CURRICULUM VITAE
(Revised September 30, 2010)

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ACADEMIC TRAINING

Haverford College, B.S. (Chemistry)

Columbia University, M.D.

Columbia University, M.S. (Biostatistics, Mailman School of Public Health)

NYS Medical License

TRAINEESHIP AND BOARD CERTIFICATION

Internship: Internal Medicine, Presbyterian Hospital in the City of New York, 1985–1986

Residency: Internal Medicine, Presbyterian Hospital in the City of New York, 1986–1988

Certification: Internal Medicine Boards, 1988

Certification: Good Clinical Practices, Columbia University & NewYork-Presbyterian, 2000

Certification: HIPAA Training Course, Columbia University, 2003

Certification: Research with Minors (CITI), 2008

APPOINTMENTS

Post-Doctoral Research Scientist, Center for Medical Informatics, Columbia University, 7/1/88–3/31/89

Associate Research Scientist, Center for Medical Informatics, Columbia University, 4/1/89–6/30/91

Assistant Professor of Medical Informatics (in Medicine), Columbia University, 7/1/91–6/30/98

Associate Professor of Medical Informatics (with tenure), Columbia University, 7/1/98–6/30/03

Acting Chair, Department of Medical Informatics, Columbia University, 9/8/98–12/31/99

Director of Clinical Information Services, NewYork-Presbyterian, 9/8/98–12/31/99

Vice Chair, Department of Biomedical Informatics, Columbia University, 1/1/00–3/11/07
(the department changed its name from Medical Informatics on 6/7/03)

Associate Director, Medical Informatics Services, NewYork-Presbyterian, 1/1/00–6/30/2007

Professor of Biomedical Informatics, Columbia University, 7/1/2003–present

Senior Informatics Advisor, New York City Department of Health and Mental Hygiene, 4/24/2006–present

Director, Center for Advanced Information Management, Columbia University, 3/1/2007–present

Chair, Department of Biomedical Informatics, Columbia University, 7/1/2007–present

Director, Medical Informatics Services, NewYork-Presbyterian Hospital/Columbia, 7/1/2007–present

Vivian Beaumont Allen Professor of Biomedical Informatics, Columbia University, 10/31/2008–present

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

American College of Medical Informatics, 1995–present
    Awards Committee, 2001–2007
    Nominations Committee, 2002–2007

American Medical Informatics Association
    Board of Directors, 1998–2000
    Executive Committee of the Board (as Board Member at Large), 2000
    Chair—AMIA Standards Committee, 1997–1998
    AMIA Meetings Committee, 1994–1997
    AMIA Nominations Committee, 1995–1996, 2008–2009

American National Standards Institute
    AMIA representative—Healthcare Informatics Standards Board, 1996–1998

Association of American Medical Colleges
    Voting member—Professional Development Group on Information Resources (GIR), 1998–present
    IAIMS: The Next Generation Review Panel, 1999–2001

ASTM International Standards Organization
    Secretary—Subcommittee E31.15 Health Knowledge Representation, 1991–1998
    Chair—Task Group E31.15.02 Arden Syntax, 1991–1998

National Library of Medicine
    Biomedical Library and Informatics Review Committee, 2001–2005 (Chair 2004–2005)

New York Academy of Medicine, 2000–present
    Library Committee, 2002–present

Institute of Medicine
    Committee on the Assessment of the U.S. Drug Safety System, 2005–2006
    Workshop on Electronic Infrastructure for the Learning Healthcare System, 2010

Office of the National Coordinator of Health Information Technology, HHS
    Co-chair—Meaningful Use Workgroup of the HIT Policy Committee, 2009–present
    Member—Certification/Adoption Workgroup of the HIT Policy Committee, 2010–present
    Member—Information Exchange Workgroup of the HIT Policy Committee, 2010–present
    Member—Public Health Tiger Team, 2010-present

New York Academy of Sciences, 2010–present

National Academies of Science
    Member—Committee on Centers for Medicare & Medicaid Services Systems Modernization, 2010–present

HONORS

Desmond Costello Scholarship, 1977–1981

Phi Beta Kappa, Haverford College, 1980

Summa Cum Laude, Haverford College, 1981

Honors in Chemistry, Haverford College, 1981

Alpha Omega Alpha, Columbia University, 1984

Fellow of the American College of Medical Informatics, 1995

National Information Infrastructure Award in Health, 1996

Fellow of the New York Academy of Medicine, 2000

AMIA Fall Symposium Best Paper on an Application, 1996
  Jain NL, Knirsch C, Friedman C, Hripcsak G. Identification of suspected tuberculosis patients based on natural language processing of chest radiograph reports. Proc AMIA Annu Fall Symp 1996:542–6.

AMIA Symposium Best Theoretical Paper, 1998
  Friedman C, Hripcsak G, Shablinsky I. An evaluation of natural language processing methodologies. Proc Amia Symp 1998:855–9.

AMIA Symposium Best Paper on an Application, 2002
  Stetson PD, Johnson SB, Scotch M, Hripcsak G. The sublanguage of cross-coverage. Proc AMIA Symp 2002: 742–6.

AMIA Symposium Distinguished Paper Award, 2008
  Gold S, Elhadad N, Zhu X, Cimino JJ, Hripcsak G. Extracting structured medication event information from narrative clinical notes. Proc AMIA Symp 2008:237-41.

eTELEMED Best Paper, 2009
  Zhu X, Gold S, Lai A, Hripcsak G, Cimino JJ. Using Timeline Displays to Improve Medication Reconciliation. International Conference on eHealth, Telemedicine, and Social Medicine (eTELEMED 2009), 2009 February 1-7; Cancun, Mexico, 2009.

Papers selected for Annual IMIA Yearbook of Medical Informatics: 1994, 1996, 1999, 2007, 2008

FELLOWSHIP AND GRANT SUPPORT (LEADERSHIP ROLES)

Principal Investigator—National Library of Medicine R01 LM06910-10 "Discovering and applying knowledge in clinical databases," September 2009 to September 2013 ($1,583,159 award)

Principal Investigator—National Library of Medicine R01 LM06910-09S1 "Discovering and applying knowledge in clinical databases" (supplement), August 2009 to July 2010 ($152,617 award)

Principal Investigator—National Library of Medicine T15 LM007079-14 "Training in Biomedical Informatics at Columbia University," July 2007 to June 2012 ($6,867,899 award)

Principal Investigator—New York State Foundation for Science, Technology and Innovation (NYSTAR) C070123 "Center for Advanced Information Management," July 2007 to June 2010 ($3,000,000 award).

Principal Investigator—The Smart Family Foundation Inc. grant, "Biomedical informatics research," December 2008 to November 2009 ($25,000 award)

Principal Investigator—Microsoft Research "Phenotypic pipeline for genome-wide association studies," April 2008 to April 2009 ($151,100 award)

Co-Principal Investigator (Carol Friedman PI)—National Library of Medicine R01 LM08635 "A biomedical natural language processing resource," July 2005 to June 2009

Principal Investigator of R01 and co-PI of center (Farzad Mostashari center PI)—Centers for Disease Control and Prevention P01HK000029-020003 "Public Health Reporting" in NYC Center of Excellence in Public Health Informatics, August 2006 to July 2009 ($831,000 subcontract award, $3,000,000 total center award)

Principal Investigator—National Library of Medicine R01 LM06910-07 "Discovering and applying knowledge in clinical databases," September 2006 to September 2009 ($1,083,735 award)

Principal Investigator—National Library of Medicine R01 LM06910-04 "Discovering and applying knowledge in clinical databases," June 2003 to May 2006 ($1,143,134 award)

Principal Investigator—National Library of Medicine R01 LM06910-01 "Discovering and applying knowledge in clinical databases," April 2000 to March 2003 ($1,216,034 award)

Principal Investigator—Agency for Healthcare Research and Quality R18 HS11806 "Mining complex clinical data for patient safety research," September 2001 to August 2004 ($1,085,608 award)

Principal Investigator—Pfizer Inc. NY01-002153889 "Using information systems to advance clinical research and clinical care," January 2001 to December 2001 ($100,000 award)

Principal Investigator—New York State Science and Technology Foundation "Wearable computers," April 2001 to June 2001 ($10,000 award)

Principal Investigator—National Library of Medicine R29 LM05627 "Linking knowledge-based systems to clinical databases" (First Award), June 1994 to May 1999 ($564,000 award)

Principal Investigator—Pfizer Inc. "Community acquired pneumonia management," January 1998 to December 1998 ($56,000 award)

Principal Investigator—New York State Science and Technology Foundation "Wireless access to clinical information and physician-driven reminders," July 1996 to June 1997 ($70,000 award)

Principal Investigator—US Department of Commerce TIIAP 36-40-94065 "Applied Informatics," October 1994 to April 1996 ($2,600,000 total project cost: $733,000 from US Dept. of Commerce; $80,000 from CTIA Foundation for Wireless Telecommunications and NYNEX Mobile Communications; $1,000,000 from IBM; balance from Visiting Nurse Service of New York, New York City Dept. of Health, and Trustees of Columbia University)

Principal Investigator—Agency for Health Care Policy and Research R13 HS08761 "Capturing the Clinical Encounter" (Conference Grant), June 1995 to May 1996 ($23,000 award)

Principal Investigator—The Smart Family Foundation Inc. grant, "Computer Technology to Improve Health Care," November 1995 to October 1996 ($10,000 award)

Principal Investigator for Columbia University subcontract (Carol Friedman overall PI)—National Library of Medicine R01 LM06274 (continuation) "Unlocking data from medical records with text processing," January 2001 to December 2003 ($432,581 subcontract award, $878,193 total award)

Principal Investigator for Columbia University subcontract (Carol Friedman overall PI)—National Library of Medicine R01 LM06274 "Unlocking data from medical records with text processing," July 1997 to June 2000 ($315,000 subcontract award, $632,000 total award)

Faculty Sponsor (for PI Joseph Finkelstein)—New York State Science and Technology Foundation "Computerized pulmonary monitoring center," July 1997 to June 1998 ($100,000 award)

DEPARTMENTAL AND UNIVERSITY COMMITTEES

Chair—Research Committee, Department of Medical Informatics, Columbia University, 1992–1998

Chair—Departmental Committee on Human Investigation, Department of Medical Informatics, Columbia University, 1995–1998

Research Advisory Committee, College of Physicians and Surgeons, Columbia University, 1994–1999

Faculty Council of the Faculty of Medicine, Columbia University, 1997–present
    Executive Committee of the Faculty Council (elected), 2004–2007

Health Sciences Task Force on New Media, Columbia University, 1999–2001

Ad Hoc Committee on Research in Error Reduction, Columbia University, Cornell University, and New York
    Presbyterian Healthcare, 2000–2002

Information Technology Committee of the Board of Trustees of NewYork-Presbyterian Hospital, 2000–present

Health Sciences Conflict of Interest Committee, Columbia University, 2000–2007

P & S Club Faculty Advisory Board, College of Physicians and Surgeons, Columbia University, 2001–2005

Executive Subcommittee of the Strategic Planning Committee for Patient Care, Columbia University, 2001–2002

University Senate Committee on Online Learning and Digital Media Initiatives, Columbia University, 2002–
    present (as non-senator committee member until 2006)

University Senate, Columbia University, 2006–present

Clinical Trials Advisory Committee, Columbia University, 2000–2005

Clinical Trials Office Strategic Advisory Committee, Columbia University, 2005–present

Columbia Faculty Practice Organization Information Technology Committee, 2006–present

CUMC Space Advisory Committee, Columbia University, 2007–present

Doctoral Program Subcommittee on Biostatistics, Columbia University, 2008–present

New York Presbyterian Hospital Medical Board, 2007–2011

Columbia Faculty Practice Organization Physician Champion Committee, 2007–present

New York Presbyterian Hospital Trustee Committee on External Relations, 2008–present

Task Force on E-Science, Columbia University, 2008–2009

TEACHING EXPERIENCE AND RESPONSIBILITIES

Training director—Graduate programs in biomedical informatics, including masters, PhD, and post-doctoral
    students, 2007–present

Course director—MINF G6001 Projects in Biomedical Informatics for Postdocs; 3 students, 2009

Course director—MINF G4060 Evaluation Methods in Medical Informatics; 7 students per year, 1997–2004

Course director—Research Elective in Medical Informatics; 26 students total, 1995–1998

Course director—MINF G4001 Introduction to Medical Informatics; 25 students per year, 1993–1995

Course director—Arden Syntax Tutorial, Symposium on Computer Applications in Medical Care; 50 students per
    year, 1993–1995

Director—Center for Medical Informatics Seminar Series, 1991–1992

Instructor—W4995 Topics in Medical Informatics; 4 students, 1994

Instructor—MINF G4001 Introduction to Medical Informatics, 2001–present

Instructor—MINF G4003 Methods in Biomedical Informatics; 30 students, 2005–present

Instructor—Medical Informatics course, held at Woods Hole, MA, sponsored by the National Library of Medicine; 30 students per year, 1996–1999, 2003–2006

Instructor—Fourth-Year Medical Student Biomedical Informatics Course; 150 students per year, 2006–present

Guest Lecturer—NIH Clinical Elective in Medical Informatics for medical students, 1998–2002

Doctoral research advisees
Adam Wilcox, Ph.D.—"Automated classification of medical text reports," 1995–2000
    now Assistant Professor of Biomedical Informatics, Columbia University
    (First Place Student Paper Award, AMIA 2000 Symposium)
    (HIMSS scholarship, 2000)
    (Student Paper Finalist, AMIA 1999 Symposium)
Jen-Hsiang Chuang, M.D., Ph.D.—"Automated abstraction of medical records for patient outcomes," 2000–2002
    now Assistant Professor of Medical Informatics, National Yang-Ming University, Taiwan
    (Student Paper Finalist, AMIA 2000 Symposium)
    (Student Paper Finalist and Homer Warner Award nominee, AMIA 2002 Symposium)
Michael Krauthammer, M.D., Ph.D.—"Natural language processing for the extraction of molecular pathways from journal articles," 2001–2004
    now Assistant Professor of pathology and bioinformatics, Department of Pathology, Yale University
    (Third Place Student Paper Award, AMIA 2001 Symposium)
Hui Cao, M.S.—" Abstracting patient features from narrative medical records using a semantic, knowledge-based approach," 2001–2006
    now Senior Consultant at Deloitte Consulting
    (Student Paper Finalist, AMIA 2005 Symposium)
    (Passed thesis defense with distinction)
Li Zhou, B.Med., M.S.—"Extracting, representing and reasoning with temporal information in clinical narrative reports,"   2002–2007
    now Informatician at Partners Healthcare
    (Student Paper Finalist, AMIA 2005 Symposium)
Other graduate research advisees (masters, fellowship)
    Nilesh Jain, D.Sc.—health information networks, 1995–1996
        (Best Paper on an Application, AMIA 1996 Fall Symposium)
    Joseph Finkelstein, M.D., Ph.D.—telemedicine, 1996–1999
        now Assistant Professor, Department of Epidemiology and Preventive Medicine, University of Maryland
        (New York State Science and Technology Foundation grant)
        (Travel award, MEDINFO '98)
    Min Wu—Statistical approaches to security auditing, 1996–1997
    Jinsong Cai, Ph.D., M.A.—Telemedicine and data mining, 1998–2000
        (Student Paper Finalist, AMIA 2000 Symposium)
    Jacob Elkins, M.D.—Applying natural language processing to neuroradiology research, 1998–1999
    David Baorto, M.D., Ph.D.—Data warehousing, 1999–2000
        now Knowledge Engineer, NYP Clinical Info & Ops Supp
    Hong Yu, Ph.D.—Genomic data mining in clinical databases, 1999–2000
        now Associate Research Scientist in Biomedical Informatics, Columbia University
    Mona Chang—Automatically predicting patient classification using machine learning and knowledge-based imputations of risk factors, 2001
    Matthew Scotch—Wireless wearable computing, 2001–2002
    Paola Karina Tulipano—Automated detection of NYPORTS events, 2001–2003
    Alexander Yu—Calibrating adverse event detection to the literature, 2001–2003
    Davis Bu, M.D., M.A.—Uncovering adverse events via conflicts in the medical record, 2001–2004

now Informatician, Partners Healthcare, Boston
Peter Stetson, M.D., M.A.—Data mining for patient safety research, 2001–2003
    now Assistant Professor of Clinical Medicine and Clinical Medical Informatics, Columbia University
    (Best Paper on an Application, AMIA 2002 Symposium)
Shameek Biswas—Variance estimation in machine learning, 2003—2004
Genevieve Melton-Meaux, M.D., M.A.—Adverse event detection using narrative data, 2003–2005
    now Surgery Administrative Chief Resident, The Johns Hopkins University
Tara Borlawsky, M.A.—Pressure ulcer risk assessment model, 2004
Adam Rothschild, M.D., M.A.—Problem-driven computerized physician order entry, 2004–2005
Gerald Cohen, M.D.—Implementing preventive care guidelines in ambulatory practice, 2005–2006
Anshu Sinha, M.Eng.—Implementing regional clinical data exchange, 2006
Jason Shapiro, M.D.—Evaluating regional clinical data exchange, 2006–2009
Lily Li—Syndromic surveillance via natural language processing, 2007–2008
Sigfried Gold—Deriving medication lists from electronic medical records, 2007–2008
Adler Perotte—Computational methods in mining the EHR, 2009–present
Lena Mamykina (co-advisor)— Human-centered computing for patients and providers, 2009–present

Doctoral thesis committee member
Jou-Wei Lin, M.D., Ph.D.—"Improving image-based quantification of physiological functions through noise
    reduction: the use of wavelet methods on dynamic cardiac PET studies," 1996–1999
    (now Assistant Professor of Medical Informatics, Taipei, Taiwan)
Qing Zeng, Ph.D.—"Concept-oriented views of electronic medical records," 1996–1999
    (now Research Associate, Decision Systems Group, Harvard University)
Eneida A. Mendonça, M.D., Ph.D.—"Improving access to medical knowledge using automated extraction
    from the medical record," 1999–2002
David Campbell, Ph.D.—"Natural language processing and lexicon design," 2000–2004
    (Second Place Student Paper Award, AMIA 2001 Symposium)
Dongwen Wang, Ph.D.—"Clinical guideline development and maintenance," 2000–2003
Guoguang (Julie) MA, Ph.D.—"Extensions of the index of sensitivity to nonignorability (ISNI)," 2001
Hong Yu, Ph.D.—"Synonyms/homonym resolutions of gene and protein symbols and names," 2001–2003
Indra Neil Sarkar, Ph.D.—"Characteristic attribute organization system (CAOS)," 2001–2004
Elizabeth Chen, Ph.D.—"Knowledge discovery in clinical information system log files and the
    implications for wireless handheld clinical applications," 2002–2004
Hui Xie, Ph.D.—"An index of sensitivity to nonignorability: extensions and applications," 2003
Hong Tian, Ph.D.—"Cross-validation estimates of performance of learning algorithms: issues in variance
    estimation," 2003–2005
Paola Karina Tulipano—Classification of images incorporating clinical information, 2006–2007
Katie Zhu—Medication reconciliation and temporal visualization, 2006–2009
Xin Liu—Image processing using bilateral asymmetry, 2007–2008
Hua Xu—Using automated methods to handle biomedical abbreviations, 2007–2008
Anshu Sinha—Topics in the analysis of sparse and irregularly spaced time dependent gene expression data,
    2007–2010
Kai Wang—A systems biology approach for dissecting mammalian cellular networks, 2007–2008
Adam Margolin—Computational inference of genetic regulatory networks in human cancer cells,
    2007–2008
Kartik Mani—A systems biology approach to deciphering oncogenic mechanisms and drug activity in cancer
    cells, 2007–2008
Xiaoyan Wang—2008–present
Wei Keat Lim—Master regulators analysis of malignant transformations using molecular interaction
    networks, 2008–2009
Daniel Stein—Physician cooperative task management across patient handoffs, 2008–present

Karthik Natarajan—2009–present
Jesse Wrenn—2009–present
Tzu-Lin Hsiao—Global reconstruction of metabolic networks, 2009–2010

Developed the "Online Lecture Notes in Medical Informatics" while teaching MINF G4001 (1993–1995); the notes, which comprised 200 pages of outlined material, was downloaded by over 1000 persons interested in medical informatics and was used in over 90 courses and curricula around the world

OTHER PROFESSIONAL ACTIVIES

WebCIS—Responsible for the design, development, and management of WebCIS, the Web-based clinical information system of Columbia University Medical Center and NewYork-Presbyterian Hospital's Columbia Campus (7000 users), 1997–2007

Associate editor—Journal of the American Medical Informatics Association, 2003–2007

Associate editor—Computers in Biology and Medicine, 1994–2007

Editorial board member
Journal of the American Medical Informatics Association, 2001–2002, 2007–present
Journal of Biomedical Informatics, 2001–2007

Guest editor—Special issue on the Arden Syntax, Computers in Biology and Medicine 1994;24(5)

Guest editor—Annual IMIA Yearbook of Medical Informatics, 1994 and 1995 (Jan H. van Bemmel and Alexa T. McCray, editors. Stuttgart: Schattauer)

Program vice chair—American Medical Informatics Association Annual Symposium, November 10–14, 2007, Chicago

Program chair—American Medical Informatics Association Spring Congress, June 24–28, 1995; Boston

Scientific program or steering committee
American Medical Informatics Association Symposium (formerly SCAMC), 1991, 1996, 1999, 2003
Health Information Systems Technology Forum of the New York Academy of Medicine, 1997
Intelligent Data Analysis in Medicine and Pharmacology, 2004, 2010
National Health Information Infrastructure Conference topic expert in Measuring Progress, 2004
BioNLP ACL Workshop on NLP for Biology, Bench-to-Bedside, and Clinical Care, 2007

Grant reviewer
National Library of Medicine
Agency for Health Care Policy and Research
National Cancer Institute
John A. Hartford Foundation of New York
The Robert Wood Johnson Foundation
Indiana 21st Century Research and Technology Fund
Canada Foundation for Innovation's Research Hospital Fund (reviewed a $250,000,000 project)

Manuscript reviewer
Annals of Internal Medicine (acknowledged as one of the highest quality reviews 1997, 1999, 2000, 2001, 2002, 2003)
Journal of the American Medical Informatics Association
Journal of Biomedical Informatics
Computers and Biomedical Research
Computers in Biology and Medicine
International Journal of Medical Informatics

Gastrointestinal Endoscopy
American Medical Informatics Association Symposium (formerly SCAMC) and AMIA Spring Congress
MEDINFO
Artificial Intelligence in Medicine

External academic department reviews
Department of Biomedical Informatics, University of Utah, 2006
Department of Medical Education and Biomedical Informatics, University of Washington, 2009

Search committees
CIO for National Institutes of Health Clinical Center, 1998

Judge
Student Paper Competition, American Medical Informatics Association Symposium, 1998
National Information Infrastructure Awards, 1998

Technical Advisory Panel
Commissioned by Governor Phil Bredesen of Tennessee to oversee the AHRQ Volunteer eHealth Initiative of the Vanderbilt Center for Better Health, 2004–present (Chair, 2006–present)

Presentation to Tommy G. Thompson, Secretary of Health and Human Services, on health information infrastructure and patient safety, March 14, 2003.

Presentation to Leonel Fernandez, President of the Dominican Republic, on success factors for deploying information systems in health care, February 12, 2004

Presentation on "Mining a clinical data repository for clinical research and patient safety," Distinguished Lecture Series, University of South Alabama, October 15, 2004

Presentation to the National Library of Medicine Board of Regents on "Discovering and applying knowledge in clinical databases," February 15, 2005

Review panel member for the M. D. Anderson Cancer Center Electronic Medical Record Project, June 27, 2005

American Health Information Community Biosurveillance Data Elements Ad Hoc Group, 2006

Presentation on "Biomedical Research and Electronic Health Record" at the Personal Electronic Health Records Conference, National Library of Medicine, May 20, 2009

Panel organizer for NIH Conference on Widening the Use of Electronic Health Record Data for Research, National Center for Research Resources, October 30, 2009

Patent No. 5,555,191 "Automated Statistical Tracker," issued September 10, 1996

Patent No. 6,241,685 "Asthma monitoring technology," issued June 5, 2001

PUBLICATIONS—PEER-REVIEWED JOURNALS (EXCLUDING PROCEEDINGS AND SUPPLEMENTS)

Botsis T, Anagnostou V, Hartvigsen G, Hripcsak G, Weng C. Developing a multivariable prognostic model for pancreatic endocrine tumors using the clinical data warehouse resources of a single institution. Applied Clinical Informatics, accepted for publication.
Shapiro JS, Mostashari F, Hripcsak G, Soulakis N, Kuperman G. Using regional health information exchanges to improve public health. Am J Public Health, accepted for publication.
Khiabanian H, Holmes AB, Kelly BJ, Gururaj M, Hripcsak G, Rabadan R. Signs of the 2009 influenza pandemic in the New York-Presbyterian electronic health records. PLoS ONE 2010;5(9): e12658.

Evans AS, Lazar EJ, Tiase V, Fleischut P, Bostwick SB, Hripcsak G, Leibowitz R, Forese LL, Kerr G. The role of housestaff in implementing medication reconciliation on admission at an academic medical center. Am J Med Qual. 2010 May 25. [Epub ahead of print]

Shea S, Hripcsak G. Accelerating the use of electronic health records in physician practices. NEJM 2010;362:192-5.

Albers DJ, Hripcsak G. A statistical dynamics approach to the study of human health data: resolving population scale diurnal variation in laboratory data. Physics Letters A 2010;374:1159-64.

Botsis T, Anagnostou VK, Hartvigsen G, Hripcsak G, Weng C. Modeling prognostic factors in resectable pancreatic adenocarcinomas. Cancer Informatics 2009;7:281-91. PMC2865167

Sinha A, Hripcsak G, Markatou M. Large data sets in biomedicine: analytical issues. J Am Med Inform Assoc 2009;16:759-67.

Hripcsak G, Soulakis ND, Li L, Morrison FP, Lai AM, Friedman C, Calman NS, Mostashari F. Syndromic surveillance using ambulatory electronic health records. J Am Med Inform Assoc 2009;16:354-61. PMC2732227

Wang X, Hripcsak G, Markatou M, Friedman C. Active computerized pharmacovigilance using natural language processing, statistics, and electronic health records: a feasibility study. J Am Med Inform Assoc 2009;16:328-37. PMC2732239

Hripcsak G, Elhadad N, Chen C, Zhou L, Morrison FP. Using empirical semantic correlation to interpret temporal assertions in clinical texts. J Am Med Inform Assoc 2009;16:220-7. PMC2649319

Morrison FP, Li L, Lai A, Hripcsak G. Repurposing the clinical record: can an existing natural language processing system de-identify clinical notes? J Am Med Inform Assoc 2008;16:37-9. PMC2605586

Merrill J, Hripcsak G. Using social network analysis within a department of Biomedical Informatics to induce a discussion of academic communities of practice. J Am Med Inform Assoc 2008;15:780-2.

Cao H, Melton GB, Markatou M, Hripcsak G. Use of abstracted patient-specific features to assist an information-theoretic measurement to assess similarity between medical cases. J Biomed Inform 2008;41:882-8. PMC2584163

Sengupta S, Calman NS, Hripcsak G. A model for expanded public health reporting in the context of HIPAA. J Am Med Inform Assoc 2008;15:569-74.

Zhou L, Parsons S, Hripcsak G. The evaluation of a temporal reasoning system in processing clinical discharge summaries. J Am Med Inform Assoc 2008;15:99-106. PMC2274869

Chen Y, Perl Y, Geller J, Hripcsak G, Zhang L. Comparing and consolidating two heuristic metaschemas. J Biomed Inform, 2008;41:293-317.

Chen ES, Hripcsak G, Xu H, Markatou M, Friedman C. Automated acquisition of disease-drug knowledge from biomedical and clinical documents: an initial study. J Am Med Inform Assoc 2008;15:87-98. PMC2274872

Chapman WW, Dowling JN, Hripcsak G. Evaluation of training with an annotation schema for manual annotation of clinical conditions from emergency department reports. Int J Med Inform 2008;77:107-13.

Xu H, Fan JW, Hripcsak G, Mendonca EA, Markatou M, Friedman C. Gene symbol disambiguation using knowledge-based profiles. Bioinformatics 2007;23:1015-22.

Yu H, Lee M, Kaufman D, Ely J, Osheroff JA, Hripcsak G, Cimino J. Development, implementation, and a cognitive evaluation of a definitional question answering system for physicians. J Biomed Inform 2007;40:236-51.

Zhou L, Hripcsak G. Temporal reasoning with medical data - A review with emphasis on medical natural language processing. J Biomed Inform 2007;40: 183-202.
    (Republished in 2008 IMIA Yearbook of Medical Informatics.)

Hripcsak G, Sengupta S, Wilcox A, Green RA. Emergency department access to a longitudinal medical record. J Am Med Inform Assoc 2007;14:235-8. PMC2213459

Cao H, Hripcsak G, Markatou M. A statistical methodology for analyzing cooccurrence data from a large sample. J Biomed Inform 2007;40:343-52. PMC2041889

Hripcsak G, Knirsch C, Zhou L, Wilcox A, Melton GB. Using discordance to improve classification in narrative clinical databases: an application to community-acquired pneumonia. Comput Biol Med 2007;37:296-304.

Borlawsky T, Hripcsak G. Evaluation of an automated pressure ulcer risk assessment model. Home Health Care Management Practice 2007;19;272-84.

Melton GB, Parsons S, Morrison FP, Rothschild AS, Markatou M, Hripcsak G. Inter-patient distance metrics using SNOMED CT defining relationships. J Biomed Inform 2006;39:697-705.

Zhou L, Tao Y, Cimino JJ, Chen ES, Liu H, Lussier YA, Hripcsak G, Friedman C. Terminology model discovery using natural language processing and visualization techniques corresponding. J Biomed Inform 2006;39:626-36.

Zhou L, Melton GB, Parsons S, Hripcsak G. A temporal constraint structure for extracting temporal information from clinical narrative. J Biomed Inform 2006;39:424-39.

Markatou M, Tian H, Biswas S, Hripcsak G. Analysis of variance of cross-validation estimators of the generalization error. Journal of Machine Learning Research 2005;6:1127-68.

Miller RA, Gardner RM, Johnson KB, Hripcsak G. Clinical decision support and electronic prescribing systems: a time for responsible thought and action. J Am Med Inform Assoc 2005;12:403-9. PMC1174885

Melton GB, Hripcsak G. Automated detection of adverse events using natural language processing in discharge summaries. J Am Med Inform Assoc 2005;12:448-57. PMC1174890
    (Republished in 2007 IMIA Yearbook of Medical Informatics.)

Zhang L, Hripcsak G, Perl Y, Halper M, Geller J. An expert study for evaluation of the lexical metaschema of the UMLS Semantic Network. Artificial Intelligence in Medicine 2005;34:219-33.

Sittig DF, Shiffman RN, Leonard K, Friedman C, Rudolph B, Hripcsak G, Adams LL, Kleinman LC, Kaushal R. A draft framework for measuring progress towards the development of a national healthcare information infrastructure. BMC Medical Informatics and Decision Making 2005, 5:14. PMC1177954

Hripcsak G, Rothschild AS. Agreement, the F-measure, and reliability in information retrieval. J Am Med Inform Assoc 2005;12:296-8. PMC1090460

Hripcsak G, Zhou L, Parsons S, Das AK, Johnson SB. Modeling electronic discharge summaries as a simple temporal constraint satisfaction problem. J Am Med Inform Assoc 2005;12:55-63. PMC543827

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