

Xiaoqian Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

4,514
citations

172457

29
h-index

128289

60
g-index

117
all docs

117
docs citations

117
times ranked

5259
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Model-Protected Multi-Task Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1002-1019. | 13.9 | 6 |
| 2 | VERTICOX: Vertically Distributed Cox Proportional Hazards Model Using the Alternating Direction Method of Multipliers. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 996-1010. | 5.7 | 10 |
| 3 | External Validation of a Laboratory Prediction Algorithm for the Reduction of Unnecessary Labs in the Critical Care Setting. American Journal of Medicine, 2022, 135, 769-774. | 1.5 | 2 |
| 4 | Deep graph convolutional network for US birth data harmonization. Journal of Biomedical Informatics, 2022, 125, 103974. | 4.3 | 0 |
| 5 | Factors Associated With COVID-19 Death in the United States: Cohort Study. JMIR Public Health and Surveillance, 2022, 8, e29343. | 2.6 | 13 |
| 6 | Counterfactual analysis of differential comorbidity risk factors in Alzheimer's disease and related dementias. , 2022, 1, e0000018. | | 4 |
| 7 | Privacy-preserving logistic regression with secret sharing. BMC Medical Informatics and Decision Making, 2022, 22, 89. | 3.0 | 8 |
| 8 | Relational graph convolutional networks for predicting blood-brain barrier penetration of drug molecules. Bioinformatics, 2022, 38, 2826-2831. | 4.1 | 7 |
| 9 | Drug-Target Network Study Reveals the Core Target-Protein Interactions of Various COVID-19 Treatments. Genes, 2022, 13, 1210. | 2.4 | 0 |
| 10 | Anticancer drug synergy prediction in understudied tissues using transfer learning. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 42-51. | 4.4 | 51 |
| 11 | Privacy-preserving string search on encrypted genomic data using a generalized suffix tree. Informatics in Medicine Unlocked, 2021, 23, 100525. | 3.4 | 6 |
| 12 | Demystifying the Dark Web Opioid Trade: Content Analysis on Anonymous Market Listings and Forum Posts. Journal of Medical Internet Research, 2021, 23, e24486. | 4.3 | 8 |
| 13 | Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671. | 4.3 | 86 |
| 14 | COVID-19 trial graph: a linked graph for COVID-19 clinical trials. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1964-1969. | 4.4 | 2 |
| 15 | Human Endogenous Retroviruses in Glioblastoma Multiforme. Microorganisms, 2021, 9, 764. | 3.6 | 11 |
| 16 | Privacy-protecting, reliable response data discovery using COVID-19 patient observations. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1765-1776. | 4.4 | 10 |
| 17 | Calibrating predictive model estimates in a distributed network of patient data. Journal of Biomedical Informatics, 2021, 117, 103758. | 4.3 | 5 |
| 18 | Hyperpolarized Magnetic Resonance and Artificial Intelligence: Frontiers of Imaging in Pancreatic Cancer. JMIR Medical Informatics, 2021, 9, e26601. | 2.6 | 5 |

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|----|---|------|-----------|
| 19 | Are synthetic clinical notes useful for real natural language processing tasks: A case study on clinical entity recognition. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2193-2201. | 4.4 | 17 |
| 20 | Contact Tracing Apps: Lessons Learned on Privacy, Autonomy, and the Need for Detailed and Thoughtful Implementation. JMIR Medical Informatics, 2021, 9, e27449. | 2.6 | 22 |
| 21 | DBNet. , 2021, , . | | 5 |
| 22 | Ultrafast homomorphic encryption models enable secure outsourcing of genotype imputation. Cell Systems, 2021, 12, 1108-1120.e4. | 6.2 | 30 |
| 23 | Noise-tolerant similarity search in temporal medical data. Journal of Biomedical Informatics, 2021, 113, 103667. | 4.3 | 4 |
| 24 | Drug repurposing for COVID-19 using graph neural network and harmonizing multiple evidence. Scientific Reports, 2021, 11, 23179. | 3.3 | 28 |
| 25 | Big Data Privacy in Biomedical Research. IEEE Transactions on Big Data, 2020, 6, 296-308. | 6.1 | 22 |
| 26 | A deep learning solution to recommend laboratory reduction strategies in ICU. International Journal of Medical Informatics, 2020, 144, 104282. | 3.3 | 9 |
| 27 | 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 |
| 28 | Multiple imputation for analysis of incomplete data in distributed health data networks. Nature Communications, 2020, 11, 5467. | 12.8 | 23 |
| 29 | A secure system for genomics clinical decision support. Journal of Biomedical Informatics, 2020, 112, 103602. | 4.3 | 1 |
| 30 | iDASH secure genome analysis competition 2018: blockchain genomic data access logging, homomorphic encryption on GWAS, and DNA segment searching. BMC Medical Genomics, 2020, 13, 98. | 1.5 | 22 |
| 31 | Treating medical data as a durable asset. Nature Genetics, 2020, 52, 1005-1010. | 21.4 | 25 |
| 32 | Harmonized representation learning on dynamic EHR graphs. Journal of Biomedical Informatics, 2020, 106, 103426. | 4.3 | 23 |
| 33 | COVID-19 TestNorm: A tool to normalize COVID-19 testing names to LOINC codes. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1437-1442. | 4.4 | 12 |
| 34 | Temporal phenotyping for transitional disease progress: An application to epilepsy and Alzheimer's disease. Journal of Biomedical Informatics, 2020, 107, 103462. | 4.3 | 4 |
| 35 | Predict or draw blood: An integrated method to reduce lab tests. Journal of Biomedical Informatics, 2020, 104, 103394. | 4.3 | 13 |
| 36 | Multimodal Phenotyping of Alzheimer's Disease with Longitudinal Magnetic Resonance Imaging and Cognitive Function Data. Scientific Reports, 2020, 10, 5527. | 3.3 | 18 |

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| 37 | Distributed learning from multiple EHR databases: Contextual embedding models for medical events. <i>Journal of Biomedical Informatics</i> , 2019, 92, 103138. | 4.3 | 27 |
| 38 | A Predictive Model for Determining Patients Not Requiring Prolonged Hospital Length of Stay After Elective Primary Total Hip Arthroplasty. <i>Anesthesia and Analgesia</i> , 2019, 129, 43-50. | 2.2 | 35 |
| 39 | Privacy-preserving techniques of genomic data—a survey. <i>Briefings in Bioinformatics</i> , 2019, 20, 887-895. | 6.5 | 39 |
| 40 | SAFETY: Secure gWAs in Federated Environment through a hYbrid Solution. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 16, 93-102. | 3.0 | 36 |
| 41 | Patient ranking with temporally annotated data. <i>Journal of Biomedical Informatics</i> , 2018, 78, 43-53. | 4.3 | 9 |
| 42 | Selecting Optimal Subset to Release Under Differentially Private M-Estimators from Hybrid Datasets. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018, 30, 573-584. | 5.7 | 6 |
| 43 | Deep learning for healthcare: review, opportunities and challenges. <i>Briefings in Bioinformatics</i> , 2018, 19, 1236-1246. | 6.5 | 1,459 |
| 44 | GenoPri'16: International Workshop on Genome Privacy and Security. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 1403-1404. | 3.0 | 0 |
| 45 | iDASH secure genome analysis competition 2017. <i>BMC Medical Genomics</i> , 2018, 11, 85. | 1.5 | 15 |
| 46 | Secure Outsourced Matrix Computation and Application to Neural Networks. , 2018, 2018, 1209-1222. | | 131 |
| 47 | Privacy Policy and Technology in Biomedical Data Science. <i>Annual Review of Biomedical Data Science</i> , 2018, 1, 115-129. | 6.5 | 28 |
| 48 | Privacy-Preserving Patient Similarity Learning in a Federated Environment: Development and Analysis. <i>JMIR Medical Informatics</i> , 2018, 6, e20. | 2.6 | 112 |
| 49 | Secure Logistic Regression Based on Homomorphic Encryption: Design and Evaluation. <i>JMIR Medical Informatics</i> , 2018, 6, e19. | 2.6 | 128 |
| 50 | Privacy-Preserving Predictive Modeling: Harmonization of Contextual Embeddings From Different Sources. <i>JMIR Medical Informatics</i> , 2018, 6, e33. | 2.6 | 12 |
| 51 | Secure and Efficient Regression Analysis Using a Hybrid Cryptographic Framework: Development and Evaluation. <i>JMIR Medical Informatics</i> , 2018, 6, e14. | 2.6 | 5 |
| 52 | PRINCESS: Privacy-protecting Rare disease International Network Collaboration via Encryption through Software guard extensionS. <i>Bioinformatics</i> , 2017, 33, 871-878. | 4.1 | 75 |
| 53 | Discriminative and Distinct Phenotyping by Constrained Tensor Factorization. <i>Scientific Reports</i> , 2017, 7, 1114. | 3.3 | 21 |
| 54 | Partitioning-Based Mechanisms Under Personalized Differential Privacy. <i>Lecture Notes in Computer Science</i> , 2017, 10234, 615-627. | 1.3 | 16 |

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| 55 | Addressing Beacon re-identification attacks: quantification and mitigation of privacy risks. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 799-805. | 4.4 | 62 |
| 56 | A community effort to protect genomic data sharing, collaboration and outsourcing. Npj Genomic Medicine, 2017, 2, 33. | 3.8 | 33 |
| 57 | DiagTree. , 2017, , . | | 2 |
| 58 | PRESAGE: PRivacy-preserving gEnetic testing via SoftwAre Guard Extension. BMC Medical Genomics, 2017, 10, 48. | 1.5 | 32 |
| 59 | A Community Effort to Protect Genomic Data Sharing, Collaboration and Outsourcing. SSRN Electronic Journal, 2017, , . | 0.4 | 0 |
| 60 | Federated Tensor Factorization for Computational Phenotyping. , 2017, 2017, 887-895. | | 62 |
| 61 | SCOTCH: Secure Counting Of encryptEd genomiC data using a Hybrid approach. AMIA ... Annual Symposium proceedings, 2017, 2017, 1744-1753. | 0.2 | 1 |
| 62 | HEALER: homomorphic computation of ExAct Logistic rEgression for secure rare disease variants analysis in GWAS. Bioinformatics, 2016, 32, 211-218. | 4.1 | 76 |
| 63 | Protecting genomic data analytics in the cloud: state of the art and opportunities. BMC Medical Genomics, 2016, 9, 63. | 1.5 | 43 |
| 64 | Secure Multi-pArty Computation Grid LOGistic REgression (SMAC-GLORE). BMC Medical Informatics and Decision Making, 2016, 16, 89. | 3.0 | 40 |
| 65 | Lessons Learned for Online Health Community Moderator Roles: A Mixed-Methods Study of Moderators Resigning From WebMD Communities. Journal of Medical Internet Research, 2016, 18, e247. | 4.3 | 37 |
| 66 | A Predictive Model for Medical Events Based on Contextual Embedding of Temporal Sequences. JMIR Medical Informatics, 2016, 4, e39. | 2.6 | 48 |
| 67 | Privacy-preserving GWAS analysis on federated genomic datasets. BMC Medical Informatics and Decision Making, 2015, 15, S2. | 3.0 | 47 |
| 68 | FORESEE: Fully Outsourced secuRe gEnome Study basEd on homomorphic Encryption. BMC Medical Informatics and Decision Making, 2015, 15, S5. | 3.0 | 40 |
| 69 | Grid multi-category response logistic models. BMC Medical Informatics and Decision Making, 2015, 15, 10. | 3.0 | 15 |
| 70 | WebDISCO: a web service for distributed cox model learning without patient-level data sharing. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1212-1219. | 4.4 | 104 |
| 71 | Differentially Private Histogram Publication for Dynamic Datasets. , 2015, 2015, 1001-1010. | | 34 |
| 72 | Privacy Preserving RBF Kernel Support Vector Machine. BioMed Research International, 2014, 2014, 1-10. | 1.9 | 22 |

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| 73 | pSCANNER: patient-centered Scalable National Network for Effectiveness Research. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 621-626. | 4.4 | 80 |
| 74 | DPSynthesizer. Proceedings of the VLDB Endowment, 2014, 7, 1677-1680. | 3.8 | 35 |
| 75 | A community assessment of privacy preserving techniques for human genomes. BMC Medical Informatics and Decision Making, 2014, 14, S1. | 3.0 | 44 |
| 76 | Differentially Private Synthesization of Multi-Dimensional Data using Copula Functions. , 2014, 2014, 475-486. | | 15 |
| 77 | EXpectation Propagation LOGistic REgression (EXPLORER): Distributed privacy-preserving online model learning. Journal of Biomedical Informatics, 2013, 46, 480-496. | 4.3 | 60 |
| 78 | SHARE: system design and case studies for statistical health information release. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 109-116. | 4.4 | 29 |
| 79 | WebGLORE: a Web service for Grid LOGistic REgression. Bioinformatics, 2013, 29, 3238-3240. | 4.1 | 35 |
| 80 | Privacy-preserving heterogeneous health data sharing. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 462-469. | 4.4 | 40 |
| 81 | Structured Set Intra Prediction With Discriminative Learning in a Max-Margin Markov Network for High Efficiency Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1941-1956. | 8.3 | 4 |
| 82 | Privacy Technology to Support Data Sharing for Comparative Effectiveness Research. Medical Care, 2013, 51, S58-S65. | 2.4 | 30 |
| 83 | Identifying inference attacks against healthcare data repositories. AMIA Summits on Translational Science Proceedings, 2013, 2013, 262-6. | 0.4 | 9 |
| 84 | Differential-Private Data Publishing Through Component Analysis. Transactions on Data Privacy, 2013, 6, 19-34. | 1.0 | 11 |
| 85 | Genomes in the cloud: balancing privacy rights and the public good. AMIA Summits on Translational Science Proceedings, 2013, 2013, 128. | 0.4 | 3 |
| 86 | Calibrating predictive model estimates to support personalized medicine. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 263-274. | 4.4 | 95 |
| 87 | iDASH: integrating data for analysis, anonymization, and sharing. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 196-201. | 4.4 | 130 |
| 88 | A patient-driven adaptive prediction technique to improve personalized risk estimation for clinical decision support. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, e137-e144. | 4.4 | 19 |
| 89 | Grid Binary LOGistic REgression (GLORE): building shared models without sharing data. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 758-764. | 4.4 | 150 |
| 90 | A collaborative framework for Distributed Privacy-Preserving Support Vector Machine learning. AMIA ... Annual Symposium proceedings, 2012, 2012, 1350-9. | 0.2 | 5 |

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|----|--|----|-----------|
| 91 | Privacy-preserving SVM using nonlinear kernels on horizontally partitioned data. , 2006, , . | | 150 |