Jyotishman Pathak

List of Publications by Year
in descending order

109	3,296	186265	182427
papers	citations	28 h-index	51 g-index

115	115	115	5143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The phenotypic legacy of admixture between modern humans and Neandertals. Science, 2016, 351, 737-741.	12.6	269
2	Preemptive Genotyping for Personalized Medicine: Design of the Right Drug, Right Dose, Right Timeâ€"Using Genomic Data to Individualize Treatment Protocol. Mayo Clinic Proceedings, 2014, 89, 25-33.	3.0	250
3	Electronic health records-driven phenotyping: challenges, recent advances, and perspectives. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e206-e211.	4.4	213
4	Deep learning in mental health outcome research: a scoping review. Translational Psychiatry, 2020, 10, 116.	4.8	144
5	Evaluating the Process of Online Health Information Searching: A Qualitative Approach to Exploring Consumer Perspectives. Journal of Medical Internet Research, 2014, 16, e224.	4.3	115
6	Desiderata for computable representations of electronic health records-driven phenotype algorithms. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1220-1230.	4.4	110
7	Normalization and standardization of electronic health records for high-throughput phenotyping: the SHARPn consortium. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e341-e348.	4.4	100
8	Mapping clinical phenotype data elements to standardized metadata repositories and controlled terminologies: the eMERGE Network experience. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, 376-386.	4.4	98
9	The Role of Next-Generation Sequencing in Precision Medicine: A Review of Outcomes in Oncology. Journal of Personalized Medicine, 2018, 8, 30.	2.5	94
10	Clinical phenotyping in selected national networks: demonstrating the need for high-throughput, portable, and computational methods. Artificial Intelligence in Medicine, 2016, 71, 57-61.	6.5	84
11	Extracting social determinants of health from electronic health records using natural language processing: a systematic review. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2716-2727.	4.4	84
12	Knowledge-aware Assessment of Severity of Suicide Risk for Early Intervention. , 2019, , .		75
13	Developing EHR-driven heart failure risk prediction models using CPXR(Log) with the probabilistic loss function. Journal of Biomedical Informatics, 2016, 60, 260-269.	4.3	64
14	Development and validation of a machine learning algorithm for predicting the risk of postpartum depression among pregnant women. Journal of Affective Disorders, 2021, 279, 1-8.	4.1	64
15	Mayo Genome Consortia: A Genotype-Phenotype Resource for Genome-Wide Association Studies With an Application to the Analysis of Circulating Bilirubin Levels. Mayo Clinic Proceedings, 2011, 86, 606-614.	3.0	63
16	Multimodal mental health analysis in social media. PLoS ONE, 2020, 15, e0226248.	2.5	58
17	Design patterns for the development of electronic health record-driven phenotype extraction algorithms. Journal of Biomedical Informatics, 2014, 51, 280-286.	4.3	55
18	Underserved populations with missing race ethnicity data differ significantly from those with structured race/ethnicity documentation. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 722-729.	4.4	49

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19	Identifying sub-phenotypes of acute kidney injury using structured and unstructured electronic health record data with memory networks. Journal of Biomedical Informatics, 2020, 102, 103361.	4.3	49
20	Developing a FHIR-based EHR phenotyping framework: A case study for identification of patients with obesity and multiple comorbidities from discharge summaries. Journal of Biomedical Informatics, 2019, 99, 103310.	4.3	48
21	A Robust e-Epidemiology Tool in Phenotyping Heart Failure with Differentiation for Preserved and Reduced Ejection Fraction: the Electronic Medical Records and Genomics (eMERGE) Network. Journal of Cardiovascular Translational Research, 2015, 8, 475-483.	2.4	44
22	Dissecting clinical heterogeneity of bipolar disorder using multiple polygenic risk scores. Translational Psychiatry, 2020, 10, 314.	4.8	42
23	Practical considerations in genomic decision support: The eMERGE experience. Journal of Pathology Informatics, 2015, 6, 50.	1.7	42
24	Systematic review of current natural language processing methods and applications in cardiology. Heart, 2022, 108, 909-916.	2.9	39
25	Improvement in Cardiovascular Risk Prediction with Electronic Health Records. Journal of Cardiovascular Translational Research, 2016, 9, 214-222.	2.4	38
26	Association of Social Determinants of Health and Vaccinations With Child Mental Health During the COVID-19 Pandemic in the US. JAMA Psychiatry, 2022, 79, 610.	11.0	37
27	Genome-wide study of resistant hypertension identified from electronic health records. PLoS ONE, 2017, 12, e0171745.	2.5	36
28	Secondary Use of Patients' Electronic Records (SUPER): An Approach for Meeting Specific Data Needs of Clinical and Translational Researchers. AMIA ... Annual Symposium proceedings, 2017, 2017, 1581-1588.	0.2	36
29	Genetic Variants Associated with Serum Thyroid Stimulating Hormone (TSH) Levels in European Americans and African Americans from the eMERGE Network. PLoS ONE, 2014, 9, e111301.	2.5	34
30	Correlates of Mental Health Symptoms Among US Adults During COVID-19, Marchâ€“April 2020. Public Health Reports, 2021, 136, 97-106.	2.5	34
31	Using Electronic Health Records and Machine Learning to Predict Postpartum Depression. Studies in Health Technology and Informatics, 2019, 264, 888-892.	0.3	34
32	Using weak supervision and deep learning to classify clinical notes for identification of current suicidal ideation. Journal of Psychiatric Research, 2021, 136, 95-102.	3.1	33
33	A Trans-Ethnic Genome-Wide Association Study of Uterine Fibroids. Frontiers in Genetics, 2019, 10, 511.	2.3	32
34	Developing a portable natural language processing based phenotyping system. BMC Medical Informatics and Decision Making, 2019, 19, 78.	3.0	32
35	Applying semantic web technologies for phenome-wide scan using an electronic health record linked Biobank. Journal of Biomedical Semantics, 2012, 3, 10.	1.6	31
36	Comparative Analysis of Online Health Queries Originating From Personal Computers and Smart Devices on a Consumer Health Information Portal. Journal of Medical Internet Research, 2014, 16, e160.	4.3	31

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37	Review and evaluation of electronic health records-driven phenotype algorithm authoring tools for clinical and translational research. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1251-1260.	4.4	30
38	A case study evaluating the portability of an executable computable phenotype algorithm across multiple institutions and electronic health record environments. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1540-1546.	4.4	29
39	Quantifying the impact of chronic conditions on a diagnosis of major depressive disorder in adults: a cohort study using linked electronic medical records. BMC Psychiatry, 2016, 16, 114.	2.6	27
40	Social determinants of health in mental health care and research: a case for greater inclusion. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 895-899.	4.4	25
41	Automated Diabetes Case Identification Using Electronic Health Record Data at a Tertiary Care Facility. Mayo Clinic Proceedings Innovations, Quality & Outcomes, 2017, 1, 100-110.	2.4	24
42	Using linked data for mining drug-drug interactions in electronic health records. Studies in Health Technology and Informatics, 2013, 192, 682-6.	0.3	23
43	Healthcare utilization patterns among persons who use drugs during the COVID-19 pandemic. Journal of Substance Abuse Treatment, 2021, 121, 108177.	2.8	21
44	Estimation of postpartum depression risk from electronic health records using machine learning. BMC Pregnancy and Childbirth, 2021, 21, 630.	2.4	19
45	Machine Learning to Differentiate Risk of Suicide Attempt and Self-harm After General Medical Hospitalization of Women With Mental Illness. Medical Care, 2021, 59, S58-S64.	2.4	18
46	Using semantic web technologies for cohort identification from electronic health records for clinical research. AMIA Summits on Translational Science Proceedings, 2012, 2012, 10-9.	0.4	18
47	Electronic Health Record Phenotypes for Precision Medicine: Perspectives and Caveats From Treatment of Breast Cancer at a Single Institution. Clinical and Translational Science, 2018, 11, 85-92.	3.1	17
48	A conceptual model for translating omic data into clinical action. Journal of Pathology Informatics, 2015, 6, 46.	1.7	17
49	Personal Life Eventsâ€”A Promising Dimension for Psychiatry in Electronic Health Records. JAMA Psychiatry, 2020, 77, 115.	11.0	16
50	Developing a data element repository to support EHR-driven phenotype algorithm authoring and execution. Journal of Biomedical Informatics, 2016, 62, 232-242.	4.3	15
51	Risk Factors for Depression Among Civilians After the 9/11 World Trade Center Terrorist Attacks: A Systematic Review and Meta-Analysis. PLOS Currents, 2018, 10, .	1.4	15
52	Use of Acute Mental Health Care in U.S. Childrenâ€™s Hospitals Before and After Statewide COVID-19 School Closure Orders. Psychiatric Services, 2022, 73, 1202-1209.	2.0	13
53	Health behaviors and quality of life predictors for risk of hospitalization in an electronic health record-linked biobank. International Journal of General Medicine, 2015, 8, 247.	1.8	12
54	<scp>Dataâ€driven</scp> discovery of probable Alzheimer's disease and related dementia subphenotypes using electronic health records. Learning Health Systems, 2020, 4, e10246.	2.0	12

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55	Subphenotyping depression using machine learning and electronic health records. Learning Health Systems, 2020, 4, e10241.	2.0	12
56	Characterization of time-variant and time-invariant assessment of suicidality on Reddit using C-SSRS. PLoS ONE, 2021, 16, e0250448.	2.5	12
57	Association of co-occurring opioid or other substance use disorders with increased healthcare utilization in patients with depression. Translational Psychiatry, 2021, 11, 265.	4.8	12
58	Stratified Mortality Prediction of Patients with Acute Kidney Injury in Critical Care. Studies in Health Technology and Informatics, 2019, 264, 462-466.	0.3	12
59	A Framework for Data Quality Assessment in Clinical Research Datasets. AMIA ... Annual Symposium proceedings, 2017, 2017, 1080-1089.	0.2	12
60	Using electronic health records to characterize prescription patterns: focus on antidepressants in nonpsychiatric outpatient settings. JAMIA Open, 2018, 1, 233-245.	2.0	11
61	An electronic health record driven algorithm to identify incident antidepressant medication users. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 785-791.	4.4	9
62	Approaching patient engagement in research: what do patients with cardiovascular disease think?. Patient Preference and Adherence, 2015, 9, 1061.	1.8	9
63	Association networks in a matched case-control design â€“ Co-occurrence patterns of preexisting chronic medical conditions in patients with major depression versus their matched controls. Journal of Biomedical Informatics, 2018, 87, 88-95.	4.3	9
64	INCORPORATING EXPERT TERMINOLOGY AND DISEASE RISK FACTORS INTO CONSUMER HEALTH VOCABULARIES. , 2012, , .		9
65	Ascertaining Depression Severity by Extracting Patient Health Questionnaire-9 (PHQ-9) Scores from Clinical Notes. AMIA ... Annual Symposium proceedings, 2018, 2018, 147-156.	0.2	9
66	Identifying urban built environment factors in pregnancy care and maternal mental health outcomes. BMC Pregnancy and Childbirth, 2021, 21, 599.	2.4	8
67	Bi-directional association between depression and HF: An electronic health records-based cohort study. Journal of Comorbidity, 2020, 10, 2235042X2098405.	3.9	8
68	Mining the human phenome using semantic web technologies: a case study for Type 2 Diabetes. AMIA ... Annual Symposium proceedings, 2012, 2012, 699-708.	0.2	8
69	From Sour Grapes to Low-Hanging Fruit: A Case Study Demonstrating a Practical Strategy for Natural Language Processing Portability. AMIA Summits on Translational Science Proceedings, 2018, 2017, 104-112.	0.4	8
70	An architecture for research computing in health to support clinical and translational investigators with electronic patient data. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 677-685.	4.4	8
71	The potential value of social determinants of health in predicting health outcomes. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1109-1110.	4.4	7
72	The importance of social activity to risk of major depression in older adults. Psychological Medicine, 2023, 53, 2634-2642.	4.5	7

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73	Mining drug-drug interaction patterns from linked data: A case study for Warfarin, Clopidogrel, and Simvastatin. , 2013, , .		6
74	Minimum information required for a DMET experiment reporting. Pharmacogenomics, 2016, 17, 1533-1545.	1.3	6
75	Deep significance clustering: a novel approach for identifying risk-stratified and predictive patient subgroups. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2641-2653.	4.4	6
76	Effects of Plasma Transfusion on Perioperative Bleeding Complications: A Machine Learning Approach. Studies in Health Technology and Informatics, 2015, 216, 721-5.	0.3	6
77	A Systematic Prediction of Adverse Drug Reactions Using Pre-clinical Drug Characteristics and Spontaneous Reports. , 2015, , .		5
78	A Clinical Decision Support System for Preventing Adverse Reactions to Blood Transfusion. , 2015, , .		5
79	Measuring the impact of ambulatory red blood cell transfusion on home functional status: study protocol for a pilot randomized controlled trial. Trials, 2017, 18, 153.	1.6	5
80	Understanding the research landscape of major depressive disorder via literature mining: an entity-level analysis of PubMed data from 1948 to 2017. JAMIA Open, 2018, 1, 115-121.	2.0	5
81	Standardized Representation of Clinical Study Data Dictionaries with CIMI Archetypes. AMIA ... Annual Symposium proceedings, 2016, 2016, 1119-1128.	0.2	5
82	Predicting Adverse Reactions to Blood Transfusion. , 2015, , .		4
83	Performance of Electronic Health Record Diagnosis Codes for Ambulatory Heart Failure Encounters. Journal of Cardiac Failure, 2020, 26, 1060-1066.	1.7	4
84	Using electronic health records for population health sciences: a case study to evaluate the associations between changes in left ventricular ejection fraction and the built environment. JAMIA Open, 2020, 3, 386-394.	2.0	4
85	A Decompositional Approach to Executing Quality Data Model Algorithms on the i2b2 Platform. AMIA Summits on Translational Science Proceedings, 2016, 2016, 167-75.	0.4	4
86	Evaluating the Portability of an NLP System for Processing Echocardiograms: A Retrospective, Multi-site Observational Study. AMIA ... Annual Symposium proceedings, 2019, 2019, 190-199.	0.2	4
87	Design and validation of a FHIR-based EHR-driven phenotyping toolbox. Journal of the American Medical Informatics Association: JAMIA, 0, , .	4.4	4
88	Portable Phenotyping System: A Portable Machine-Learning Approach to i2b2 Obesity Challenge. , 2018, , .		3
89	Healthcare utilization among patients with psychiatric hospitalization admitted through the emergency department (ED): A claims-based study. General Hospital Psychiatry, 2020, 67, 92-99.	2.4	3
90	Incorporating expert terminology and disease risk factors into consumer health vocabularies. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2013, , 421-32.	0.7	3

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91	Integrating VA's NDF-RT drug terminology with PharmGKB: preliminary results. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2012, , 400-9.	0.7	3
92	Scalable and High-Throughput Execution of Clinical Quality Measures from Electronic Health Records using MapReduce and the JBossÂ® Drools Engine. AMIA ... Annual Symposium proceedings, 2014, 2014, 1864-73.	0.2	3
93	Improving risk prediction for depression via Elastic Net regression - Results from Korea National Health Insurance Services Data. AMIA ... Annual Symposium proceedings, 2016, 2016, 1860-1869.	0.2	3
94	Evaluating Commercially Available Mobile Apps for Depression Self-Management. AMIA ... Annual Symposium proceedings, 2020, 2020, 906-914.	0.2	3
95	INTEGRATING VA'S NDF-RT DRUG TERMINOLOGY WITH PHARMGKB: PRELIMINARY RESULTS. , 2011, , .		2
96	Prototype Development: Context-Driven Dynamic XML Ophthalmologic Data Capture Application. JMIR Medical Informatics, 2017, 5, e27.	2.6	2
97	D2Refine: A Platform for Clinical Research Study Data Element Harmonization and Standardization. AMIA Summits on Translational Science Proceedings, 2017, 2017, 259-267.	0.4	2
98	CATCH-KB: Establishing a Pharmacogenomics Variant Repository for Chemotherapy-Induced Cardiotoxicity. AMIA Summits on Translational Science Proceedings, 2018, 2017, 168-177.	0.4	2
99	Predictive Modeling of the Risk of Acute Kidney Injury in Critical Care: A Systematic Investigation of The Class Imbalance Problem. AMIA Summits on Translational Science Proceedings, 2019, 2019, 809-818.	0.4	2
100	Developing a modular architecture for creation of rule-based clinical diagnostic criteria. BioData Mining, 2016, 9, 33.	4.0	1
101	Simplifying complex clinical element models to encourage adoption. AMIA Summits on Translational Science Proceedings, 2014, 2014, 26-31.	0.4	1
102	Predicting Prolonged Stay in the ICU Attributable to Bleeding in Patients Offered Plasma Transfusion. AMIA ... Annual Symposium proceedings, 2016, 2016, 954-963.	0.2	1
103	CQL4NLP: Development and Integration of FHIR NLP Extensions in Clinical Quality Language for EHR-driven Phenotyping. AMIA Summits on Translational Science Proceedings, 2021, 2021, 624-633.	0.4	1
104	Validation and discovery of genotype-phenotype associations in chronic diseases using linked data. Studies in Health Technology and Informatics, 2012, 180, 549-53.	0.3	1
105	A Study of Social and Behavioral Determinants of Health in Lung Cancer Patients Using Transformers-based Natural Language Processing Models.. AMIA ... Annual Symposium proceedings, 2021, 2021, 1225-1233.	0.2	1
106	Multitask LS-Svm for Predicting Bleeding and Re-operation Due to Bleeding. , 2017, , .		0
107	Temporal reflected logistic regression for probabilistic heart failure survival score prediction. , 2017, , .		0
108	Integration of NLP2FHIR Representation with Deep Learning Models for EHR Phenotyping: A Pilot Study on Obesity Datasets. AMIA Summits on Translational Science Proceedings, 2021, 2021, 410-419.	0.4	0

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109	Comparing Suicide Risk Insights derived from Clinical and Social Media data. AMIA Summits on Translational Science Proceedings, 2021, 2021, 364-373.	0.4	0