanced Quantile Normalization of Microarray Data to Reduce Loss of Information in Gene Expression Profiles. <i>Biometrics</i> , 2007, 63, 50-59.	1.4	34
48	Breakdown Robustness of Tests. <i>Journal of the American Statistical Association</i> , 1990, 85, 446.	3.1	32
49	Smoothed quantile regression with large-scale inference. <i>Journal of Econometrics</i> , 2023, 232, 367-388.	6.5	30
50	Skinny Gibbs: A Consistent and Scalable Gibbs Sampler for Model Selection. <i>Journal of the American Statistical Association</i> , 2019, 114, 1205-1217.	3.1	26
51	Quantile regression with doubly censored data. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 797-812.	1.2	25
52	A data-adaptive knot selection scheme for fitting splines. <i>IEEE Signal Processing Letters</i> , 2001, 8, 137-139.	3.6	24
53	Method of medians for lifetime data with Weibull models. , 1999, 18, 1993-2009.		22
54	Bayesian quantile regression with approximate likelihood. <i>Bernoulli</i> , 2015, 21, .	1.3	22

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55	Cumulative Effects of Concussion History on Baseline Computerized Neurocognitive Test Scores: Systematic Review and Meta-analysis. <i>Sports Health</i> , 2017, 9, 324-332.	2.7	19
56	A New Approach to Censored Quantile Regression Estimation. <i>Journal of Computational and Graphical Statistics</i> , 2018, 27, 417-425.	1.7	19
57	Prediction of Functional Status for the Elderly Based on a New Ordinal Regression Model. <i>Journal of the American Statistical Association</i> , 2010, 105, 930-941.	3.1	18
58	High dimensional censored quantile regression. <i>Annals of Statistics</i> , 2018, 46, 308-343.	2.6	18
59	M-estimation for linear models with spatially-correlated errors. <i>Statistics and Probability Letters</i> , 2004, 66, 383-393.	0.7	17
60	An informative subset-based estimator for censored quantile regression. <i>Test</i> , 2012, 21, 635-655.	1.1	17
61	Inference on Selected Subgroups in Clinical Trials. <i>Journal of the American Statistical Association</i> , 2020, , 1-19.	3.1	17
62	A Robust Journey in the New Millennium. <i>Journal of the American Statistical Association</i> , 2000, 95, 1331-1335.	3.1	16
63	Local Influence Analysis for Penalized Gaussian Likelihood Estimators in Partially Linear Models. <i>Scandinavian Journal of Statistics</i> , 2003, 30, 767-780.	1.4	16
64	Sieve maximum likelihood estimation for doubly semiparametric zero-inflated Poisson models. <i>Journal of Multivariate Analysis</i> , 2010, 101, 2026-2038.	1.0	16
65	Bounded Influence and High Breakdown Point Testing Procedures in Linear Models. <i>Journal of the American Statistical Association</i> , 1994, 89, 543.	3.1	16
66	On median-type estimators of direction for the von Mises-Fisher distribution. <i>Biometrika</i> , 1993, 80, 869-875.	2.4	14
67	Three-step estimation in linear mixed models with skew-t distributions. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 1542-1555.	0.6	14
68	Debiased Inference on Treatment Effect in a High-Dimensional Model. <i>Journal of the American Statistical Association</i> , 2020, 115, 442-454.	3.1	14
69	Concussion-Recovery Trajectories Among Tactical Athletes: Results From the CARE Consortium. <i>Journal of Athletic Training</i> , 2020, 55, 658-665.	1.8	12
70	Some asymptotic results on bivariate quantile splines. <i>Journal of Statistical Planning and Inference</i> , 2000, 91, 341-349.	0.6	11
71	Longitudinal data analysis using t-type regression. <i>Journal of Statistical Planning and Inference</i> , 2004, 122, 253-269.	0.6	11
72	An Improved Iterative Proportional Scaling Procedure for Gaussian Graphical Models. <i>Journal of Computational and Graphical Statistics</i> , 2011, 20, 417-431.	1.7	11

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73	Bivariate Downscaling With Asynchronous Measurements. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012, 17, 476-489.	1.4	11
74	A data-driven approach to conditional screening of high-dimensional variables. <i>Stat</i> , 2016, 5, 200-212.	0.4	11
75	Quantile regression. <i>Journal of Econometrics</i> , 2019, 213, 1-3.	6.5	10
76	An Enhanced Quantile Approach for Assessing Differential Gene Expressions. <i>Biometrics</i> , 2008, 64, 449-457.	1.4	9
77	Assessment of impaired coordination between respiration and deglutition in children and young adults with ataxia telangiectasia. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 1069-1075.	2.1	9
78	Hypothesis testing for regional quantiles. <i>Journal of Statistical Planning and Inference</i> , 2017, 191, 13-24.	0.6	9
79	Bahadur efficiency and robustness of studentized score tests. <i>Annals of the Institute of Statistical Mathematics</i> , 1996, 48, 295-314.	0.8	8
80	Extensions of the Markov chain marginal bootstrap. <i>Statistics and Probability Letters</i> , 2007, 77, 1258-1268.	0.7	8
81	Inference on low-rank data matrices with applications to microarray data. <i>Annals of Applied Statistics</i> , 2009, 3, .	1.1	8
82	Lower Rank Approximation of Matrices Based on Fast and Robust Alternating Regression. <i>Journal of Computational and Graphical Statistics</i> , 2008, 17, 186-200.	1.7	7
83	Singular Value Decomposition-Based Alternative Splicing Detection. <i>Journal of the American Statistical Association</i> , 2009, 104, 944-953.	3.1	7
84	A Multistep Protein Lysate Array Quantification Method and its Statistical Properties. <i>Biometrics</i> , 2011, 67, 1197-1205.	1.4	7
85	Modeling and prediction of children's growth data via functional principal component analysis. <i>Science in China Series A: Mathematics</i> , 2009, 52, 1342-1350.	0.5	6
86	Robust low-rank data matrix approximations. <i>Science China Mathematics</i> , 2017, 60, 189-200.	1.7	6
87	A simple and competitive estimator of location. <i>Statistics and Probability Letters</i> , 1994, 19, 137-142.	0.7	5
88	Adjustment of Measuring Devices With Linear Models. <i>Technometrics</i> , 2004, 46, 127-134.	1.9	5
89	On the predictive risk in misspecified quantile regression. <i>Journal of Econometrics</i> , 2019, 213, 235-260.	6.5	5
90	Law of the Iterated Logarithm and Invariance Principle for M-Estimators. <i>Proceedings of the American Mathematical Society</i> , 1995, 123, 563.	0.8	4

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91	On marginal estimation in a semiparametric model for longitudinal data with time-independent covariates. <i>Metrika</i> , 2002, 55, 67-74.	0.8	4
92	Marginal versus joint Box-Cox transformation with applications to percentile curve construction for IgG subclasses and blood pressures. <i>Statistics in Medicine</i> , 2003, 22, 397-408.	1.6	4
93	Challenges and Opportunities in Statistics and Data Science: Ten Research Areas. , 0, , .		4
94	Inference based on adaptive grid selection of probability transforms. <i>Statistics</i> , 2016, 50, 667-688.	0.6	3
95	Bayesian joint-quantile regression. <i>Computational Statistics</i> , 2021, 36, 2033-2053.	1.5	3
96	Breakdown versus efficiency " Your perspective matters. <i>Statistics and Probability Letters</i> , 1994, 19, 357-360.	0.7	2
97	Statistical inference based on robust low-rank data matrix approximation. <i>Annals of Statistics</i> , 2014, 42, .	2.6	2
98	A Conversation with Roger Koenker. <i>International Statistical Review</i> , 2017, 85, 46-60.	1.9	2
99	A tail-based test to detect differential expression in RNA-sequencing data. <i>Statistical Methods in Medical Research</i> , 2021, 30, 261-276.	1.5	2
100	Model-based bootstrap for detection of regional quantile treatment effects. <i>Journal of Nonparametric Statistics</i> , 0, , 1-22.	0.9	2
101	ASYMPTOTIC DISTRIBUTIONS OF THE MAXIMAL DEPTH ESTIMATORS FOR REGRESSION AND MULTIVARIATE LOCATION. , 2008, , .		2
102	Inference on Low-Rank Data Matrices with Applications to Microarray Data. <i>Annals of Applied Statistics</i> , 2009, 3, 1634-1654.	1.1	2
103	Likelihood ratio test for discordancy with slippage alternatives. <i>Communications in Statistics - Theory and Methods</i> , 1990, 19, 3585-3594.	1.0	1
104	Searching for Alternative Splicing With a Joint Model on Probe Measurability and Expression Intensities. <i>Journal of the American Statistical Association</i> , 2012, 107, 935-945.	3.1	1
105	Bias Correction in RNA-Seq Short-Read Counts Using Penalized Regression. <i>Statistics in Biosciences</i> , 2013, 5, 88-99.	1.2	1
106	Discussion of "multivariate functional outlier detection". <i>Statistical Methods and Applications</i> , 2015, 24, 209-215.	1.2	1
107	A mixture factor model with applications to microarray data. <i>Test</i> , 2019, 28, 60-76.	1.1	1
108	ESTIMATING THE ROOT OF A NONPARAMETRIC REGRESSION FUNCTION IN A ROBUST FASHION. <i>The Australian Journal of Statistics</i> , 1990, 32, 217-225.	0.2	0

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109	Statistical inference for multiple changeâ€point models. Scandinavian Journal of Statistics, 2020, 47, 1149-1170.	1.4	0
110	3. Statistical Models for Biomedical Research. Journal of the Japanese Society of Computational Statistics, 2003, 15, 81-87.	0.2	0
111	A MONTE CARLO GAP TEST IN COMPUTING HPD REGIONS. , 2003, , 38-52.		0
112	Partially Bayesian variable selection in classification trees. Statistics and Its Interface, 2008, 1, 155-167.	0.3	0
113	Percentile Charts on Correlated Measures. , 2010, , 972-975.		0
114	A Conversation with Stephen Portnoy. Statistical Science, 2022, 37, .	2.8	0