

# Xuming He

## 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.

112  
papers

3,934  
citations

38  
h-index

61  
g-index

120  
ext. papers

4,447  
ext. citations

2.4  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
112	Bayesian joint-quantile regression. <i>Computational Statistics</i> , <b>2021</b> , 36, 2033-2053	1	0
111	A tail-based test to detect differential expression in RNA-sequencing data. <i>Statistical Methods in Medical Research</i> , <b>2021</b> , 30, 261-276	2.3	0
110	Smoothed quantile regression with large-scale inference. <i>Journal of Econometrics</i> , <b>2021</b> ,	2.6	4
109	Statistical inference for multiple change-point models. <i>Scandinavian Journal of Statistics</i> , <b>2020</b> , 47, 1149-1170	1.870	0
108	Inference on Selected Subgroups in Clinical Trials. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 1-19	2.8	6
107	Concussion-Recovery Trajectories Among Tactical Athletes: Results From the CARE Consortium. <i>Journal of Athletic Training</i> , <b>2020</b> , 55, 658-665	4	3
106	Debiased Inference on Treatment Effect in a High-Dimensional Model. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 115, 442-454	2.8	4
105	Quantile regression. <i>Journal of Econometrics</i> , <b>2019</b> , 213, 1-3	2.6	5
104	Skinny Gibbs: A Consistent and Scalable Gibbs Sampler for Model Selection. <i>Journal of the American Statistical Association</i> , <b>2019</b> , 114, 1205-1217	2.8	16
103	A mixture factor model with applications to microarray data. <i>Test</i> , <b>2019</b> , 28, 60-76	1.1	0
102	On the predictive risk in misspecified quantile regression. <i>Journal of Econometrics</i> , <b>2019</b> , 213, 235-260	2.6	2
101	A cohort study to identify and evaluate concussion risk factors across multiple injury settings: findings from the CARE Consortium. <i>Injury Epidemiology</i> , <b>2019</b> , 6, 1	1.7	17
100	HIGH DIMENSIONAL CENSORED QUANTILE REGRESSION. <i>Annals of Statistics</i> , <b>2018</b> , 46, 308-343	3.2	8
99	A New Approach to Censored Quantile Regression Estimation. <i>Journal of Computational and Graphical Statistics</i> , <b>2018</b> , 27, 417-425	1.4	8
98	A Conversation with Roger Koenker. <i>International Statistical Review</i> , <b>2017</b> , 85, 46-60	1.4	2
97	Robust low-rank data matrix approximations. <i>Science China Mathematics</i> , <b>2017</b> , 60, 189-200	0.8	6
96	Hypothesis testing for regional quantiles. <i>Journal of Statistical Planning and Inference</i> , <b>2017</b> , 191, 13-24	0.8	3

95	Cumulative Effects of Concussion History on Baseline Computerized Neurocognitive Test Scores: Systematic Review and Meta-analysis. <i>Sports Health</i> , <b>2017</b> , 9, 324-332	4.7	11
94	A data-driven approach to conditional screening of high-dimensional variables. <i>Stat</i> , <b>2016</b> , 5, 200-212	0.7	9
93	Inference for single-index quantile regression models with profile optimization. <i>Annals of Statistics</i> , <b>2016</b> , 44,	3.2	26
92	Posterior Inference in Bayesian Quantile Regression with Asymmetric Laplace Likelihood. <i>International Statistical Review</i> , <b>2016</b> , 84, 327-344	1.4	40
91	Assessment of impaired coordination between respiration and deglutition in children and young adults with ataxia telangiectasia. <i>Developmental Medicine and Child Neurology</i> , <b>2016</b> , 58, 1069-75	3.3	8
90	Inference based on adaptive grid selection of probability transforms. <i>Statistics</i> , <b>2016</b> , 50, 667-688	0.5	3
89	Discussion of multivariate functional outlier detection. <i>Statistical Methods and Applications</i> , <b>2015</b> , 24, 209-215	0.8	1
88	Bayesian quantile regression with approximate likelihood. <i>Bernoulli</i> , <b>2015</b> , 21,	1.6	15
87	GLOBALLY ADAPTIVE QUANTILE REGRESSION WITH ULTRA-HIGH DIMENSIONAL DATA. <i>Annals of Statistics</i> , <b>2015</b> , 43, 2225-2258	3.2	28
86	Inference for Subgroup Analysis With a Structured Logistic-Normal Mixture Model. <i>Journal of the American Statistical Association</i> , <b>2015</b> , 110, 303-312	2.8	55
85	Statistical inference based on robust low-rank data matrix approximation. <i>Annals of Statistics</i> , <b>2014</b> , 42,	3.2	2
84	Bias Correction in RNA-Seq Short-Read Counts Using Penalized Regression. <i>Statistics in Biosciences</i> , <b>2013</b> , 5, 88-99	1.5	1
83	Quantile-adaptive model-free variable screening for high-dimensional heterogeneous data. <i>Annals of Statistics</i> , <b>2013</b> , 41,	3.2	135
82	Quantile regression with doubly censored data. <i>Computational Statistics and Data Analysis</i> , <b>2012</b> , 56, 797-812	1.6	20
81	Bayesian empirical likelihood for quantile regression. <i>Annals of Statistics</i> , <b>2012</b> , 40,	3.2	73
80	Bivariate Downscaling With Asynchronous Measurements. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , <b>2012</b> , 17, 476-489	1.9	8
79	Searching for Alternative Splicing With a Joint Model on Probe Measurability and Expression Intensities. <i>Journal of the American Statistical Association</i> , <b>2012</b> , 107, 935-945	2.8	1
78	Estimation of High Conditional Quantiles for Heavy-Tailed Distributions. <i>Journal of the American Statistical Association</i> , <b>2012</b> , 107, 1453-1464	2.8	54

77	An informative subset-based estimator for censored quantile regression. <i>Test</i> , <b>2012</b> , 21, 635-655	1.1	17
76	Bent line quantile regression with application to an allometric study of land mammals' speed and mass. <i>Biometrics</i> , <b>2011</b> , 67, 242-9	1.8	28
75	A multistep protein lysate array quantification method and its statistical properties. <i>Biometrics</i> , <b>2011</b> , 67, 1197-205	1.8	5
74	An Improved Iterative Proportional Scaling Procedure for Gaussian Graphical Models. <i>Journal of Computational and Graphical Statistics</i> , <b>2011</b> , 20, 417-431	1.4	8
73	Wild bootstrap for quantile regression. <i>Biometrika</i> , <b>2011</b> , 98, 995-999	2	85
72	Prediction of Functional Status for the Elderly Based on a New Ordinal Regression Model. <i>Journal of the American Statistical Association</i> , <b>2010</b> , 105, 930-941	2.8	18
71	Biomechanical properties of concussions in high school football. <i>Medicine and Science in Sports and Exercise</i> , <b>2010</b> , 42, 2064-71	1.2	174
70	Sieve Maximum Likelihood Estimation for Doubly Semiparametric Zero-Inflated Poisson Models. <i>Journal of Multivariate Analysis</i> , <b>2010</b> , 101, 2026-2038	1.4	13
69	Percentile Charts on Correlated Measures <b>2010</b> , 972-975		
68	Modeling and prediction of children's growth data via functional principal component analysis. <i>Science in China Series A: Mathematics</i> , <b>2009</b> , 52, 1342-1350		5
67	Singular Value Decomposition-based Alternative Splicing Detection. <i>Journal of the American Statistical Association</i> , <b>2009</b> , 104, 944-953	2.8	7
66	Head impacts during high school football: a biomechanical assessment. <i>Journal of Athletic Training</i> , <b>2009</b> , 44, 342-9	4	217
65	Inference on low-rank data matrices with applications to microarray data. <i>Annals of Applied Statistics</i> , <b>2009</b> , 3,	2.1	8
64	Inference on Low-Rank Data Matrices with Applications to Microarray Data. <i>Annals of Applied Statistics</i> , <b>2009</b> , 3, 1634-1654	2.1	2
63	Lower Rank Approximation of Matrices Based on Fast and Robust Alternating Regression. <i>Journal of Computational and Graphical Statistics</i> , <b>2008</b> , 17, 186-200	1.4	6
62	Three-step estimation in linear mixed models with skew-t distributions. <i>Journal of Statistical Planning and Inference</i> , <b>2008</b> , 138, 1542-1555	0.8	9
61	An enhanced quantile approach for assessing differential gene expressions. <i>Biometrics</i> , <b>2008</b> , 64, 449-571.8	1.8	8
60	Partially Bayesian variable selection in classification trees. <i>Statistics and Its Interface</i> , <b>2008</b> , 1, 155-167	0.4	

59	Detecting Differential Expressions in GeneChip Microarray Studies. <i>Journal of the American Statistical Association</i> , <b>2007</b> , 102, 104-112	2.8	50
58	Extensions of the Markov chain marginal bootstrap. <i>Statistics and Probability Letters</i> , <b>2007</b> , 77, 1258-1268.6		2
57	Enhanced quantile normalization of microarray data to reduce loss of information in gene expression profiles. <i>Biometrics</i> , <b>2007</b> , 63, 50-9	1.8	29
56	Power Transformation Toward a Linear Regression Quantile. <i>Journal of the American Statistical Association</i> , <b>2007</b> , 102, 269-279	2.8	48
55	Non-parametric quantification of protein lysate arrays. <i>Bioinformatics</i> , <b>2007</b> , 23, 1986-94	7.2	164
54	Conditional growth charts. <i>Annals of Statistics</i> , <b>2006</b> , 34, 2069	3.2	88
53	Quantile regression methods for reference growth charts. <i>Statistics in Medicine</i> , <b>2006</b> , 25, 1369-82	2.3	215
52	Reproducibility Probability Score—incorporating measurement variability across laboratories for gene selection. <i>Nature Biotechnology</i> , <b>2006</b> , 24, 1476-7	44.5	37
51	Robust Estimation in Generalized Partial Linear Models for Clustered Data. <i>Journal of the American Statistical Association</i> , <b>2005</b> , 100, 1176-1184	2.8	121
50	Practical Confidence Intervals for Regression Quantiles. <i>Journal of Computational and Graphical Statistics</i> , <b>2005</b> , 14, 41-55	1.4	97
49	Bolus location associated with videofluoroscopic and respirodeglutometric events. <i>Journal of Speech, Language, and Hearing Research</i> , <b>2005</b> , 48, 21-33	2.8	44
48	On the Stahel-Donoho estimator and depth-weighted means of multivariate data. <i>Annals of Statistics</i> , <b>2004</b> , 32, 167	3.2	51
47	M-estimation for linear models with spatially-correlated errors. <i>Statistics and Probability Letters</i> , <b>2004</b> , 66, 383-393	0.6	14
46	Longitudinal data analysis using t-type regression. <i>Journal of Statistical Planning and Inference</i> , <b>2004</b> , 122, 253-269	0.8	9
45	Adjustment of Measuring Devices With Linear Models. <i>Technometrics</i> , <b>2004</b> , 46, 127-134	1.4	5
44	Marginal versus joint Box-Cox transformation with applications to percentile curve construction for IgG subclasses and blood pressures. <i>Statistics in Medicine</i> , <b>2003</b> , 22, 397-408	2.3	4
43	Median regression for longitudinal data. <i>Statistics in Medicine</i> , <b>2003</b> , 22, 3655-69	2.3	42
42	Local Influence Analysis for Penalized Gaussian Likelihood Estimators in Partially Linear Models. <i>Scandinavian Journal of Statistics</i> , <b>2003</b> , 30, 767-780	0.8	13

41	A Lack-of-Fit Test for Quantile Regression. <i>Journal of the American Statistical Association</i> , <b>2003</b> , 98, 1013-1022	100
40	3. Statistical Models for Biomedical Research. <i>Journal of the Japanese Society of Computational Statistics</i> , <b>2003</b> , 15, 81-87	
39	A MONTE CARLO GAP TEST IN COMPUTING HPD REGIONS <b>2003</b> , 38-52	
38	Influence diagnostics and outlier tests for semiparametric mixed models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2002</b> , 64, 565-579	3.9 56
37	On marginal estimation in a semiparametric model for longitudinal data with time-independent covariates. <i>Metrika</i> , <b>2002</b> , 55, 67-74	0.8 4
36	Markov Chain Marginal Bootstrap. <i>Journal of the American Statistical Association</i> , <b>2002</b> , 97, 783-795	2.8 84
35	A data-adaptive knot selection scheme for fitting splines. <i>IEEE Signal Processing Letters</i> , <b>2001</b> , 8, 137-139	3.2 16
34	High Breakdown Estimation for Multiple Populations with Applications to Discriminant Analysis. <i>Journal of Multivariate Analysis</i> , <b>2000</b> , 72, 151-162	1.4 72
33	On Parameters of Increasing Dimensions. <i>Journal of Multivariate Analysis</i> , <b>2000</b> , 73, 120-135	1.4 96
32	Some asymptotic results on bivariate quantile splines. <i>Journal of Statistical Planning and Inference</i> , <b>2000</b> , 91, 341-349	0.8 10
31	A Robust Journey in the New Millennium. <i>Journal of the American Statistical Association</i> , <b>2000</b> , 95, 1331-1335	13
30	COBS: qualitatively constrained smoothing via linear programming. <i>Computational Statistics</i> , <b>1999</b> , 14, 315-337	1 69
29	Quantile splines with several covariates. <i>Journal of Statistical Planning and Inference</i> , <b>1999</b> , 75, 343-352	0.8 27
28	Multivariate L-estimation. <i>Test</i> , <b>1999</b> , 8, 255-317	1.1 31
27	Method of medians for lifetime data with Weibull models. <i>Statistics in Medicine</i> , <b>1999</b> , 18, 1993-2009	2.3 18
26	Asymptotic distributions of the maximal depth estimators for regression and multivariate location. <i>Annals of Statistics</i> , <b>1999</b> , 27,	3.2 51
25	Monotone B-Spline Smoothing. <i>Journal of the American Statistical Association</i> , <b>1998</b> , 93, 643	2.8 38
24	Monotone B-Spline Smoothing. <i>Journal of the American Statistical Association</i> , <b>1998</b> , 93, 643-650	2.8 76

23	Quantile Curves without Crossing. <i>American Statistician</i> , <b>1997</b> , 51, 186-192	5	77
22	Quantile Curves without Crossing. <i>American Statistician</i> , <b>1997</b> , 51, 186	5	96
21	Convergence of depth contours for multivariate datasets. <i>Annals of Statistics</i> , <b>1997</b> , 25,	3.2	45
20	A general Bahadur representation of M-estimators and its application to linear regression with nonstochastic designs. <i>Annals of Statistics</i> , <b>1996</b> , 24, 2608	3.2	142
19	Bivariate Tensor-Product B-Splines in a Partly Linear Model. <i>Journal of Multivariate Analysis</i> , <b>1996</b> , 58, 162-181	1.4	107
18	Bahadur efficiency and robustness of studentized score tests. <i>Annals of the Institute of Statistical Mathematics</i> , <b>1996</b> , 48, 295-314	1	6
17	Law of the Iterated Logarithm and Invariance Principle for M-Estimators. <i>Proceedings of the American Mathematical Society</i> , <b>1995</b> , 123, 563	0.8	3
16	Bounded Influence and High Breakdown Point Testing Procedures in Linear Models. <i>Journal of the American Statistical Association</i> , <b>1994</b> , 89, 543-549	2.8	53
15	Convergence rate of b-spline estimators of nonparametric conditional quantile functions *. <i>Journal of Nonparametric Statistics</i> , <b>1994</b> , 3, 299-308	0.7	97
14	Breakdown versus efficiency ¶Your perspective matters. <i>Statistics and Probability Letters</i> , <b>1994</b> , 19, 357-360	0.6	1
13	A simple and competitive estimator of location. <i>Statistics and Probability Letters</i> , <b>1994</b> , 19, 137-142	0.6	4
12	On median-type estimators of direction for the von Mises-Fisher distribution. <i>Biometrika</i> , <b>1993</b> , 80, 869-875	2	13
11	Lower Bounds for Contamination Bias: Globally Minimax Versus Locally Linear Estimation. <i>Annals of Statistics</i> , <b>1993</b> , 21,	3.2	48
10	Reweighted LS Estimators Converge at the same Rate as the Initial Estimator. <i>Annals of Statistics</i> , <b>1992</b> , 20, 2161	3.2	38
9	Robust Direction Estimation. <i>Annals of Statistics</i> , <b>1992</b> , 20,	3.2	43
8	A local breakdown property of robust tests in linear regression. <i>Journal of Multivariate Analysis</i> , <b>1991</b> , 38, 294-305	1.4	51
7	ESTIMATING THE ROOT OF A NONPARAMETRIC REGRESSION FUNCTION IN A ROBUST FASHION. <i>The Australian Journal of Statistics</i> , <b>1990</b> , 32, 217-225		
6	Likelihood ratio test for discordancy with slippage alternatives. <i>Communications in Statistics - Theory and Methods</i> , <b>1990</b> , 19, 3585-3594	0.5	1

5	Breakdown Robustness of Tests. <i>Journal of the American Statistical Association</i> , <b>1990</b> , 85, 446-452	2.8	81
4	Challenges and Opportunities in Statistics and Data Science: Ten Research Areas		3
3	Breakdown Robustness of Tests		29
2	Bounded Influence and High Breakdown Point Testing Procedures in Linear Models		16
1	Model-based bootstrap for detection of regional quantile treatment effects. <i>Journal of Nonparametric Statistics</i> , 1-22	0.7	0