

# Hao Helen Zhang

## List of Publications by Year in descending order

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57  
papers

4,553  
citations

304368

22  
h-index

197535

49  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Methods-Based Modeling and Optimization of 3-D-Printed Dielectrics Around Monopole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 4997-5006.	3.1	10
2	Sparse Learning with Non-convex Penalty in Multi-classification. <i>Journal of Data Science</i> , 2021, , 56-74.	0.5	0
3	Personalized beyond Precision: Designing Unbiased Gold Standards to Improve Single-Subject Studies of Personal Genome Dynamics from Gene Products. <i>Journal of Personalized Medicine</i> , 2021, 11, 24.	1.1	3
4	binomialRF: interpretable combinatoric efficiency of random forests to identify biomarker interactions. <i>BMC Bioinformatics</i> , 2020, 21, 374.	1.2	3
5	On fusion methods for knowledge discovery from multi-omics datasets. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 509-517.	1.9	20
6	Graded regulation of cellular quiescence depth between proliferation and senescence by a lysosomal dimmer switch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22624-22634.	3.3	84
7	Phase II Trial of Chemopreventive Effects of Levonorgestrel on Ovarian and Fallopian Tube Epithelium in Women at High Risk for Ovarian Cancer: An NRG Oncology Group/GOG Study. <i>Cancer Prevention Research</i> , 2019, 12, 401-412.	0.7	5
8	Multiclass Probability Estimation With Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , 2019, 28, 586-595.	0.9	2
9	Model Selection for High-Dimensional Quadratic Regression via Regularization. <i>Journal of the American Statistical Association</i> , 2018, 113, 615-625.	1.8	54
10	Nonparametric Methods for Big Data Analytics. <i>Springer Handbooks of Computational Statistics</i> , 2018, , 103-124.	0.2	0
11	Interaction screening by partial correlation. <i>Statistics and Its Interface</i> , 2018, 11, 317-325.	0.2	10
12	Discussion on "Doubly sparsity kernel learning with automatic variable selection and data extraction". <i>Statistics and Its Interface</i> , 2018, 11, 425-428.	0.2	0
13	kMEn: Analyzing noisy and bidirectional transcriptional pathway responses in single subjects. <i>Journal of Biomedical Informatics</i> , 2017, 66, 32-41.	2.5	15
14	A Note on High-Dimensional Linear Regression With Interactions. <i>American Statistician</i> , 2017, 71, 291-297.	0.9	16
15	Exit from quiescence displays a memory of cell growth and division. <i>Nature Communications</i> , 2017, 8, 321.	5.8	41
16	Principal weighted support vector machines for sufficient dimension reduction in binary classification. <i>Biometrika</i> , 2017, 104, asw057.	1.3	17
17	Semiparametric single-index model for estimating optimal individualized treatment strategy. <i>Electronic Journal of Statistics</i> , 2017, 11, 364-384.	0.4	14
18	N-of-1-pathways MixEnrich: advancing precision medicine via single-subject analysis in discovering dynamic changes of transcriptomes. <i>BMC Medical Genomics</i> , 2017, 10, 27.	0.7	29

#	ARTICLE	IF	CITATIONS
19	Sparse linear regression for optimizing design parameters of double T-shaped monopole antennas. , 2017, , .		6
20	Comments on: Probability enhanced effective dimension reduction for classifying sparse functional data. Test, 2016, 25, 47-51.	0.7	0
21	Sparse meta-analysis with high-dimensional data. Biostatistics, 2016, 17, 205-220.	0.9	13
22	Sparse Penalized Forward Selection for Support Vector Classification. Journal of Computational and Graphical Statistics, 2016, 25, 493-514.	0.9	4
23	Joint structure selection and estimation in the time-varying coefficient Cox model. Statistica Sinica, 2016, 26, 547-567.	0.2	6
24	eQTL networks unveil enriched mRNA master integrators downstream of complex disease-associated SNPs. Journal of Biomedical Informatics, 2015, 58, 226-234.	2.5	10
25	On optimal treatment regimes selection for mean survival time. Statistics in Medicine, 2015, 34, 1169-1184.	0.8	19
26	Sparse and efficient estimation for partial spline models with increasing dimension. Annals of the Institute of Statistical Mathematics, 2015, 67, 93-127.	0.5	8
27	A model-free machine learning method for risk classification and survival probability prediction. Stat, 2014, 3, 337-350.	0.3	6
28	Probability-enhanced sufficient dimension reduction for binary classification. Biometrics, 2014, 70, 546-555.	0.8	23
29	RKHS-based functional nonparametric regression for sparse and irregular longitudinal data. Canadian Journal of Statistics, 2014, 42, 204-216.	0.6	7
30	Interaction Screening for Ultrahigh-Dimensional Data. Journal of the American Statistical Association, 2014, 109, 1285-1301.	1.8	80
31	Adaptive Elastic Net for Generalized Methods of Moments. Journal of Business and Economic Statistics, 2014, 32, 30-47.	1.8	54
32	Structured Functional Additive Regression in Reproducing Kernel Hilbert Spaces. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2014, 76, 581-603.	1.1	40
33	Machine learning for Big Data analytics in plants. Trends in Plant Science, 2014, 19, 798-808.	4.3	220
34	Two-Dimensional Solution Surface for Weighted Support Vector Machines. Journal of Computational and Graphical Statistics, 2014, 23, 383-402.	0.9	10
35	Variable selection for optimal treatment decision. Statistical Methods in Medical Research, 2013, 22, 493-504.	0.7	104
36	Iterative selection using orthogonal regression techniques. Statistical Analysis and Data Mining, 2013, 6, 557-564.	1.4	3

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37	Variable selection for nonparametric quantile regression via smoothing spline analysis of variance. Stat, 2013, 2, 255-268.	0.3	17
38	Consistent Group Identification and Variable Selection in Regression With Correlated Predictors. Journal of Computational and Graphical Statistics, 2013, 22, 319-340.	0.9	23
39	Linear or Nonlinear? Automatic Structure Discovery for Partially Linear Models. Journal of the American Statistical Association, 2011, 106, 1099-1112.	1.8	136
40	Hard or Soft Classification? Large-Margin Unified Machines. Journal of the American Statistical Association, 2011, 106, 166-177.	1.8	81
41	Surface estimation, variable selection, and the nonparametric oracle property. Statistica Sinica, 2011, 21, 679.	0.2	83
42	On Estimation of Partially Linear Transformation Models. Journal of the American Statistical Association, 2010, 105, 683-691.	1.8	22
43	Weighted Distance Weighted Discrimination and Its Asymptotic Properties. Journal of the American Statistical Association, 2010, 105, 401-414.	1.8	84
44	Bayesian Inference of Odds Ratios in Misclassified Binary Data with a Validation Substudy. Communications in Statistics Part B: Simulation and Computation, 2010, 39, 1845-1854.	0.6	1
45	Robust Model-Free Multiclass Probability Estimation. Journal of the American Statistical Association, 2010, 105, 424-436.	1.8	23
46	Automatic model selection for partially linear models. Journal of Multivariate Analysis, 2009, 100, 2100-2111.	0.5	42
47	On the adaptive elastic-net with a diverging number of parameters. Annals of Statistics, 2009, 37, 1733-1751.	1.4	575
48	FIRST: Combining forward iterative selection and shrinkage in high dimensional sparse linear regression. Statistics and Its Interface, 2009, 2, 341-348.	0.2	15
49	Support Vector Machine Classification for High Dimensional Microarray Data Analysis, With Applications in Cancer Research. , 2009, , 1-24.		0
50	Sure Independence Screening for Ultrahigh Dimensional Feature Space. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 849-911.	1.1	1,799
51	Variable selection for the multcategory SVM via adaptive sup-norm regularization. Electronic Journal of Statistics, 2008, 2, .	0.4	56
52	Multiclass Proximal Support Vector Machines. Journal of Computational and Graphical Statistics, 2006, 15, 339-355.	0.9	22
53	Model selection in nonparametric hazard regression. Journal of Nonparametric Statistics, 2006, 18, 417-429.	0.4	27
54	Gene selection using support vector machines with non-convex penalty. Bioinformatics, 2006, 22, 88-95.	1.8	230

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55	Component selection and smoothing in multivariate nonparametric regression. <i>Annals of Statistics</i> , 2006, 34, 2272.	1.4	333
56	Model building with likelihood basis pursuit. <i>Optimization Methods and Software</i> , 2004, 19, 577-594.	1.6	1
57	Variable Selection and Model Building via Likelihood Basis Pursuit. <i>Journal of the American Statistical Association</i> , 2004, 99, 659-672.	1.8	46