

# Yuejie Chi

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

3,132  
citations

304368

22  
h-index

197535

49  
g-index

106  
all docs

106  
docs citations

106  
times ranked

2053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sample Complexity of Asynchronous Q-Learning: Sharper Analysis and Variance Reduction. IEEE Transactions on Information Theory, 2022, 68, 448-473.	1.5	12
2	Fast Global Convergence of Natural Policy Gradient Methods with Entropy Regularization. Operations Research, 2022, 70, 2563-2578.	1.2	18
3	Privacy-Preserving Federated Multi-Task Linear Regression: A One-Shot Linear Mixing Approach Inspired By Graph Regularization. , 2022, , .		0
4	Accelerating ILL-Conditioned Robust Low-Rank Tensor Regression. , 2022, , .		2
5	Low-Rank Matrix Recovery With Scaled Subgradient Methods: Fast and Robust Convergence Without the Condition Number. IEEE Transactions on Signal Processing, 2021, 69, 2396-2409.	3.2	17
6	Beyond Procrustes: Balancing-Free Gradient Descent for Asymmetric Low-Rank Matrix Sensing. IEEE Transactions on Signal Processing, 2021, 69, 867-877.	3.2	7
7	Nonconvex Matrix Factorization From Rank-One Measurements. IEEE Transactions on Information Theory, 2021, 67, 1928-1950.	1.5	10
8	Subspace estimation from unbalanced and incomplete data matrices: $\hat{\alpha}$ statistical guarantees. Annals of Statistics, 2021, 49, .	1.4	13
9	Low-Rank Matrix Recovery with Scaled Subgradient Methods: Fast and Robust Convergence Without the Condition Number. , 2021, , .		2
10	Manifold Gradient Descent Solves Multi-Channel Sparse Blind Deconvolution Provably and Efficiently. IEEE Transactions on Information Theory, 2021, 67, 4784-4811.	1.5	6
11	Compressed Super-Resolution of Positive Sources. IEEE Signal Processing Letters, 2021, 28, 56-60.	2.1	6
12	Non-convex low-rank matrix recovery with arbitrary outliers via median-truncated gradient descent. Information and Inference, 2020, 9, 289-325.	0.9	17
13	Implicit Regularization in Nonconvex Statistical Estimation: Gradient Descent Converges Linearly for Phase Retrieval, Matrix Completion, and Blind Deconvolution. Foundations of Computational Mathematics, 2020, 20, 451-632.	1.5	63
14	Vector-Valued Graph Trend Filtering With Non-Convex Penalties. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 48-62.	1.6	13
15	Analytical convergence regions of accelerated gradient descent in nonconvex optimization under Regularity Condition. Automatica, 2020, 113, 108715.	3.0	6
16	Learning Latent Features with Pairwise Penalties in Low-Rank Matrix Completion. , 2020, , .		1
17	Learning Latent Features With Pairwise Penalties in Low-Rank Matrix Completion. IEEE Transactions on Signal Processing, 2020, 68, 4210-4225.	3.2	1
18	Convergence of Distributed Stochastic Variance Reduced Methods Without Sampling Extra Data. IEEE Transactions on Signal Processing, 2020, 68, 3976-3989.	3.2	8

#	ARTICLE	IF	CITATIONS
19	On the Stable Resolution Limit of Total Variation Regularization for Spike Deconvolution. IEEE Transactions on Information Theory, 2020, 66, 7237-7252.	1.5	17
20	Manifold Gradient Descent Solves Multi-Channel Sparse Blind Deconvolution Provably and Efficiently. , 2020, , .		3
21	Noisy Matrix Completion: Understanding Statistical Guarantees for Convex Relaxation via Nonconvex Optimization. SIAM Journal on Optimization, 2020, 30, 3098-3121.	1.2	44
22	Guaranteed Recovery of One-Hidden-Layer Neural Networks via Cross Entropy. IEEE Transactions on Signal Processing, 2020, 68, 3225-3235.	3.2	10
23	Support Stability of Spike Deconvolution via Total Variation Minimization. , 2020, , .		0
24	Harnessing Sparsity Over the Continuum: Atomic norm minimization for superresolution. IEEE Signal Processing Magazine, 2020, 37, 39-57.	4.6	83
25	Data Quality-Informed Multiple Occupant Localization using Floor Vibration Sensing. , 2020, , .		3
26	On the Sensitivity of Spectral Initialization for Noisy Phase Retrieval. , 2019, , .		2
27	Median-Truncated Gradient Descent: A Robust and Scalable Nonconvex Approach for Signal Estimation. Applied and Numerical Harmonic Analysis, 2019, , 237-261.	0.1	2
28	Solving Quadratic Equations via Amplitude-based Nonconvex Optimization. , 2019, , .		1
29	Nonconvex Optimization Meets Low-Rank Matrix Factorization: An Overview. IEEE Transactions on Signal Processing, 2019, 67, 5239-5269.	3.2	186
30	Improving Graph Trend Filtering with Non-convex Penalties. , 2019, , .		2
31	Shift-invariant Subspace Tracking with Missing Data. , 2019, , .		2
32	Low-Rank Structured Covariance Matrix Estimation. IEEE Signal Processing Letters, 2019, 26, 700-704.	2.1	7
33	Gradient descent with random initialization: fast global convergence for nonconvex phase retrieval. Mathematical Programming, 2019, 176, 5-37.	1.6	81
34	Local Geometry of Cross Entropy Loss in Learning One-Hidden-Layer Neural Networks. , 2019, , .		4
35	Beyond Procrustes: Balancing-free Gradient Descent for Asymmetric Low-Rank Matrix Sensing. , 2019, , .		3
36	Self-Calibrated Super Resolution. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	Stable separation and super-resolution of mixture models. Applied and Computational Harmonic Analysis, 2019, 46, 1-39.	1.1	7
38	Device-free Multiple People Localization through Floor Vibration. , 2019, , .		17
39	Stochastic Approximation and Memory-Limited Subspace Tracking for Poisson Streaming Data. IEEE Transactions on Signal Processing, 2018, 66, 1051-1064.	3.2	9
40	A Non-Convex Approach To Joint Sensor Calibration And Spectrum Estimation. , 2018, , .		4
41	Terahertz Imaging of Binary Reflectance with Variational Bayesian Inference. , 2018, , .		3
42	Median-Truncated Nonconvex Approach for Phase Retrieval With Outliers. IEEE Transactions on Information Theory, 2018, 64, 7287-7310.	1.5	27
43	Low-Rank Matrix Completion [Lecture Notes]. IEEE Signal Processing Magazine, 2018, 35, 178-181.	4.6	10
44	Harnessing Structures in Big Data via Guaranteed Low-Rank Matrix Estimation: Recent Theory and Fast Algorithms via Convex and Nonconvex Optimization. IEEE Signal Processing Magazine, 2018, 35, 14-31.	4.6	104
45	Streaming PCA and Subspace Tracking: The Missing Data Case. Proceedings of the IEEE, 2018, 106, 1293-1310.	16.4	50
46	Rethinking PCA for Modern Data Sets: Theory, Algorithms, and Applications [Scanning the Issue]. Proceedings of the IEEE, 2018, 106, 1274-1276.	16.4	58
47	Quantized Spectral Compressed Sensing: Cramer-Rao Bounds and Recovery Algorithms. IEEE Transactions on Signal Processing, 2018, 66, 3268-3279.	3.2	25
48	Super-Resolution Image Reconstruction for High-Density Three-Dimensional Single-Molecule Microscopy. IEEE Transactions on Computational Imaging, 2017, 3, 763-773.	2.6	22
49	Subspace Learning From Bits. IEEE Transactions on Signal Processing, 2017, 65, 4429-4442.	3.2	14
50	Performance bounds for modal analysis using sparse linear arrays. Proceedings of SPIE, 2017, , .	0.8	0
51	MAP estimation of structured covariance matrices for space-time adaptive processing. , 2017, , .		1
52	Non-convex low-rank matrix recovery from corrupted random linear measurements. , 2017, , .		2
53	Low-Rank Positive Semidefinite Matrix Recovery From Corrupted Rank-One Measurements. IEEE Transactions on Signal Processing, 2017, 65, 397-408.	3.2	24
54	Compressive spectrum estimation using quantized measurements. , 2017, , .		2

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55	Memory-Limited stochastic approximation for poisson subspace tracking. , 2017, , .		0
56	Convex relaxations of spectral sparsity for robust super-resolution and line spectrum estimation. , 2017, , .		4
57	Outlier-robust recovery of low-rank positive semidefinite matrices from magnitude measurements. , 2016, , .		0
58	Principal subspace estimation for low-rank Toeplitz covariance matrices with binary sensing. , 2016, , .		3
59	Kronecker covariance sketching for spatial-temporal data. , 2016, , .		2
60	Robust blind spikes deconvolution. , 2016, , .		0
61	Guaranteed Blind Sparse Spikes Deconvolution via Lifting and Convex Optimization. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 782-794.	7.3	93
62	Kaczmarz Method for Solving Quadratic Equations. IEEE Signal Processing Letters, 2016, 23, 1183-1187.	2.1	23
63	Blind Deconvolution From Multiple Sparse Inputs. IEEE Signal Processing Letters, 2016, 23, 1384-1388.	2.1	43
64	Super-resolution image reconstruction for high-density 3D single-molecule microscopy. , 2016, , .		3
65	Off-the-Grid Line Spectrum Denoising and Estimation With Multiple Measurement Vectors. IEEE Transactions on Signal Processing, 2016, 64, 1257-1269.	3.2	194
66	Covariance tracking from sketches of rapid data streams. , 2015, , .		2
67	Blind calibration of multi-channel samplers using sparse recovery. , 2015, , .		0
68	Exact and Stable Covariance Estimation From Quadratic Sampling via Convex Programming. IEEE Transactions on Information Theory, 2015, 61, 4034-4059.	1.5	126
69	Change-point estimation of high-dimensional streaming data via sketching. , 2015, , .		1
70	Blind super-resolution of sparse spike signals. , 2015, , .		0
71	Compressive graph clustering from random sketches. , 2015, , .		3
72	Super-resolution of mutually interfering signals. , 2015, , .		1

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73	Compressive Two-Dimensional Harmonic Retrieval via Atomic Norm Minimization. IEEE Transactions on Signal Processing, 2015, 63, 1030-1042.	3.2	158
74	3D multifocus astigmatism and compressed sensing (3D MACS) based superresolution reconstruction. Biomedical Optics Express, 2015, 6, 902.	1.5	29
75	Orthogonal Matching Pursuit on Faulty Circuits. IEEE Transactions on Communications, 2015, 63, 2541-2554.	4.9	4
76	Fast two-dimensional super-resolution image reconstruction algorithm for ultra-high emitter density. Optics Letters, 2015, 40, 2989.	1.7	18
77	Parameter estimation for mixture models via convex optimization. , 2015, , .		0
78	Compressed Sensing, Sparse Inversion, and Model Mismatch. Applied and Numerical Harmonic Analysis, 2015, , 75-95.	0.1	1
79	Joint sparsity recovery for spectral compressed sensing. , 2014, , .		23
80	Estimation of simultaneously structured covariance matrices from quadratic measurements. , 2014, , .		7
81	Robust and universal covariance estimation from quadratic measurements via convex programming. , 2014, , .		7
82	Compressive parameter estimation with multiple measurement vectors via structured low-rank covariance estimation. , 2014, , .		4
83	Classification and Boosting with Multiple Collaborative Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1519-1531.	9.7	58
84	Robust Spectral Compressed Sensing via Structured Matrix Completion. IEEE Transactions on Information Theory, 2014, 60, 6576-6601.	1.5	203
85	One-bit principal subspace estimation. , 2014, , .		2
86	Compressive recovery of 2-D off-grid frequencies. , 2013, , .		17
87	PETRELS: Parallel Subspace Estimation and Tracking by Recursive Least Squares From Partial Observations. IEEE Transactions on Signal Processing, 2013, 61, 5947-5959.	3.2	102
88	Sparse MIMO radar via structured matrix completion. , 2013, , .		8
89	Resolving spatial modes of lasers via matrix completion. Optics Letters, 2013, 38, 3957.	1.7	1
90	Knowledge-enhanced Matching Pursuit. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
91	Low-rank matrix recovery with poison noise. , 2013, , .		3
92	Nearest subspace classification with missing data. , 2013, , .		3
93	Analysis of fisher information and the Cramer-Rao bound for nonlinear parameter estimation after compressed sensing. , 2013, , .		23
94	Connecting the dots in multi-class classification: From nearest subspace to collaborative representation. , 2012, , .		7
95	Coherence-based performance guarantees of Orthogonal Matching Pursuit. , 2012, , .		7
96	Compressive demodulation of mutually interfering signals. , 2012, , .		9
97	PETRELS: Subspace estimation and tracking from partial observations. , 2012, , .		25
98	Diagnostic grade wireless ECG monitoring. , 2011, 2011, 850-5.		4
99	Sensitivity to Basis Mismatch in Compressed Sensing. IEEE Transactions on Signal Processing, 2011, 59, 2182-2195.	3.2	761
100	Training Signal Design and Tradeoffs for Spectrally-Efficient Multi-User MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2011, 10, 2234-2245.	6.1	22
101	On Training Signal Design for Multi-User MIMO-OFDM: Performance Analysis and Tradeoffs. , 2011, , .		2
102	Sensitivity to basis mismatch in compressed sensing. , 2010, , .		49
103	Regularized blind detection for MIMO communications. , 2010, , .		6
104	Compressive blind source separation. , 2010, , .		7
105	Range sidelobe suppression in a desired Doppler interval. , 2009, , .		19
106	Golay complementary waveforms for sparse delay-Doppler radar imaging. , 2009, , .		4