Anand D Sarwate

List of Publications by Citations

83 papers	**1,208** citations
18 h-index	**32** g-index
98 ext. papers	**1,519** ext. citations
4.5 avg, IF	**4.92** L-index

#	Paper	IF	Citations
83	Differentially Private Empirical Risk Minimization. *Journal of Machine Learning Research*, **2011**, 12, 1069-1109	1.8	161
82	Stochastic gradient descent with differentially private updates **2013**,		129
81	Geographic Gossip: Efficient Averaging for Sensor Networks. *IEEE Transactions on Signal Processing*, **2008**, 56, 1205-1216	4.8	118
80	Signal Processing and Machine Learning with Differential Privacy: Algorithms and challenges for continuous data. *IEEE Signal Processing Magazine*, **2013**, 30, 86-94	9.4	87
79	Exact emulation of a priority queue with a switch and delay lines. *Queueing Systems*, **2006**, 53, 115-125	1.7	45
78	COINSTAC: A Privacy Enabled Model and Prototype for Leveraging and Processing Decentralized Brain Imaging Data. *Frontiers in Neuroscience*, **2016**, 10, 365	5.1	43
77	Sharing privacy-sensitive access to neuroimaging and genetics data: a review and preliminary validation. *Frontiers in Neuroinformatics*, **2014**, 8, 35	3.9	40
76	The Impact of Mobility on Gossip Algorithms. *IEEE Transactions on Information Theory*, **2012**, 58, 1731-1742	2.8	31
75	. *IEEE Transactions on Information Theory*, **2018**, 64, 6161-6179	2.8	31
74	Privacy technology to support data sharing for comparative effectiveness research: a systematic review. *Medical Care*, **2013**, 51, S58-65	3.1	26
73	Randomized requantization with local differential privacy **2016**,		24
72	A rate-disortion perspective on local differential privacy **2014**,		24
71	A Unified Optimization Approach for Sparse Tensor Operations on GPUs **2017**,		23
70	**2015**,		22
69	Zero-Rate Feedback Can Achieve the Empirical Capacity. *IEEE Transactions on Information Theory*, **2010**, 56, 25-39	2.8	21
68	Upper Bounds on the Capacity of Binary Channels With Causal Adversaries. *IEEE Transactions on Information Theory*, **2013**, 59, 3753-3763	2.8	19
67	Protecting count queries in study design. *Journal of the American Medical Informatics Association: JAMIA*, **2012**, 19, 750-7	8.6	18

66   Broadcast gossip algorithms: Design and analysis for consensus **2008**,   18

65   Robust Privacy-Utility Tradeoffs Under Differential Privacy and Hamming Distortion. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 2816-2830   8   17

64   COINSTAC: Decentralizing the future of brain imaging analysis. *F1000Research*, **2017**, 6, 1512   3.6   15

63   Differentially Private Distributed Principal Component Analysis **2018**,   15

62   Reaching consensus in wireless networks with probabilistic broadcast **2009**,   13

61   Coding against delayed adversaries **2010**,   12

60   Coding against myopic adversaries **2010**,   12

59   Rateless Codes for AVC Models. *IEEE Transactions on Information Theory*, **2010**, 56, 3105-3114   2.8   12

58   . *IEEE Transactions on Information Theory*, **2018**, 64, 2706-2726   2.8   11

57   Distributed Differentially-Private Algorithms for Matrix and Tensor Factorization. *IEEE Journal on Selected Topics in Signal Processing*, **2018**, 12, 1449-1464   7.5   11

56   List-Decoding for the Arbitrarily Varying Channel Under State Constraints. *IEEE Transactions on Information Theory*, **2012**, 58, 1372-1384   2.8   10

55   An AVC perspective on correlated jamming **2012**,   10

54   STARK: Structured dictionary learning through rank-one tensor recovery **2017**,   9

53   Improved upper bounds on the capacity of binary channels with causal adversaries **2012**,   9

52   Decentralized independent vector analysis **2017**,   8

51   Symmetric matrix perturbation for differentially-private principal component analysis **2016**,   8

50   Decentralized temporal independent component analysis: Leveraging fMRI data in collaborative settings. *NeuroImage*, **2019**, 186, 557-569   7.9   8

49   Minimax lower bounds for Kronecker-structured dictionary learning **2016**,   7

48	Arbitrarily dirty paper coding and applications **2008**,		7
47	Channels with nosy "noise" **2007**,		7
46	Optimal differential privacy mechanisms under Hamming distortion for structured source classes **2016**,		7
45	. *IEEE Transactions on Automatic Control*, **2017**, 62, 4483-4498	5.9	6
44	. *IEEE Transactions on Automatic Control*, **2015**, 60, 34-45	5.9	6
43	. *IEEE Journal on Selected Topics in Signal Processing*, **2018**, 12, 1047-1062	7.5	6
42	Analysis of a privacy-preserving PCA algorithm using random matrix theory **2016**,		5
41	Using Noisy Binary Search for Differentially Private Anomaly Detection. *Lecture Notes in Computer Science*, **2018**, 20-37	0.9	5
40	Some observations on limited feedback for multiaccess channels **2009**,		5
39	Privacy-preserving source separation for distributed data using independent component analysis **2016**,		5
38	Quadratically Constrained Myopic Adversarial Channels **2018**,		5
37	Defending Against Packet-Size Side-Channel Attacks in Iot Networks **2018**,		5
36	A bit of delay is sufficient and stochastic encoding is necessary to overcome online adversarial erasures **2016**,		4
35	Sample complexity bounds for dictionary learning of tensor data **2017**,		4
34	Randomization bounds on Gaussian arbitrarily varying channels **2006**,		4
33	Data-weighted ensemble learning for privacy-preserving distributed learning **2016**,		4
32	Differentially Private Online Active Learning with Applications to Anomaly Detection **2016**,		4
31	Distributed learning from social sampling **2012**,		3

30	Opinion dynamics and distributed learning of distributions **2011**,		3
29	Using zero-rate feedback on binary additive channels with individual noise sequences **2007**,		3
28	Rateless coding with partial CSI at the decoder **2007**,		3
27	Designing Incentive Schemes for Privacy-Sensitive Users. *Journal of Privacy and Confidentiality*, **2015**, 7,	1.5	3
26	. *IEEE Transactions on Signal Processing*, **2020**, 68, 33-48	4.8	3
25	Decentralized Multisite VBM Analysis During Adolescence Shows Structural Changes Linked to Age, Body Mass Index, and Smoking: a COINSTAC Analysis. *Neuroinformatics*, **2021**, 19, 553-566	3.2	3
24	**2018**,		3
23	Identification of kronecker-structured dictionaries: An asymptotic analysis **2017**,		2
22	Risk-limiting Audits and the Margin of Victory in Nonplurality Elections. *Statistics, Politics, and Policy* , **2013**, 4,	0.4	2
21	A little feedback can simplify sensor network cooperation. *IEEE Journal on Selected Areas in Communications*, **2010**, 28, 1159-1168	14.2	2
20	Spatial Filtering in Sensor Networks with Computation Codes **2007**,		2
19	Network Traffic Shaping for Enhancing Privacy in IoT Systems. *IEEE/ACM Transactions on Networking*, **2022**, 1-16	3.8	2
18	Learning from Data with Heterogeneous Noise using SGD. *JMLR Workshop and Conference Proceedings*, **2015**, 2015, 894-902		2
17	Privacy, security, and the public health researcher in the era of electronic health record research. *Online Journal of Public Health Informatics*, **2016**, 8, e207	0.3	2
16	Quadratically Constrained Channels with Causal Adversaries **2018**,		2
15	Differentially-private canonical correlation analysis **2017**,		1
14	. *IEEE Transactions on Information Theory*, **2019**, 65, 6539-6560	2.8	1
13	Differentially Private Noisy Search with Applications to Anomaly Detection (Abstract) **2017**,		1

12	Redundancy of Exchangeable Estimators. *Entropy*, **2014**, 16, 5339-5357	2.8	1
11	Assisted sampling of correlated sources **2013**,		1
10	Incentive Schemes for Privacy-Sensitive Consumers. *Lecture Notes in Computer Science*, **2015**, 358-369	0.9	1
9	Symmetrizability for Myopic AVCs **2020**,		1
8	Quantile Multi-Armed Bandits: Optimal Best-Arm Identification and a Differentially Private Scheme. *IEEE Journal on Selected Areas in Information Theory*, **2021**, 2, 534-548	2.5	1
7	Data-dependent bounds on network gradient descent **2016**,		1
6	Coordination Through Shared Randomness. *IEEE Transactions on Information Theory*, **2021**, 67, 4948-4974	1.8	1
5	Privacy-preserving quality control of neuroimaging datasets in federated environments.. *Human Brain Mapping*, **2022**,	5.9	1
4	Sample Complexity Bounds for Dictionary Learning from Vector- and Tensor-Valued Data **2021**, 134-162	0	
3	Quadratically Constrained Myopic Adversarial Channels. *IEEE Transactions on Information Theory*, **2022**, 1-1	2.8	0
2	A Correlated Noise-Assisted Decentralized Differentially Private Estimation Protocol, and its Application to fMRI Source Separation. *IEEE Transactions on Signal Processing*, **2021**, 69, 6355-6370	4.8	
1	Decentralized Brain Age Estimation Using MRI Data.. *Neuroinformatics*, **2022**, 1	3.2	