

# Faming Liang

## List of Publications by Year in descending order

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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	Stochastic Approximation in Monte Carlo Computation. Journal of the American Statistical Association, 2007, 102, 305-320.	3.1	247
2	The Multiple-Try Method and Local Optimization in Metropolis Sampling. Journal of the American Statistical Association, 2000, 95, 121-134.	3.1	245
3	Real-Parameter Evolutionary Monte Carlo With Applications to Bayesian Mixture Models. Journal of the American Statistical Association, 2001, 96, 653-666.	3.1	172
4	Evolutionary Monte Carlo for protein folding simulations. Journal of Chemical Physics, 2001, 115, 3374-3380.	3.0	158
5	Crash Injury Severity Analysis Using Bayesian Ordered Probit Models. Journal of Transportation Engineering, 2009, 135, 18-25.	0.9	144
6	Comprehensive Computational Pathological Image Analysis Predicts Lung Cancer Prognosis. Journal of Thoracic Oncology, 2017, 12, 501-509.	1.1	138
7	A double Metropolis-Hastings sampler for spatial models with intractable normalizing constants. Journal of Statistical Computation and Simulation, 2010, 80, 1007-1022.	1.2	96
8	Bayesian neural networks for nonlinear time series forecasting. Statistics and Computing, 2005, 15, 13-29.	1.5	90
9	Estimating uncertainty of streamflow simulation using Bayesian neural networks. Water Resources Research, 2009, 45, .	4.2	66
10	A Generalized Wang-Landau Algorithm for Monte Carlo Computation. Journal of the American Statistical Association, 2005, 100, 1311-1327.	3.1	64
11	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
12	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
13	Bayesian Subset Modeling for High-Dimensional Generalized Linear Models. Journal of the American Statistical Association, 2013, 108, 589-606.	3.1	49
14	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
15	Bayesian Neural Networks for Selection of Drug Sensitive Genes. Journal of the American Statistical Association, 2018, 113, 955-972.	3.1	41
16	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
17	Dynamically Weighted Importance Sampling in Monte Carlo Computation. Journal of the American Statistical Association, 2002, 97, 807-821.	3.1	36
18	A Theory on Flat Histogram Monte Carlo Algorithms. Journal of Statistical Physics, 2006, 122, 511-529.	1.2	35

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19	An Equivalent Measure of Partial Correlation Coefficients for High-Dimensional Gaussian Graphical Models. <i>Journal of the American Statistical Association</i> , 2015, 110, 1248-1265.	3.1	35
20	Annealing stochastic approximation Monte Carlo algorithm for neural network training. <i>Machine Learning</i> , 2007, 68, 201-233.	5.4	33
21	An Adaptive Exchange Algorithm for Sampling From Distributions With Intractable Normalizing Constants. <i>Journal of the American Statistical Association</i> , 2016, 111, 377-393.	3.1	33
22	Continuous Contour Monte Carlo for Marginal Density Estimation With an Application to a Spatial Statistical Model. <i>Journal of Computational and Graphical Statistics</i> , 2007, 16, 608-632.	1.7	30
23	On the use of stochastic approximation Monte Carlo for Monte Carlo integration. <i>Statistics and Probability Letters</i> , 2009, 79, 581-587.	0.7	29
24	A Theory for Dynamic Weighting in Monte Carlo Computation. <i>Journal of the American Statistical Association</i> , 2001, 96, 561-573.	3.1	26
25	Bayesian phylogeny analysis via stochastic approximation Monte Carlo. <i>Molecular Phylogenetics and Evolution</i> , 2009, 53, 394-403.	2.7	25
26	High-Dimensional Variable Selection With Reciprocal $L_1$ -Regularization. <i>Journal of the American Statistical Association</i> , 2015, 110, 1607-1620.	3.1	25
27	An Effective Bayesian Neural Network Classifier with a Comparison Study to Support Vector Machine. <i>Neural Computation</i> , 2003, 15, 1959-1989.	2.2	23
28	Bayesian Peak Picking for NMR Spectra. <i>Genomics, Proteomics and Bioinformatics</i> , 2014, 12, 39-47.	6.9	23
29	A Joint Bayesian Model for Integrating Microarray and RNA Sequencing Transcriptomic Data. <i>Journal of Computational Biology</i> , 2017, 24, 647-662.	1.6	23
30	Learning Gene Regulatory Networks from Next Generation Sequencing Data. <i>Biometrics</i> , 2017, 73, 1221-1230.	1.4	23
31	Robust Clustering Using Exponential Power Mixtures. <i>Biometrics</i> , 2010, 66, 1078-1086.	1.4	22
32	Simulated Stochastic Approximation Annealing for Global Optimization With a Square-Root Cooling Schedule. <i>Journal of the American Statistical Association</i> , 2014, 109, 847-863.	3.1	22
33	Learning Bayesian networks for discrete data. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 865-876.	1.2	21
34	A Flexible Bayesian Model for Studying Gene-Environment Interaction. <i>PLoS Genetics</i> , 2012, 8, e1002482.	3.5	20
35	Drug sensitivity prediction with high-dimensional mixture regression. <i>PLoS ONE</i> , 2019, 14, e0212108.	2.5	20
36	A fast multilocus test with adaptive SNP selection for large-scale genetic-association studies. <i>European Journal of Human Genetics</i> , 2014, 22, 696-702.	2.8	19

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37	A Bayesian hidden Potts mixture model for analyzing lung cancer pathology images. <i>Biostatistics</i> , 2019, 20, 565-581.	1.5	17
38	Use of SVD-based probit transformation in clustering gene expression profiles. <i>Computational Statistics and Data Analysis</i> , 2007, 51, 6355-6366.	1.2	16
39	Efficient p-value evaluation for resampling-based tests. <i>Biostatistics</i> , 2011, 12, 582-593.	1.5	16
40	Adaptive evolutionary Monte Carlo algorithm for optimization with applications to sensor placement problems. <i>Statistics and Computing</i> , 2008, 18, 375-390.	1.5	15
41	A Robust Model-Free Feature Screening Method for Ultrahigh-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2017, 26, 803-813.	1.7	15
42	An Imputation-regularized Optimization Algorithm for High Dimensional Missing Data Problems and Beyond. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2018, 80, 899-926.	2.2	15
43	Inflammatory Gene Haplotype-Interaction Networks Involved in Coronary Collateral Formation. <i>Human Heredity</i> , 2008, 66, 252-264.	0.8	14
44	Annealing evolutionary stochastic approximation Monte Carlo for global optimization. <i>Statistics and Computing</i> , 2011, 21, 375-393.	1.5	14
45	Statistical Properties of Horizontally Oriented Plates in Optically Thick Clouds From Satellite Observations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 986-990.	3.1	14
46	A Monte Carlo Metropolis-Hastings Algorithm for Sampling from Distributions with Intractable Normalizing Constants. <i>Neural Computation</i> , 2013, 25, 2199-2234.	2.2	14
47	Double-Parallel Monte Carlo for Bayesian analysis of big data. <i>Statistics and Computing</i> , 2019, 29, 23-32.	1.5	14
48	Extended stochastic gradient Markov chain Monte Carlo for large-scale Bayesian variable selection. <i>Biometrika</i> , 2020, 107, 997-1004.	2.4	12
49	Nonlinear Variable Selection via Deep Neural Networks. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 484-492.	1.7	12
50	Phylogenetic tree construction using sequential stochastic approximation Monte Carlo. <i>BioSystems</i> , 2008, 91, 94-107.	2.0	11
51	Bayesian Detection of Causal Rare Variants under Posterior Consistency. <i>PLoS ONE</i> , 2013, 8, e69633.	2.5	11
52	Search for Haplotype Interactions That Influence Susceptibility to Type 1 Diabetes, through Use of Unphased Genotype Data. <i>American Journal of Human Genetics</i> , 2003, 73, 1385-1401.	6.2	10
53	Dynamic agglomerative clustering of gene expression profiles. <i>Pattern Recognition Letters</i> , 2007, 28, 1062-1076.	4.2	10
54	Lung Cancer Pathological Image Analysis Using a Hidden Potts Model. <i>Cancer Informatics</i> , 2017, 16, 117693511771191.	1.9	10

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55	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
56	Bayesian analysis for exponential random graph models using the adaptive exchange sampler. Statistics and Its Interface, 2013, 6, 559-576.	0.3	10
57	Dynamic weighting in simulations of spin systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 252, 257-262.	2.1	9
58	Stochastic Generalized Method of Moments. Journal of Computational and Graphical Statistics, 2011, 20, 714-727.	1.7	9
59	Use of sequential structure in simulation from high-dimensional systems. Physical Review E, 2003, 67, 056101.	2.1	8
60	Evidence Evaluation for Bayesian Neural Networks Using Contour Monte Carlo. Neural Computation, 2005, 17, 1385-1410.	2.2	8
61	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
62	Weak Convergence Rates of Population Versus Single-Chain Stochastic Approximation MCMC Algorithms. Advances in Applied Probability, 2014, 46, 1059-1083.	0.7	8
63	Bayesian Modeling of ChIP-chip Data Through a High-Order Ising Model. Biometrics, 2010, 66, 1284-1294.	1.4	7
64	Folding small proteins via annealing stochastic approximation Monte Carlo. BioSystems, 2011, 105, 243-249.	2.0	7
65	Fitting Social Network Models Using Varying Truncation Stochastic Approximation MCMC Algorithm. Journal of Computational and Graphical Statistics, 2013, 22, 927-952.	1.7	7
66	A split-and-merge approach for singular value decomposition of large-scale matrices. Statistics and Its Interface, 2016, 9, 453-459.	0.3	7
67	Convergence of stochastic approximation algorithms under irregular conditions. Statistica Neerlandica, 2008, 62, 393-403.	1.6	6
68	Weak Convergence Rates of Population Versus Single-Chain Stochastic Approximation MCMC Algorithms. Advances in Applied Probability, 2014, 46, 1059-1083.	0.7	6
69	Learning Moral Graphs in Construction of High-Dimensional Bayesian Networks for Mixed Data. Neural Computation, 2019, 31, 1183-1214.	2.2	6
70	Consistent Sparse Deep Learning: Theory and Computation. Journal of the American Statistical Association, 2022, 117, 1981-1995.	3.1	6
71	Some connections between Bayesian and non-Bayesian methods for regression model selection. Statistics and Probability Letters, 2002, 57, 53-63.	0.7	5
72	Efficient MCMC estimation of discrete distributions. Computational Statistics and Data Analysis, 2005, 49, 1039-1052.	1.2	5

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73	Bayesian Analysis of Geostatistical Models With an Auxiliary Lattice. <i>Journal of Computational and Graphical Statistics</i> , 2012, 21, 453-475.	1.7	5
74	Intrinsic Regression Models for Medial Representation of Subcortical Structures. <i>Journal of the American Statistical Association</i> , 2012, 107, 12-23.	3.1	5
75	Bayesian site selection for fast Gaussian process regression. <i>IIE Transactions</i> , 2014, 46, 543-555.	2.1	5
76	Generalized $\hat{k}$ -ensemble algorithm. <i>Physical Review E</i> , 2004, 69, 066701.	2.1	4
77	Joint Bayesian-Incorporating Estimation of Multiple Gaussian Graphical Models to Study Brain Connectivity Development in Adolescence. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 357-365.	8.9	4
78	Stochastic gradient Langevin dynamics with adaptive drifts. <i>Journal of Statistical Computation and Simulation</i> , 2022, 92, 318-336.	1.2	4
79	An Adaptive Empirical Bayesian Method for Sparse Deep Learning. <i>Advances in Neural Information Processing Systems</i> , 2019, 2019, 5563-5573.	2.8	4
80	Longitudinal functional principal component modelling via Stochastic Approximation Monte Carlo. <i>Canadian Journal of Statistics</i> , 2010, 38, 256-270.	0.9	3
81	Stochastic approximation Monte Carlo importance sampling for approximating exact conditional probabilities. <i>Statistics and Computing</i> , 2014, 24, 505-520.	1.5	3
82	An Overview of Stochastic Approximation Monte Carlo. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2014, 6, 240-254.	3.9	3
83	Stochastic clustering and pattern matching for real-time geosteering. <i>Geophysics</i> , 2019, 84, ID13-ID24.	2.6	3
84	Joint estimation of multiple mixed graphical models for pan-cancer network analysis. <i>Stat</i> , 2020, 9, e271.	0.4	3
85	Markov Neighborhood Regression for High-Dimensional Inference. <i>Journal of the American Statistical Association</i> , 2022, 117, 1200-1214.	3.1	3
86	An adaptively weighted stochastic gradient MCMC algorithm for Monte Carlo simulation and global optimization. <i>Statistics and Computing</i> , 2022, 32, .	1.5	3
87	Fast hybrid Bayesian integrative learning of multiple gene regulatory networks for type 1 diabetes. <i>Biostatistics</i> , 2021, 22, 233-249.	1.5	2
88	Learning sparse deep neural networks with a spike-and-slab prior. <i>Statistics and Probability Letters</i> , 2022, 180, 109246.	0.7	2
89	Modeling the Relationship Between EDI Implementation and Firm Performance Improvement With Neural Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2010, 7, 96-110.	5.2	1
90	A Blockwise Consistency Method for Parameter Estimation of Complex Models. <i>Sankhya B</i> , 2018, 80, 179-223.	0.9	1

#	ARTICLE	IF	CITATIONS
91	Identification of factors impacting on the transmission and mortality of COVID-19. Journal of Applied Statistics, 2023, 50, 2624-2647.	1.3	1
92	Accelerate training of restricted Boltzmann machines via iterative conditional maximum likelihood estimation. Statistics and Its Interface, 2019, 12, 377-385.	0.3	1
93	Accelerate training of restricted Boltzmann machines via iterative conditional maximum likelihood estimation. Statistics and Its Interface, 2019, 12, 377-385.	0.3	1
94	Markov neighborhood regression for statistical inference of high-dimensional generalized linear models. Statistics in Medicine, 0, , .	1.6	1
95	Bayesian Analysis of High Dimensional Classification. , 2009, , .		0
96	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
97	A kernel-expanded stochastic neural network. Journal of the Royal Statistical Society Series B: Statistical Methodology, 0, , .	2.2	0