Faming Liang

List of Publications by Year
in descending order

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Version: 2024-02-01

97 papers	2,652 citations	236925 25 h-index	206112 48 g-index
108 all docs	108 docs citations	108 times ranked	2415 citing authors

#	Article	IF	Citations
1	Identification of factors impacting on the transmission and mortality of COVID-19. Journal of Applied Statistics, 2023, 50, 2624-2647.	1.3	1
2	Markov Neighborhood Regression for High-Dimensional Inference. Journal of the American Statistical Association, 2022, 117, 1200-1214.	3.1	3
3	Consistent Sparse Deep Learning: Theory and Computation. Journal of the American Statistical Association, 2022, 117, 1981-1995.	3.1	6
4	Stochastic gradient Langevin dynamics with adaptive drifts. Journal of Statistical Computation and Simulation, 2022, 92, 318-336.	1.2	4
5	Learning sparse deep neural networks with a spike-and-slab prior. Statistics and Probability Letters, 2022, 180, 109246.	0.7	2
6	An adaptively weighted stochastic gradient MCMC algorithm for Monte Carlo simulation and global optimization. Statistics and Computing, 2022, 32, .	1.5	3
7	Nonlinear Variable Selection via Deep Neural Networks. Journal of Computational and Graphical Statistics, 2021, 30, 484-492.	1.7	12
8	Fast hybrid Bayesian integrative learning of multiple gene regulatory networks for type 1 diabetes. Biostatistics, 2021, 22, 233-249.	1.5	2
9	Joint Bayesian-Incorporating Estimation of Multiple Gaussian Graphical Models to Study Brain Connectivity Development in Adolescence. IEEE Transactions on Medical Imaging, 2020, 39, 357-365.	8.9	4
10	Extended stochastic gradient Markov chain Monte Carlo for large-scale Bayesian variable selection. Biometrika, 2020, 107, 997-1004.	2.4	12
11	Joint estimation of multiple mixed graphical models for panâ€cancer network analysis. Stat, 2020, 9, e271.	0.4	3
12	A Contour Stochastic Gradient Langevin Dynamics Algorithm for Simulations of Multi-modal Distributions. Advances in Neural Information Processing Systems, 2020, 34, 15725-15736.	2.8	0
13	A Bayesian hidden Potts mixture model for analyzing lung cancer pathology images. Biostatistics, 2019, 20, 565-581.	1.5	17
14	Aberrant Brain Connectivity in Schizophrenia Detected via a Fast Gaussian Graphical Model. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1479-1489.	6.3	10
15	Double-Parallel Monte Carlo for Bayesian analysis of big data. Statistics and Computing, 2019, 29, 23-32.	1.5	14
16	Stochastic clustering and pattern matching for real-time geosteering. Geophysics, 2019, 84, ID13-ID24.	2.6	3
17	Learning Moral Graphs in Construction of High-Dimensional Bayesian Networks for Mixed Data. Neural Computation, 2019, 31, 1183-1214.	2.2	6
18	Drug sensitivity prediction with high-dimensional mixture regression. PLoS ONE, 2019, 14, e0212108.	2.5	20

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19	Accelerate training of restricted Boltzmann machines via iterative conditional maximum likelihood estimation. Statistics and Its Interface, 2019, 12, 377-385.	0.3	1
20	Accelerate training of restricted Boltzmann machines via iterative conditional maximum likelihood estimation. Statistics and Its Interface, 2019, 12, 377-385.	0.3	1
21	An Adaptive Empirical Bayesian Method for Sparse Deep Learning. Advances in Neural Information Processing Systems, 2019, 2019, 5563-5573.	2.8	4
22	Bayesian Neural Networks for Selection of Drug Sensitive Genes. Journal of the American Statistical Association, 2018, 113, 955-972.	3.1	41
23	A Blockwise Consistency Method for Parameter Estimation of Complex Models. Sankhya B, 2018, 80, 179-223.	0.9	1
24	An Imputationâ€“Regularized Optimization Algorithm for High Dimensional Missing Data Problems and Beyond. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2018, 80, 899-926.	2.2	15
25	A Robust Model-Free Feature Screening Method for Ultrahigh-Dimensional Data. Journal of Computational and Graphical Statistics, 2017, 26, 803-813.	1.7	15
26	A Joint Bayesian Model for Integrating Microarray and RNA Sequencing Transcriptomic Data. Journal of Computational Biology, 2017, 24, 647-662.	1.6	23
27	Learning Gene Regulatory Networks from Next Generation Sequencing Data. Biometrics, 2017, 73, 1221-1230.	1.4	23
28	Lung Cancer Pathological Image Analysis Using a Hidden Potts Model. Cancer Informatics, 2017, 16, 117693511771191.	1.9	10
29	Comprehensive Computational Pathological Image Analysis Predicts Lung Cancer Prognosis. Journal of Thoracic Oncology, 2017, 12, 501-509.	1.1	138
30	An Adaptive Exchange Algorithm for Sampling From Distributions With Intractable Normalizing Constants. Journal of the American Statistical Association, 2016, 111, 377-393.	3.1	33
31	A split-and-merge approach for singular value decomposition of large-scale matrices. Statistics and Its Interface, 2016, 9, 453-459.	0.3	7
32	A Split-and-Merge Bayesian Variable Selection Approach for Ultrahigh Dimensional Regression. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2015, 77, 947-972.	2.2	38
33	An Equivalent Measure of Partial Correlation Coefficients for High-Dimensional Gaussian Graphical Models. Journal of the American Statistical Association, 2015, 110, 1248-1265.	3.1	35
34	High-Dimensional Variable Selection With Reciprocal L₁-Regularization. Journal of the American Statistical Association, 2015, 110, 1607-1620.	3.1	25
35	A fast multilocus test with adaptive SNP selection for large-scale genetic-association studies. European Journal of Human Genetics, 2014, 22, 696-702.	2.8	19
36	Bayesian Peak Picking for NMR Spectra. Genomics, Proteomics and Bioinformatics, 2014, 12, 39-47.	6.9	23

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37	Stochastic approximation Monte Carlo importance sampling for approximating exact conditional probabilities. Statistics and Computing, 2014, 24, 505-520.	1.5	3
38	Bayesian site selection for fast Gaussian process regression. IIE Transactions, 2014, 46, 543-555.	2.1	5
39	An Overview of Stochastic Approximation Monte Carlo. Wiley Interdisciplinary Reviews: Computational Statistics, 2014, 6, 240-254.	3.9	3
40	Simulated Stochastic Approximation Annealing for Global Optimization With a Square-Root Cooling Schedule. Journal of the American Statistical Association, 2014, 109, 847-863.	3.1	22
41	Weak Convergence Rates of Population Versus Single-Chain Stochastic Approximation MCMC Algorithms. Advances in Applied Probability, 2014, 46, 1059-1083.	0.7	6
42	Weak Convergence Rates of Population Versus Single-Chain Stochastic Approximation MCMC Algorithms. Advances in Applied Probability, 2014, 46, 1059-1083.	0.7	8
43	A Resampling-Based Stochastic Approximation Method for Analysis of Large Geostatistical Data. Journal of the American Statistical Association, 2013, 108, 325-339.	3.1	41
44	Sea Surface Temperature Modeling using Radial Basis Function Networks With a Dynamically Weighted Particle Filter. Journal of the American Statistical Association, 2013, 108, 111-123.	3.1	8
45	Statistical Properties of Horizontally Oriented Plates in Optically Thick Clouds From Satellite Observations. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 986-990.	3.1	14
46	Bayesian Subset Modeling for High-Dimensional Generalized Linear Models. Journal of the American Statistical Association, 2013, 108, 589-606.	3.1	49
47	Fitting Social Network Models Using Varying Truncation Stochastic Approximation MCMC Algorithm. Journal of Computational and Graphical Statistics, 2013, 22, 927-952.	1.7	7
48	A Monte Carlo Metropolis-Hastings Algorithm for Sampling from Distributions with Intractable Normalizing Constants. Neural Computation, 2013, 25, 2199-2234.	2.2	14
49	Bayesian Detection of Causal Rare Variants under Posterior Consistency. PLoS ONE, 2013, 8, e69633.	2.5	11
50	Bayesian analysis for exponential random graph models using the adaptive exchange sampler. Statistics and Its Interface, 2013, 6, 559-576.	0.3	10
51	A Flexible Bayesian Model for Studying Geneâ€“Environment Interaction. PLoS Genetics, 2012, 8, e1002482.	3.5	20
52	Bayesian Analysis of Geostatistical Models With an Auxiliary Lattice. Journal of Computational and Graphical Statistics, 2012, 21, 453-475.	1.7	5
53	Intrinsic Regression Models for Medial Representation of Subcortical Structures. Journal of the American Statistical Association, 2012, 107, 12-23.	3.1	5
54	Explicitly integrating parameter, input, and structure uncertainties into Bayesian Neural Networks for probabilistic hydrologic forecasting. Journal of Hydrology, 2011, 409, 696-709.	5.4	50

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55	Annealing evolutionary stochastic approximation Monte Carlo forÂglobal optimization. Statistics and Computing, 2011, 21, 375-393.	1.5	14
56	Folding small proteins via annealing stochastic approximation Monte Carlo. BioSystems, 2011, 105, 243-249.	2.0	7
57	Stochastic Generalized Method of Moments. Journal of Computational and Graphical Statistics, 2011, 20, 714-727.	1.7	9
58	Efficient p-value evaluation for resampling-based tests. Biostatistics, 2011, 12, 582-593.	1.5	16
59	Longitudinal functional principal component modelling via Stochastic Approximation Monte Carlo. Canadian Journal of Statistics, 2010, 38, 256-270.	0.9	3
60	Bayesian Modeling of ChIPâ€chip Data Through a Highâ€Order Ising Model. Biometrics, 2010, 66, 1284-1294.	1.4	7
61	Robust Clustering Using Exponential Power Mixtures. Biometrics, 2010, 66, 1078-1086.	1.4	22
62	A double Metropolisâ€“Hastings sampler for spatial models with intractable normalizing constants. Journal of Statistical Computation and Simulation, 2010, 80, 1007-1022.	1.2	96
63	Modeling the Relationship Between EDI Implementation and Firm Performance Improvement With Neural Networks. IEEE Transactions on Automation Science and Engineering, 2010, 7, 96-110.	5.2	1
64	Crash Injury Severity Analysis Using Bayesian Ordered Probit Models. Journal of Transportation Engineering, 2009, 135, 18-25.	0.9	144
65	On the use of stochastic approximation Monte Carlo for Monte Carlo integration. Statistics and Probability Letters, 2009, 79, 581-587.	0.7	29
66	Bayesian phylogeny analysis via stochastic approximation Monte Carlo. Molecular Phylogenetics and Evolution, 2009, 53, 394-403.	2.7	25
67	Learning Bayesian networks for discrete data. Computational Statistics and Data Analysis, 2009, 53, 865-876.	1.2	21
68	Estimating uncertainty of streamflow simulation using Bayesian neural networks. Water Resources Research, 2009, 45, .	4.2	66
69	Bayesian Analysis of High Dimensional Classification. , 2009, , .		0
70	Adaptive evolutionary Monte Carlo algorithm for optimization withÂapplications to sensor placement problems. Statistics and Computing, 2008, 18, 375-390.	1.5	15
71	Phylogenetic tree construction using sequential stochastic approximation Monte Carlo. BioSystems, 2008, 91, 94-107.	2.0	11
72	Convergence of stochastic approximation algorithms under irregular conditions. Statistica Neerlandica, 2008, 62, 393-403.	1.6	6

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73	Inflammatory Gene Haplotype-Interaction Networks Involved in Coronary Collateral Formation. Human Heredity, 2008, 66, 252-264.	0.8	14
74	Continuous Contour Monte Carlo for Marginal Density Estimation With an Application to a Spatial Statistical Model. Journal of Computational and Graphical Statistics, 2007, 16, 608-632.	1.7	30
75	Stochastic Approximation in Monte Carlo Computation. Journal of the American Statistical Association, 2007, 102, 305-320.	3.1	247
76	Use of SVD-based probit transformation in clustering gene expression profiles. Computational Statistics and Data Analysis, 2007, 51, 6355-6366.	1.2	16
77	Annealing stochastic approximation Monte Carlo algorithm forÂneural network training. Machine Learning, 2007, 68, 201-233.	5.4	33
78	Dynamic agglomerative clustering of gene expression profiles. Pattern Recognition Letters, 2007, 28, 1062-1076.	4.2	10
79	A Theory on Flat Histogram Monte Carlo Algorithms. Journal of Statistical Physics, 2006, 122, 511-529.	1.2	35
80	Efficient MCMC estimation of discrete distributions. Computational Statistics and Data Analysis, 2005, 49, 1039-1052.	1.2	5
81	Bayesian neural networks for nonlinear time series forecasting. Statistics and Computing, 2005, 15, 13-29.	1.5	90
82	Evidence Evaluation for Bayesian Neural Networks Using Contour Monte Carlo. Neural Computation, 2005, 17, 1385-1410.	2.2	8
83	A Generalized Wangâ€“Landau Algorithm for Monte Carlo Computation. Journal of the American Statistical Association, 2005, 100, 1311-1327.	3.1	64
84	Annealing contour Monte Carlo algorithm for structure optimization in an off-lattice protein model. Journal of Chemical Physics, 2004, 120, 6756-6763.	3.0	49
85	Generalized1âˆ•k-ensemble algorithm. Physical Review E, 2004, 69, 066701.	2.1	4
86	Search for Haplotype Interactions That Influence Susceptibility to Type 1 Diabetes, through Use of Unphased Genotype Data. American Journal of Human Genetics, 2003, 73, 1385-1401.	6.2	10
87	An Effective Bayesian Neural Network Classifier with a Comparison Study to Support Vector Machine. Neural Computation, 2003, 15, 1959-1989.	2.2	23
88	Use of sequential structure in simulation from high-dimensional systems. Physical Review E, 2003, 67, 056101.	2.1	8
89	Dynamically Weighted Importance Sampling in Monte Carlo Computation. Journal of the American Statistical Association, 2002, 97, 807-821.	3.1	36
90	Some connections between Bayesian and non-Bayesian methods for regression model selection. Statistics and Probability Letters, 2002, 57, 53-63.	0.7	5

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91	Evolutionary Monte Carlo for protein folding simulations. Journal of Chemical Physics, 2001, 115, 3374-3380.	3.0	158
92	Real-Parameter Evolutionary Monte Carlo With Applications to Bayesian Mixture Models. Journal of the American Statistical Association, 2001, 96, 653-666.	3.1	172
93	A Theory for Dynamic Weighting in Monte Carlo Computation. Journal of the American Statistical Association, 2001, 96, 561-573.	3.1	26
94	The Multiple-Try Method and Local Optimization in Metropolis Sampling. Journal of the American Statistical Association, 2000, 95, 121-134.	3.1	245
95	Dynamic weighting in simulations of spin systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 252, 257-262.	2.1	9
96	A kernelâ€expanded stochastic neural network. Journal of the Royal Statistical Society Series B: Statistical Methodology, 0, , .	2.2	0
97	Markov neighborhood regression for statistical inference of highâ€dimensional generalized linear models. Statistics in Medicine, 0, , .	1.6	1