Yong Chen

List of Publications by Year
in descending order

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134 papers	2,326 citations	331670 21 h-index	302126 39 g-index
145 all docs	145 docs citations	145 times ranked	3180 citing authors

#	Article	IF	Citations
1	Accounting for postâ€randomization variables in metaâ€analysis: A joint metaâ€regression approach. Biometrics, 2023, 79, 358-367.	1.4	0
2	Methodological challenges in spatial and contextual exposome-health studies. Critical Reviews in Environmental Science and Technology, 2023, 53, 827-846.	12.8	7
3	Heterogeneity-aware and communication-efficient distributed statistical inference. Biometrika, 2022, 109, 67-83.	2.4	24
4	EMBRACE: An EMâ€based bias reduction approach through Copasâ€model estimation for quantifying the evidence of selective publishing in network metaâ€analysis. Biometrics, 2022, 78, 754-765.	1.4	3
5	Controversy and Debate: Questionable utility of the relative risk in clinical research: Paper 2: Is the Odds Ratio â€œportableâ€•in meta-analysis? Time to consider bivariate generalized linear mixed model. Journal of Clinical Epidemiology, 2022, 142, 280-287.	5.0	10
6	Controversy and Debate : Questionable utility of the relative risk in clinical research: Paper 4 :Odds Ratios are far from â€œportableâ€•â€" A call to use realistic models for effect variation in meta-analysis. Journal of Clinical Epidemiology, 2022, 142, 294-304.	5.0	10
7	Risk Factors for Diagnosis of Psoriatic Arthritis, Psoriasis, Rheumatoid Arthritis, and Ankylosing Spondylitis: A Set of Parallel Case-control Studies. Journal of Rheumatology, 2022, 49, 53-59.	2.0	19
8	Extending Huiâ€Walter framework to correlated outcomes with application to diagnosis tests of an eye disease among premature infants. Statistics in Medicine, 2022, 41, 433-448.	1.6	0
9	Privacy-preserving harmonization via distributed ComBat. NeuroImage, 2022, 248, 118822.	4.2	11
10	A Bayesian Network to Predict the Risk of Post Influenza Vaccination Guillain-BarrÃ© Syndrome: Development and Validation Study. JMIR Public Health and Surveillance, 2022, 8, e25658.	2.6	0
11	Does biologic therapy impact the development of PsA among patients with psoriasis?. Annals of the Rheumatic Diseases, 2022, 81, 80-86.	0.9	29
12	Analysis of Dual Combination Therapies Used in Treatment of Hypertension in a Multinational Cohort. JAMA Network Open, 2022, 5, e223877.	5.9	9
13	DLMM as a lossless one-shot algorithm for collaborative multi-site distributed linear mixed models. Nature Communications, 2022, 13, 1678.	12.8	9
14	SAT: a Surrogate-Assisted Two-wave case boosting sampling method, with application to EHR-based association studies. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 918-927.	4.4	2
15	ODACH: a one-shot distributed algorithm for Cox model with heterogeneous multi-center data. Scientific Reports, 2022, 12, 6627.	3.3	9
16	dPQL: a lossless distributed algorithm for generalized linear mixed model with application to privacy-preserving hospital profiling. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1366-1371.	4.4	10
17	Accounting for publication bias using a bivariate trim and fill metaâ€analysis procedure. Statistics in Medicine, 2022, 41, 3466-3478.	1.6	8
18	Distributed Quasi-Poisson regression algorithm for modeling multi-site count outcomes in distributed data networks. Journal of Biomedical Informatics, 2022, 131, 104097.	4.3	9

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19	Federated Multi-view Learning for Private Medical Data Integration and Analysis. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-23.	4.5	9
20	Distributed learning for heterogeneous clinical data with application to integrating COVID-19 data across 230 sites. Npj Digital Medicine, 2022, 5, .	10.9	8
21	The association of prescription opioid use with suicide attempts: An analysis of statewide medical claims data. PLoS ONE, 2022, 17, e0269809.	2.5	5
22	Multisite learning of high-dimensional heterogeneous data with applications to opioid use disorder study of 15,000 patients across 5 clinical sites. Scientific Reports, 2022, 12, .	3.3	0
23	Predictors of postinfectious inflammatory response syndrome in HIV-negative immunocompetent cryptococcal meningitis. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 680-681.	1.9	9
24	Serum antinuclear antibodies associate with worse prognosis in AQP4â€positive neuromyelitis optica spectrum disorder. Brain and Behavior, 2021, 11, e01865.	2.2	12
25	Lossless integration of multiple electronic health records for identifying pleiotropy using summary statistics. Nature Communications, 2021, 12, 168.	12.8	2
26	A cost-effective chart review sampling design to account for phenotyping error in electronic health records (EHR) data. Journal of the American Medical Informatics Association: JAMIA, 2021, 29, 52-61.	4.4	5
27	Extracting postmarketing adverse events from safety reports in the vaccine adverse event reporting system (VAERS) using deep learning. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1393-1400.	4.4	22
28	Prediction of postâ€vaccination GuillainâBarrÃ© syndrome using data from a passive surveillance system. Pharmacoepidemiology and Drug Safety, 2021, 30, 602-609.	1.9	7
29	Monitoring vaccine safety by studying temporal variation of adverse events using vaccine adverse event reporting system. Annals of Applied Statistics, 2021, 15, .	1.1	3
30	Estimating the reference interval from a fixed effects <scp>metaâ€analysis</scp>. Research Synthesis Methods, 2021, 12, 630-640.	8.7	3
31	Variation in US Hospital Mortality Rates for Patients Admitted With COVID-19 During the First 6 Months of the Pandemic. JAMA Internal Medicine, 2021, 181, 471.	5.1	197
32	Using logic regression to characterize extreme heat exposures and their health associations: a time-series study of emergency department visits in Atlanta. BMC Medical Research Methodology, 2021, 21, 87.	3.1	5
33	Why Is the Electronic Health Record So Challenging for Research and Clinical Care?. Methods of Information in Medicine, 2021, 60, 032-048.	1.2	13
34	Studying pediatric health outcomes with electronic health records using Bayesian clustering and trajectory analysis. Journal of Biomedical Informatics, 2021, 113, 103654.	4.3	8
35	Predictive P-score for treatment ranking in Bayesian network meta-analysis. BMC Medical Research Methodology, 2021, 21, 213.	3.1	15
36	An efficient and accurate distributed learning algorithm for modeling multi-site zero-inflated count outcomes. Scientific Reports, 2021, 11, 19647.	3.3	9

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37	Global identifiability of latent class models with applications to diagnostic test accuracy studies: A GrÃ¶bner basis approach. Biometrics, 2020, 76, 98-108.	1.4	5
38	Embracing study heterogeneity for finding genetic interactions in largeâ€scale research consortia. Genetic Epidemiology, 2020, 44, 52-66.	1.3	4
39	An augmented estimation procedure for EHR-based association studies accounting for differential misclassification. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 244-253.	4.4	9
40	Learning from electronic health records across multiple sites: A communication-efficient and privacy-preserving distributed algorithm. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 376-385.	4.4	61
41	A fast score test for generalized mixture models. Biometrics, 2020, 76, 811-820.	1.4	4
42	On specification tests for composite likelihood inference. Biometrika, 2020, 107, 907-917.	2.4	1
43	SCOR: A secure international informatics infrastructure to investigate COVID-19. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1721-1726.	4.4	31
44	Testing small study effects in multivariate metaâ€analysis. Biometrics, 2020, 76, 1240-1250.	1.4	24
45	Learning from local to global: An efficient distributed algorithm for modeling time-to-event data. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1028-1036.	4.4	46
46	Diagnostic accuracy of the <scp>PLASMIC</scp> score in patients with suspected thrombotic thrombocytopenic purpura: A systematic review and <scp>metaâ€analysis</scp>. Transfusion, 2020, 60, 2047-2057.	1.6	37
47	Risk of Persistent Opioid Use following Major Surgery in Matched Samples of Patients with and without Cancer. Cancer Epidemiology Biomarkers and Prevention, 2020, 29, 2126-2133.	2.5	7
48	Impact of Hospitalization and Medication Switching on Postâ€discharge Adherence to Oral Anticoagulants in Patients With Atrial Fibrillation. Pharmacotherapy, 2020, 40, 1022-1035.	2.6	6
49	A historical review of publication bias. Research Synthesis Methods, 2020, 11, 725-742.	8.7	69
50	Ideas for how informaticians can get involved with COVID-19 research. BioData Mining, 2020, 13, 3.	4.0	20
51	A pseudolikelihood approach for assessing genetic association in caseâ€“control studies with unmeasured population structure. Statistical Methods in Medical Research, 2020, 29, 3153-3165.	1.5	0
52	Reducing Bias Due to Outcome Misclassification for Epidemiologic Studies Using EHR-derived Probabilistic Phenotypes. Epidemiology, 2020, Publish Ahead of Print, 542-550.	2.7	9
53	Back Cover Image. Genetic Epidemiology, 2020, 44, ii.	1.3	0
54	Electronic health records and polygenic risk scores for predicting disease risk. Nature Reviews Genetics, 2020, 21, 493-502.	16.3	78

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55	Semiparametric modelling and estimation of covariateâ€adjusted dependence between bivariate recurrent events. Biometrics, 2020, 76, 1229-1239.	1.4	2
56	How Computational Experiments Can Improve Our Understanding of the Genetic Architecture of Common Human Diseases. Artificial Life, 2020, 26, 23-37.	1.3	4
57	The Galaxy Plot: A New Visualization Tool for Bivariate Meta-Analysis Studies. American Journal of Epidemiology, 2020, 189, 861-869.	3.4	8
58	Use of Deep Learning to Analyze Social Media Discussions About the Human Papillomavirus Vaccine. JAMA Network Open, 2020, 3, e2022025.	5.9	32
59	Small-study effects: current practice and challenges for future research. Statistics and Its Interface, 2020, 13, 475-484.	0.3	5
60	Evaluation of Phenotyping Errors on Polygenic Risk Score Predictions. , 2020, , .		1
61	Does hospitalization for thromboembolism improve oral anticoagulant adherence in patients with atrial fibrillation?. Journal of the American Pharmacists Association: JAPhA, 2020, 60, 986-992.e2.	1.5	1
62	Robust-ODAL: Learning from heterogeneous health systems without sharing patient-level data. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2020, 25, 695-706.	0.7	7
63	Identifying Clinical Risk Factors for Opioid Use Disorder using a Distributed Algorithm to Combine Real-World Data from a Large Clinical Data Research Network. AMIA ... Annual Symposium proceedings, 2020, 2020, 1220-1229.	0.2	1
64	Leverage Real-world Longitudinal Data in Large Clinical Research Networks for Alzheimer's Disease and Related Dementia (ADRD). AMIA ... Annual Symposium proceedings, 2020, 2020, 393-401.	0.2	1
65	Copas-like selection model to correct publication bias in systematic review of diagnostic test studies. Statistical Methods in Medical Research, 2019, 28, 2912-2923.	1.5	5
66	Comparing drug safety of hepatitis C therapies using post-market data. BMC Medical Informatics and Decision Making, 2019, 19, 147.	3.0	7
67	Prediction of 30-day pediatric unplanned hospitalizations using the Johns Hopkins Adjusted Clinical Groups risk adjustment system. PLoS ONE, 2019, 14, e0221233.	2.5	15
68	A regression framework to uncover pleiotropy in large-scale electronic health record data. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1083-1090.	4.4	9
69	Blood pressure and body fat percent in women with NMOSD. Brain and Behavior, 2019, 9, e01350.	2.2	9
70	Rapid network meta-analysis using data from Food and Drug Administration approval packages is feasible but with limitations. Journal of Clinical Epidemiology, 2019, 114, 84-94.	5.0	3
71	Twoâ€sample test for correlated data under outcomeâ€dependent sampling with an application to selfâ€reported weight loss data. Statistics in Medicine, 2019, 38, 4999-5009.	1.6	2
72	Plasma Homocysteine Level Is Associated with the Expanded Disability Status Scale in Neuromyelitis Optica Spectrum Disorder. NeuroImmunoModulation, 2019, 26, 258-264.	1.8	6

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73	Association of Race/Ethnicity With Hospital Discharge Disposition After Elective Total Knee Arthroplasty. JAMA Network Open, 2019, 2, e1914259.	5.9	37
74	Investigating safety profiles of human papillomavirus vaccine across group differences using VAERS data and MedDRA. PeerJ, 2019, 7, e7490.	2.0	3
75	Elevated Plasma Homocysteine Levels in Anti-N-methyl-D-aspartate Receptor Encephalitis. Frontiers in Neurology, 2019, 10, 464.	2.4	6
76	Leveraging deep learning to understand health beliefs about the Human Papillomavirus Vaccine from social media. Npj Digital Medicine, 2019, 2, 27.	10.9	22
77	Integration of genetic and clinical information to improve imputation of data missing from electronic health records. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1056-1063.	4.4	17
78	Determining the Association Between End-of-Life Care Resources and Patient Outcomes in Pennsylvania ICUs*. Critical Care Medicine, 2019, 47, 1591-1598.	0.9	7
79	A Meta-Analysis of the Associations Between the Nurse Work Environment in Hospitals and 4 Sets of Outcomes. Medical Care, 2019, 57, 353-361.	2.4	182
80	Regression analysis of longitudinal data with outcomeâ€dependent sampling and informative censoring. Scandinavian Journal of Statistics, 2019, 46, 831-847.	1.4	7
81	Inflation of type I error rates due to differential misclassification in EHRâ€derived outcomes: Empirical illustration using breast cancer recurrence. Pharmacoepidemiology and Drug Safety, 2019, 28, 264-268.	1.9	17
82	Automated discovery of test statistics using genetic programming. Genetic Programming and Evolvable Machines, 2019, 20, 127-137.	2.2	3
83	A Bayesian latent class approach for EHRâ€based phenotyping. Statistics in Medicine, 2019, 38, 74-87.	1.6	19
84	Bayesian hierarchical methods for meta-analysis combining randomized-controlled and single-arm studies. Statistical Methods in Medical Research, 2019, 28, 1293-1310.	1.5	18
85	Difference Between Users and Nonusers of a Patient Portal in Health Behaviors and Outcomes: Retrospective Cohort Study. Journal of Medical Internet Research, 2019, 21, e13146.	4.3	16
86	National Survey of Hospitalistsâ€™ Experiences with Incidental Pulmonary Nodules. Journal of Hospital Medicine, 2019, 14, 353-356.	1.4	6
87	Robust-ODAL: Learning from heterogeneous health systems without sharing patient-level data. , 2019, , .		5
88	ODAL: A one-shot distributed algorithm to perform logistic regressions on electronic health records data from multiple clinical sites. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2019, 24, 30-41.	0.7	7
89	Automated discovery of test statistics using genetic programming. Genetic Programming and Evolvable Machines, 2019, 20, 127-137.	2.2	0
90	Empirical Comparison of Publication Bias Tests in Meta-Analysis. Journal of General Internal Medicine, 2018, 33, 1260-1267.	2.6	184

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91	A Bayesian hierarchical model for network meta-analysis of multiple diagnostic tests. Biostatistics, 2018, 19, 87-102.	1.5	24
92	PIE: A prior knowledge guided integrated likelihood estimation method for bias reduction in association studies using electronic health records data. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 345-352.	4.4	15
93	The performance of rapid plasma reagin (RPR) titer in HIV-negative general paresis after neurosyphilis therapy. BMC Infectious Diseases, 2018, 18, 144.	2.9	12
94	Cytosine methylation predicts renal function decline in American Indians. Kidney International, 2018, 93, 1417-1431.	5.2	46
95	Bayesian Mixed Treatment Comparisons Meta-Analysis for Correlated Outcomes Subject to Reporting Bias. Journal of the Royal Statistical Society Series C: Applied Statistics, 2018, 67, 127-144.	1.0	12
96	An improved method for bivariate metaâ€analysis when withinâ€study correlations are unknown. Research Synthesis Methods, 2018, 9, 73-88.	8.7	11
97	Visualized Emotion Ontology: a model for representing visual cues of emotions. BMC Medical Informatics and Decision Making, 2018, 18, 64.	3.0	14
98	A conditional composite likelihood ratio test with boundary constraints. Biometrika, 2018, 105, 225-232.	2.4	4
99	PSB 2019 Workshop on Text Mining and Visualization for Precision Medicine. , 2018, , .		0
100	Inherited Thrombophilia and the Risk of Arterial Ischemic Stroke: A Systematic Review and Meta-Analysis. Blood, 2018, 132, 2518-2518.	1.4	0
101	ODAL: A one-shot distributed algorithm to perform logistic regressions on electronic health records data from multiple clinical sites. , 2018, , .		13
102	Identification of Rare Adverse Events with Year-varying Reporting Rates for FLU4 Vaccine in VAERS. AMIA ... Annual Symposium proceedings, 2018, 2018, 1544-1551.	0.2	0
103	Neuronal Activity-Induced Sterol Regulatory Element Binding Protein-1 (SREBP1) is Disrupted in Dysbindin-Null Miceâ€"Potential Link to Cognitive Impairment in Schizophrenia. Molecular Neurobiology, 2017, 54, 1699-1709.	4.0	17
104	A composite likelihood method for bivariate meta-analysis in diagnostic systematic reviews. Statistical Methods in Medical Research, 2017, 26, 914-930.	1.5	23
105	Implementing optimal allocation in clinical trials with multiple endpoints. Journal of Statistical Planning and Inference, 2017, 182, 88-99.	0.6	4
106	PLEMT: A Novel Pseudolikelihood-Based EM Test for Homogeneity in Generalized Exponential Tilt Mixture Models. Journal of the American Statistical Association, 2017, 112, 1393-1404.	3.1	7
107	pETM: a penalized Exponential Tilt Model for analysis of correlated high-dimensional DNA methylation data. Bioinformatics, 2017, 33, 1765-1772.	4.1	12
108	A frailty model for recurrent events during alternating restraint and non-restraint time periods. Statistics in Medicine, 2017, 36, 643-654.	1.6	1

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109	Analysis of Individual Differences in Vaccine Pharmacovigilance Using VAERS Data and MedDRA System Organ Classes: A Use Case Study With Trivalent Influenza Vaccine. Biomedical Informatics Insights, 2017, 9, 117822261770062.	4.6	8
110	On metaâ€•and megaâ€analyses for geneâ€“environment interactions. Genetic Epidemiology, 2017, 41, 876-886.	1.3	2
111	A simple and robust method for multivariate metaâ€analysis of diagnostic test accuracy. Statistics in Medicine, 2017, 36, 105-121.	1.6	7
112	A Semiparametric Model for VQTL Mapping. Biometrics, 2017, 73, 571-581.	1.4	12
113	A signal detection method for temporal variation of adverse effect with vaccine adverse event reporting system data. BMC Medical Informatics and Decision Making, 2017, 17, 76.	3.0	12
114	Maximum likelihood estimation and EM algorithm of Copas-like selection model for publication bias correction. Biostatistics, 2017, 18, 495-504.	1.5	11
115	Comparing the Human Papillomavirus Vaccination Opinions Trends from Different Twitter User Groups with a Machine Learning Based System and Semiparametric Nonlinear Regression. Studies in Health Technology and Informatics, 2017, 245, 1218.	0.3	2
116	Inference for correlated effect sizes using multiple univariate metaâ€analyses. Statistics in Medicine, 2016, 35, 1405-1422.	1.6	7
117	Lysosomal iron modulates NMDA receptor-mediated excitation via small GTPase, Dexras1. Molecular Brain, 2016, 9, 38.	2.6	47
118	A metaâ€analytic framework for detection of genetic interactions. Genetic Epidemiology, 2016, 40, 534-543.	1.3	2
119	Phospholipase C Beta 1: a Candidate Signature Gene for Proneural Subtype High-Grade Glioma. Molecular Neurobiology, 2016, 53, 6511-6525.	4.0	23
120	Metaâ€analysis of studies with bivariate binary outcomes: a marginal betaâ€binomial model approach. Statistics in Medicine, 2016, 35, 21-40.	1.6	16
121	A hybrid Bayesian hierarchical model combining cohort and caseâ€“control studies for meta-analysis of diagnostic tests: Accounting for partial verification bias. Statistical Methods in Medical Research, 2016, 25, 3015-3037.	1.5	12
122	An Empirical Study for Impacts of Measurement Errors on EHR based Association Studies. AMIA ... Annual Symposium proceedings, 2016, 2016, 1764-1773.	0.2	19
123	An alternative pseudolikelihood method for multivariate random-effects meta-analysis. Statistics in Medicine, 2015, 34, 361-380.	1.6	28
124	A Unification of Models for Meta-Analysis of Diagnostic Accuracy Studies without a Gold Standard. Biometrics, 2015, 71, 538-547.	1.4	27
125	A hybrid model for combining case-control and cohort studies in systematic reviews of diagnostic tests. Journal of the Royal Statistical Society Series C: Applied Statistics, 2015, 64, 469-489.	1.0	14
126	Regression analysis of longitudinal data with irregular and informative observation times. Biostatistics, 2015, 16, 727-739.	1.5	17

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127	Enhancement of Stress Resilience Through Histone Deacetylase 6â€“Mediated Regulation of Glucocorticoid Receptor Chaperone Dynamics. Biological Psychiatry, 2015, 77, 345-355.	1.3	44
128	Bayesian analysis on meta-analysis of case-control studies accounting for within-study correlation. Statistical Methods in Medical Research, 2015, 24, 836-855.	1.5	23
129	A Class of Pseudolikelihood Ratio Tests for Homogeneity in Exponential Tilt Mixture Models. Scandinavian Journal of Statistics, 2015, 42, 504-517.	1.4	6
130	Semiparametric Tests for Identifying Differentially Methylated Loci With Caseâ€“Control Designs Using Illumina Arrays. Genetic Epidemiology, 2014, 38, 42-50.	1.3	15
131	Comparing the power of family-based association tests for sequence data with applications in the GAW18 simulated data. BMC Proceedings, 2014, 8, S27.	1.6	3
132	Dexras1, a Small GTPase, Is Required for Glutamate-NMDA Neurotoxicity. Journal of Neuroscience, 2013, 33, 3582-3587.	3.6	60
133	Bivariate random effects models for meta-analysis of comparative studies with binary outcomes: Methods for the absolute risk difference and relative risk. Statistical Methods in Medical Research, 2012, 21, 621-633.	1.5	58
134	On the asymptotic behaviour of the pseudolikelihood ratio test statistic with boundary problems. Biometrika, 2010, 97, 603-620.	2.4	33