

Andrew L Beam

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,888
citations

318942

23
h-index

252626

46
g-index

51
all docs

51
docs citations

51
times ranked

8368
citing authors

#	ARTICLE	IF	CITATIONS
1	Effectiveness of 17-OHP for Prevention of Recurrent Preterm Birth: A Retrospective Cohort Study. American Journal of Perinatology, 2024, 41, 405-413.	0.6	1
2	Cost Savings Without Increased Risk of Respiratory Hospitalization for Preterm Children After the 2014 Palivizumab Policy Update. American Journal of Perinatology, 2022, 0, .	0.6	1
3	Artificial Intelligence Based on Machine Learning in Pharmacovigilance: A Scoping Review. Drug Safety, 2022, 45, 477-491.	1.4	16
4	Regional differences in utilization of 17 β -hydroxyprogesterone caproate (17-OHP). Journal of Perinatal Medicine, 2022, .	0.6	0
5	A structural characterization of shortcut features for prediction. European Journal of Epidemiology, 2022, 37, 563-568.	2.5	3
6	A convolutional neural network highlights mutations relevant to antimicrobial resistance in Mycobacterium tuberculosis. Nature Communications, 2022, 13, .	5.8	18
7	Sharpening the resolution on data matters: a brief roadmap for understanding deep learning for medical data. Spine Journal, 2021, 21, 1606-1609.	0.6	5
8	Second opinion needed: communicating uncertainty in medical machine learning. Npj Digital Medicine, 2021, 4, 4.	5.7	148
9	Medication utilization in children born preterm in the first two years of life. Journal of Perinatology, 2021, 41, 1732-1738.	0.9	5
10	Machine learning for patient risk stratification: standing on, or looking over, the shoulders of clinicians?. Npj Digital Medicine, 2021, 4, 62.	5.7	75
11	Specificity of International Classification of Diseases codes for bronchopulmonary dysplasia: an investigation using electronic health record data and a large insurance database. Journal of Perinatology, 2021, 41, 764-771.	0.9	12
12	Natural language processing and its role in spine surgery: A narrative review of potentials and challenges. Seminars in Spine Surgery, 2021, 33, 100877.	0.1	2
13	Protocol for development of a reporting guideline (TRIPOD-AI) and risk of bias tool (PROBAST-AI) for diagnostic and prognostic prediction model studies based on artificial intelligence. BMJ Open, 2021, 11, e048008.	0.8	313
14	The false hope of current approaches to explainable artificial intelligence in health care. The Lancet Digital Health, 2021, 3, e745-e750.	5.9	415
15	Empirical Frequentist Coverage of Deep Learning Uncertainty Quantification Procedures. Entropy, 2021, 23, 1608.	1.1	9
16	Challenges to the Reproducibility of Machine Learning Models in Health Care. JAMA - Journal of the American Medical Association, 2020, 323, 305.	3.8	174
17	Statistical Physics for Medical Diagnostics: Learning, Inference, and Optimization Algorithms. Diagnostics, 2020, 10, 972.	1.3	3
18	Time to reality check the promises of machine learning-powered precision medicine. The Lancet Digital Health, 2020, 2, e677-e680.	5.9	126

#	ARTICLE	IF	CITATIONS
19	Estimates of healthcare spending for preterm and low-birthweight infants in a commercially insured population: 2008–2016. <i>Journal of Perinatology</i> , 2020, 40, 1091-1099.	0.9	100
20	Machine learning on drug-specific data to predict small molecule teratogenicity. <i>Reproductive Toxicology</i> , 2020, 95, 148-158.	1.3	18
21	Clinical Concept Embeddings Learned from Massive Sources of Multimodal Medical Data. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2020, 25, 295-306.	0.7	34
22	A Review of Challenges and Opportunities in Machine Learning for Health. <i>AMIA Summits on Translational Science Proceedings</i> , 2020, 2020, 191-200.	0.4	25
23	Practical guidance on artificial intelligence for health-care data. <i>The Lancet Digital Health</i> , 2019, 1, e157-e159.	5.9	51
24	Factors associated with clinical inertia in type 2 diabetes mellitus patients treated with metformin monotherapy. <i>Current Medical Research and Opinion</i> , 2019, 35, 2063-2070.	0.9	7
25	Concordance between gene expression in peripheral whole blood and colonic tissue in children with inflammatory bowel disease. <i>PLoS ONE</i> , 2019, 14, e0222952.	1.1	28
26	Trends and Focus of Machine Learning Applications for Health Research. <i>JAMA Network Open</i> , 2019, 2, e1914051.	2.8	44
27	Automated grouping of medical codes via multiview banded spectral clustering. <i>Journal of Biomedical Informatics</i> , 2019, 100, 103322.	2.5	6
28	Beyond multidrug resistance: Leveraging rare variants with machine and statistical learning models in <i>Mycobacterium tuberculosis</i> resistance prediction. <i>EBioMedicine</i> , 2019, 43, 356-369.	2.7	66
29	Adversarial attacks on medical machine learning. <i>Science</i> , 2019, 363, 1287-1289.	6.0	558
30	Feature extraction for phenotyping from semantic and knowledge resources. <i>Journal of Biomedical Informatics</i> , 2019, 91, 103122.	2.5	20
31	Learning Contextual Hierarchical Structure of Medical Concepts with Poincaré Embeddings to Clarify Phenotypes. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2019, 24, 8-17.	0.7	4
32	Postsurgical prescriptions for opioid naive patients and association with overdose and misuse: retrospective cohort study. <i>BMJ: British Medical Journal</i> , 2018, 360, j5790.	2.4	428
33	Big Data and Machine Learning in Health Care. <i>JAMA - Journal of the American Medical Association</i> , 2018, 319, 1317.	3.8	1,030
34	Auditory brainstem response in infants and children with autism spectrum disorder: A meta-analysis of wave V. <i>Autism Research</i> , 2018, 11, 355-363.	2.1	37
35	Artificial intelligence in healthcare. <i>Nature Biomedical Engineering</i> , 2018, 2, 719-731.	11.6	1,437
36	Development of an Algorithm to Identify Patients with Physician-Documented Insomnia. <i>Scientific Reports</i> , 2018, 8, 7862.	1.6	15

#	ARTICLE	IF	CITATIONS
37	Medical journals should embrace preprints to address the reproducibility crisis. International Journal of Epidemiology, 2018, 47, 1363-1365.	0.9	9
38	Learning Contextual Hierarchical Structure of Medical Concepts with Poincaré Embeddings to Clarify Phenotypes. , 2018, , .		5
39	Predictive Modeling of Physician-Patient Dynamics That Influence Sleep Medication Prescriptions and Clinical Decision-Making. Scientific Reports, 2017, 7, 42282.	1.6	16
40	Long term mortality in critically ill burn survivors. Burns, 2017, 43, 1155-1162.	1.1	26
41	Utilization, Cost, and Outcome of Branded vs Compounded 17-Alpha Hydroxyprogesterone Caproate in Prevention of Preterm Birth. JAMA Internal Medicine, 2017, 177, 1689.	2.6	12
42	Association of Sex With Recurrence of Autism Spectrum Disorder Among Siblings. JAMA Pediatrics, 2017, 171, 1107.	3.3	66
43	Translating Artificial Intelligence Into Clinical Care. JAMA - Journal of the American Medical Association, 2016, 316, 2368.	3.8	150
44	An investigation of gene-gene interactions in dose-response studies with Bayesian nonparametrics. BioData Mining, 2015, 8, 6.	2.2	0
45	Beyond IC50s: Towards Robust Statistical Methods for in vitro Association Studies. Journal of Pharmacogenomics & Pharmacoproteomics, 2014, 05, 1000121.	0.2	12
46	Bayesian neural networks for detecting epistasis in genetic association studies. BMC Bioinformatics, 2014, 15, 368.	1.2	25
47	Zebrafish developmental screening of the ToxCast [®] , [†] Phase I chemical library. Reproductive Toxicology, 2012, 33, 174-187.	1.3	267
48	Optimization of Nonlinear Dose- and Concentration-Response Models Utilizing Evolutionary Computation. Dose-Response, 2011, 9, dose-response.0.	0.7	12
49	Ex-Vivo Modeling for Heritability Assessment and Genetic Mapping in Pharmacogenomics. Proceedings, 2011, 2011, 306-318.	0.3	1
50	Xenobiotic-Metabolizing Enzyme and Transporter Gene Expression in Primary Cultures of Human Hepatocytes Modulated by Toxcast Chemicals. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2010, 13, 329-346.	2.9	53