Xuming He

List of Publications by Citations

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	Head impacts during high school football: a biomechanical assessment. *Journal of Athletic Training*, **2009**, 44, 342-9	4	217
111	Quantile regression methods for reference growth charts. *Statistics in Medicine*, **2006**, 25, 1369-82	2.3	215
110	Biomechanical properties of concussions in high school football. *Medicine and Science in Sports and Exercise*, **2010**, 42, 2064-71	1.2	174
109	Non-parametric quantification of protein lysate arrays. *Bioinformatics*, **2007**, 23, 1986-94	7.2	164
108	A general Bahadur representation of M-estimators and its application to linear regression with nonstochastic designs. *Annals of Statistics*, **1996**, 24, 2608	3.2	142
107	Quantile-adaptive model-free variable screening for high-dimensional heterogeneous data. *Annals of Statistics*, **2013**, 41,	3.2	135
106	Robust Estimation in Generalized Partial Linear Models for Clustered Data. *Journal of the American Statistical Association*, **2005**, 100, 1176-1184	2.8	121
105	Bivariate Tensor-Product B-Splines in a Partly Linear Model. *Journal of Multivariate Analysis*, **1996**, 58, 162-181	1.4	107
104	A Lack-of-Fit Test for Quantile Regression. *Journal of the American Statistical Association*, **2003**, 98, 1013-1022	2.8	100
103	Practical Confidence Intervals for Regression Quantiles. *Journal of Computational and Graphical Statistics*, **2005**, 14, 41-55	1.4	97
102	Convergence rate of b-spline estimators of nonparametric conditional quantile functions *. *Journal of Nonparametric Statistics*, **1994**, 3, 299-308	0.7	97
101	Quantile Curves without Crossing. *American Statistician*, **1997**, 51, 186	5	96
100	On Parameters of Increasing Dimensions. *Journal of Multivariate Analysis*, **2000**, 73, 120-135	1.4	96
99	Conditional growth charts. *Annals of Statistics*, **2006**, 34, 2069	3.2	88
98	Wild bootstrap for quantile regression. *Biometrika*, **2011**, 98, 995-999	2	85
97	Markov Chain Marginal Bootstrap. *Journal of the American Statistical Association*, **2002**, 97, 783-795	2.8	84
96	Breakdown Robustness of Tests. *Journal of the American Statistical Association*, **1990**, 85, 446-452	2.8	81

95	Quantile Curves without Crossing. *American Statistician*, **1997**, 51, 186-192	5	77
94	Monotone B-Spline Smoothing. *Journal of the American Statistical Association*, **1998**, 93, 643-650	2.8	76
93	Bayesian empirical likelihood for quantile regression. *Annals of Statistics*, **2012**, 40,	3.2	73
92	High Breakdown Estimation for Multiple Populations with Applications to Discriminant Analysis. *Journal of Multivariate Analysis*, **2000**, 72, 151-162	1.4	72
91	COBS: qualitatively constrained smoothing via linear programming. *Computational Statistics*, **1999**, 14, 315-337	1	69
90	Influence diagnostics and outlier tests for semiparametric mixed models. *Journal of the Royal Statistical Society Series B: Statistical Methodology*, **2002**, 64, 565-579	3.9	56
89	Inference for Subgroup Analysis With a Structured Logistic-Normal Mixture Model. *Journal of the American Statistical Association*, **2015**, 110, 303-312	2.8	55
88	Estimation of High Conditional Quantiles for Heavy-Tailed Distributions. *Journal of the American Statistical Association*, **2012**, 107, 1453-1464	2.8	54
87	Bounded Influence and High Breakdown Point Testing Procedures in Linear Models. *Journal of the American Statistical Association*, **1994**, 89, 543-549	2.8	53
86	On the Stahel-Donoho estimator and depth-weighted means of multivariate data. *Annals of Statistics*, **2004**, 32, 167	3.2	51
85	A local breakdown property of robust tests in linear regression. *Journal of Multivariate Analysis*, **1991**, 38, 294-305	1.4	51
84	Asymptotic distributions of the maximal depth estimators for regression and multivariate location. *Annals of Statistics*, **1999**, 27,	3.2	51
83	Detecting Differential Expressions in GeneChip Microarray Studies. *Journal of the American Statistical Association*, **2007**, 102, 104-112	2.8	50
82	Power Transformation Toward a Linear Regression Quantile. *Journal of the American Statistical Association*, **2007**, 102, 269-279	2.8	48
81	Lower Bounds for Contamination Bias: Globally Minimax Versus Locally Linear Estimation. *Annals of Statistics*, **1993**, 21,	3.2	48
80	Convergence of depth contours for multivariate datasets. *Annals of Statistics*, **1997**, 25,	3.2	45
79	Bolus location associated with videofluoroscopic and respirodeglutometric events. *Journal of Speech, Language, and Hearing Research*, **2005**, 48, 21-33	2.8	44
78	Robust Direction Estimation. *Annals of Statistics*, **1992**, 20,	3.2	43

77	Median regression for longitudinal data. *Statistics in Medicine*, **2003**, 22, 3655-69	2.3	42
76	Posterior Inference in Bayesian Quantile Regression with Asymmetric Laplace Likelihood. *International Statistical Review*, **2016**, 84, 327-344	1.4	40
75	Monotone B-Spline Smoothing. *Journal of the American Statistical Association*, **1998**, 93, 643	2.8	38
74	Reweighted LS Estimators Converge at the same Rate as the Initial Estimator. *Annals of Statistics*, **1992**, 20, 2161	3.2	38
73	Reproducibility Probability Score--incorporating measurement variability across laboratories for gene selection. *Nature Biotechnology*, **2006**, 24, 1476-7	44.5	37
72	Multivariate L-estimation. *Test*, **1999**, 8, 255-317	1.1	31
71	Enhanced quantile normalization of microarray data to reduce loss of information in gene expression profiles. *Biometrics*, **2007**, 63, 50-9	1.8	29
70	Breakdown Robustness of Tests		29
69	GLOBALLY ADAPTIVE QUANTILE REGRESSION WITH ULTRA-HIGH DIMENSIONAL DATA. *Annals of Statistics*, **2015**, 43, 2225-2258	3.2	28
68	Bent line quantile regression with application to an allometric study of land mammals' speed and mass. *Biometrics*, **2011**, 67, 242-9	1.8	28
67	Quantile splines with several covariates. *Journal of Statistical Planning and Inference*, **1999**, 75, 343-352	0.8	27
66	Inference for single-index quantile regression models with profile optimization. *Annals of Statistics*, **2016**, 44,	3.2	26
65	Quantile regression with doubly censored data. *Computational Statistics and Data Analysis*, **2012**, 56, 797-812	1.6	20
64	Prediction of Functional Status for the Elderly Based on a New Ordinal Regression Model. *Journal of the American Statistical Association*, **2010**, 105, 930-941	2.8	18
63	Method of medians for lifetime data with Weibull models. *Statistics in Medicine*, **1999**, 18, 1993-2009	2.3	18
62	An informative subset-based estimator for censored quantile regression. *Test*, **2012**, 21, 635-655	1.1	17
61	A cohort study to identify and evaluate concussion risk factors across multiple injury settings: findings from the CARE Consortium. *Injury Epidemiology*, **2019**, 6, 1	1.7	17
60	Skinny Gibbs: A Consistent and Scalable Gibbs Sampler for Model Selection. *Journal of the American Statistical Association*, **2019**, 114, 1205-1217	2.8	16

59	A data-adaptive knot selection scheme for fitting splines. *IEEE Signal Processing Letters*, **2001**, 8, 137-139	3.2	16
58	Bounded Influence and High Breakdown Point Testing Procedures in Linear Models		16
57	Bayesian quantile regression with approximate likelihood. *Bernoulli*, **2015**, 21,	1.6	15
56	M-estimation for linear models with spatially-correlated errors. *Statistics and Probability Letters*, **2004**, 66, 383-393	0.6	14
55	Sieve Maximum Likelihood Estimation for Doubly Semiparametric Zero-Inflated Poisson Models. *Journal of Multivariate Analysis*, **2010**, 101, 2026-2038	1.4	13
54	Local Influence Analysis for Penalized Gaussian Likelihood Estimators in Partially Linear Models. *Scandinavian Journal of Statistics*, **2003**, 30, 767-780	0.8	13
53	A Robust Journey in the New Millennium. *Journal of the American Statistical Association*, **2000**, 95, 1331-1335	3.3	13
52	On median-type estimators of direction for the von Mises–Fisher distribution. *Biometrika*, **1993**, 80, 869-875	2	13
51	Cumulative Effects of Concussion History on Baseline Computerized Neurocognitive Test Scores: Systematic Review and Meta-analysis. *Sports Health*, **2017**, 9, 324-332	4.7	11
50	Some asymptotic results on bivariate quantile splines. *Journal of Statistical Planning and Inference*, **2000**, 91, 341-349	0.8	10
49	A data-driven approach to conditional screening of high-dimensional variables. *Stat*, **2016**, 5, 200-212	0.7	9
48	Three-step estimation in linear mixed models with skew-t distributions. *Journal of Statistical Planning and Inference*, **2008**, 138, 1542-1555	0.8	9
47	Longitudinal data analysis using t-type regression. *Journal of Statistical Planning and Inference*, **2004**, 122, 253-269	0.8	9
46	HIGH DIMENSIONAL CENSORED QUANTILE REGRESSION. *Annals of Statistics*, **2018**, 46, 308-343	3.2	8
45	A New Approach to Censored Quantile Regression Estimation. *Journal of Computational and Graphical Statistics*, **2018**, 27, 417-425	1.4	8
44	Bivariate Downscaling With Asynchronous Measurements. *Journal of Agricultural, Biological, and Environmental Statistics*, **2012**, 17, 476-489	1.9	8
43	An Improved Iterative Proportional Scaling Procedure for Gaussian Graphical Models. *Journal of Computational and Graphical Statistics*, **2011**, 20, 417-431	1.4	8
42	Inference on low-rank data matrices with applications to microarray data. *Annals of Applied Statistics*, **2009**, 3,	2.1	8

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41	An enhanced quantile approach for assessing differential gene expressions. *Biometrics*, **2008**, 64, 449-57	1.8	8
40	Assessment of impaired coordination between respiration and deglutition in children and young adults with ataxia telangiectasia. *Developmental Medicine and Child Neurology*, **2016**, 58, 1069-75	3.3	8
39	Singular Value Decomposition-based Alternative Splicing Detection. *Journal of the American Statistical Association*, **2009**, 104, 944-953	2.8	7
38	Robust low-rank data matrix approximations. *Science China Mathematics*, **2017**, 60, 189-200	0.8	6
37	Inference on Selected Subgroups in Clinical Trials. *Journal of the American Statistical Association*, **2020**, 1-19	2.8	6
36	Lower Rank Approximation of Matrices Based on Fast and Robust Alternating Regression. *Journal of Computational and Graphical Statistics*, **2008**, 17, 186-200	1.4	6
35	Bahadur efficiency and robustness of studentized score tests. *Annals of the Institute of Statistical Mathematics*, **1996**, 48, 295-314	1	6
34	Quantile regression. *Journal of Econometrics*, **2019**, 213, 1-3	2.6	5
33	A multistep protein lysate array quantification method and its statistical properties. *Biometrics*, **2011**, 67, 1197-205	1.8	5
32	Modeling and prediction of children's growth data via functional principal component analysis. *Science in China Series A: Mathematics*, **2009**, 52, 1342-1350		5
31	Adjustment of Measuring Devices With Linear Models. *Technometrics*, **2004**, 46, 127-134	1.4	5
30	On marginal estimation in a semiparametric model for longitudinal data with time-independent covariates. *Metrika*, **2002**, 55, 67-74	0.8	4
29	Marginal versus joint Box-Cox transformation with applications to percentile curve construction for IgG subclasses and blood pressures. *Statistics in Medicine*, **2003**, 22, 397-408	2.3	4
28	A simple and competitive estimator of location. *Statistics and Probability Letters*, **1994**, 19, 137-142	0.6	4
27	Debiased Inference on Treatment Effect in a High-Dimensional Model. *Journal of the American Statistical Association*, **2020**, 115, 442-454	2.8	4
26	Smoothed quantile regression with large-scale inference. *Journal of Econometrics*, **2021**,	2.6	4
25	Hypothesis testing for regional quantiles. *Journal of Statistical Planning and Inference*, **2017**, 191, 13-24	0.8	3
24	Law of the Iterated Logarithm and Invariance Principle for M-Estimators. *Proceedings of the American Mathematical Society*, **1995**, 123, 563	0.8	3

23	Challenges and Opportunities in Statistics and Data Science: Ten Research Areas		3
22	Concussion-Recovery Trajectories Among Tactical Athletes: Results From the CARE Consortium. *Journal of Athletic Training*, **2020**, 55, 658-665	4	3
21	Inference based on adaptive grid selection of probability transforms. *Statistics*, **2016**, 50, 667-688	0.5	3
20	A Conversation with Roger Koenker. *International Statistical Review*, **2017**, 85, 46-60	1.4	2
19	On the predictive risk in misspecified quantile regression. *Journal of Econometrics*, **2019**, 213, 235-260	2.6	2
18	Statistical inference based on robust low-rank data matrix approximation. *Annals of Statistics*, **2014**, 42,	3.2	2
17	Extensions of the Markov chain marginal bootstrap. *Statistics and Probability Letters*, **2007**, 77, 1258-1268	0.6	2
16	Inference on Low-Rank Data Matrices with Applications to Microarray Data. *Annals of Applied Statistics*, **2009**, 3, 1634-1654	2.1	2
15	Discussion of multivariate functional outlier detection. *Statistical Methods and Applications*, **2015**, 24, 209-215	0.8	1
14	Bias Correction in RNA-Seq Short-Read Counts Using Penalized Regression. *Statistics in Biosciences*, **2013**, 5, 88-99	1.5	1
13	Searching for Alternative Splicing With a Joint Model on Probe Measurability and Expression Intensities. *Journal of the American Statistical Association*, **2012**, 107, 935-945	2.8	1
12	Breakdown versus efficiency Your perspective matters. *Statistics and Probability Letters*, **1994**, 19, 357-360	0.6	1
11	Likelihood ratio test for discordancy with slippage alternatives. *Communications in Statistics - Theory and Methods*, **1990**, 19, 3585-3594	0.5	1
10	A mixture factor model with applications to microarray data. *Test*, **2019**, 28, 60-76	1.1	0
9	Model-based bootstrap for detection of regional quantile treatment effects. *Journal of Nonparametric Statistics*, 1-22	0.7	0
8	Bayesian joint-quantile regression. *Computational Statistics*, **2021**, 36, 2033-2053	1	0
7	A tail-based test to detect differential expression in RNA-sequencing data. *Statistical Methods in Medical Research*, **2021**, 30, 261-276	2.3	0
6	Statistical inference for multiple change-point models. *Scandinavian Journal of Statistics*, **2020**, 47, 1149-1170	1.8	0

5   ESTIMATING THE ROOT OF A NONPARAMETRIC REGRESSION FUNCTION IN A ROBUST FASHION.
     The Australian Journal of Statistics, **1990**, 32, 217-225

4   3. Statistical Models for Biomedical Research. *Journal of the Japanese Society of Computational Statistics*, **2003**, 15, 81-87

3   A MONTE CARLO GAP TEST IN COMPUTING HPD REGIONS **2003**, 38-52

2   Partially Bayesian variable selection in classification trees. *Statistics and Its Interface*, **2008**, 1, 155-167   0.4

1   Percentile Charts on Correlated Measures **2010**, 972-975