Marzyeh Ghassemi

List of Publications by Year
in descending order

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52 papers	3,768 citations	218677 26 h-index	223800 46 g-index
62 all docs	62 docs citations	62 times ranked	3605 citing authors

#	Article	IF	Citations
1	Do no harm: a roadmap for responsible machine learning for health care. Nature Medicine, 2019, 25, 1337-1340.	30.7	451
2	The false hope of current approaches to explainable artificial intelligence in health care. The Lancet Digital Health, 2021, 3, e745-e750.	12.3	415
3	Underdiagnosis bias of artificial intelligence algorithms applied to chest radiographs in under-served patient populations. Nature Medicine, 2021, 27, 2176-2182.	30.7	202
4	Can AI Help Reduce Disparities in General Medical and Mental Health Care?. AMA Journal of Ethics, 2019, 21, E167-179.	0.7	182
5	Challenges to the Reproducibility of Machine Learning Models in Health Care. JAMA - Journal of the American Medical Association, 2020, 323, 305.	7.4	174
6	Do as AI say: susceptibility in deployment of clinical decision-aids. Npj Digital Medicine, 2021, 4, 31.	10.9	162
7	Predicting COVID-19 Pneumonia Severity on Chest X-ray With Deep Learning. Cureus, 2020, 12, e9448.	0.5	159
8	Ethical Machine Learning in Healthcare. Annual Review of Biomedical Data Science, 2021, 4, 123-144.	6.5	154
9	AI recognition of patient race in medical imaging: a modelling study. The Lancet Digital Health, 2022, 4, e406-e414.	12.3	141
10	Predicting early psychiatric readmission with natural language processing of narrative discharge summaries. Translational Psychiatry, 2016, 6, e921-e921.	4.8	126
11	Unfolding physiological state. , 2014, 2014, 75-84.		123
12	Reproducibility in machine learning for health research: Still a ways to go. Science Translational Medicine, 2021, 13, .	12.4	119
13	Using Ambulatory Voice Monitoring to Investigate Common Voice Disorders: Research Update. Frontiers in Bioengineering and Biotechnology, 2015, 3, 155.	4.1	99
14	State of the art review: the data revolution in critical care. Critical Care, 2015, 19, 118.	5.8	94
15	CheXclusion: Fairness gaps in deep chest X-ray classifiers. , 2020, , .		94
16	The medical algorithmic audit. The Lancet Digital Health, 2022, 4, e384-e397.	12.3	85
17	A quality assessment tool for artificial intelligence-centered diagnostic test accuracy studies: QUADAS-AI. Nature Medicine, 2021, 27, 1663-1665.	30.7	76
18	Treating health disparities with artificial intelligence. Nature Medicine, 2020, 26, 16-17.	30.7	73

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19	Making Big Data Useful for Health Care: A Summary of the Inaugural MIT Critical Data Conference. JMIR Medical Informatics, 2014, 2, e22.	2.6	70
20	Characteristics and outcomes of hospital admissions for COVID-19 and influenza in the Toronto area. Cmaj, 2021, 193, E410-E418.	2.0	66
21	What Every Reader Should Know About Studies Using Electronic Health Record Data but May Be Afraid to Ask. Journal of Medical Internet Research, 2021, 23, e22219.	4.3	61
22	MIMIC-Extract. , 2020, , .		59
23	Hurtful words. , 2020, , .		55
24	Equity in essence: a call for operationalising fairness in machine learning for healthcare. BMJ Health and Care Informatics, 2021, 28, e100289.	3.0	54
25	Practical guidance on artificial intelligence for health-care data. The Lancet Digital Health, 2019, 1, e157-e159.	12.3	51
26	Short-Term Mortality Prediction for Elderly Patients Using Medicare Claims Data. International Journal of Machine Learning and Computing, 2015, 5, 192-197.	0.6	45
27	Leveraging a Critical Care Database. Chest, 2014, 145, 745-752.	0.8	37
28	Ambulatory assessment of phonotraumatic vocal hyperfunction using glottal airflow measures estimated from neck-surface acceleration. PLoS ONE, 2018, 13, e0209017.	2.5	34
29	Understanding vasopressor intervention and weaning: risk prediction in a public heterogeneous clinical time series database. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 488-495.	4.4	33
30	Problems in the deployment of machine-learned models in health care. Cmaj, 2021, 193, E1391-E1394.	2.0	28
31	The PLOS ONE collection on machine learning in health and biomedicine: Towards open code and open data. PLoS ONE, 2019, 14, e0210232.	2.5	27
32	A Multivariate Timeseries Modeling Approach to Severity of Illness Assessment and Forecasting in ICU with Sparse, Heterogeneous Clinical Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 2015, 446-453.	4.9	27
33	An empirical framework for domain generalization in clinical settings. , 2021, , .		18
34	Prediction using patient comparison vs. modeling: A case study for mortality prediction. , 2016, 2016, 2464-2467.		16
35	In medicine, how do we machine learn anything real?. Patterns, 2022, 3, 100392.	5.9	16
36	Ensuring machine learning for healthcare works for all. BMJ Health and Care Informatics, 2020, 27, e100237.	3.0	15

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37	Outcomes in patients with and without disability admitted to hospital with COVID-19: a retrospective cohort study. Cmaj, 2022, 194, E112-E121.	2.0	15
38	CheXclusion: Fairness gaps in deep chest X-ray classifiers. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2021, 26, 232-243.	0.7	14
39	Predicting intervention onset in the ICU with switching state space models. AMIA Summits on Translational Science Proceedings, 2017, 2017, 82-91.	0.4	13
40	An Alternative to the Light Touch Digital Health Remote Study: The Stress and Recovery in Frontline COVID-19 Health Care Workers Study. JMIR Formative Research, 2021, 5, e32165.	1.4	11
41	A comparison of approaches to improve worst-case predictive model performance over patient subpopulations. Scientific Reports, 2022, 12, 3254.	3.3	8
42	Machine learning and health need better values. Npj Digital Medicine, 2022, 5, 51.	10.9	8
43	Five principles for the intelligent use of AI in medical imaging. Intensive Care Medicine, 2021, 47, 154-156.	8.2	7
44	Long-Term Outcomes of Minor Troponin Elevations in the Intensive Care Unit. Anaesthesia and Intensive Care, 2014, 42, 356-364.	0.7	5
45	Better Understanding of the Metamorphosis of Pregnancy (BUMP): protocol for a digital feasibility study in women from preconception to postpartum. Npj Digital Medicine, 2022, 5, 40.	10.9	4
46	Automatic Localization and Brand Detection of Cervical Spine Hardware on Radiographs Using Weakly Supervised Machine Learning. Radiology: Artificial Intelligence, 2022, 4, e210099.	5.8	3
47	Reply to: â€˜Potential sources of dataset bias complicate investigation of underdiagnosis by machine learning algorithmsâ€™ and â€˜Confounding factors need to be accounted for in assessing bias by machine learning algorithmsâ€™. Nature Medicine, 2022, 28, 1161-1162.	30.7	3
48	State of the Art Review: The Data Revolution in Critical Care. Annual Update in Intensive Care and Emergency Medicine, 2015, , 573-586.	0.2	2
49	Predicting hospitalisations related to ambulatory care sensitive conditions with machine learning for population health planning: derivation and validation cohort study. BMJ Open, 2022, 12, e051403.	1.9	2
50	Pulling Up by the Causal Bootstraps. , 2021, , .		1
51	Visualization of Deep Models on Nursing Notes and Physiological Data for Predicting Health Outcomes Through Temporal Sliding Windows. Studies in Computational Intelligence, 2021, , 115-129.	0.9	1
52	Uncovering Voice Misuse Using Symbolic Mismatch.. JMLR Workshop and Conference Proceedings, 2016, 56, 239-252.	1.4	0