

# Zhengyuan Zhu

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,277  
citations

361413

20  
h-index

395702

33  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bivariate small-area estimation for binary and gaussian variables based on a conditionally specified model. <i>Biometrics</i> , 2022, 78, 1555-1565.	1.4	2
2	A global seamless 1-km resolution daily land surface temperature dataset (2003–2020). <i>Earth System Science Data</i> , 2022, 14, 651-664.	9.9	54
3	Gap-filling MODIS daily aerosol optical depth products by developing a spatiotemporal fitting algorithm. <i>GIScience and Remote Sensing</i> , 2022, 59, 762-781.	5.9	12
4	Estimating 1-km gridded daily air temperature using a spatially varying coefficient model with sign preservation. <i>Remote Sensing of Environment</i> , 2022, 277, 113072.	11.0	5
5	Spatial Sampling Design Using Generalized Neyman–Scott Process. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2021, 26, 105-127.	1.4	1
6	A Submonthly Surface Water Classification Framework via Gap-Fill Imputation and Random Forest Classifiers of Landsat Imagery. <i>Remote Sensing</i> , 2021, 13, 1742.	4.0	6
7	Low Sample and Communication Complexities in Decentralized Learning: A Triple Hybrid Approach. , 2021, , .		1
8	Integration of statistical and administrative agricultural data from Namibia. <i>Statistical Journal of the IAOS</i> , 2021, 37, 557-578.	0.4	2
9	GT-STORM. , 2021, , .		2
10	Spatio-temporal modeling of global ozone data using convolution. <i>Japanese Journal of Statistics and Data Science</i> , 2020, 3, 153-166.	1.2	0
11	Modeling Crop Phenology in the US Corn Belt Using Spatially Referenced SMOS Satellite Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2020, 25, 657-675.	1.4	3
12	Communication-Efficient Network-Distributed Optimization with Differential-Coded Compressors. , 2020, , .		1
13	A national dataset of 30-year annual urban extent dynamics (1985–2015) in the conterminous United States. <i>Earth System Science Data</i> , 2020, 12, 357-371.	9.9	31
14	Taming Convergence for Asynchronous Stochastic Gradient Descent with Unbounded Delay in Non-Convex Learning. , 2020, , .		3
15	Private and communication-efficient edge learning. , 2020, , .		8
16	A Parametric Approach to Unmixing Remote Sensing Crop Growth Signatures. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2019, 24, 502-516.	1.4	1
17	Small area estimation with subgroup analysis. <i>Statistical Theory and Related Fields</i> , 2019, 3, 129-135.	0.4	1
18	Variance function estimation of a one-dimensional nonstationary process. <i>Journal of the Korean Statistical Society</i> , 2019, 48, 327-339.	0.4	1

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19	Compressed Distributed Gradient Descent: Communication-Efficient Consensus over Networks. , 2019, ,		14
20	Spatiotemporal Balanced Sampling Design for Longitudinal Area Surveys. Journal of Agricultural, Biological, and Environmental Statistics, 2019, 24, 245-263.	1.4	3
21	Partially Linear Functional Additive Models for Multivariate Functional Data. Journal of the American Statistical Association, 2019, 114, 406-418.	3.1	38
22	Combining Survey and Non-survey Data for Improved Sub-area Prediction Using a Multi-level Model. Journal of Agricultural, Biological, and Environmental Statistics, 2018, 23, 175-189.	1.4	7
23	Creating a seamless 1 km resolution daily land surface temperature dataset for urban and surrounding areas in the conterminous United States. Remote Sensing of Environment, 2018, 206, 84-97.	11.0	102
24	Using Kriging with a heterogeneous measurement error to improve the accuracy of extreme precipitation return level estimation. Journal of Hydrology, 2018, 562, 518-529.	5.4	13
25	A new algorithm to estimate monotone nonparametric link functions and a comparison with parametric approach. Statistics and Computing, 2018, 28, 1083-1094.	1.5	3
26	Conditional Causal Mediation Analysis of Factors Associated With Cover Crop Adoption in Iowa, USA. Water Resources Research, 2018, 54, 9566-9584.	4.2	22
27	Regional soil erosion assessment based on a sample survey and geostatistics. Hydrology and Earth System Sciences, 2018, 22, 1695-1712.	4.9	33
28	Small Area Estimation of Proportions with Constraint for National Resources Inventory Survey. Journal of Agricultural, Biological, and Environmental Statistics, 2018, 23, 509-528.	1.4	8
29	Mapping annual urban dynamics (1985â€“2015) using time series of Landsat data. Remote Sensing of Environment, 2018, 216, 674-683.	11.0	101
30	Developing a 1â€“km resolution daily air temperature dataset for urban and surrounding areas in the conterminous United States. Remote Sensing of Environment, 2018, 215, 74-84.	11.0	62
31	Optimal Stratification and Allocation for the June Agricultural Survey. Journal of Official Statistics, 2018, 34, 121-148.	0.4	5
32	Adaptive data center activation with user request prediction. Computer Networks, 2017, 122, 191-204.	5.1	14
33	Estimating a Variance Function of a Nonstationary Process. Advances in Geographic Information Science, 2017, , 281-293.	0.6	0
34	REC: fast sparse regression-based multicategory classification. Statistics and Its Interface, 2017, 10, 175-185.	0.3	1
35	Intra-Storm Temporal Patterns of Rainfall in China Using Huff Curves. Transactions of the ASABE, 2016, 59, 1619-1632.	1.1	15
36	Requests Prediction in Cloud with a Cyclic Window Learning Algorithm. , 2016, ,		7

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37	Modeling nonstationary covariance function with convolution on sphere. Computational Statistics and Data Analysis, 2016, 104, 233-246.	1.2	8
38	Efficient Estimation and Prediction for the Bayesian Binary Spatial Model with Flexible Link Functions. Biometrics, 2016, 72, 289-298.	1.4	11
39	Priors on Hypergraphical Models via Simplicial Complexes. , 2015, , 431-454.		0
40	Spatio-temporal functional data analysis for wireless sensor networks data. Environmetrics, 2015, 26, 354-362.	1.4	11
41	Empirical likelihood for irregularly located spatial data. Statistica Sinica, 2015, , .	0.3	0
42	Multiresolution anomaly detection method for fractional Gaussian noise. Journal of Applied Statistics, 2014, 41, 769-784.	1.3	3
43	Modelling multiple fishing gear efficiencies and abundance for aggregated populations using fishery or survey data. ICES Journal of Marine Science, 2014, 71, 2436-2447.	2.5	15
44	Variance estimation and kriging prediction for a class of non-stationary spatial models. Statistica Sinica, 2014, , .	0.3	0
45	Parametric fractional imputation for mixed models with nonignorable missing data. Statistics and Its Interface, 2013, 6, 339-347.	0.3	8
46	Spatial multiresolution cluster detection method. Statistics and Its Interface, 2013, 6, 65-77.	0.3	0
47	Optimal predictive design augmentation for spatial generalised linear mixed models. Journal of Statistical Planning and Inference, 2012, 142, 3242-3253.	0.6	11
48	Associations between ozone and morbidity using the Spatial Synoptic Classification system. Environmental Health, 2011, 10, 49.	4.0	37
49	Estimation and prediction for spatial generalized linear mixed models using high order Laplace approximation. Journal of Statistical Planning and Inference, 2011, 141, 3564-3577.	0.6	24
50	Long-range dependence analysis of Internet traffic. Journal of Applied Statistics, 2011, 38, 1407-1433.	1.3	33
51	Estimation and Prediction of a Class of Convolution-Based Spatial Nonstationary Models for Large Spatial Data. Journal of Computational and Graphical Statistics, 2010, 19, 74-95.	1.7	21
52	Nonparametric spectral density estimation with missing observations. , 2009, , .		5
53	Estimating spatial covariance using penalised likelihood with weighted $L_1$ penalty. Journal of Nonparametric Statistics, 2009, 21, 925-942.	0.9	18
54	Ozone, PM10, and Synoptic Circulation Patterns Associated with Asthma/Myocardial Infarction Hospital Admissions. Epidemiology, 2009, 20, S226.	2.7	2

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55	Efficient mean estimation in log-normal linear models. Journal of Statistical Planning and Inference, 2008, 138, 552-567.	0.6	36
56	Multi-Resolution Anomaly Detection for the internet. , 2008, , .		2
57	Semiparametric Estimation of Spectral Density With Irregular Observations. Journal of the American Statistical Association, 2007, 102, 726-735.	3.1	26
58	Singular Value Decomposition and Its Visualization. Journal of Computational and Graphical Statistics, 2007, 16, 833-854.	1.7	28
59	Accounting for spatial correlation in the scan statistic. Annals of Applied Statistics, 2007, 1, .	1.1	39
60	Robust estimation of the self-similarity parameter in network traffic using wavelet transform. Signal Processing, 2007, 87, 2111-2124.	3.7	22
61	Spatial sampling design for prediction with estimated parameters. Journal of Agricultural, Biological, and Environmental Statistics, 2006, 11, 24-44.	1.4	158
62	Impact of the Sampling Rate on the Estimation of the Parameters of Fractional Brownian Motion. Journal of Time Series Analysis, 2006, 27, 367-380.	1.2	5
63	Spatial sampling design under the infill asymptotic framework. Environmetrics, 2006, 17, 323-337.	1.4	37
64	Spatial scan statistics. , 2006, , .		61
65	Spatial sampling design for parameter estimation of the covariance function. Journal of Statistical Planning and Inference, 2005, 134, 583-603.	0.6	74