CURRICULUM VITAE
Hadi Kharrazi
Part I

PERSONAL DATA

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Designations:	MHI, MD, PhD, FAMIA, FACMI

EDUCATION AND TRAINING

2010	Interdisciplinary PhD in Health Informatics	
	Dalhousie University, Halifax, Canada	

2005   Masters of Health Informatics (MHI)
        Dalhousie University, Halifax, Canada

2003   Medical Doctorate (MD)
        Tehran/Iran University (IUMS), Tehran, Iran
        Medical License: #92174

PROFESSIONAL EXPERIENCE

2019-   Associate Professor
        Department of Health Policy and Management
        Johns Hopkins Bloomberg School of Public Health

2012-   Director
        DrPH Informatics Track
        Department of Health Policy and Management
        Johns Hopkins Bloomberg School of Public Health

2019-   Co-Director
        Center for Population Health Informatics Technology (CPHIT)
        Department of Health Policy and Management
        Johns Hopkins Bloomberg School of Public Health

2020-   Director
        PhD & MSc Research Programs
        General Internal Medicine, Biomedical Informatics and Data Sciences

Johns Hopkins School of Medicine

2012-	Co-Lead JHU ACG Research and Development Team *Johns Hopkins ACG Population Risk Stratification* *Johns Hopkins Bloomberg School of Public Health*
2012-2019	Assistant Professor Department of Health Policy and Management *Johns Hopkins Bloomberg School of Public Health*
2017-2019	Co-Director PhD Program *Division of Health Sciences Informatics* *Johns Hopkins School of Medicine*
2012-	Joint Appointment *Division of Health Sciences Informatics* *Johns Hopkins School of Medicine*
2020-	Associate Faculty Hopkins' Economics of Alzheimer's Disease & Services Center *Johns Hopkins School of Public Health*
2018-	Associate Faculty Armstrong Institute for Patient Safety and Quality *Johns Hopkins School of Medicine*
2017-	Affiliated Faculty Bloomberg American Health Initiative *Johns Hopkins School of Public Health*
2012-	Core Faculty Center for Health Services and Outcomes Research (CHSOR) *Johns Hopkins School of Public Health*
2012-2019	Research Director Center for Population Health Informatics Technology (CPHIT) *Johns Hopkins Bloomberg School of Public Health*
2008-2012	Assistant Professor *School of Informatics & Regenstrief Institute* *Indiana University Purdue University Indianapolis*
2005-2008	Principal Instructor [Lecturer] *School of Medicine & Business School* *Dalhousie University, Halifax, Canada*
2005-2008	Teaching & Research Assistant *School of Computer Sciences* *Dalhousie University, Halifax, Canada*

PROFESSIONAL ACTIVITIES

Memberships

2012-	Academy Health
2009-	National Institute of Health Informatics (NIHI), Canada
2005-	American Medical Informatics Association (AMIA)
2004-	Canada's Health Informatics Association (COACH), Canada
2016-2017	American Statistical Association (ASA)

Committees

2023- Friends of the National Library of Medicine (FNLM)
Board of Directors

2022- Maryland Suicide Fatality Review Committee
Office of Suicide Prevention; Maryland Department of Health

2021- Michigan Center for Contextual Factors in Alzheimer's Disease (MCCFAD)
External Advisory Board Member; University of Michigan

2012- Academy Health
Executive Committee: Health Information Technology Interest Group
Executive Committee: Population Health Community of Practice
Committee: Electronic Data Methods Forum

2005- American Medical Informatics Association (AMIA)
Elected Member: Membership and Outreach Committee (2018-2019)
Executive Committee: Public Health Informatics Working Group (2012-)
Member: Clinical Decision Support Working Group (2012-)
Member: Consumer Health Informatics Working Group (2012-)

2013- AMIA Presymposium – Population HIT WG (2013, 2014, 2017, 2019)
Chair / Co-Chair – Washington DC

2014- AMIA Presymposium – Visual Analytics in Healthcare (2014, 2017)
Co-Chair – Washington DC

2015-2015 DHHS – Office of the National Coordinator (ONC)
Exchange and Interoperability Measurement Community of Practice
Executive Committee Member

2013-2013 Health Affairs / Project Hope – Planning Committee
Special Issue: "Big Data: Potential Impact on Health Care and Research"
Invited Member – Washington DC

2013-2013 Wireless Health 2013 Conference (WHC13)
Planning Committee / Session Leader

2010-2012   Midwestern Conference on Health Games (MCHG)
                           Chair – Indianapolis

EDITORIAL ACTIVITIES

Editorial Contribution

2021-	Medical Care *Lippincott Williams & Wilkins* *Deputy (Associate) Editor*
2021-	Journal of the American Medical Informatics Association (JAMIA) Open *Oxford University Press* *Associate Editor*
2013-2014	Generating Evidence and Methods to Improve Patient Outcomes *Special Issue: "Lessons from the Field: Health-IT Enabled Community-Based Transformation"* *Academy Health / EDM Forum [eGEMs] / AHRQ* *[Guest] Co-Editor*

Editorial Board Membership

2018-2020	Journal of the American Medical Informatics Association (JAMIA) Open *Oxford University Press* *Editorial Board Member*
2017-	Population Health Management Journal *Mary Ann Libert Inc.* *Editorial Board Member*

Peer Review Activities – Journals

Academy Health
+ *Gen. Evidence & Methods to Improve Patient Outcomes (eGEMs)*

American College of Physicians
+ *Annals of Internal Medicine*
✽ *Received the 2020 Annals' Top Reviewer Recognition*
✽ *Received the 2019 Annals' Top Reviewer Recognition*
✽ *Received the 2018 Annals' Top Reviewer Recognition*

American Medical Association
+ *Journal of the American Medical Association (JAMA)*
+ *JAMA Open Network*

American Medical Information Association
+ *Journal of the American Medical Information Association (JAMIA)*
+ *JAMIA Open*
✽ *Received the 2019 JAMIA Open's Top Reviewer Recognition*

American Public Health Association

+ *American Journal of Public Health (AJPH)*

BioMed Central
+ *BMC Public Health*
+ *BMC Health Services Research (HSR)*
+ *BMC Medical Research Methodology (MRM)*
+ *BMC Medical Informatics and Decision Making (MIDM)*

BMJ Publishing Group
+ *BMJ Open*

Dove Press
+ *Clinical Epidemiology*
+ *Risk Management and Healthcare Policy*

Elsevier
+ *Artificial Intelligence in Medicine (AIM)*
+ *Health Care: The Journal of Delivery Science and Innovation (HJDSI)*

Lippincott Williams & Wilkins
+ *Medical Care*
+ *Journal of Patient Safety (JPS)*

Mary Ann Libert
+ *Population Health Management (PHM)*

Project Hope
+ *Health Affairs*

Public Library of Science
+ *PLoS One*

Springer Verlag
+ Nature Research
✱ *Top 10% of Nature Research reviewers   2020*

Society of General Internal Medicine
+ *Journal of General Internal Medicine (JGIM)*

Peer Review Profile:
https://www.webofscience.com/wos/author/record/110650

Review of Proposals

2022   NIH CDMA (Clinical Data Management and Analysis Study Section)
                National Institute of Health
                https://grants.nih.gov/grants/guide/pa-files/PA-20-185.html
                https://grants.nih.gov/grants/guide/pa-files/PA-20-195.html
                https://grants.nih.gov/grants/guide/pa-files/PAR-21-038.html
                https://grants.nih.gov/grants/guide/pa-files/PAS-21-215.html
                https://grants.nih.gov/grants/guide/pa-files/PAR-20-179.html

2021   NIMH SERV (Mental Health Services Research Committee)
                National Institute of Mental Health
                https://grants.nih.gov/grants/guide/pa-files/par-17-264.html
                https://grants.nih.gov/grants/guide/pa-files/par-18-929.html

2019   AHRQ Data Analytics SEP (Special Emphasis Panel: ZHS1-HSR-D02)
                Agency for Healthcare Research and Quality
                https://grants.nih.gov/grants/guide/rfa-files/RFA-HS-19-002.html

2018   NIH-NIDDK SEP (Special Emphasis Panel: ZDK1 GRB-1 M1)
                National Institute of Health
                PARs on Pragmatic Research and Natural Experiments

2018   NIDA SBIR Phase II (Special Emphasis Panel: ZDA1 JXB-N32)
                National Institute of Health
                Small Business Innovation Research (SBIR): Analytical Tools for Biomedical Research

2015   inHealth Funding Opportunity
                Johns Hopkins University

2012   Sustainable and Collaborative Informatics Projects (SCIP)
                Indiana University (School of Medicine, Regenstrief Institute)

2011   Multidisciplinary Undergraduate Research Institute (MURI)
                Indiana University (Center for Research and Learning)

Standing Membership of Federal Review Committees*

2022-2026   NIMH SERV (Mental Health Services Research Committee)
                National Institute of Mental Health
                Eligible for continues submission privileges
                Eligible for late window considerations

** Offers made by programmer officers to join other study panels (e.g., NIH CDMA) as a standing member were declined
since NIH policies prohibits serving on more than one committee simultaneously.*

HONORS AND AWARDS

Awards

2022-2023	Team Science Award	*Johns Hopkins Institute for Clinical Translation Research*

2022-2023   Team Science Award
        Johns Hopkins Institute for Clinical Translation Research

2019-2020   Technology Transfer Award (#2)
        Johns Hopkins School of Public Health

2017-2018   Technology Transfer Award (#1)
        Johns Hopkins School of Public Health

2016   HIMSS Book of the Year Award (Chapter Contribution)
        Healthcare Information and Management Systems Society

2016   Dr. Robert Lewis Kane Memorial Award (Report)
        Agency for Healthcare Research and Quality (AHRQ)

2013-2014   Faculty Innovation Fund Award
        Johns Hopkins School of Public Health

2010-2011   IUPUI Research RTR Award
        Indiana University Purdue University Indianapolis

2010-2011   IUPUI Curriculum Enhancement Teaching & Conference Awards
        Indiana University Purdue University Indianapolis

2006-2008   CIHR Doctoral Award
        Canadian Institute for Health Research

2004-2006   NSHRF Initiative Award
        Nova Scotia Health Research Foundation

Honors – Scientific Fellowships

2022-   ✸ Fellow (elected), American College of Medical Informatics (FACMI)[1]

2019-   ✸ Fellow (selected), American Medical Informatics Association (FAMIA)[2]

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[1] ACMI (American College of Medical Informatics) is a college of elected fellows who have made significant and sustained contributions to the field of biomedical and/or population health informatics both nationally and internationally. Informaticians from all countries are eligible for election to ACMI fellowship. Nomination to ACMI fellowship is invitation-only (no self-nominations) by other fellows. Approximately 10 fellows have been elected annually to the prestigious ACMI since 1984. More information about FACMI can be found at this link.

[2] Fellows of the American Medical Informatics Association are recognized for their contributions and professional accomplishments who apply informatics skills and knowledge to their practice – be that in a clinical setting, a public or population health capacity, or as a clinical researcher. AMIA fellowship started in 2018 and uses a self-nomination process. Applicants are reviewed by other AMIA fellows. More information about FAMIA can be found at this link.

Honors – Scientific Productivity

2021-2022	Top 2% of highly cited scientists in Health/Medical Informatics *Ranked 194 by Scopus among 14,978 health informatics scientists*
2020-2021	Top 2% of highly cited scientists in Health/Medical Informatics *Ranked 212 by Scopus among 14,904 health informatics scientists* *https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/5*

Honors – Teaching

2021-2022	Excellence in Teaching AY21-22 4th Term *Johns Hopkins Bloomberg School of Public Health* *Course: Population Health Analytic Methods and Visualization Techniques (309.635.81)*
2020-2021	Excellence in Teaching AY20-21 4th Term *Johns Hopkins Bloomberg School of Public Health* *Course: Population Health Analytic Methods and Visualization Techniques (309.635.81)*
2019-2020	Excellence in Teaching AY19-20 4th Term *Johns Hopkins Bloomberg School of Public Health* *Course: Population Health Analytic Methods and Visualization Techniques (309.635.81)*
2017-2018	Excellence in Teaching AY17-18 3rd Term *Johns Hopkins Bloomberg School of Public Health* *Masters of Population Health Management (OPAL)* *Course: Population and Consumer Health Informatics (602.731.86)*

PUBLICATIONS [3]

Journal Articles (peer-reviewed)

1   Hatef E, Kitchen C, Pandya C, **Kharrazi H**. Assessing patient and community-level social factors: the synergistic effect of social needs and social determinants of health on healthcare utilization at a multilevel academic healthcare system. *J Med Syst*. 2023; 47(1): 95.
    PMID: 37656284 DOI: 10.1007/s10916-023-01990-9

2   Zolnour A, Eldredge CE, Faiola A, Yaghoobzadeh Y, Khani M, Foy D, Topaz M, **Kharrazi H**, Fung KW, Fontelo P, Davoudi A, Tabaie A, Breitinger SA, Oesterle TS, Rouhizadeh M, Zonnor Z, Moen H, Patrick TB, Zolnoori M. A risk identification model for detection of patients at risk of antidepressant discontinuation. *Front Artif Intell*. 2023; 6(1229609).
    PMID: 37693012 DOI: 10.3389/frai.2023.1229609

3   Han E*, **Kharrazi H**, Shi L. Identifying predictors of nursing home admission using electronic health records and administrative data: A scoping review. *JMIR Aging*. 2023 [in-press]
    PMID: TBA DOI: TBA

4   Susukida R, Nestadt PS, **Kharrazi H**, Wilcox HC. Prevalence and correlates of opioid-involved suicides in Maryland. *Arch of Suicide Res*. 2023 [in-press]
    PMID: 37143364 DOI: 10.1080/13811118.2023.2207612

5   Cai CX*, Tran D, Tang T, Liou W, Harrigian K, Scott E, Nagy P, **Kharrazi H**, Crews DC, Zeger SL. Health disparities in lapses in diabetic retinopathy care. *Ophthalmology Science*. 2023; 3(3): 100295.
    PMID: 37063252 DOI: 10.1016/j.xops.2023.100295

6   Lasser E*, Gudzune K, Lehmann H, **Kharrazi H**, Weiner JP. Trends and patterns of social and behavioral determinants of health data collection within an electronic health record. *Popul Health Manag*. 2022; 26(1): 13-21.
    PMID: 36607903 DOI: 10.1089/pop.2022.0209

7   Mannie C*, Strydom S, **Kharrazi H**. Measuring the geographic disparity of comorbidity in commercially insured individuals compared to the distribution of physicians in South Africa. *BMC Fam Pract*. 2022; 23(1): 286.
    PMID: 36397001 DOI: 10.1186/s12875-022-01899-1

8   Liu S*, Ding X, Belouali A, Bai H, Raja K, **Kharrazi H**. Assessing the racial and socioeconomic disparities in postpartum depression using population-level hospital discharge data: a longitudinal retrospective study. *JMIR Pediatr Parent*. 2022; 5(4): e38879.
    PMID: 36103575 DOI: 10.2196/38879

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[3] **Kharrazi**: first/senior author; **Kharrazi**: co-author

*: mentored [student/fellow] publications

9   Pandya C, Wu J, Hatef E, Richards TM, Weiner JP, **Kharrazi H**. Impact of social needs in electronic health records and claims on health care utilization and costs risk-adjustment models within Medicaid population. *Popul Health Manag.* 2022; 25(5): 658-668.
        PMID: 35736663   DOI: 10.1089/pop.2022.0069

10   Belouali A*, Bai H, Raja K, Liu S, Ding X, **Kharrazi H**. Impact of social determinants of health on improving the LACE index for 30-day unplanned readmission prediction. *JAMIA Open.* 2022; 5(2): ooac046.
        PMID: 35702627   DOI: 10.1093/jamiaopen/ooac046

11   Chang HY, Kitchen C, Bishop M, Shermock KM, Gudzune K, **Kharrazi H**, Weiner JP. Claims-based pharmacy markers for comprehensive medication management program case identification: validation against concurrent and prospective healthcare costs and utilization. *Res Social Adm Pharm.* 2022; S1551-7411(22): 00148-6.
        PMID: 35550347   DOI: 10.1016/j.sapharm.2022.04.006

12   Wang HE*, Landers M, Adams R, Subbaswamy A, **Kharrazi H**, Gaskin DJ, Saria S. Identifying bias in health care predictive models: Development of a modeling bias screening checklist and its pilot application for 30-day hospital readmission models. *J Am Med Inform Assoc.* 2022; 29(8): ocac065.
        PMID: 35579328   DOI: 10.1093/jamia/ocac065

13   Madlock-Brown C, Wilkens K, Weiskopf N, Cesare N, Bhattacharyya S, Riches NO, Espinose J, Dorr D, Goetz K, Phuong J, Sule A, **Kharrazi H**, Liu F, Lemon C, Adams WG. Clinical, social, and policy factors in COVID-19 cases and deaths: methodological considerations for feature selection and modeling in county-level analyses. *BMC Public Health.* 2022; 22(1): 747.
        PMID: 35421958   DOI: 10.1186/s12889-022-13168-y

14   Kitchen C, Chang HY, Weiner JP, **Kharrazi H**. Assessing the added value of vital signs extracted from electronic health records in healthcare risk adjustment models. *Risk Manag Healthc Policy.* 2022; 15(eCollection): 1671-1682.
        PMID: 36092549   DOI: 10.2147/RMHP.S356080

15   Howson SN, McShea MJ, Ramachandran R, Burkom HS, Chang HY, Weiner JP, **Kharrazi H**. Improving the prediction of persistent high healthcare utilizers: using an ensemble methodology. *JMIR Med Inform.* 2022; 10(3): e33212.
        PMID: 35275063   DOI: 10.2196/33212

16   Ferris LM*, Weiner JP, Saloner B, **Kharrazi H**. Comparing person-level matching algorithms to identify risk across disparate datasets among patients with a controlled substance prescription: retrospective analysis. *JAMIA Open.* 2022; 5(1): ooac020.
        PMID: 35571361   DOI: 10.1093/jamiaopen/ooac020

17   Yuan CT, Dy SEM, Lai AY, Oberlander T, Hannum SM, Lasser EC, Heughan JA, Dukhanin V, **Kharrazi H**, Kim JM, Gurses AP, Bittle M, Scholle SH, Marsteller JA. Challenges and strategies for patient safety in primary care: A qualitative study. *Am J Med Qual.* 2022; 37(5):

379-387
PMID: 35404306 DOI: 10.1097/jmq.0000000000000054

18   Susukida R, Amin-Esmaeili M, Ryan TC, **Kharrazi H**, Wilson RF, Musci RJ, Zhang A, Wissow L, Robinson KA, Wilcox HC. Ineligibility for and Refusal to Participate in Randomized Controlled Trials That Have Studied Impact on Suicide-Related Outcomes in the United States: A Meta-Analysis. *J Clin Psychiatry*. 2022; 83(2): 20r13798.
PMID: 35172049 DOI: 10.4088/JCP.20r13798

19   Hatef E, Nau C, Rouhizadeh M, Xie F, Rouillard C, Padilla A, Lyons LJ, **Kharrazi H**, Weiner JP, Abu-Nasser M, Roblin D. Assessing the documentation of social needs in electronic health records' unstructured data: A comparison of three integrated healthcare delivery systems. *JAMIA Open*. 2022; 5(1): ooac006.
PMID: 35224458 DOI: 10.1093/jamiaopen/ooac006

20   Kitchen C, Chang HY, Bishop M, Shermock KM, **Kharrazi H**, Weiner JP. Comparing and validating medication complexity from insurance claims against electronic health records. *J Manag Care Spec Pharm*. 2022; 28(4): 473-484.
PMID: 35332787 DOI: 10.18553/jmcp.2022.28.4.473

21   Durojaiye AB*, Fackler JC, McGeorge N, Webster K, **Kharrazi H**, Gurses AP. Examining diurnal differences in multidisciplinary care teams at a pediatric trauma center using EHR data: Social network analysis. *J Med Internet Res*. 2022; 24(2): e30351
PMID: 35119372 DOI: 10.2196/30351

22   Vest J, Adler-Milstein J, Gottlieb LM, Bian J, Campion T, Cohen G, Donnelly N, Harper J, Heurta T, Kansky J, **Kharrazi H**, Khurshid A, Kooreman H, McDonnell C, Overhage M, Pantell M, Parisi W, Shenkman E, Tierney B, Wiehe S, Harle CA. Identification and assessment of structured data elements to support social risk factor computable phenotyping: an expert panel. *Am J Manag Care*. 2021; 28(1): e14-e23
PMID: 35049262 DOI: 10.37765/ajmc.2022.88816

23   **Kharrazi H**, Chang HY, Weiner JP, Gudzune KA. Assessing the added value of blood pressure information derived from electronic health records in predicting health care cost and utilization. *Popul Health Manag*. 2021; 25(3): 323-334
PMID: 34847729 DOI: 10.1089/pop.2021.0250

24   Nair SS, Li C, Doijad R, Nagy P, Lehmann H, **Kharrazi H**. A scoping review of knowledge authoring tools used for developing computerized clinical decision support systems. *JAMIA Open*. 2021; 4(4): 1-15.
PMID: 34927003 DOI: 10.1093/jamiaopen/ooab106

25   Ramachandran R, McShea MJ, Howson SN, Burkom HS, Chang H-Y, Weiner JP, **Kharrazi H**. Assessing the value of unsupervised clustering in detecting key classes of diagnostic and medication codes to improve the prediction of persistent high healthcare utilizers. *JMIR Med Inform*. 2021. 9(11): e31442.

PMID: 34592712 DOI: 10.2196/31442

26   Hatef E, Ma X, Shaikh Y, **Kharrazi H**, Weiner JP, Gaskin DJ. Internet access, social risk factors, and web-based social support seeking behavior: assessing correlates of the "digital divide" across neighborhoods in the state of Maryland. *J Med Syst*. 2021; 45: 94.
PMID: 34537892 DOI: 10.1007/s10916-021-01769-w

27   Hatef E, Deol GS, Rouhizadeh M, Lasser E, Tansky L, Li A, Richards T, Bratslaver R, Eibensteiner K, Senese M, Monsen C, **Kharrazi H**. Measuring the value of a practical text-mining approach to identify patients with housing issues in the free-text notes in electronic health record: Findings of a retrospective cohort study. *Front Public Health*. 2021; 9(697501) 1-11
PMID: 34513783 DOI: 10.3389/fpubh.2021.697501

28   Kitchen C, Hatef E, Chang H-Y, Weiner JP, **Kharrazi H**. Assessing the association between area deprivation index on COVID-19 prevalence: a contrast between rural and urban U.S. jurisdictions. *AIMS Public Health*. 2021
PMID: 34395702 DOI: 10.3934/publichealth.2021042

29   Afshar AS, Li Y, Chen Z, Chen J, Lee J, Irani D, Singh D, Kanter M, Faraday N, **Kharrazi H**. An exploratory data quality analysis of time series physiologic signals using a large-scale intensive care unit database. *JAMIA Open*. 2021; 4(3): 1-6
PMID: 34350392 DOI: 10.1093/jamiaopen/ooab057

30   Haroz E, Kitchen C, Nestadt PS, Wilcox H, DeVylder JE, **Kharrazi H**. Comparing the predictive value of screening to the use of electronic health record data for detecting future suicidal thoughts and behavior in an urban pediatric emergency department: a preliminary analysis. *Suicide Life Threat Behav*. 2021; 51(6): 1189-1202
PMID: 34515351 DOI: 10.1111/sltb.12800

31   Chang HY, Tang W, Hatef E, Kitchen C, Weiner JP, **Kharrazi H**. Differential impact of mitigation policies and socioeconomic status on COVID-19 prevalence and social distancing in the United States. *BMC Public Health*. 2021; 21: 1140
PMID: 34126964 DOI: 10.1186/s12889-021-11149-1

32   Pandya C, Chang HY, **Kharrazi H**. Electronic health record-based risk stratification: A potential key ingredient to achieving value-based care. *Popul Health Manag*. 2021; 24(6): 654-656
PMID: 34129398 DOI: 10.1089/pop.2021.0131

33   Sharifzadeh N*, Tabesh H, **Kharrazi H**, Tara F, Kiani F, Jangi M, Rasoulian M, Mirteimoori M, Tara M. PLS (Play and Learn for Surgeons): A Serious Game to Educate Medical Residents in Uterine Artery Ligation Surgery. *Games Health J*. 2021; 10(4): 220-227
PMID: 34264757 DOI: 10.1089/g4h.2020.0220

34   Karami A, Dahl AA, Shaw G Jr, Valappil SP, Turner-McGrievy G, **Kharrazi H**, Bozorgi P. Analysis of Social Media Discussions on (#)Diet by Blue, Red, and Swing States in the U.S. *Healthcare (Basel)*. 2021 Apr 29; 9(5): 518.
PMID: 33946659 DOI: 10.3390/healthcare9050518

13

35   Bishop MA, Chang HY, Kitchen C, Weiner JP, **Kharrazi H**, Shermock KM. Development of measurable criteria to identify and prioritize patients for inclusion in comprehensive medication management programs within primary care settings. *J Manag Care Spec Pharm.* 2021; 27(8): 1009-1018
PMID: 34337988   DOI: 10.18553/jmcp.2021.27.8.1009

36   Hatef E, Kitchen C, Chang HY, **Kharrazi H**, Tang W, Weiner JP. Early relaxation of community mitigation policies and risk of COVID-19 resurgence in the United States. *Prev Med.* 2021; 145(106435): 1-5.
PMID: 33486000   DOI: 10.1016/j.ypmed.2021.106435

37   Yuan CT, Lai AY, Benishek LE, Marsteller JA, Mahabare D, **Kharrazi H**, Dy SEM. A double-edged sword: The effects of social network ties on job satisfaction in primary care organizations. *Health Care Manage Rev.* 2021; 47(3): 180-187
PMID: 33965998   DOI: 10.1097/hmr.0000000000000314

38   **Kharrazi H**, Ma X, Chang H-Y, Richards TR, Jung C. Comparing the predictive effects of patient medication adherence indices in EHR and claims-based risk stratification models. *Popul Health Manag.* 2021; 24(5): 601-609
PMID: 33544044   DOI: 10.1089/pop.2020.0306

39   Ferris LM*, Saloner B, Jackson K, Lyons C, Murthy V, **Kharrazi H**, Latimore A, Stuart EA, Weiner JP. Performance of a predictive model versus prescription-based thresholds in identifying patients at risk of fatal opioid overdose. *Subst Use Misuse.* 2021; 56(3): 396–403
PMID: 33446000   DOI: 10.1080/10826084.2020.1868520

40   Lasser EC*, Kim JM, Hatef E, **Kharrazi H**, Marsteller JA, DeCamp LR. Social and behavioral variables in the electronic health record: a path forward to increase data quality and utility. *Acad Med.* 2021; 96(7): 1050-1056
PMID: 33735133   DOI: 10.1097/ACM.0000000000004071

41   Jackman K*, Kane J, **Kharrazi H**, Johnson RM, Latkin C. Psychometrics of the Patient Portal Sexual Health Instrument: measuring attitudes toward using patient portals for sexual health behaviors among sexual minority men. *JMIR Med Inform.* 2021; 23(2): e18750
PMID: 33565987   DOI: 10.2196/18750

42   Mannie C*, **Kharrazi H**. Assessing the geographical distribution of comorbidity among commercially insured individuals in South Africa. *BMC Public Health.* 2020; 20(1): 1709
PMID: 33198704   DOI: 10.1186/s12889-020-09771-6

43   Jackman K*, Dangerfield DT, Yang C, Trent M, **Kharrazi H**, Johnson RM, Latkin C. Behavioral intentions to use patient portals to disclose HIV and other sexually transmitted infection testing histories with sexual partners among U.S. sexual minority men. *AIDS and Behav.* 2020; 25(4): 1199-1209
PMID: 33185776   DOI: 10.1007/s10461-020-03092-w

44   Messino PJ*, **Kharrazi H**, Kim J, Lehmann H. A method for measuring the effect of certified

electronic health record technology (CEHRT) on childhood immunization status scores among Medicaid managed care network providers. *J Biomed Inform*. 2020; 110(103567): 1-12
PMID: 32927058 DOI: 10.1016/j.jbi.2020.103567

45   Chang HY, Hatef E, Ma X, Weiner JP, **Kharrazi H**. Impact of Area Deprivation Index on the performance of claims-based risk adjustment models in predicting healthcare costs and utilization. *Popul Health Manag*. 2020; 24(3):403-411
PMID: 33434448 DOI: 10.1089/pop.2020.0135

46   Hatef E, Chang H-Y, Kitchen C, Weiner JP, **Kharrazi H**. Assessing the impact of neighborhood socioeconomic characteristics on COVID-19 prevalence across seven states in the United States. *Front Public Health*. 2020; 8(571808) 1-7
PMID: 33072710 DOI: 10.3389/fpubh.2020.571808

47   Bery A*, Anzaldi LJ, Boyd CM, Leff B, **Kharrazi H**. Potential value of electronic health records in capturing data on geriatric frailty for population health. *Arch Gerontol Geriatr*. 2020; 91:104224
PMID: 32829083 DOI: 10.1016/j.archger.2020.104224

48   Tan M, Hatef E, Taghipoor E, Vyas K, **Kharrazi H**, Gottlieb L, Weiner JP. Including social and behavioral determinants in predictive models: trends, challenges, and opportunities. *JMIR Med Inform*. 2020; 8(9) e18084
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8   **Kharrazi H**, Horrocks D, Weiner JP. Use of HIEs for value-based care delivery: a case study of Maryland's HIE. In Dixon B (Ed.) *Health Information Exchange: Navigating and Managing a Network of Health Information Systems*. 2016; 313-332. Cambridge, MA: Academic Press Elsevier. ISBN: 978-0-12-803135-3
URL 1: https://www.elsevier.com/books/health-information-exchange/dixon/978-0-12-803135-3
URL 2: www.amazon.com/Health-Information-Exchange-Navigating-Managing/dp/0128031352

9   Lu AS, **Kharrazi H**, Baranowski T. Digital games for nutrition and healthy eating: a systematic review. In Dadaczynski K, Schiemann S & Paulus P (Eds.), *Health promotion through gaming? Potentials and challenges of digital games for health promotion and prevention* (in German). 2016; 261-281. Basel, Germany: Beltz Juventa. ISBN: 978-3-7799-3342-7
URL: https://www.beltz.de/fachmedien/erziehungs_und_sozialwissenschaften/buecher/produkt_produktdetails/30471-gesundheit_spielend_foerdern.html

10   Faiola A, **Kharrazi H**. Diabetes education and serious gaming: teaching adolescents to cope with diabetes. In Hayes B & Aspray W (Eds.), *Health Informatics: A Patient-Centered Approach to Diabetes.* 2010; 151-177. Cambridge, MA: MIT Press. ISBN: 978-0-262-01432-8
URL: http://mitpress.mit.edu/books/health-informatics

11   Watters C, Oore S, **Kharrazi H**. Games for children with long-term problems. In Kaufman D & Sauvé L (Eds.), *Educational Gameplay and Simulation Environments.* 2010; 286-302. Hershey, NY: Information Science Reference. ISBN: 978-1-616-92242-9
URL: http://www.igi-global.com/book/educational-gameplay-simulation-environments/37262

Reports

1   Stewart M, Rosen M, **Kharrazi H**, Vass M, Zhang A, Sharma R, Bass E. Patient Safety Practices to Address Harms Resulting from Patient-Clinician Real-Time Clinical Encounters using Video-based Telehealth: A Rapid Evidence Review. *Agency for Healthcare Research and Quality (AHRQ).* 2023 [in-press]

2   Hatef E, Wilson RF, Hannum SM, Zhang A, **Kharrazi H**, Weiner JP, Davis SA, Robinson KA. Use of Telehealth During the COVID-19 Era. Systematic Review. *Agency for Healthcare Research and Quality (AHRQ).* Jan 2023. Contract No. 75Q80120D00003. AHRQ Publication No. 23-EHC005.
DOI: 10.23970/ahrqepcsrcovidtelehealth

3   **Kharrazi H**, Roblin DW, Weiner JP. Developing and Assessing the Validity of Claims-based Indicators of Frailty & Functional Disabilities and Testing their Use in Other Data. *Agency for Healthcare Research and Quality (AHRQ).* Nov 2022. Contract No. 75Q80120D00015. AHRQ Publication No. 22-0058.
URL: https://www.ahrq.gov/sites/default/files/wysinyg/learning-health-systems/frailty-ehr.pdf

4   **Kharrazi H**, Hatef E, Lasser E, Woods B, Rouhizadeh M, Kim J, DeCamp L. A Guide to Using Data from Johns Hopkins Electronic Health Record: Identifying Research Needs and Assessing the Availability of Behavioral and Social Variables. Sep 2018. *Johns Hopkins School of Medicine ICTR National Center for Advancing Translational Sciences (NCATS).* Sep 2018. UL1 TR001079
URL: https://ictr.johnshopkins.edu/wp-content/uploads/Phase2.Epic_.Social.Guide_2018.06.30_final.pdf

5   Ford E, Kim J, **Kharrazi H**, Gleason K, Gumas D, DeCamp L. A Guide to Using Data from EPIC, MyChart, and Cogito for Behavioral, Social and Systems Science Research. *Johns Hopkins*

School of Medicine ICTR National Center for Advancing Translational Sciences (NCATS). Apr 2018. UL1 TR001079
URL: https://ictr.johnshopkins.edu/wp-content/uploads/Phase1.Epic_.Social.Guide_2018.04.30_final.pdf

6   Bennett W, Cheskin LJ, Wilson RF, Zhang A, Tseng E, Shogbesan O, Knapp EA, Stuart E, Bass EB, **Kharrazi H**. Methods for Evaluating Natural Experiments in Obesity: A Systematic Evidence Review. *Agency for Healthcare Research and Quality (AHRQ). Dec 2017. Contract No. 290-2012-00007-I. AHRQ Publication No. 18-EHC006-EF
URL 1: https://effectivehealthcare.ahrq.gov/sites/default/files/pdf/cer-204-obesity-prepublication.pdf
URL 2: https://www.ncbi.nlm.nih.gov/books/NBK493804
PMID: 29708675   DOI: 10.23970/AHRQEPCCER204

7   Wilcox H, Wissow L, **Kharrazi H**, Wilson RF, Musci RF, Zhang A, Robinson KA. Data Linkage Strategies to Advance Youth Suicide Prevention. *Agency for Healthcare Research and Quality (AHRQ). Oct 2016. Contract No. 290-2012-00007-I. AHRQ Publication No. 16(17)-E001-EF
URL1: https://www.ncbi.nlm.nih.gov/pubmed/30307734
URL2: https://www.ncbi.nlm.nih.gov/books/NBK390956/
DOI: 10.23970/AHRQEPCERTA222

        ✭ *Received AHRQ's "Dr. Robert Lewis Kane Memorial Award"*

8   Sorace J, Patel V, **Kharrazi H**, Boone E, Kemper N, Rafiqi F, Yencha R, Samarth A. Measurement of Interoperable Electronic Health Care Records Utilization. *Office of the Assistant Secretary for Planning and Evaluation (ASPE). Aug 2016. Contract No. HHSP233201500099I_HHSP23337001. ASPE Publication No. 255526
URL: https://aspe.hhs.gov/sites/default/files/pdf/255526/EHRUtilizationReport.pdf

9   **Kharrazi H**. Evaluation of Stage 3 Meaningful Use Objectives: Maryland and Arkansas. *Agency for Healthcare Research and Quality (AHRQ). Apr 2015. Contract No. HHSA 290-2010-00027-I. AHRQ Publication No. 15-0032-EF
URL: https://healthit.ahrq.gov/sites/default/files/docs/citation/evaluation-stage-3-meaningful-use-md-ar-final-report.pdf

Other Publications (invited editorials, letters, and consortia authorships)

1   Bennett TD, et al. [**Kharrazi H** – part of the N3C Consortium group authors]. Clinical Characterization and Prediction of Clinical Severity of SARS-CoV-2 Infection Among U.S. Adults Using Data from the U.S. National COVID Cohort Collaborative. *JAMA Netw Open.* 2021 Jul 1; 4(7): e2116901
PMID: 34255046   DOI: 10.1001/jamanetworkopen.2021.16901

2   Staes CJ, Jellison J, Kurilo MB, Keller R, **Kharrazi H**. Response to authors of 'Barriers to Hospital Electronic Public Health Reporting and Implications for the COVID-19 Pandemic'. *J Am Med Inform Assoc.* 2020; 27(11): 1821-1822
PMID: 33001156   DOI: 10.1093/jamia/ocaa191

3   Haendel M, et al. [**Kharrazi H** – part of the N3C Consortium group authors]. The National

COVID Cohort Collaborative (N3C): rationale, design, infrastructure, and deployment. *J Am Med Inform Assoc*. 2020; 28(3): 427-443
PMID: 32805036 DOI: 10.1093/jamia/ocaa196

4   **<u>Kharrazi H</u>**, Gudzune K, Weiner JP. A population health segmentation framework for balancing medical need and COVID-19 risk during and after the pandemic. Health Affairs (HAff). 2020
URL: link

5   Chang H-Y, **Kharrazi H**, Weiner JP. JHU CPHIT team details costs, predictors of opioid abuse. *Predictive Modeling News*. 2018; 11 (6): 1, 6-7.
URL: http://www.predictivemodelingnews.com

6   Kan HJ, **Kharrazi H**, Weiner JP. Hopkins researchers validate using senior risk factors to predict utilization. *Predictive Modeling News*. 2018; 11 (4); 1, 4-6.
URL: http://www.predictivemodelingnews.com

7   **<u>Kharrazi H</u>**, Weiner JP. A practical comparison between the predictive power of population-based risk stratification models using data from EHRs versus administrative claims: setting a baseline for future EHR-derived risk stratification models. *Med Care*, 2017; 56(2), 202-203
PMID: 29200132 DOI: 10.1097/MLR.0000000000000849

8   **<u>Kharrazi H</u>**, Chang H-Y, Weiner JP. Hopkins team sees risk stratification value in Rx fill data. *Predictive Modeling News*. 2017; 10 (11); 1, 4-5.
URL: http://www.predictivemodelingnews.com

9   **<u>Kharrazi H</u>**. The role of health IT in value-based care. *Management Rounds*. Johns Hopkins Master of Health Administration Program, 2015; 1 (10): 1-2
URL: MR_single_pages_August_28_2015.pdf

PRACTICE ACTIVITIES

Presentation to Policymakers

2014-2014	Population Health Informatics Agenda *Institute of Medicine, DC*
2014-2014	HIE-Centric Population Health Analytic Framework *Department of Health and Mental Hygiene, Baltimore MD*

Software Development

2015-2016	Free-text HIPAA Scrubber (completed)
2015-2016	Medication Complexity HOME Tool (completed)
2012-	eACGs (EHR-based ACGs; long-term development)

Media

1   **Kharrazi H**. (interview) in DST Health. Can populations be risk stratified using only EHR data? Apr 2018.
https://www.dstsystems.com/insights/hc-population-risk-stratified-ehr-data

2   **Kharrazi H**. (interview) in David R. Improving efficiency, quality through population health. Managed Healthcare Executive. Sep 2015.
http://managedhealthcareexecutive.modernmedicine.com/managed-healthcare-executive/news/improving-efficiency-quality-through-population-health

3   **Kharrazi H**. (interview). Games Studies Insight. Digital Games Research Center. Aug 2015.
http://direc.com/Uploads/GameStudiesInsightsNo4.pdf

4   **Kharrazi H**. (interview) in Haber G & Kessler B. Electronic medical records (EMRs) have security advantages, but systems aren't perfect. *York Daily Records*. Jun 2014.
http://www.ydr.com/local/ci_26004767/electronic-medical-records-have-security-advantages-but-systems

5   **Kharrazi H**. (interview) in Levin-Epstein M. Mobile health: Real game-changer. *Managed Care*. Oct 2013.
http://www.managedcaremag.com/archives/2013/10/mobile-health-real-game-changer

6   **Kharrazi H**. (interview) in 'Heart + Mind Strategies'. Innovations to improve the quality of healthcare in the United States. 2013.

7   **Kharrazi H**. (interview) in AHC Media. Games people play could be good for their health, sense of empowerment. Dec 2009.
https://www.ahcmedia.com/articles/115167-games-people-play-could-be-good-for-their-health-sense-of-empowerment

TEACHING

Advisees

Masters	Thesis Mentor or Capstone Supervisor		*(33 master students)*

2022-   Haibin Bai   MSc advisor and thesis supervisor
TBD

2022-   Kanimozhi Raja   MSc advisor and thesis supervisor
TBD

2021-   John Harry Munroe   MPH advisor and capstone supervisor
TBD

2020-   Anjali Srivastava   MPH advisor and capstone supervisor
TBD

2020-   Zachary Goldberg   MPH advisor and capstone supervisor
TBD

2020-   Shidin Balakrishnan   MPH advisor and capstone supervisor
TBD

2020-   Yuko Takiyoshi   MPH capstone supervisor
"What is the important factor for stroke upper limb paralysis recovery? A pilot study for developing model"

2017-   Masatoshi Ishikawa   MPH advisor and capstone supervisor
TBD

2017-   Amyna Husain   MPH advisor and capstone supervisor
"Using novel sources of data to determine the prevalence and factors associated with pediatric falls in Maryland"

2019-2021   Mukesh Hamal   DHSI MSc advisor and capstone supervisor
"Utilization of social determinants of health-related ICD-10-CM codes among hospitalized and emergency department patients in Maryland, United States, 2016–2018"

2019-2020   Carin Hitchens   MPH advisor and capstone supervisor
"The impact of social determinants of health on emergency department utilization: a systematic review"

2019-2020   Hana Schwartz   MPH capstone supervisor and practicum receptor
"Assessing the risk of bias among recent predictive model developments of emergency department utilization: a scoping review"

2019-2020   Wei Chen   Epi MSc thesis supervisor
"Predicting falls among older adults of Maryland using hospital discharges and geo-derived social data"

2017-2019   Joseph Mercado   DHSI MSc advisor and capstone supervisor
"Prevalence of Chronic Kidney Disease in the Maryland Area using HCUP data"

2016-2019	Gahyun Bahn	MPH advisor and capstone supervisor

"Postpartum infection as a predictor of utilization and cost: a retrospective study of Maryland hospital discharges"

2016-2019	Cristina Mannie	MPH advisor and capstone supervisor

"A geographical distribution of the health status and associated financial risk of commercially insured lives in 2016 and 2017 in South Africa: bridging the gap between population health management and public health"

2017-2018	Xiaomeng Ma	DHSI MSc advisor and capstone supervisor

"Geographical distribution of disease comorbidity among Maryland residents admitted to hospitals, 2013-2014"

2017-2018	Ariel Caldwell	MPH Epi/Biostat capstone supervisor

"Using B'FRIEND data and platform to develop and test predictive risk models for falls in elder adults"

2016-2018	Kristen Harvey	MPH advisor and capstone supervisor

"Electronic health records, primary care providers and burnout"

2016-2017	Takako Kanakubo	MPH-MBA advisor and capstone supervisor

"The requirement for Meaningful Use and cost-effectiveness of EHR in Japanese universal healthcare system"

2016-2017	Jimmy Small	MPH advisor and capstone supervisor

"Evaluation of priority case management member identification by a predictive model of patients at high-risk for future facility utilization for a Medicare advantage health plan in three counties of upstate New York"

2016-2017	Afifah Handayani	MPH capstone supervisor and practicum receptor

"A systematic review of readmission prediction models: An informatics perspective"

2015-2018	Kathryn Esper	MPH advisor and capstone supervisor

"Utilize population health data to propose a strategy for value-based care delivery models following industry research"

2014-2016	Virna Sales	MPH advisor and capstone supervisor

"Meaningful use of health information technology in cardiac surgery: developing real-time clinical registries"

2014-2015	Janani Veluchamy	MPH advisor and capstone supervisor

"Evaluating the AECS data systems and proposing a data flow to monitor patients through the continuum of care of diabetic retinopathy"

2015-2016	Sarah Youn	MPH advisor and capstone supervisor

"Measuring population health metrics based on existing population-wide data in Maryland: Challenges and opportunities"

2014-2016	Brett Cropp	DHSI MSc thesis supervisor

"Exploring the impact of HIE-based geo-data on 30-day hospital readmission"

2014-2015	Jeffrey Balsewicz	MPH advisor and capstone supervisor

"An analysis of potentially preventable emergency department visits in Illinois"

2013-2015	Matthew Swain	MPH advisor and capstone supervisor

"Assessing the utility of electronic health information exchange transaction data to predict 30-day hospitals readmissions"

2013-2014	Stella Ukaoma	MPH advisor and capstone supervisor

"Smartphone apps for breast cancer awareness and treatment: Health consumer needs and current apps available"

2013-2014	Oscar Minosco y de Cal	MPH advisor and capstone supervisor

"The HITECH act: Emerging issue for the healthcare professional"

| 2013-2014 | Shmuel Goldberg | MPH advisor and capstone supervisor |

"Leveraging the SHIN-NY (HIE) to advance the consumer m-health market"

| 2013-2014 | Senyo Norgbey | DHSI MSc capstone supervisor |

"Exploring the readiness for 'meaningful use' of EHRs among eligible hospitals: A feasibility study within a combined AHA annual survey and CMS attestation datasets"

Masters	Advisor, Practicum Preceptor, or Committee Member	*(12 master students)*
2018-2019	Ritu Doijad	DHSI MSc
2018-2019	Gan Shi	DHSI MSc
2017-2019	Colleen Line	MPH
2017-2019	Susan Whitfield	DHSI MSc
2017-2019	Allen Cassandra	DHSI MSc
2016-2018	Angela Chen	DHSI MSc
2016-2018	James Graziano	MPH
2014-2015	Mayank Patel	DHSI MSc
2014-2016	Adler Archer	DHSI MSc
2014-2015	Allyson Helmer	MPH
2013-2014	Damilola Onasanya	MPH
2013-2014	Yash Deo	MPH

Doctoral	Advisor or Thesis Mentor/Supervisor	*(17 doctoral students)*
2022-	Lingwei Xiang	DrPH advisor

TBD

| 2022- | Claudia Pulgarin | DrPH co-advisor |

TBD

| 2022- | Jefferson McMillan-Wilhoit | DrPH advisor |

TBD

| 2022- | Anas Belouali | PhD advisor and thesis mentor |

TBD

| 2021- | Ying Zhang | DrPH co-advisor and thesis mentor |

TBD

| 2021- | Monisola Malomo | DrPH co-advisor and thesis mentor |

TBD

| 2021- | Sile Yu | DrPH co-advisor (deferred matriculation to 2022) |

TBD

| 2020- | Eric [Weiqi] Liu | DrPH thesis mentor (Tsinghua Cohort) |

"The application of artificial intelligence in radiology management" (tentative)

| 2019- | Victor Bagwell | DrPH advisor and thesis mentor |

TBD

| 2018- | Keane Tzong | DrPH advisor and thesis mentor |

"The clinical value of unstructured electronic health record data in the diagnosis of Alzheimer's disease and related dementia"

2018-	Paulina Sosa	DrPH advisor and thesis mentor

"Conceptualizing and assessing health equity representation in COVID-19 dashboards and their effect on immediate public-health decision-making" (tentative)
✱ *Received the 2022 Charles Flagle Award from JHU*

2018-	Prince Baawuah	DrPH co-advisor and thesis co-mentor

"Individual and community-level factors associated with telehealth utilization among vulnerable Medicare beneficiaries during the COVID-19 pandemic"
✱ *Received the 2022 Pearl and Jeremiah German Scholarship*

2017-	Haoying (Echo) Wang	DrPH advisor and thesis mentor

"Bias in health services risk prediction models: conceptualizing and measuring bias in the context of all-cause 30-day hospital readmission risk models" (thesis defense scheduled for Dec 2022)
✱ *Received the 2022 Charles Flagle Award from JHU*

2017-	Jennifer Chase	DrPH advisor and thesis mentor

TBD

2016-	Priyanka Dua Sood	DrPH advisor and thesis mentor

"Assessing the effect of data quality in predicting healthcare utilization and potential disparities in outcomes of type 2 diabetes population using electronic health records and insurance claims"

2019-2020	Rebecca Hyde	HPM PhD advisor (medical leave)

2016-2018	Stella Liang	DrPH advisor (transferred to Drexel)

Doctoral	Thesis Committee Member	*(20+ doctoral students)*

2020-	Xiyu Ding	PhD thesis committee

TBD

2020-	Elizabeth (Bess) Nieto	DrPH thesis committee

TBD

2020-	Ting (Helen) He	DHSI PhD thesis committee

TBD

2019-	Eunkyung (Eileen) Han	DrPH thesis committee

"Integration of acute care and long-term care for older adults with incontinence: A nationwide study in South Korea"

2019-	Ahmed Elsayed	DrPH thesis committee

"Exploring the effect of density and proximity to healthcare services on high-utilizer status of residents of Maryland"

2019-	Shanshan Song	DHSI PhD thesis committee

* *Recipient of AMIA's 2022 LEAD Fund*

2018-	Ebele Okoli	DrPH thesis committee

"Assessing telemedicine care patterns and patient experiences in vulnerable populations in a large healthcare

delivery system during the COVID-19 pandemic"

2016-   Matt Castner   DrPH thesis committee
"Social determinants of health, access to care and suicide prediction models"

2017-2021   Ben Hamlin   DrPH thesis committee
"A consensus-based data quality decision model for patient reported outcome information in digital quality measurement programs"

2016-2021   Elyse Lasser   DrPH thesis committee
"Assessing social and behavioral data in electronic health records: availability, accuracy, and applicability"

2014-2020   Bowen Li   DHSI PhD thesis committee (incomplete)
"A deep learning based data-quality services framework for secondary uses of clinical data"

2016-2020   Supharerk (Pai) Thawillarp   DrPH thesis committee
"Assessment of Thailand HIV data quality and its impact to UNAIDS 90-90-90"

2016-2020   Harlan Pittell   PhD thesis committee
"Primary non-adherence to medication: new evidence from electronic health records"

2017-2019   Sarah Green Gensheimer   PhD thesis committee (topic changed)
"Association of housing insecurity indicators in electronic health records with utilization and health outcomes"

2015-2019   Lindsey Ferris   DrPH thesis committee
"Using Predictive Models and Linked Datasets to Understand Risk of Fatal Opioid Overdose"
✱ *Received the 2019 Extraordinary Women in Health IT Leadership Award*

2014-2018   Paul Messino   DrPH thesis committee
"The effect of achieving meaningful use among Maryland Medicaid managed care network providers on HEDIS childhood immunization status scores"

2013-2018   Ashimiyu Durojaiye   DHSI PhD thesis committee
"A novel approach for the investigation of multidisciplinary collaboration using social network analysis on electronic health record data"

2015-2017   Roza Vazin   PhD thesis committee (topic changed)
"Evaluation and description of the CRISP [Maryland's Statewide Health Information Exchange] encounter notification service"

2014-2016   Joy Lee   PhD thesis committee
"Patient-reported satisfaction and provider use of novel communication technologies"

2013-2015   Olatunde Animashaun   DrPH thesis committee (unfinished)

2014-2015   Remle Newton-Dame   DrPH thesis committee (unfinished)
"Obesity surveillance in the age of Big Data"

<u>PostDoc</u>   <u>Mentor</u>   *(4 post doctorates)*

2018-   Kevon Jackman   PostDoc co-mentor
"Worldwide electronic sexual health information notification and education (weSHINE)"

2016-2018   Kelly Searle   PostDoc co-mentor
"Identifying the geospatial distribution of obesity among the VA patients"

2016-2017	Claudia Nau	PostDoc co-mentor
	"Prevalence of obesity among VHA patients: A national demographic analysis"	
2015-2016	Kirill Dyagilev	PostDoc co-mentor
	"Predicting the trajectory of healthcare utilization among patients with type 2 diabetes"	

Others	Medical Students, Fellows, and Undergraduates	*(12 fellows)*
2021-	Steph Nothelle, MD	Gerontology; K-grant committee
2021-	Paul Nestadt, MD	Psychiatry; K-grant committee
2021-	Jacob Balin	MD research rotation
2020-	Cindy Cai, MD	Ophthalmology; K-grant committee
2019-	Aly Straus, MD	Gastroenterology; K-grant committee
2018-2020	Majid Shafiq, MD	Interventional Pulmonologist
	"Sub-phenotyping unexplained pleural effusion using cluster analysis"	
2019-2020	Daniel Shenker	Math BSc
2018-2019	Ashley Li	BME BSc
	"Data quality issues of demographics data in HCUP data"	
2017-2018	Christopher Britt	Fellowship: ENT Surgeon
	"Vestibular-Related Falls in Maryland: 2013-2015"	
2015-2017	Anand Bery	MD research rotation
	"A systematic review of the feasibility of implementing frailty measures in EHRs: Meaningful use implications"	
2015-2017	Laura Anzaldi	MD research fellowship
	"Predicting fall among Baltimore elderly residents"; "Developing 30-day hospital readmission prediction models" & "Extracting frailty concepts from medical records using natural language processing tools" & "Developing a PHI-scrubbing automated tool: Challenges and opportunities"	
2015-2016	Morgan Opie	Maryland Department of Health - CDC PHI
	Informatics Training In Place Program (i-TIPP)	
2017-2019	Kathryn Foti	Epi PhD
	"Improving hypertension control among U.S. adults nearing Medicare eligibility: future health implications"	
2017-2019	Sonia Sarkar	DrPH

Departmental Oral Participation (Departmental Proposal Defense)

2021	Paulina Sosa	DrPH
2021	Ebele Okoli	DrPH (alternate)
2021	Prince Baawuha	DrPH
2020	Haoying (Echo) Wang	DrPH
2020	Ben Hamlin	DrPH
2020	Matt Castner	DrPH
2019	Ahmed Elsayed	DrPH

2019	Supharerk (Pai) Thawillarp	DrPH
2019	Harlan Pittell	HPM PhD
2019	Sarah Green Gensheimer	HPM PhD
2017	Lindsey Ferris	DrPH
2016	Roza Vazin	HPM PhD
2014	Paul Messino	DrPH
2014	Joy Lee	HPM PhD

Preliminary Oral Participation (School Proposal Defense)

2021	Paulina Sosa	DrPH
2021	Prince Baawuha	DrPH
2021	Matt Castner	DrPH
2021	Haoying (Echo) Wang	DrPH
2020	Eunkyung (Eileen) Han	DrPH (alternate)
2020	Ahmed Elsayed	DrPH
2020	Ben Hamlin	DrPH
2018	Elyse Lasser	DrPH (alternate)
2019	Supharerk (Pai) Thawillarp	DrPH
2019	Harlan Pittell	HPM PhD
2019	Sarah Green Gensheimer	HPM PhD
2018	Ashimiyu Durojaiye	DHSI PhD
2017	Lindsey Ferris	DrPH
2016	Roza Vazin	HPM PhD
2015	Paul Messino	DrPH
2014	Joy Lee	HPM PhD

Final Oral Participation (Thesis Defense)

2021	Ben Hamlin	DrPH
2021	Elyse Lasser	DrPH
2020	Supharerk (Pai) Thawillarp	DrPH
2019	Lindsey Ferris	DrPH
2018	Paul Messino	DrPH
2014	Brad Smith	DrPH (alternate)
2014	Edrees Hanan	DrPH (alternate)

Non-JHU Academic Advisees

2019-2022	Bijan Farhoudi	PhD thesis committee @ U Calgary

"Using advanced deep-learning methods to analyze MRI data for epilepsy"
Academic Career: TBD

2021-2022	Jiwan Ghoseiri	High School Scholar @ Maryland

"Measuring quality of demographic data captured in hospital discharge reports"
✸ *Received the High School Scholar Competition @ AMIA 2022*

2018-2019	Daphnie Liu	High School Scholar @ Utah

"Discovering the unclassified suicide cases among undetermined drug overdose deaths using ML techniques"
Academic Career: BSc CS @ Stanford
✸ *Received the High School Scholar Competition @ AMIA 2019*

2015-2018	Suheila Sawesi	PhD thesis committee @ IU

"Reducing non-adherence aromatase inhibitors and Tamoxifen regimens among breast cancer patients"
Academic Career: Assistant Scientist @ Tufts University

2015-2018	Maryam Zolnoori	PhD thesis committee @ UWM

"Seeking support on Facebook: A content analysis of depression groups"
Academic Career: Assistant Scientist @ Mayo Clinic & Columbia University

2012-2016	Amir Karami	PhD thesis committee @ UMBC

"Fuzzy Approach Topic Models for Medical Corpus"
Academic Career: Assistant Professor @ University of South Carolina

2012-2013	Tamara Locke [Blue]	MSc thesis mentor @ IU

"Unlocking the potential use of video games in behavioral therapy in of young children with Attention Deficiency/Hyperactivity Disorder (ADHD)"

2012-2013	Sung Park	MSc thesis committee @ IU

"Exploring the patient identification process between Indianapolis emergency medical service (I-EMS) and Indiana network for patient care (INPC)"

2011-2012	Stu Morton	PhD thesis committee @ IU

"An improved utility driven approach towards k-anonymity using data constraint rules"

2011-2012	Wilfred Portillo	MSc thesis mentor @ IU

"Mobile technology to improve adherence in patients with diabetes: A systematic review"

2010-2012	Lynn Vincz	MSc thesis mentor @ IU

"Increasing physical activity by implementing a behavioral change intervention using information technology"

2010-2012	Uche Unogu	MSc thesis mentor @ IU

"Building a social network-oriented web based personal health record to increase physical activity"

2009-2011	Nick Adam Stepp	MSc thesis committee @ IU

"The personal health record: Helping to create an attitude for use by comparing and contrasting provider and consumer perceptions"

2009-2011	Fardad Gharghabi	MSc thesis committee @ IU

2009-2011	Wei Kong	MSc thesis committee @ IU

"Exploring health website users by web mining"

2011-2013	Kislaya Kunjan	PhD advisor @ IU
2011-2012	Joe Clark	BSc mentor @ IU
2010-2012	Abdul Jabour	PhD advisor @ IU

2009-2011	Ziad Khader	PhD advisor @ IU
2009-2011	Douglas Rammel	PhD advisor @ IU
2009-2011	Saeed Mehrabi	PhD advisor @ IU
2009-2010	Prathik Gadde	MSc thesis committee @ IU

"Developing a robotic test bed for monitoring and increasing exercise adherence in older adults"

2009-2010	Heather Coates	MSc thesis committee @ IU

"Exploring the exchange of social support within the social networks of maternal caregivers for children diagnosed with an autism spectrum disorder"

2008-2010	Christine BenMessaoud	MSc thesis committee @ IU

"Uncovering the causes of the slow adoption of robotic surgery"

Classroom Instruction

2020-	**Population Health: Analytic Methods and Visualization Techniques**
	Johns Hopkins School of Public Health
	Role: **Principal Instructor**
	Type: *Graduate course*
	Tasks: *Developed the curriculum*
	Developed educational content

2020-   Health Informatics Research Methods & Mentored Research
Johns Hopkins School of Medicine
Role: **Principal Instructor**
Type: *Graduate course*
Tasks: *Developed the curriculum*
                Developed educational content

2017-   Population and Consumer Health Informatics (OPAL)
Johns Hopkins School of Public Health
Role: **Principal Instructor**
Type: *Graduate course for MAS PHM*
Tasks: *Developed the curriculum*
                Developed educational content

2012-   Population Health Informatics
Johns Hopkins School of Public Health
Role: **Principal Instructor**
Type: *Graduate course for MPH & PhD*
Tasks: *Redesigned the curriculum*
                Developed and recorded most of the lectures
                Conducted the live sessions

2015-   DrPH and PhD Doctoral Seminars (HPM & Mental Health)
Johns Hopkins School of Public Health
Role: *Guest Lecturer*
Type: *Graduate course for DrPH and PhD*
Tasks: *Developed various sessions on HIT*

2015-2018   Principles of HIT for HPM (Summer Institute)
Johns Hopkins School of Public Health
Role: **Principal Instructor**
Type: *Graduate course for MPH*
Tasks: *Redesigned and developed the curriculum*
                Developed educational content

2015-2017   Advances in HIT and Preventative Medicine Applications
Johns Hopkins School of Public Health
Role: **Principal Instructor**
Type: *Graduate course for Preventative Medicine Residents*
Tasks: *Redesigned and developed the curriculum*
                Developed educational content

2015-2018   Research and Evaluation Methods for Health Policy
Johns Hopkins School of Public Health

Role:	*Guest Lecturer*	
Type:	*Graduate course for MPH and PhDs*	
Tasks:	*Developed a session on Big Data and HPM*	

2015-2018	Fundamentals of Health Policy and Management	
	Johns Hopkins School of Public Health	
	Role:	*Guest Lecturer*
	Type:	*Undergraduate course*
	Tasks:	*Developed a session on Health Information Exchanges*

2015-2018	Digital Health for Medical Students	
	Johns Hopkins School of Medicine	
	Role:	*Guest Lecturer*
	Type:	*Graduate course for MD students*
	Tasks:	*Developed a session on HIT policies in clinical care*

2015-2016	Web Analytics for Public Health (Fall Institute – Barcelona)	
	Johns Hopkins School of Public Health & UPF	
	Role:	***Principal Instructor***
	Type:	*Graduate course for MPH and others*
	Tasks:	*Developed the curriculum*
		Developed educational content

2012-2014	Health Information Systems: Design to Development	
	Johns Hopkins School of Public Health	
	Role:	*Guest Lecturer*
	Type:	*Graduate course for MPH & PhD*
	Tasks:	*Conducted two live sessions on HIEs*

2012-2013	Concepts, Theories and Current Trends in Health Informatics	
	Johns Hopkins School of Public Health / Summer Institute	
	Role:	*Guest Lecturer*
	Type:	*Graduate course*

Other Significant Teaching *(before joining JHU)*

2009-2012	Clinical Decision Support Systems	
	Indiana University Purdue University Indianapolis	
	Type:	*Elective graduate course for HI MSc & PhD*
	Tasks:	*Principal instructor; Curriculum developer*

2009-2012	Fundamentals of Clinical Care in Health Informatics	
	Indiana University Purdue University Indianapolis	
	Type:	*Core graduate course for HI MSc & PhD*
	Tasks:	*Principal instructor; Curriculum developer*

2009-2012	Health Information Exchange	
	Indiana University Purdue University Indianapolis	
	Type:	*Elective graduate course for HI MSc & PhD*
	Tasks:	*Principal instructor; Curriculum developer*

2008-2012	Foundation of Health Informatics	
	Indiana University Purdue University Indianapolis	
	Type:	*Core graduate course for HI MSc & PhD*

	Tasks: *Principal instructor; Curriculum developer*

2008-2012   Web-Database Concepts in Health Informatics
Indiana University Purdue University Indianapolis
Type: *Core graduate prerequisite course for HI MSc & PhD*
Tasks: *Principal instructor; Curriculum developer*

2008-2012   Independent Study / Rotations / Thesis in HI
Indiana University Purdue University Indianapolis
Type: *Core graduate research course/thesis for HI MSc & PhD*
Tasks: *Principal mentor; Thesis supervisor; Chair*

2008-2010   Clinical Information Systems
Indiana University Purdue University Indianapolis
Type: *Core graduate course for HI MSc & PhD*
Tasks: *Principal instructor; Curriculum developer*

2006-2008   Electronic Information Management
Dalhousie University, Canada
Type: *Core undergraduate course*
Tasks: *Principal instructor; Curriculum developer*

2006-2008   Clinical Decision Support Systems
Dalhousie University, Canada
Type: *Elective graduate course for HI MSc & PhD*
Tasks: *Principal instructor; Curriculum developer*

2006-2008   Clinical Processes and Decision Making II
Dalhousie University, Canada
Type: *Core graduate course for HI MSc*
Tasks: *Principal instructor; Curriculum developer*

2006-2008   Health Information Flow and Use
Dalhousie University, Canada
Type: *Core graduate course for HI MSc & PhD*
Tasks: *Teaching assistant, Lab lecturer*

2006-2008   IT Project Management
Dalhousie University, Canada
Type: *Core graduate course for HI MSc & PhD*
Tasks: *Teaching assistant*

2011-2012   Serious Gaming
Indiana University Purdue University Indianapolis
Type: *Elective undergraduate course*

2005-2008   Networking and Databases for Healthcare
Dalhousie University, Canada
Type: *Core graduate course for HI MSc & PhD*
Tasks: *Teaching assistant, Lab lecturer*

2005-2008   Computer Sciences for Health Professionals
Dalhousie University, Canada
Type: *Core undergraduate course for health professionals*
Tasks: *Teaching assistant, Lab lecturer*

RESEARCH GRANT PARTICIPATION

Awarded - Ongoing

ID	(#1) JHU Kaiser Permanente
Title	*"Development of a Pulmonary Embolism Research Database from EHR Data"*
Funding	Internal (JHU ICTR & KP Mid-Atlantic)
Period	04/2023 – 04/2024
Role	Co-Investigator; PIs: Ellenbogen M & Roblin DW
Total	$75,000
Topic	The objectives of this project are to: (1) develop detailed measurement specifications that identify patients at risk for PE and capture patient, provider, and healthcare system factors that might affect PE testing and diagnosis; (2) identify EHR sources of data and write, implement, and test computer code to extract EHR data and operationalize study measures; and (3) create and document the PE analytic dataset for future epidemiologic and health services analyses and research proposals.

ID	(#2) 1R01MH128518
Title	"NATIVE RISE-Risk Identification for Suicide and Enhanced care for Native Americans"
Funding	National Institute of Mental Health (NIMH)
Period	06/2023 – 06/2027
Role	Co-Investigator; PI: Haroz E
Total	$3,993,303
Topic	NATIVE-RISE a systems level strategy to suicide prevention that combines service-ready tools based on predictive analytics with risk- stratified evidence-based care for Native American adults. They will use a Hybrid Type-III stepped wedge cluster randomized trial and mixed methods, to improve the reach of Brief Contact Interventions, evidence- based suicide prevention approaches shown to reduce suicide attempts and deaths. Implementing predictive analytics and risk-stratified care to help extend the reach of evidence-based suicide prevention programs to communities with the highest needs, is paramount to reducing related health disparities.

ID	(#3) JHU Kaiser Permanente
Title	*"EHR-Based Detection of Frailty Risk to Improve Care Management Among Older Adults"*
Funding	Internal (JHU ICTR & KP Mid-Atlantic)
Period	04/2022 – 04/2023
Role	Principal Investigator; Co-PI: Roblin DW
Total	$75,000
Topic	The objectives of this project are to: (1) develop an NLP algorithm to collect valid measures of social risks and needs from the Johns Hopkins Medical Institute (JHMI) and Kaiser Permanente (KP) EHR Epic-based platforms; (2) validate the NLP algorithm through expert review and quantitative tests of precision and recall; and (3) elicit the opinions of JHU and KP stakeholders as to the value and generalizability of the NLP algorithm for improving patient care and outcomes, and mitigating socioeconomic disparities across individuals and communities.

ID	(#4) OT2HL161847 (subcontract from NYU)
Title	*"The RECOVER Post-Acute Sequelae of SARS-CoV-2 (PASC) Electronic Health Record (EHR) Cohort Study"*
Funding	NIH

Period	10/2021 – 05/2022
Role	Co-Investigator; PIs: Katz, Horwitz & Troxel
Total	$11,427,461
Topic	Major goals include the development and dissemination of generalizable, data-driven tools for (1) PASC cohort discovery (e.g., PASC computable phenotypes, trial eligibility "sniffers"); (2) PASC risk models; (3) deployable, EHR-based clinical decision support (CDS) tools.

ID	(#5) 1T15LM013979-01 (Training Grant)
Title	*"Johns Hopkins Training Program in Biomedical Informatics and Data Science"*
Funding	National Library of Medicine (NLM)
Period	07/2022 – 07/2027
Role	Co-Principal Investigator; MPI: Chute C
Total	~$3,606,506
Topic	Johns Hopkins University is committed to leveraging the full spectrum of faculty and data in a multidisciplinary training program for Biomedical Informatics and Data Science (BIDS). The BIDS program is structured around four tracks: Translational Bioinformatics, Clinical Research Informatics, Healthcare/Clinical Informatics, and Public Health Informatics. Opportunities for learning and application through well-funded research enrich this training experience.

ID	(#6) Evidence-based Practice Center AHRQ-RFTO9
Title	*"Creating a digital healthcare equity framework with an accompanying guide for its use"*
Funding	HHS – Agency for Healthcare Research and Quality (AHRQ)
Period	09/2021 – 03/2023
Role	Co-Investigator; PIs: Austin M & Hatef E
Total	$292,314
Topic	The overarching purpose of this task order is to create a digital healthcare equity framework, which will specify the aspects that need to be considered when creating and planning for equitable healthcare solutions that involve digital technologies. The framework will be accompanied by a guide for its use that contains best practice examples and relevant resources. The framework and guide will be applicable to both patient-facing and clinician-facing digital healthcare solutions. The framework and guide are intended to inform the planning phase for design and implementation of digital healthcare technology.

ID	(#7) 1R01MD015844
Title	*"Development, piloting and dissemination of an integrated clinical and social multi-level decision support platform to address social determinants of health among minority populations in Baltimore city"*
Funding	National Institute on Minority Health and Health Disparities (NIMHD)
Period	08/2021 – 08/2025
Role	Co-Investigator; PIs: Weiner JP & Hatef E
Total	$2,746,061
Topic	With the intent of improving care for minority and disadvantaged populations with chronic diseases, this project will develop methods and tools to better integrate available digital information regarding social determinants of health (SDOH) into providers' electronic health records (EHRs). The study will develop, pilot, evaluate, and widely disseminate a multi-level EHR-integrated clinical decision support system to help identify, manage, and refer patients with high chronic disease burden who also have high levels of modifiable SDOH challenges.

ID	(#8) AFSP YIG-R-002-19
Title	*"Sociodemographic factors, clinical profiles and social determinants of suicides involving opioids"*
Funding	American Foundation for Suicide Prevention (AFSP)
Period	04/2021 – 04/2023
Role	Co-Investigator; PI: Susukida R
Total	~$90,000
Topic	The goal of this study is to examine the patterns of sociodemographic attributes, clinical encounters, and social and geographical factors that characterize suicides involving opioids as well as polysubstance opioid suicides in order to enhance targeted efforts for suicide prevention. This study leverages data linkage, predictive modeling, and spatial clustering techniques to identify individual-level factors as well as aggregate-level social and geographical factors linked with opioid-related suicides.

ID	(#9) Addressing Suicide Research Gaps: Understanding Mortality Outcomes / R01MH124724
Title	*"Advancing Maryland's Statewide Suicide Data Warehouse to Improve Individual and Population-level Mortality Prediction and Prevention"*
Funding	NIMH
Period	9/2020 – 9/2024
Role	<u>Principal Investigator</u>
Total	~$3,260,000
Topic	The aim of developing Maryland Suicide Data Warehouse (MSDW) is to link a diverse set of data sources and use various layers of risk factors to predict suicide death on a generalizable population. Currently, MSDW includes data on ~5+ million Maryland residents spanning from 2012 to 2017. MSDW contains hospital and emergency discharges, health information exchange (HIE) data, commercial insurance claims, medical examiner data, electronic health record (EHR) data from 5 select health systems, and place-based social determinants of health data covering various domains such as housing, employment, education, income, and crime. This study will leverage the unique data types linked by MSDW to improve suicide death predictions among generalizable patient populations.

ID	(#10) FDA CERSI Award / 5U01FD005942-05
Title	*"Assessing Disparities in Occurrence and Outcomes of Type 2 Diabetes ADEs Using Claims and EHRs"*
Funding	FDA CERSI
Period	9/2020 – 9/2022 *(no cost extension until 9/2023)*
Role	<u>Principal Investigator;</u> Co-PI: Weiner JP
Total	~$741,000
Topic	This project aims to improve the identification of SHG events in ambulatory EHRs and claims. We will compare SHG events across races/ethnicities and various SDH factors; and, then identify key disparity factors associated with increased likelihood of SHG among African American patients (after adjusting for clinical comorbidities). Finally, we will discover contextual patterns (using EHR's free-text) associated with higher rates of SHG among different minority and special-need populations.

ID	(#11) Centers on the Demo. and Economics of Alzheimer's Disease and Alzheimer's Related Dementias
Title	*"Hopkins' Economics of Alzheimer's Disease and Services (HEADS) Center"*
Funding	NIH/NIA P30AG066587

Period	08/2020 – 06/2025
Role	<u>Pilot PI</u>; Co-PIs: Polsky & Wolff
Total	$544,508 (FY1) – Pilot $26,050
Topic	The HEADS Center advances science that addresses the relationship between ADRD and goals of accessible, affordable, and appropriate quality care delivery. To achieve this goal, HEADS will undertake activities to stimulate and support research on two overarching signature themes: (1) To identify and quantify ADRD care needs and variation in needs, including racial and ethnic minority subgroups, and how ADRD care needs affects economic consequences for persons with ADRD, their families and other unpaid caregivers and (2) To examine how health system organization and financing affect ADRD-related health outcomes.

ID	(#12) T32 NRSA Institutional Research Training Grant / T32-AG066576
Title	*"Program in Health Services and Outcomes Research for Aging Populations"*
Funding	NIA
Period	09/2020 – 09/2024
Role	Co-Investigator/Mentor; PIs: Wolff J & Boyd C
Total	-
Topic	The goal of this program is to produce the next generation of researchers with rigorous training in person and family-centered health services and outcomes research, all applied to geriatrics and gerontology. This program is conducted jointly by health services researchers, gerontologic nursing researchers, and geriatricians with a strong commitment to bringing together students and fellows in all these disciplines to develop expertise in the content areas and methodologies that are essential to advancement of the field and an understanding of how health services, care delivery and financing systems might optimally be designed to serve the needs of older adults.

ID	(#13) T32 Predoctoral Training in Advanced Data Analytics for Behavioral and Social Sciences Research (BSSR) - Institutional Research Training Program / T32-MH122357
Title	*"Data Integration for Causal Inference in Behavioral Health"*
Funding	NIH-OBSSR
Period	09/2020 – 09/2024
Role	Co-Investigator/Mentor; PI: Stuart L
Total	-
Topic	The goal of this training program is to train scholars to become leaders in the use of advanced computational methods and designs to estimate causal effects in behavioral health. To accomplish this goal, we will provide rigorous training and high-quality mentorship.

ID	(#14) eACG – Internal
Title	*"Developing Next Generation EHR-Supported Predictive Modeling: Developing the Johns Hopkins e-ACG System"*
Funding	Internal (ACG)
Period	09/2012 – NA
Role	<u>Co - Principal Investigator</u>; PI: Weiner JP
Total	~$2,000,000 (~8 FTEs * 3 yrs.)
Topic	In collaboration with Health Partners in Minnesota, this research seeks to incorporate EHR elements into the advanced models of the ACG System. The goal is to identify EHR and other HIT elements amenable to incorporation with traditional claims based ACG measures and test how to best integrate a combination of elements with the ACG System to enhance our predictive modeling ability.

Awarded - Completed

ID   (#15) AHRQ ACTION-IV RFTO#2 / 2020.K72AS19.25505

Title   *"Developing and Assessing the Validity of Claims-based Indicators of Frailty & Functional Disabilities and Testing their Use in Other Data (EHRs and linked EHR-claims)"*

Funding AHRQ

Period   9/2020 – 9/2022

Role   <u>Principal Investigator</u>

Total   ~$498,000

Topic   The purpose of this task order is to validate a claims-based algorithm of frailty and functional disabilities using EHR data. We will validate and refine claims-based indicators of frailty and functional disability in linked EHR-claims data to confirm diagnoses of potentially disabling conditions or frailty for case identification. We will also test and refine draft EHR-modified algorithms. The focus is on validating the claims algorithm to evaluate frailty in Medicare populations, and to refine the EHR-modified algorithm for potential use across all-payers in adult patient populations.

ID   (#16) Evidence-based Practice Center AHRQ-RFTO19

Title   *"Virtual Health During COVID19"*

Funding HHS – Agency for Healthcare Research and Quality (AHRQ)

Period   03/2021 – 09/2021

Role   Co-Investigator; PI: Robinson K

Total   ~$150,000

Topic   This task order is a distributed under the EPC (Evidence-based Practice Center) IDIQ. The main aims of the task order are 'topic refinement' and 'systematic review' [optional] of the use and effectiveness of telehealth services during the COVID-19 pandemic.

ID   (#17) Evidence-based Practice Center AHRQ-RFTO20

Title   *"Evaluation of Mental Health Applications"*

Funding HHS – Agency for Healthcare Research and Quality (AHRQ)

Period   03/2021 – 12/2021

Role   Co-Investigator/Consultant; PI: Robinson K

Total   ~$215,000

Topic   This task order is a distributed under the EPC (Evidence-based Practice Center) IDIQ. The main aim of the task order is to prepare a 'technical brief' on the development of a framework for assessing mental health applications (mobile health apps).

ID   (#18) 3R34MH121639-01S1

Title   *"Adaptation and Pilot Test of a Universal School-Based Suicide Prevention Program – Supplement"*

Funding NIMH

Period   01/2021 – 12/2021

Role   Co-Investigator; PI: Wilcox H

Total   ~$275,000

Topic   This study attempts to enhance our understanding of risk and protective processes on suicide death among African American and Latinx children and adolescents.

ID	(#19) NIMH 1R56-MH117560-01
Title	*"Addressing Suicide Research Gaps: Understanding Mortality Outcomes in the Mid-Atlantic Region"*
Funding	National Institute of Mental Health (NIHM)
Period	09/2018 – 09/2021
Role	<u>Principal Investigator</u>; Co-PI: Wilcox H
Total	~$492,000 (R56 mechanism – FY1 of 1R01-MH117560-01)
Topic	This study will conduct data linkage and informatics approaches to utilize existing resources to improve suicide risk identification and prevention. The project will also offer essential measures for providers and payers to reduce suicide events in their systems. The methods will be assessed against and shared as a resource with other states/regions to establish a similar analytics framework to advance suicide prevention.

ID	(#20) JHSoM ICTR BSSS Nexus Award [Phase III] – Internal
Title	*"Behavioral, Social and Systems Science: Extracting Social Science Data from Epic Electronic Health Record System"*
Funding	Internal (JHU ICTR)
Period	04/2020 – 04/2021
Role	<u>Principal Investigator</u>
Total	$95,000
Topic	This phase of the project will complete the extraction of social and behavioral determinants of health from Epic's EHR as well as integrate place-based social determinants of health into JHMI's research platforms.

ID	(#21) TDAF 2019
Title	*"Novel Predictive Model for Risk stratification of Congestive Heart Failure Patients at Discharge"*
Funding	JHSPH– Technology Development Accelerator Fund (TDAF)
Period	09/2019 – 09/2021
Role	<u>Principal Investigator</u>
Total	$50,000
Topic	This project plans to commercialize the cloud-based CDS tool integrated with EHRs, to assist Case Managers with clinical triage and discharge planning of higher risk CHF patients who are candidates for 30-day hospital readmissions.

ID	(#22) JHU Kaiser Permanente
Title	*"Applying Unstructured EHR Notes and Structured Clinical and Community Data to Identify Patient Social Needs and Determinants"*
Funding	Internal (JHU ICTR & KP Mid-Atlantic)
Period	04/2020 – 04/2021
Role	Co-Investigator; PIs: Hatef E & Nau C
Total	$75,000
Topic	The overarching goal of this project is to develop and apply new practical tools and approaches for measuring Social Determinants of Health using unstructured (e.g., clinician notes) and structured EHR data and information derived from neighborhood databases.

ID	(#23) ACG-GSAP Integration
Title	*"Integrating the Geo-Social Predictive Model Platform in ACGs"*

Funding	Johns Hopkins Health Care (JHHC) Solutions
Period	10/2018 – 10/2020
Role	<u>Principal Investigator</u>
Total	~$400,000 (contract)
Topic	This study will develop novel patient-level geo-derived risk scores that can used to enhance existing risk scores such as ACGs, and ultimately become integrated into traditional care management workflows.

ID	(#24) JHU APL IRAD
Title	*"Improving Population Health Risk Stratification with Machine Learning & Advanced Statistical Techniques"*
Funding	Internal (JHU APL)
Period	09/2018 – 09/2019
Role	<u>Co - Principal Investigator</u>; PI: McShea M
Total	$175,000
Topic	This project is a collaboration between APL and Bloomberg CPHIT teams to develop higher performing algorithms using ML techniques, and both EMR and claims data. EMR data will include SDoH data where available. The primary objective is to show increased efficacy of this approach to predicting cost and ability to identify at risk subpopulations.

ID	(#25) JHU IDIES
Title	*"Using Epidemiological and Simulation Data to Inform the Testing of Autonomous Vehicles"*
Funding	Johns Hopkins Institute for Data-Intensive Engineering and Science
Period	03/2018 – 03/2019
Role	Co-Investigator; PI: Ehsani J
Total	$25,000
Topic	Using epidemiologic and simulated models of crash risk, we propose the development of a tool to assist AV engineers and federal regulators to inform AV testing. This tool will assess safety as a function of the road types, neighborhoods and traffic patterns along a specific route, and the elements of the AV algorithms that govern speed, lane changing and other driving behaviors.

ID	(#26) JHU Kaiser Permanente
Title	*"Adherence to Chronic Disease Medication Regimens in the KP/JHHS Enrolled Populations: A Cross-Organization Assessment of the Impact of Socio-Economic Factors in the Baltimore Region"*
Funding	Internal (JHU ICTR & KP Mid-Atlantic)
Period	09/2018 – 09/2019
Role	Co-Investigator; PI: Kan H
Total	$75,000
Topic	The study focuses on medication adherence and its association with a variety of determinants including socioeconomic factors either at individual and geographic levels.

ID	(#27) JHU IDIES
Title	*"Harnessing Big Data for Population Health: Advancing Natural Language Processing Techniques to Extract Social-Behavioral Risk Factors from Free Text within Large Electronic Health Record Systems"*
Funding	Johns Hopkins Institute for Data-Intensive Engineering and Science
Period	03/2018 – 03/2019
Role	Co-Investigator; PI: Weiner JP

Total	$25,000
Topic	We propose to build on the machine learning tools developed using a mix of pattern matching techniques for note categorization and deep learning methods (i.e., long short-term memory recursive neural networks). Our goal in this pilot is to establish the viability of these methods for social determinants of health (SDH) data and to extract a first-pass corpus of SDH factors.

ID	(#28) VHA Phase-IV
Title	*"Analytical Framework to Project BMI Trajectory for VHA Veterans at the Population Level"*
Funding	Veteran Health Affairs – Office of Analytics and Business Intelligence
Period	09/2017 – 11/2018
Role	<u>Principal Investigator</u>; Co-PI: Weiner JP
Total	~$255,000 (IPA mechanism)
Topic	This project will utilize high priority data sources including the VHA's CDW to develop a series of predictive models to forecast obesity trajectory in a given population denominator. Underlying GIS information and other sources of social determinants of health will be used to improve the prediction of obesity trajectory geographically.

ID	(#29) DST Health Solutions – GSAP
Title	*"Geo-Social [Risk Prediction and Visualization] Analytic Platform (GSAP)"*
Funding	DST Health Solutions
Period	09/2017 – 09/2019
Role	<u>Principal Investigator</u>
Total	$325,000
Topic	We are proposing the development of the Johns Hopkins Geo-Social Analytic Platform (GSAP) that will incorporate geo-social factors for risk prediction on both aggregated and patient levels. GSAP data will be used to improve risk stratification of various sub-populations (e.g., health plan members, employees).

ID	(#30) TDAF C14627 – 2017
Title	*"Helping Older adults improve their Medication Experience (HOME)"*
Funding	JHSPH– Technology Development Accelerator Fund (TDAF)
Period	07/2017 – 07/2019
Role	<u>Principal Investigator</u>
Total	$25,000
Topic	A pilot study of 20 patients demonstrated that the tool is useful for communication between nurses and primary care physicians (PCP) and is easily integrated into clinical workflow. The HOME tool automated the medication complexity reduction process and improved medication management among older adults.

ID	(#31) VHA PACT Evaluation
Title	*"Developing and Testing an Approach for the Integration of Population and Patient Level Information in Support of Patient Centered Primary Care at the VHA"*
Funding	Veteran Health Affairs – Office of Analytics and Business Intelligence
Period	10/2016 – 10/2018
Role	<u>Co - Principal Investigator</u>; PI: Weiner JP
Total	~$175,000 (contract)
Topic	PACT is part of the national "Patient Centered Medical Home" (PCMH) movement, where accountable

primary care delivery teams, equipped with comprehensive information support systems, provide coordinated care attuned to the patient's individual needs.

ID	(#32) CMS CPC+ AIR PRO
Title	*"Patient Reported Outcome-based Performance Measure (PRO-PM) and Patient Experience of Care Surveys for Primary Care Practices Participating in the Centers for Medicare & Medicaid Services / Center for Medicare and Medicaid Innovation Comprehensive Primary Care (CPC+)"*
Funding	CMS – Subcontract to AIR (American Institute for Research)
Period	09/2017 – 09/2023
Role	Co-Investigator; PI of JHU Subcontract: Wu A
Total	~$6,500,000 (JHU Subcontract); $55,000,000 (AIR CMS)
Topic	This project focuses on recommending CMS one or more PROM(s) that is feasible and appropriate in a primary care patient population with clinical emphasis on patients with multiple chronic conditions. EHRs will be used to collect PROs and then applied to improve the risk stratification of comorbid older adult populations using predictive modeling.

ID	(#33) B'FRIEND – Multiple Funding Streams
Title	*"Baltimore Falls Reduction Initiative Engaging Neighborhoods and Data (B'FRIEND)"*
Funding	(a) Johns Hopkins inHealth Initiative
	(b) Robert Wood Johnson Foundation (RWJF) DASH Program
	(c) Center for Government Excellence at the 21st Century Cities Initiative
Period	01/2016 – 12/2018
Role	Principal Investigator; Co-PI: Sharfstein J
	Co-Investigator; PI: Wen L
	Co-Investigator; PI: Sharfstein J
Total	(a) ~$75,000
	(b) ~$200,000
	(c) ~$25,000
Topic	Baltimore Falls Reduction Initiative Engaging Neighborhoods and Data (B'FRIEND) is a citywide effort to reduce such falls by one-third in three years. Hospital discharge summary as well as health information exchange (HIE) data will be used to develop a risk prediction model for severe falls among older adults. B'FRIEND will involve standing up a real-time data and trajectory surveillance capacity for all falls requiring hospital care in a major city.

ID	(#34) JHSoM ICTR BSSS Nexus Award [Phase II] – Internal
Title	*"Behavioral, Social and Systems Science: Extracting Social Science Data from Epic Electronic Health Record System"*
Funding	Internal (JHU ICTR)
Period	12/2017 – 09/2018
Role	Principal Investigator
Total	$65,000
Topic	This phase of the project will document the social determinant measure available, provide a guide to researchers wishing to integrate them into studies and make recommendations on how to integrate new measures going forward.

ID	(#35) PDMP BJA-2015-4189

Title	*"Prescription Drug Monitoring Program's Risk Modeling Project"*
Funding	U.S. Department of Justice
Period	09/2015 – 12/2018
Role	Co-Investigator; PIs: Weiner JP & Saloner B
Total	~$530,000 (subcontract to DHMH)
Topic	This research will increase understanding about the risk factors for prescription drug overdose and inform interventions to help curb the prescription drug abuse and overdose epidemic in Maryland, and hopefully generalizable to other states.

ID	(#36) Patient Safety in Ambulatory Care
Title	*"What is Patient Safety in the Medical Home?"*
Funding	AHRQ R01HS24859-01
Period	09/2016 – 09/2019
Role	Co-Investigator; PI: Dy S
Total	~$1,499,998
Topic	No previous research has explicitly evaluated safety in the PCMH. This partnership between Johns Hopkins and the National Committee on Quality Assurance (NCQA) is a unique opportunity to evaluate how the PCMH can best address safety.

ID	(#37) Frailty – Atrius Health
Title	*"The Development and Testing of the Frailty Component of a Novel EHR-based "Geriatric e-risk" Measure for Predictive Modeling"*
Funding	Atrius Health Foundation – Harvard Vanguard Medical Associates
Period	06/2015 – 06/2018
Role	<u>Co - Principal Investigator</u>; PI: Weiner JP
Total	~$25,000
Topic	Develop advanced predictive modeling tools for high-risk case detection and management for a geriatric population. Using the ACG frailty constructs as a baseline we are exploring how new elements found in the EHR as structured or unstructured information (using advanced NLP techniques) may improve the current model.

ID	(#38) JHSoM ICTR BSSS Nexus Award [Phase I] – Internal
Title	*"Behavioral, Social and Systems Science: Extracting Social Science Data from Epic Electronic Health Record System"*
Funding	Internal (JHU ICTR)
Period	02/2017 – 12/2017
Role	Co-Investigator; PI: Ford E
Total	$65,000
Topic	The aims of this project are: First, describing the existing frameworks for assessing social determinants of health in patient populations. Second, interviewing key informants to assess the current SDH routinely collected at JHMI. Third, produce a plan for assessing the current social determinants that are available for research.

ID	(#39) ONC WF-WF-15-300
Title	*"Workforce Development Programs: Population Health IT"*
Funding	HHS – Office of the National Coordinator (ONC) for Health IT

Period	07/2015 – 07/2017
Role	<u>Co - Principal Investigator</u>; PI: Lehmann H
Total	~$969,000
Topic	We will update training materials from the original Workforce Curriculum Development program funded under HITECH. In addition to updating training materials, the goal of this program is to train 6,000 incumbent health care workers to use new health information technologies in a variety of settings. The updates will focus on the four key topic areas of Population Health, Care Coordination, New Care Delivery and Payments Models, and Value Based & Patient Centered Care

ID	(#40) Evidence-based Practice Center AHRQ-RFTO22
Title	*"Advancing Research Methods for Evaluation of Natural Experiments in Obesity Prevention and Control"*
Funding	HHS – Agency for Healthcare Research and Quality (AHRQ)
Period	02/2016 – 12/2017
Role	Co-Investigator; PI: Bennett W
Total	~$400,000
Topic	This task order is a distributed under the EPC (Evidence-based Practice Center) IDIQ. The main aim of the task order is to systematically identify & assess population-level data sources, and approaches for evaluation of policies for obesity prevention and control.

ID	(#41) VHA Phase-III
Title	*"Analytical Framework to Project BMI Trajectory for VHA Veterans at the Population Level"*
Funding	Veteran Health Affairs – Office of Analytics and Business Intelligence
Period	09/2015 – 09/2016
Role	<u>Principal Investigator</u>; Co-PI: Weiner JP
Total	~$240,000 (IPA mechanism)
Topic	The aim of this phase of the VHA project is to develop a series of predictive models to forecast obesity trajectory in a given population denominator (which could be eventually tailored as feedback to clinicians, policy makers and others).

ID	(#42) DHMH SIM
Title	*"Care Coordination and Expanded Analytics Infrastructure of the All-Payer Demonstration Project"*
Funding	Maryland Department of Health and Mental Hygiene (DHMH)
Period	12/2015 – 09/2016
Role	<u>Co - Principal Investigator</u>; PI: Weiner JP
Total	~$200,000 (subcontract to DHMH/CRISP)
Topic	We will develop a comprehensive framework of population health measures that can be derived from electronic data to assess the state of health of target populations/communities. We will also assist Maryland public health, social welfare and medical care providers and community organizations plan for population health targeted interventions.

ID	(#43) Discovery Fund Synergy Award
Title	*"Addressing medication regimen complexity in skilled home health care"*
Funding	Johns Hopkins School of Medicine
Period	9/2014 – 12/2015

Role	Co-Investigator; PI: Boyd C
Total	~$100,000
Topic	This project develops and tests the feasibility of an innovative, largely automated informatics solution (the HOME tool) to efficiently and clearly communicate information about medication regimens and insights gained by the home health nurse in the process of evaluating the patient at home.

ID	(#44) ASPE 15-233-SOL-00303
Title	*"Measurement of Interoperable Electronic Healthcare Records Utilization"*
Funding	HHS – Assistant Secretary for Planning and Evaluation (ASPE) & ONC
Period	09/2015 – 09/2016
Role	Co-Investigator; PI: Samarth A
Total	~$245,000
Topic	This project will develop methods for measuring interoperability between users of certified health information technology (IT) systems and information partners not covered by the Medicare and Medicaid EHR Incentive program, or who are not providers in long-term/post-acute care settings.

ID	(#45) Evidence-based Practice Center AHRQ-RFTO42
Title	*"Data Sources and Methods to Analyze Suicide Prevention Interventions among Youth"*
Funding	HHS – Agency for Healthcare Research and Quality (AHRQ)
Period	02/2015 – 04/2016
Role	Co-Investigator; PI: Robinson K
Total	~$400,000
Topic	This task order is a distributed under the EPC (Evidence-based Practice Center) IDIQ. The main aims of the task order are 'topic refinement' and 'systematic review' of existing and effective interventions to prevent suicide among the younger population. Using HIT and various data sources is of special emphasis in this project.

ID	(#46) RFA-AG-14-009
Title	*"Clinical Trial of a Multifactorial Fall Injury Prevention Strategy in Older Persons (U01)"*
Funding	NIH U01 / PCORI Special Call
Period	4/2014 – 5/2017
Role	Co-Investigator [in-kind; FY1 only]; PI: multiple institutions
Total	~$29,000,000
Topic	The investigators, patients and stakeholders will collaboratively refine and pilot a strategy for identifying persons at risk for falling and optimize the study design and intervention. The trial will incorporate an adaptive design and a pre-specified mid-term analysis.

ID	(#47) VHA Phase-II
Title:	*"Developing an Obesity Trajectory Population‑based Risk Prediction Model (OT‑PRPM)"*
Funding:	Veteran Health Affairs
Period:	10/2014 – 10/2015
Role:	Principal Investigator; Co-PI: Weiner JP
Total:	~$150,000 (IPA mechanism)
Topic:	VHA has awarded CPHIT to develop a national population-health measurement framework and assist in

the implementation of a population health platform. To pilot this framework and platform we are linking EHR and GIS data to understand population health facets of obesity.

ID	(#48) VHA Phase-I
Title	*"Framework for a VHA Population Health Program"*
Funding	Veteran Health Affairs
Period	06/2014 – 10/2014
Role	<u>Principal Investigator</u>; Co-PI: Weiner JP
Total	Subcontract ~$70,000 (IPA mechanism)
Topic	We collaborated with the VAH to more clearly define population health and population health informatics as well as develop ways to integrate new population-based data sources into an electronic health repository in a meaningful way. The collaboration will conclude with the development and evaluation of a high impact population HIT solutions.

ID	(#49) 1-R13-LM011955
Title	*"Symposium on Population Health Informatics"*
Funding	National Library of Medicine (NLM) R13
Period	04/2014 – 05/2014
Role	Co-Investigator; PI: Weiner JP
Total	$12,500
Topic	This R13 application seeks federal support for a one-day meeting on population health informatics. The proposal wants to bring experts together in this emerging field.

ID	(#50) R21-HS022578
Title	*"Community-wide HIE- based Hospital Readmission Risk Prediction and Notification System"*
Funding	AHRQ R21
Period	09/2013 – 12/2015
Role	<u>Principal Investigator</u>
Total	~$300,000
Topic	This research facilitates care coordination between inpatient and outpatient settings. This project will derive and validate a hospital readmission risk-prediction model based on Maryland's Health Information Exchange. If adopted by primary care providers, the model can significantly reduce readmissions.

ID	(#51) ACTION-II RFTO32
Title	*"Evaluation of Stage 3 Meaningful Use Objectives among Eligible Hospitals"*
Funding	AHRQ RFTO
Period	09/2013 – 09/2014
Role	<u>Principal Investigator</u>
Total	~$632,000
Topic	The aim of this (contract) project is to evaluate the readiness of 10 hospitals in MD and AR to roll out two of the meaningful use stage 3 measures. The project includes three phases of a conceptual framework development, implementation and evaluation of measures, and dissemination of the findings.

ID	(#52) FIF 2013
Title	*"Utilizing Maryland's Health Information Exchange Infrastructure to Develop and Evaluate a Real-time Inter-Provider Hospital Readmission Risk Detection and Notification System: A Population Health IT*

Feasibility Study"

Funding	JHSPH
Period	03/2013 – 03/2014
Role	<u>Principal Investigator</u>
Total	~$35,000
Topic	This research explores the derivation and evaluation of a hospital readmission risk-prediction model based on Maryland's Health Information Exchange. If adopted by primary care providers, the model can significantly reduce readmissions.

ID	(#53) PCORI – MSSDT2014
Title	*"Methodology Standards Academic Curriculum: Comparative Effectiveness Research"*
Funding	PCORI (PCO-MSSDT2014)
Period	09/2013 – 09/2014
Role	Co-Investigator; PI: Segal J
Total	~$335,000
Topic	The CIHR Team Grant in Access to Children's Mental Health Services is organized around 5 projects. Each project has a unique focus that will provide us with the knowledge we need to create our unique system to minimize waiting list times.

ID	(#54) HHSM-500-TO-003
Title	*"PHEMUR Project"*
Funding	Mathematica
Period	09/2013 – 09/2014
Role	Co-Investigator; PI: Dy S
Total	~$100,000 (subcontract)
Topic	ARRA HITECH Eligible Professional (EP) Clinical Quality Measures (PHEMUR) contributes to the development of testing plan for new measures and ensuring requirements defined by CMS and NQF are addressed.

ID	(#55) 5-R01-LM009897
Title	*"Clinical Knowledge Hub - Conceptual Integration of Rules, Data Sets, and Queries"*
Funding	National Library of Medicine (NLM) R01
Period	05/2010 – 04/2012
Role	<u>Principal Investigator</u>; Co-PI: Schadow G
Total	~$495,000
Topic	To create a standards-based clinical decision support (CDS) knowledge library which integrates, harmonizes, and disseminates a diverse set of major sources of clinically relevant biomedical knowledge which each in their own right have been proven effective at their original institution but that could not be shared in the past due to technical and conceptual barriers.

ACADEMIC SERVICE

Department (HPM)

2017-   HSR&P Committee
             Committee member

2015-   DrPH Program
             Admission Committee
             Director – Informatics Track

2012-   Center for Population Health IT (CPHIT)
             Research Director
             Co-Director (since 2019)

2012-   Center for Health Services and Outcomes Research (CHSOR)
             Data Infrastructure Committee

School (JHSPH)

2020-   JHSPH Data Trust/Governance Committee
             Committee Member

2020-   Faculty Technology Transfer Committee
             Committee Member (pending)

2019-2020   JHSPH Data Governance Ad-hoc Committee
             Committee Member

2016-   Bloomberg American Health Initiative (BAHI)
             Evidence Workgroup – Committee Member & Liaison
             Obesity Workgroup – Committee Member

2013-   ACG Technical Advisory Board
             Committee Member

2012-   Global mHealth Initiative (GmI)
             Steering Committee Member

University (JHU)

2020-   JHSOM Biomedical Informatics and Data Sciences (BIDS) Executive Committee
             Committee Member

2019-   inHealth/PMAP Data Science Core Team
             Committee Member

2015-   Center on Aging and Health
             Committee Member

2014-   Behavioral, Social and Systems Science (BSSS) Advisory Board
             ICTR Translational Research Communities

Committee Member

2013-	JHSOM Data Trust Council – Research and Informatics Sub-council
	Committee Member
2013-2020	JHSOM Div. of Health Science Informatics (DHSI) Executive Committee
	Committee Member
2013-2015	Clinical Informatics Fellowship Executive Committee
	Committee Member
2013-2014	Bloomberg Distinguished Professor (BDP) Search Committee for HIT
	Committee Member

Professional Societies

2018-2019	AMIA Annual Symposiums
	American Medical Information Association (AMIA)
	Scientific Program Committee (SPC)

State and National Agencies/Committees

2022-	Maryland Suicide Fatality Review Committee
	Office of Suicide Prevention; Maryland Department of Health
2022-	Maryland HSCRC Population Health Workgroup
	Health Service Cost Review Commission (HSCRC)
	Subject Matter Expert
2020-	NCQA Social Determinants of Health & Health Equity Expert Work Group
	National Committee for Quality Assurance (NCQA)
	Subject Matter Expert

PRESENTATIONS AT SCIENTIFIC MEETINGS [5]

Conference Proceedings *(peer-reviewed abstracts & short-papers)* [6,7]

1   Ghoseiri J*, **Kharrazi H**. Measuring quality of demographic data captured in hospital discharge reports. *Proceedings of American Medical Informatics Association Annual Symposium*. 2022; [in-press]. Washington DC: AMIA.
    * first author is a high school mentee!

2   Ding X*, Nishimuar A, Zeger S, **Kharrazi H**. Assessing the impact of social determinants of healthcare on patients with type II diabetes. *Proceedings of American Medical Informatics Association Annual Symposium*. 2022; [in-press]. Washington DC: AMIA.

3   Hatef E, **Kharrazi H**, Weiner JP. Development of an integrated clinical and social multi-level risk score to identify social needs among minority populations in Baltimore city. *Proceedings of American Medical Informatics Association Annual Symposium*. 2022; [in-press]. Washington DC: AMIA.

4   Belouali A, Bai Haibin, Raja K, **Kharrazi H**. Impact of social determinants of health on improving the LACE index for 30-day unplanned readmission prediction. *Proceedings of American Medical Informatics Association Annual Symposium*. 2022; [in-press]. Washington DC: AMIA.

5   Pandya CJ, Hatef E, Wu JB, Richards T, Weiner JP, **Kharrazi H**. Association of documented social needs in claims and electronic health records of Medicaid population with healthcare utilization and costs. *Proceedings of American Medical Informatics Association Annual Symposium*. 2022; [in-press]. Washington DC: AMIA.

6   Lasser EC*, Gudzune K, **Kharrazi H**, Lehmann H, Weiner JP. A comparison of socio-behavioral determinants of health information captured in the electronic health record versus insurance claims for a population seen in an ambulatory care setting. *Proceedings of American Medical Informatics Association Annual Symposium*. 2022; [in-press]. Washington DC: AMIA.

7   Wang H*, **Kharrazi H**. An evaluation of racial disparity in 30-day hospital readmission models. *Proceedings of American Medical Informatics Association Annual Symposium*. 2021; 1544-1545. San Diego: AMIA.

8   **Kharrazi H**, Chang H-Y, Hatef E, Ma X, Weiner JP. Improving the prediction of healthcare costs and utilization using the Area Deprivation Index and statewide insurance data. *Proceedings of American Medical Informatics Association Annual Symposium*. 2021; 1425-1426. San Diego: AMIA.

9   Hatef E, Rouhizadeh M, Nau C, Xie F, Padilla A, Lyons LJ, Rouillard C, Abu-Nasser M,

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Kharrazi H, Weiner JP, Roblin D. Assessing the documentation of social needs in electronic health records' unstructured data: a collaboration of Johns Hopkins Health System and Kaiser Permanente. *Proceedings of American Medical Informatics Association Annual Symposium*. 2021; 1384-1385. San Diego: AMIA.

10   Haroz E, Kitchen C, Nestadt PS, Wilcox H, DeVylder JE, **Kharrazi H**. Comparing the predictive value of universal screening to electronic health records for suicide risk in the pediatric emergency department. *Proceeding of American Association of Suicidology Annual Conference*. 2020. Virtual/Orlando: AAS.

11   Hatef E, Chang H-Y, Kitchen C, Weiner JP, **Kharrazi H**. Addressing health equity in the healthcare system: assessing the impact of neighborhood characteristics on healthcare utilization in Baltimore City. *Proceedings of American Medical Informatics Association Annual Symposium*. 2020; 1533-1534. Virtual: AMIA.

12   Ma X, Hatef E, Shaikh Y, **Kharrazi H**, Weiner JP, Gaskin DJ. Internet access, social risk factors, and web-based social support seeking behavior: assessing correlates of the "digital divide" across neighborhoods in the state of Maryland. *Proceedings of American Medical Informatics Association Annual Symposium*. 2020; 1573-1574. Virtual: AMIA.

13   **Kharrazi H**, Chang H-Y, Hatef E, Weiner JP. Comparison of the impact of placed-based social determinants of health on claims-based risk adjustment models across different geographic levels. *Proceedings of American Medical Informatics Association Annual Symposium*. 2020; 1543-1544. Virtual: AMIA.

14   Samson LW, Kim D, Deutsch A, **Kharrazi H**, Jackson C. A tale of two approaches for using standardized data and predictive analytics to inform care solutions. *Proceedings of Academy Health Annual Research Meeting*. 2020; Virtual: Academy Health.

15   Chang H-Y, Shermock KM, Kitchen C, **Kharrazi H**, Weiner JP, Bishop M. Construction and validation of claims-based medication regimen complexity index. *Proceedings of Academy Health Annual Research Meeting*. 2020; Virtual: Academy Health.

16   Li A*, **Kharrazi H**. Measuring the quality of demographic data captured in maryland's hospital and emergency department discharges. *Proceedings of American Medical Informatics Association Annual Symposium*. 2019; 1389-1390. Washington DC: AMIA

17   Bery A*, **Kharrazi H**. The potential value of electronic health records in capturing geriatric frailty variables. *Proceedings of American Medical Informatics Association Annual Symposium*. 2019; 1306-1307. Washington DC: AMIA

18   Ma X*, Jung C, **Kharrazi H**. Comparing the distribution and predictive power of medication adherence indexes derived from EHRs and claims in forecasting healthcare utilization. *Proceedings of American Medical Informatics Association Annual Symposium*. 2019; 1399-1400. Washington DC: AMIA

19   Dixon BE, Lourens SG, **Kharrazi H**, Lehmann H, Fenton SH. Integrating data science into public health informatics training programs. *Proceedings of AMIA Informatics Educators Forum.* 2019. St. Louis, MO: AMIA

20   Yuan C, Marsteller J, Lai A, Oberlander T, Hannum S, Lasser E, **Kharrazi H**, Dy S. What is patient safety in the medical home? *Proceedings of Academy Health Annual Research Meeting.* 2019; Washington DC: Academy Health

21   Messino P*, Kim J, **Kharrazi H**, Lehmann H. Impact of certified electronic health record technology on childhood immunizations among Maryland Medicaid managed care providers. *Proceedings of Academy Health Annual Research Meeting.* 2019; Washington DC: Academy Health

22   Shafiq M*, Ma X, Taghizadeh N, **Kharrazi H**, Feller-Kopman D-J, Tremblay A, Yarmus LB. Longitudinal trends in healthcare utilization among hospitalized patients with malignant pleural effusion. *American Thoracic Society International Conference.* 2019; Dallas, TX: ATS

23   Chang H-Y, **Kharrazi H**, Bodycombe D, Weiner JP, Alexander GC. Health care costs and utilization associated with high risk prescription opioid use. *International Society for Pharmacoeconomics and Outcomes Research.* 2018; Baltimore, MD: ISPOR.

24   Rouhizadeh M*, Hatef E, Dredze M, Chute C, **Kharrazi H**. Identifying social determinants of health from clinical notes: a rule-based approach. *American Medical Informatics Association Annual Symposium.* 2018; San Francisco, CA: AMIA.

25   Zolnoori M, Fung KW, Fontelo P, **Kharrazi H**, Faiola A, Wu YSS, Stoffel V, Patrick TB. Utilizing consumer health posts to identify underlying factors associated with patients' attitudes towards antidepressants. *Proceedings of American Medical Informatics Association Annual Symposium.* 2018; 1878-1879. San Francisco, CA: AMIA.

26   Hatef E, Searle KM, Predmore Z, Lasser E, **Kharrazi H**, Sylling P, Nelson K, Fihn S, Weiner JP. A conceptual framework and approach for integration of population and patient-level electronic data to address social determinants of health within Veterans Health Administration's patient centered medical home. *Proceedings of American Medical Informatics Association Annual Symposium.* 2018; 1718-1719. San Francisco, CA: AMIA.

27   **<u>Kharrazi H</u>**, Ma X, Lasser E, Richards T, Weiner JP. Population-level comparison of diagnostic data collected in EHRs versus insurance claims [using OptumLabs data]. *Proceedings of American Medical Informatics Association Annual Symposium.* 2018; 1736-1737. San Francisco, CA: AMIA.

28   Cantor MN, Gold R, Gottlieb L, **Kharrazi H**, Cullen T. Lessons learned from using informatics to address the social determinants of health. *Proceedings of American Medical Informatics Association Annual Symposium.* 2018; 38-40. San Francisco, CA: AMIA.

29   Dixon BE, Lourens SG, Fenton SH, **Kharrazi H**. Integrating data science into public health informatics training programs. *Proceedings of Center for Disease Control and Prevention's Public Health*

Informatics Conference. 2018. Atlanta, GA: CDC.

30   **<u>Kharrazi H</u>**, Wilcox HC, Nestadt P. The role of population health IT in the future of mental health services. *Proceedings of National Institute of Mental Health's Mental Health Services Research (MHSR) Conference.* 2018; Bethesda, MD: NIMH

31   **<u>Kharrazi H</u>**, Bennett W, Wilson R, Zhang A, Tseng E, Knapp E, Stuart E, Shogbesan O, Bass E, Cheskin L. A systematic review of data sources and data linkage methods in natural experiment studies of obesity. *Proceedings of Academy Health Annual Research Meeting (HIT Interest Group).* 2018; Seattle, WA: Academy Health

32   **<u>Kharrazi H</u>**, Stephan C. Current and emerging issues for population health informatics in healthcare and public health [2017]. *Proceedings of American Medical Informatics Association Annual Symposium Workshop.* 2017; Washington DC: AMIA

33   Caban J, Dowding D, Wu D, **Kharrazi H**, West V. Current state of visualization of EHR data: What's needed? What's next? *Proceedings of American Medical Informatics Association Annual Symposium.* 2017; 359-360. Washington DC: AMIA

34   Gharghabi F*, Anzaldi L, Richards T, Weiner JP, **<u>Kharrazi H</u>**. Measuring the value of EHR's free-text in identifying geriatric risk factors. *Proceedings of American Medical Informatics Association Annual Symposium.* 2017; 71-72. Washington DC: AMIA

35   Ford E, **Kharrazi H**. Forecasting the maturation of EHR functions among U.S. hospitals. *Proceedings of American Medical Informatics Association Annual Symposium.* 2017; 65-66. Washington DC: AMIA

36   **<u>Kharrazi H</u>**, Box T, Fihn S, Weiner JP. Analyzing prevalence of obesity among VHA patients using clinical, temporal, and geographical data extracted from a nationwide EHR. *Proceedings of American Medical Informatics Association Annual Symposium.* 2017; 105-106. Washington DC: AMIA

37   Kan H, **Kharrazi H**, Chang H-Y, Weiner JP. A comparison of using full and partial information from administrative claims data to predict future health care costs. *Proceedings of American Medical Informatics Association Annual Symposium.* 2017; 101-102. Washington DC: AMIA

38   Anzaldi L*, Lasser E, Sharfstein J, **<u>Kharrazi H</u>**. Identifying and predicting falls among elderly residents of Baltimore city using hospital discharge summaries and health information exchange data. *Proceedings of American Medical Informatics Association Annual Symposium.* 2017; 17-18. Washington DC: AMIA

39   **<u>Kharrazi H</u>**, Lee J, Padula W, Kan H, Burkom H, Saria S. Statistical methodologies for identifying, modeling, and managing subpopulations at risk. *Proceedings of Joint Statistical Meeting.* 2017; Baltimore, MD: American Statistical Association [Discussant]

40   **<u>Kharrazi H</u>**, Anzaldi L, Gharghabi F, Richards T, Weiner JP. Measuring the value of EHRs in identifying geriatric risk factors. *Proceedings of Academy Health Annual Research Meeting.* 2017; New

Orleans, LA: Academy Health

41   **<u>Kharrazi H</u>**, Chi W, Chang H-Y, Richards TM, Gallagher JM, Knudson SM, Weiner JP. Comparing the value of diagnostic and medication data extracted from EHR versus claims in risk stratification. *Proceedings of Academy Health Annual Research Meeting.* 2017; New Orleans, LA: Academy Health

42   **<u>Kharrazi H</u>**, Box T, Fihn S, Weiner JP. Using EHR records to analyze the trajectory of obesity among VHA patients from 2000 to 2015. *Proceedings of Academy Health Annual Research Meeting.* 2017; New Orleans, LA: Academy Health

43   Sheehan OC, Gabbard J, Carl KJ, Wolff JL, **Kharrazi H**, Leff BA, Boyd C. Patient and family perspectives on medication management for older adults receiving home health care: strengthening informal support resources for older adult patients. *Proceedings of International Association of Gerontology and Geriatrics.* 2017; San Francisco, CA: IAGG
PMCID: PMC6183367

44   Nassery N, Mane K, Liu F, Sangha NX, Sharp AL, Shamim EA, Rubenstein KB, **Kharrazi H**, Nagy P, Kanter MH, Horberg M, Ford D, Pronovost PJ, Newman-Toker DE. Measuring missed strokes using administrative and claims data: towards a diagnostic performance dashboard to monitor diagnostic errors. *Proceedings of Diagnostic Error in Medicine.* 2016; Los Angeles, CA: DeGruyter

45   Karami A*, Gangopadhyay A, Zhou B, **<u>Kharrazi H</u>**. A fuzzy approach model for uncovering hidden latent semantic structure in medical text collections. *Proceedings of iConference.* 2015; e1-5: iSchools

46   Dixon B, Pina J, Richards J, **Kharrazi H**, Turner A. Public and global health informatics year in review [2015]. *Proceedings of American Medical Informatics Association Annual Symposium.* 2015; Washington DC: AMIA

47   **<u>Kharrazi H</u>**. Evaluation of stage-3 care coordination Meaningful Use objectives among eligible hospitals [Maryland and Arkansas]. *Proceedings of Academy Health Annual Research Meeting.* 2014; San Diego, CA: Academy Health

48   **<u>Kharrazi H</u>**, Joshi A, Loonsk J. Current and emerging issues for population health informatics in healthcare and public health [2013]. *Proceedings of American Medical Informatics Association Annual Symposium.* 2013; Washington DC: AMIA

49   Dixon B, Pina J, Richards J, **Kharrazi H**, Turner A. Public and global health informatics year in review [2014]. *Proceedings of American Medical Informatics Association Annual Symposium.* 2014; 166-168. Washington DC: AMIA

50   **<u>Kharrazi H</u>**. Evaluation of stage 3 meaningful use objectives among hospitals. *Proceedings of American Medical Informatics Association Annual Symposium.* 2014; 57-58. Washington DC: AMIA

51   Loonsk J, **Kharrazi H**. A hybrid electronic surveillance design pattern for public and population health. *Proceedings of American Medical Informatics Association Annual Symposium.* 2014; 71-72. Washington DC: AMIA

52   Gudzune K, Lemke K, **Kharrazi H**, Weiner JP. Refining a patient risk assessment using Adjusted Clinical Groups (ACG) with outpatient lab results. *Proceedings of American Medical Informatics Association Annual Symposium.* 2014; 42-43. Washington DC: AMIA

53   **Kharrazi H**. 'Clinical Knowledge Hub' – conceptual integration of rules, data sets, and queries: A proof of concept pilot. *Proceedings of Academy Health Annual Research Meeting.* 2013; Baltimore, MD: Academy Health

54   **Kharrazi H**, Joshi A, Loonsk J. Current and emerging issues for population health informatics in healthcare and public health [2013]. *Proceedings of American Medical Informatics Association Annual Symposium Workshop.* 2013; Washington DC: AMIA

55   Dixon B, Turner A, Pina J, Richards J, **Kharrazi H.** Public and global health informatics year in review [2013]. *Proceedings of American Medical Informatics Association Annual Symposium.* 2013; 326-328. Washington DC: AMIA

56   **Kharrazi H**, Lu AS, Gharghabi F, Coleman W. The effectiveness of health games in improving health outcomes: a systematic review. *Proceedings of Midwestern Conference on Health Games.* 2011. Indianapolis, IN: IUPUI

57   Mokashi A, **Kharrazi H,** Otley A. Can a video game improve adherence to treatment in children with type 1 diabetes? *Proceedings of the American Diabetes Association 71st Scientific Sessions.* 2011; San Diego, CA: American Diabetes Association

58   **Kharrazi H**, Mehrabi S. Meaningful use of personal health records. *Proceedings of Individualized Healthcare Conference.* 2011. Washington DC: AMA-IEEE Medical Technology

59   **Kharrazi H**, Vincz L. Using health information technology and behavior change model to increase exercise adherence in obesity. *Proceedings of Individualized Healthcare Conference.* 2011. Washington DC: AMA-IEEE Medical Technology

60   **Kharrazi H**, Rand K, Ross T, Militello L. Behavioral change health games: From theory to practice. *Proceedings of Midwestern Conference on Health Games.* 2010; Indianapolis, IN: IUPUI

61   Vincz L*, **Kharrazi H**. Interactive health information technology and obesity. *Proceedings of Midwestern Conference on Health Games.* 2010; Indianapolis, IN: IUPUI

62   Locke T*, **Kharrazi H**. Health games and attention deficit hyperactivity disorder: opportunities and challenges. *Proceedings of Midwestern Conference on Health Games.* 2010; Indianapolis, IN: IUPUI

63   **Kharrazi H**. A behavior change game for people with type 1 diabetes. *Proceedings of Games for Health Fifth Annual Conference.* 2009*;* Boston, MA: Robert Wood Johnson Foundation

64   Paterson G, **Kharrazi H**, Taylor B, Abidi S, Mensink N, Cheng C. Caregiver, researcher and educator responses to the training requirement for applied clinical informatics subspecialty. *Proceedings of the 9th Annual Symposium on Medical Professions Education.* 2009; Halifax, NS: Dalhousie Press

65   **Kharrazi H**, Watters C, Oore S, Liu F. Improving behavioral stages in children by adaptive applications. *Proceedings of Information Technology and Communications in Health.* 2007; Victoria, BC: ITCH

66   **Kharrazi H**, Lichodzijewski P. Efficient evolution of rule-based classifiers: Findings of the application in breast cancer diagnosis. *Proceedings of Dalhousie Computer Science In-House Conference.* 2007; Halifax, NS: Dalhousie Press

67   Lichodzijewski P, **Kharrazi H**. Efficient evolution of rule-based classifiers: An application in medical diagnosis. *Proceedings of the 11th International Symposium on Health Information Management Research.* 2006; 122-124. Halifax, NS: iSHIMR

68   **Kharrazi H**. An automated telephony natural speech interface as a 'virtual coach' for child healthcare. *Proceedings of the 3rd Annual Crossroads Conference.* 2005; Halifax, NS: Dalhousie Press

69   Watters C, Liu F, **Kharrazi H**, Oore S, Kellar M, Shepherd M. Building classes of entertaining games for health education. *Proceeding of Digital Games Research Association: Changing Views - Worlds in Play.* 2005; Vancouver, BC: DiGRA

Conference Posters *(peer reviewed)*[8]

1   Kalari VK, **Kharrazi H**, Wilcox HC. Now screening – suicidality and ASD: can the emergency department paly a leading role? *The Scientific Proceedings of the 69th Annual Meeting of the American Academy of Child & Adolescent Psychiatry.* 2022; Toronto, Canada: AACAP/CACAP. Published in the *Journal of the American Academy of Child & Adolescent Psychiatry. 2022*; 61(10): S237–S238. *URL: Link DOI: 10.1016/j.jaac.2022.09.310*

2   Sood PD*, Liu S, Chang HY, **Kharrazi H**. Measuring the effect of EHR data quality in identifying type 2 diabetes population across common phenotype definitions of diabetes. *Proceedings of American Medical Informatics Association Annual Symposium.* 2022; [in-press] Washington DC: AMIA

3   Chang HY, Kitchen C, Weiner JP, **Kharrazi H**. Identification and prediction of severe hypoglycemia using structured and unstructured EHR data among type-2 diabetes patients. *Academy Health Annual Research Meeting.* 2022; Washington DC: Academy Health

4   Pandya CJ, Hatef E, Wu J, Richards T, Weiner JP, **Kharrazi H**. Using claims and electronic health records data to assess the impact of social needs on healthcare utilization and costs

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[8] See http://hkharrazi.com?section=pub for links and full text of the posters.

within Medicaid population. *Academy Health Annual Research Meeting.* 2022; Washington DC: Academy Health

5   Kitchen C, Chang HY, Weiner JP, **Kharrazi H**. Assessing added value of vital signs (BMI & BP) extracted from EHRs in the performance of healthcare risk adjustment models. *Proceedings of American Medical Informatics Association Annual Symposium.* 2021; 1708. San Diego, CA: AMIA

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Annual Research Meeting. 2019; Washington DC: Academy Health

15   Li A* & **Kharrazi H**. Measuring HCUP's quality of demographic data: a case-study of Maryland's hospital discharge data. *Academy Health Annual Research Meeting.* 2019; Washington DC: Academy Health

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18   **Kharrazi H**, Chang H-Y, Weiner JP, Gudzune K. Using EHR-based blood pressure to improve claims-based prediction models of cost and utilization. *Academy Health Annual Research Meeting.* 2019; Washington DC: Academy Health

19   **Kharrazi H**, Anzaldi L. Using hospital discharge summaries to measure the incident and predict geriatric falls in Maryland. *Academy Health Annual Research Meeting.* 2018; Seattle, WA: Academy Health

20   **Kharrazi H**, Lasser E, Richards T, Ma X, Weiner JP. Comparison of diagnostic data collected in EHRs versus insurance claims [using HealthPartners data]. *Academy Health Annual Research Meeting.* 2018; Seattle, WA: Academy Health

21   Husain A*, Sridharma S, **Kharrazi H**. Prevalence of pediatric fall injuries: a statewide study. *Academy Health Annual Research Meeting.* 2018; Seattle, WA: Academy Health

22   **Kharrazi H**, Ford E. An update on forecasting the maturation of EHR functions among U.S. hospitals. *Academy Health Annual Research Meeting.* 2018; Seattle, WA: Academy Health

23   Kan HJ, Chang H-Y, **Kharrazi H**, Weiner JP. A comparison of risk adjustment models based on traditional statistical and machine learning techniques in predicting health care costs in older adults. *Academy Health Annual Research Meeting.* 2018; Seattle, WA: Academy Health

24   **Kharrazi H**, Searle K, Box T, Fihn S, Weiner JP. Spatial distribution of obesity among the U.S. veteran health administration's male population in 2015. *Academy Health Annual Research Meeting.* 2017; New Orleans, LA: Academy Health

25   Kan HJ, **Kharrazi H**, Leff B, Boyd C, Davison A, Chang H-Y, Kimura J, Lasser E, Weiner JP. Geriatric risk factors and their association with health care use in the elderly population. *Academy Health Annual Research Meeting.* 2017; New Orleans, LA: Academy Health

26   **Kharrazi H**, Anzaldi L, Lasser E, Sharfstein J. Baltimore falls reduction initiative engaging

neighborhoods & data (B'FRIEND). *Academy Health Annual Research Meeting*. 2017; New Orleans, LA: Academy Health

27   **Kharrazi H**, Lasser EC, Yasnoff WA, Loonsk J, Advani A, Lehmann HP, Chin DC, Weiner JP. A proposed national research and development agenda for population health informatics. *Academy Health Annual Research Meeting*. 2017; New Orleans, LA: Academy Health

28   Chang H-Y, Richards TM, Weiner JP, **Kharrazi H**. Using medication adherence extracted from EHR prescriptions and pharmacy claims fills to improve risk stratification. *Academy Health Annual Research Meeting*. 2017; New Orleans, LA: Academy Health

29   Chan KS, **Kharrazi H**, Parikh MA, Ford EW. Assessing EHR implementation challenges using item response theory. *Academy Health Annual Research Meeting*. 2017; New Orleans, LA: Academy Health

30   **Kharrazi H**, Wilcox H, Wissow L, Wilson R, Musci R, Zhang A, Robinson K. Data Linkage Strategies to Advance Suicide Prevention. *Academy Health Annual Research Meeting*. 2016; Boston, MA: Academy Health

31   Lu AS & **Kharrazi H**. A comprehensive content analysis of games for health. *International Society of Behavioral Nutrition and Physical Activity Convention*. 2015, Edinburgh, Scotland: ISBNPA

32   **Kharrazi H**. Development of a community-wide HIE-based hospital readmission risk prediction and notification system: A feasibility and evaluation study. *Academy Health Annual Research Meeting*. 2014; San Diego, CA: Academy Health

33   **Kharrazi H**. The role of 'Big Data' in community-wide population healthcare delivery and research: Case study and matching conceptual framework. *Academy Health Annual Research Meeting*. 2014; San Diego, CA: Academy Health

34   **Kharrazi H**. The role of big data in community-wide population healthcare delivery and research. *American Medical Informatics Association Annual Symposium*. 2014; 1458. Washington DC: AMIA

35   **Kharrazi H**. 'Clinical Knowledge Hub' – technical integration of rules, data sets, and queries: a pilot study. *American Medical Informatics Association Annual Symposium*. 2012; 1812. Chicago, IL: AMIA

36   Vincz L*, **Kharrazi H**. Increasing physical activity by implementing a behavioral change intervention using information technology. *Midwestern Conference on Health Games*. 2011. Indianapolis, IN: IUPUI

37   Blue T*, **Kharrazi H**. Unlocking the potential use of video games in behavioral therapy of young children with attention deficiency/hyperactivity disorder. *Midwestern Conference on Health Games*. 2011. Indianapolis, IN: IUPUI

38   **Kharrazi H**, Watters C. Changing behavioral stages in diabetic children by adaptive interactive applications: theoretical considerations. *11th World Congress on Internet in Medicine*. 2006; Toronto, ON: MedNet

Keynotes and Invited Panels *(not peer-reviewed)*

1   **Kharrazi H**. Population Health Informatics: what, how, and why? *Brown University's Learning Health Systems Rehabilitation Research Network (LeaRRn)*. 2023; Providence, RI (virtual).

2   **Kharrazi H**. Informatics and population health: challenges and opportunities. *American College of Medical Informatics (ACMI) Conference*. 2023; San Juan, PR.

3   Clark C, **Kharrazi H**, Davis S, Nelson G, Everson J [moderator]. Responsible Stewardship of Machine Learning and Algorithmic Bias. *DHHS ONC (Office of National Coordinator) Annual Meeting*. 2022; Washington DC (virtual).
https://www.healthit.gov/news/events/2022-onc-virtual-annual-meeting

4   Pickering C, Vest JR, Tanzman B, Abujarad F, **Kharrazi H** [moderator]. Electronic referrals for connected & integrated service delivery for vulnerable older adult populations. *Proceedings of AMIA Annual Symposium*. 2018; San Francisco, CA.

5   **Kharrazi H**. Methods for Evaluating Natural Experiments in Obesity: A Systematic Evidence Review (KQ1). Presented at: *NIH Methods for Evaluating Natural Experiments in Obesity*; Dec 2017; Bethesda MD.
https://prevention.nih.gov/p2p-workshop/2017/methods-evaluating-natural-experiments-obesity/agenda/day-1

6   **Kharrazi H**. Population Health Informatics: Past, Present, and Future. Presented at: *Health Policy Seminar – George Mason University, Department of Health Administration and Policy*. Oct 2017; Fairfax, VA.

7   **Kharrazi H**. Population Health Informatics and Visualization [Keynote Address]. Presented at: *IEEE VIS – VAHC 2017*. Oct 2017; Phoenix, AZ.
http://www.visualanalyticshealthcare.org/speakers.html

8   **Kharrazi H**. Population Health Informatics: Challenges, Opportunities, and Case Studies. Presented at: *Population Health Forum – Thomas Jefferson University, Jefferson College of Population Health*. Sep 2017; Philadelphia, PA.
http://jdc.jefferson.edu/hpforum/113/
http://events.r20.constantcontact.com/register/event?oeidk=a07eed31tcx346a4e9fc&llr=lrj4tqkab

9   **Kharrazi H**, Fihn S, Advani A, Kachur S, Sutariya B, Yasnoff W. A Proposed National Research and Development Agenda for Population Health Informatics: Case Studies and Future Directions. Presented at: *iHealth 2017 Clinical Informatics Conference (AMIA)*; May 2017; Philadelphia, PA.
https://www.amia.org/ihealth2017/panels

10   **Kharrazi H**, Wilcox H. Data Linkage Strategies and Methods to Advance Youth Suicide

Prevention. Presented at: *NIH Pathways to Prevention Workshop: Advancing Research to Prevent Youth Suicide*; Mar 2016; Bethesda MD.
https://prevention.nih.gov/programs-events/pathways-to-prevention/workshops/binders/2016/suicide-prevention/day-1

11 **Kharrazi H**, Yasnoff W. Learnings from the 'Population Health Informatics' conference. Presented at: *Institute of Medicine – Population Health Board*; May 2014; Washington DC.

12 **Kharrazi H**. What is 'Health Informatics', and how it can be leveraged to propel healthcare in emerging markets? Presented at: *IAAPDC – Academics and Professionals*; 2014; Bethesda, MD.
http://www.iaapdc.org/2014/04/

13 **Kharrazi H**. Using 'Meaningful Use' to provide population 'Decision Support Systems' for 'Accountable Care Organizations': Challenges and opportunities. Presented at: *Medical Informatics World Conference*; Apr 2014; Boston, MA.
http://www.medicalinformaticsworld.com/hit_content.aspx?id=139519&libID=139490

14 **Kharrazi H**. 'Health Information Exchanges' and 'Big Data': Challenges and opportunities. Presented at: *Big Data and Analytics in Healthcare: Reduce Costs and Increase Performance*; Apr 2013; Philadelphia, PA.

15 Weiner JP, **Kharrazi H**, Sylvia M. Harnessing the power of data for population health. Presented at: *World Health Care Congress*; Apr 2013; Washington DC.

16 **Kharrazi H**. Contextualizing clinical decision support systems in tethered EHRs/PHRs: A new approach to population-based quality measures. Presented at: *Indiana Health Information Management Association (IHIMA)*; Apr 2012; Indianapolis, IN.

Other Presentations *(not peer-reviewed)*

1 **Kharrazi H**. Using CRISP data for population health research: the geriatric falls and suicide prevention projects. Presented at: *Johns Hopkins Institute for Clinical and Translational Research Symposium, 2019*; Baltimore, MD.

2 **Kharrazi H**, Weiner JP, Sharfstein J, Anzaldi L. Baltimore Falls Reduction Initiative Engaging Neighborhoods and Data (B'FRIEND). Presented at: *Baltimore City Health Department, 2016*; Baltimore, MD.

3 **Kharrazi H**. Hospital Health IT in the U.S.: Lessons Learned
Hospital IT System Design and Implementation. Presented at: *Chinese Hospital Delegation, 2014, 2015 and 2016*; Baltimore, MD.

4 Loonsk JW, Weiner JP, **Kharrazi H**. A hybrid digital design pattern for public and population health surveillance. Presented at: *CDC PHI Conference*; Feb 2014; Atlanta, GA.

5 **Kharrazi H**. Public health informatics or population health informatics: Setting the debate context. Presented at: *Population Health Informatics Presymposium Workshop at AMIA Symposium*. Nov 2013; Washington DC.

ADDITIONAL INFORMATION

Keywords

Primary: Population Health Informatics; Population Health Management; Risk Stratification; Predictive Analytics; Utilization Modeling; and Data Quality

Secondary: Meaningful Use; EHR Adoption; Public Health Informatics; Clinical Informatics; Clinical Decision Support Systems; and Consumer Health Informatics

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