Curriculum Vitae

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Name: James J. Cimino

Position: Chief, Laboratory for Informatics Development

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Education:

1977 Sc.B. Brown University (Biology), Providence, Rhode Island
 1981 M.D. New York Medical College, Valhalla, New York

Postdoctoral Training:

Internship and Residency:

1981-1982 Intern in Medicine, Saint Vincent's Hospital, New York, New York 1982-1984 Resident in Medicine, Saint Vincent's Hospital, New York, New York

Research Fellowship:

1985-1988 Research Fellow, Medical Informatics, Mass. Gen. Hospital, Boston, MA

Licensure and Certification:

1983 New York State Medical License

1984 Certified, American Board of Internal Medicine

1985 Massachusetts Full Medical License

Academic Appointments:

1985-1988	Fellow, Department of Biostatistics, Harvard School of Public Health, Boston, MA
1986-1988	Preceptor, New Pathway Project, Harvard Medical School, Boston, MA
1988-1995	Assistant Professor of Medicine, College of Physicians and Surgeons, Columbia University
	New York, New York
1995-2002	Associate Professor of Medical Informatics in Medicine, College of Physicians and Surgeons,
	Columbia University, New York, New York
2002-2007	Professor of Biomedical Informatics and Medicine, College of Physicians and Surgeons,
	Columbia University, New York, New York
2008-Present	Adjunct Professor of Biomedical Informatics, College of Physicians and Surgeons,
	Columbia University, New York, New York
2008-Present	Senior Scientist, Lister Hill Center for Biomedical Communications, National Library of
	Medicine, Bethesda, Maryland
2010-Present	Adjunct Professor of Biochemistry and Molecular & Cellular Biology, Georgetown University
	School of Medicine

Professor of Biomedical Informatics, Uniformed Services University of the Health Sciences

Clinical Appointments:

2013-Present

1983-1984	Attending Physician, Emergency Med., Mercy Comm. Hosp., Port Jervis, NY
1984-1985	Attending Physician, Community Med., St. Vincent's Hospital, New York, NY
1984-1985	Attending Physician, Emergency Med., Mount Vernon Hosp., Mt. Vernon, NY
1984-1985	Attending Physician, Emergency Med., New Rochelle Hosp., New Rochelle, NY
1985-1988	Clinical Fellow, Dept. of Med., Massachusetts General Hosp., Boston, MA
1985-1988	Attending, Medical Walk-In Clinic, Mass. General Hospital, Boston, MA
1988-1998	Associates in Medicine, Presbyterian Hospital, New York, NY
1988-1995	Assistant Attending Physician, Medicine, Presbyterian Hospital, New York, NY
1992-2007	Medical Staff, Washington-Heights Ambulatory Care Network, New York, NY
1995-1998	Associate Attending Physician, Medicine, Presbyterian Hospital, New York, NY
1998-2007	Associates in Medicine, New York Presbyterian Hospital, New York, NY

1998-2002	Associate Attending Physician, Medicine, New York Presbyterian Hospital, New York, NY
2002-2007	Attending Physician, Medicine, New York Presbyterian Hospital, New York, NY
2004-2007	Volunteer Attending Physician, Columbia Student Medical Outreach (CoSMO) Clinic, New York
2008-Present	Chief, Laboratory for Informatics Development, NIH Clinical Center, Bethesda, Maryland
2008-Present	Attending Physician, Internal Medicine Consult Service, NIH Clinical Center, Bethesda, Maryland
Teaching Resp	
1986-1988	Clinical Skills Preceptor, New Pathway (Harvard)
1989-1990	Coordinator, Medical Informatics Seminar Series
1988-2007	Clinical Instructor in Medicine (Columbia)
1989-2005	Preceptor, Introduction to Epidemiology (Columbia)
1990-1991	Instructor, Introduction to Medical Informatics (Columbia MI G4001)
1991-1996	Course Director, Quantitative Models of Medical Decision Making (Columbia MI G4002)
1997-2004	Course Director, Representation of Medical Data (Columbia MINF G4020)
1999-Present	Course Director, National Library of Medicine Woods Hole Biomedical Informatics Course
1998-2004	Vocabulary Tutorial II, HL7
1999-Present	What is Biomedical Informatics?, NLM Woods Hole Biomedical Informatics Course
1999-Present	Principles of Controlled Medical Terminologies, NLM Woods Hole Biomedical Informatics
	Course
2000-Present	Practical Considerations for Choosing a Controlled Terminologies in Health Care Applications
	AMIA Fall Symposium Tutorial
2002-Present	Principles of Database Design, NLM Woods Hole Biomedical Informatics Course
2005-2007	Understanding and Representing Data in the Clinical Record, Fourth Year Medical Curriculum,
	Columbia University College of Physicians and Surgeons
2005-2006	Coding and Representation, Columbia University Biomedical Informatics Short Course
2005-Present	Course Director, Exploration of Clinicians' Information Needs (Columbia BINF G4022)
2008-Present	Training Director, Clinical Informatics Postdoctoral Fellowship, National Library of Medicine
2009-Present	Special Presenter (Internal Medicine and Biomedical Informatics), National Youth Leadership
	Forum on Medicine
2012-Present	Lecturer, Medical Genomics for Clinicians and Researchers, Foundation for Advanced Education
	in the Sciences (FAES), NIH
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Honors:	
1992	Elected to Fellowship in the American College of Medical Informatics
1995	Priscilla M. Mayden Award for Excellence in Medical Informatics, University of Utah
1996	National Information Infrastructure Awards, Semi-Finalist in Health Category
1998	Elected to Fellowship, American College of Physicians
2002	President's Award, American Medical Informatics Association
2006	Elected to Membership in the American Clinical and Climatological Association
2006	Medal of Honor, New York Medical College
2006	Elected to Fellowship, New York Academy of Medicine
2009	NIH Clinical Center Director's Award
2012	Donald A. B. Lindberg Award for Innovation in Informatics, American Medical Informatics
	Association
2013	NIH Clinical Center Director's Award
2014	Elected as a Member of the Institute of Medicine

Scientific Posts:

1991-1995	Board of Scientific Counselors, National Library of Medicine
1991-1995	Program Committee, Symposium on Computer Applications in Medical Care
1993-1999	Elected to Columbia University Faculty Council, Department of Medicine (two terms)
1993-1999	Editorial Board, Journal of the American Medical Informatics Association
1994	IAIMS Ad Hoc Review Committee, National Library of Medicine
1994-1999	Board of Directors, American Medical Informatics Association (two terms)

1994-1997	Electronic Medical Records Steering Committee, National Library of Medicine
1995-1996	IAIMS External Advisory Committee, University of Pittsburgh
1996	Chairman, Scientific Program, AMIA Fall Symposium
1996-2002	Systematized Nomenclature of Medicine (SNOMED), Editorial Board, College of
	American Pathologists
1996-2000	Computer-Based Patient Records Institute, Davies Award Section Committee
1997	Editorial Board, Intermedic: a Journal on Internet and Medicine (R.M. Sabbatini, S Cardoso, eds.)
1997-2002	Editorial Board, Handbook of Medical Informatics (J.H. van Bemmel, M.A. Musen, eds.)
1997-2003	Co-chair, Health Level Seven (HL7) Vocabulary Technical Committee
1998	Institute of Medicine, Committee on Internet Access to the National Library of Medicine's
	Toxicology and Environmental Health Databases (TOXNET)
1998-1999	Elected Secretary of the American Medical Informatics Association
1999-2012	Editorial Board, Methods of Information in Medicine
1999-2002	Chair, HEALNET Scientific Advisory Committee (Canadian Centers of Excellence)
1999-2002	Medical Informatics and Technology Applications Consortium Board (NASA Advisory)
1999-2005	Elected to Columbia University Faculty Council, Department of Medical Informatics (two terms)
2000-Present	Associate Editor, Journal of Biomedical Informatics
2001-2004	Secretary, American College of Medical Informatics
2002-Present	Editorial Board, BioMed Central
2004	National Center for Scientific Review, Ad Hoc Review Committee
2005-2007	Board of Directors, American Medical Informatics Association
2007	University of California at Davis, Center for Translational Science Center Advisory Board
2009-2014	Medical Informatics Committee, American College of Physicians
2009-2011	Clinical Decision Support Technical Expert Panel, National Quality Forum
2010	Scientific Program Chair, American College of Medical Informatics
2011-Present	Data Warehouse External Advisory Committee, University of Wisconsin-Madison
2013	Institute of Medicine, Roundtable on Value and Science-Driven Health Care: Digital Learning Collaborative
2013	Institute of Medicine, Planning Committee for Workshop on Data Harmonization for Patient- Centered Clinical Research

Invited Keynotes:

1994	Keynote Speaker, Brazilian Conference on Medical Informatics, Porto Alegre, Brazil
1995	Plenary Speaker, Medinfo '95, Vancouver, Canada
1996	Keynote Speaker, COACH (Canadian medical informatics association), Toronto
1997	Keynote Speaker, New Technologies in Hospital Information Systems, Ulm, Germany
1998	Keynote Speaker, Electronic Patient Records in Medical Practice (EPRiMP), Rotterdam
1999	Keynote Speaker, National Cancer Institute, Annapolis, Maryland
1999	Keynote Speaker, Rocky Mountain Regional Medical Informatics Fair, Denver, Colorado
1999	Cornerstone Lecturer, AMIA Annual Symposium, Washington, DC
2000	Keynote Speaker, 7th International Congress of Nursing Informatics, Auckland, New Zealand
2002	Keynote Speaker, Medical Informatics Europe (MIE), Budapest, Hungary
2005	Keynote Speaker, IAIMS Consortium, Boston, MA
2006	Keynote Speaker, GMDS (German Society for Medical Informatics annual meeting), Leipzig,
	Germany
2007	Keynote Speaker, 2007 Electronic Health Record Observatory, Nybørg, Denmark
2008	Plenary Keynote, Northern California / Nevada Medical Library Group, Las Vegas, Nevada
2008	Plenary Speaker, Technologic Innovations in Nursing Education, Hilton Head, South Carolina
2008	Technology Invited Speaker, Mid-Atlantic Chapter of the Medical Library Association,
	Morgantown, WV
2009	Keynote Speaker, Summer Institute of Nursing Informatics, U. of Maryland, Baltimore, MD
2010	Keynote Speaker, City-Wide Medical Grand Rounds, University of Buffalo School of Medicine,
	Buffalo, NY
2010	Plenary Keynote, DIA/FDA CDER/CBER Computational Science Annual Meeting, Bethesda,

MD 2010 Plenary Keynote, Upstate New York and Ontario Medical Library Association, Syracuse, NY Plenary Keynote, Greater China eHealth Forum, Kowloon, Hong Kong 2011 2011 Plenary Keynote, Central Pennsylvania Health Sciences Library Association, Hershey, PA 2011 Plenary Keynote, North Atlantic Health Sciences Libraries Association, Uncasville, CT 2012 Keynote, Eighth International Conference on Data Integration in the Life Sciences, College Park, 2012 Plenary Keynote, Catalan Forum for eHealth (Fòrum CIS), Barcelona, Spain 2013 Keynote, Information Technology in Health Care, Victoria, British Columbia, Canada Keynote, Informatics Technology for Cancer Research (ITCR) Initiative Annual Principal 2014 Investigator Meeting, Rockville, MD Keynote, Health Informatics and Technology Conference, Baltimore, MD 2014 **Memberships:** 1987-1989 American Association for Medical Systems and Informatics (AAMSI) 1989 Health Education Committee 1989-Present American Medical Informatics Association 1990 **Nominations Committee** 1991-1995 Awards Committee, Chairman, Student Paper Competition Hospital Information Systems Working Group 1992-1996 **Board of Directors** 1994-1997 1998-1999 Secretary 1994-2009 **Telecommunications Committee** 1994-2006 Meetings Committee 2000-2006 Chair **Internet Working Group** 1996-Present 2005-2007 **Board of Directors** Board of Directors (Ex Officio) 2011-2012 1990-1993 Integrated Academic Information Management Systems (IAIMS) Consortium Board 1991-1999 ASTM Committee E31 - Computerized Systems Fellow, American College of Medical Informatics 1992-Present Secretary 2001-2004 President-Elect 2009-2010 2011-2012 President 2013-2014 Past-President Member, American College of Physicians 1992-Present 1998-Present Fellow 1994-Present International Medical Informatics Association Working Group 6 - Codes and Structures 1997-2008 Member, Health Level 7 (HL7) Co-chair, Vocabulary Technical Committee 1997-2003 Board Member, Open Health Terminology Consortium 2002-2004 Fellow, American Clinical and Climatological Society 2006-2011 New York Academy of Medicine 2006-Present 2011-2012 Member, International Health Terminology Standards Development Organization Tech. Comm. 2014-Present Member, Institute of Medicine Fellowships, Grants and Contracts: 1985-1988 Medical Informatics Fellowship, National Library of Medicine Senior Investigator, Unified Medical Language System (UMLS), National Library of Medicine 1986-1988 (PI: G. Octo Barnett) 1989-1994 Senior Investigator, Integrated Academic Information Management Systems (IAIMS), National Library of Medicine (PI: Paul Clayton and Rachel Anderson) 1989-1995 Senior Investigator, Clinical Decision Support Systems, IBM (PI: Paul Clayton)

1991-1994	Principal Investigator, Unified Medical Language System (UMLS) Development,
	National Library of Medicine (\$517,951)
1992-2000	Director, Medical Informatics Training Program, National Library of Medicine (\$1,218,479)
1994-1997	Principal Investigator, Biomedical Applications of High-Performance Computing and
	Communications, National Library of Medicine (\$1,030,610)
1994-1997	Principal Investigator, Applied Research Relevant to an Electronic Medical Record,
	National Library of Medicine (\$1,011,716)
1995-1996	Principal Investigator, Unified Medical Language System, National Library of Medicine (\$24,980)
1997-1998	Principal Investigator, Center for Advanced Technology (New York State), Knowledge
	Structures to Support Medical Decision-Making (\$80,000)
1996-2000	Principal Investigator, Health Applications for the National Information Infrastructure,
	National Library of Medicine (\$2,307,664)
1998-1999	Principal Investigator, National Heart Attack Alert Program planning grant (\$100,000)
1999-2002	Principal Investigator, National Heart Attack Alert Program implementation grant (\$5,002,375)
2001-2003	Senior Investigator, National Evaluation AIDS Education and Training Center, HRSA (PI: Peter
	Messeri)
2002-2008	Principal Investigator, Infobuttons to Improve Clinicians' Access to Information, National Library
	of Medicine (\$2,391,989)
2006-2008	Co-Principal Investigator, Informatics for Diabetes Education and Telemedicine (IDEATel),
	Center for Medicare and Medicaid Services, (PI: Steven Shea; \$28,000,000)
2007-2009	Principal Investigator, Semantic and Machine Learning Methods for Mining Connections in the
	UMLS, National Library of Medicine (\$402,300)
2007-2010	Principal Investigator, Librarian Infobutton Tailoring Environment (LITE), National
	Library of Medicine (\$337,295)

Conference Committees:

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1991	Fifteenth Annual Symposium on Computer Applications in Medical Care Program Committee,
	Area Track Chair for Concepts, Issues and Standards
1992	American Medical Informatics Association, 1992 Spring Congress Program Committee - Decision
	Support Systems Track
1992	Sixteenth Annual Symposium on Computer Applications in Medical Care Program Committee,
	Area Track Chair for Institutional Systems
1992-1994	American Medical Informatics Association Student Paper Competition, Chairman
1993	CANON Retreat on Methods for Developing Controlled Medical Vocabularies, Chairman
1993	Seventeenth Annual Symposium on Computer Applications in Medical Care Program Committee,
	Area Track Chair for Demonstrations and Poster Presentations
1994	Eighteenth Annual Symposium on Computer Applications in Medical Care Program Committee,
	Area Track Chair for Nomenclature and Coding
1994	International Medical Informatics Association, Workshop on Natural Language Processing,
	Mont Pelerin, Switzerland, Steering Committee
1995	Nineteenth Annual Symposium on Computer Applications in Medical Care Program Committee,
	Area Track Chair for Demonstrations and Workshops
1996	AMIA Fall Symposium (Formerly SCAMC) - Program Chair
1997	AMIA Fall Symposium - Program Committee
1997	International Medical Informatics Association, Workshop on Codes and Structures,
	Jacksonville, Florida, Steering Committee
1998	International Medical Informatics Association, Workshop on Electronic Patient Records in
	Medical Practice, Rotterdam, The Netherlands, Steering Committee
1999	International Medical Informatics Association, Workshop on Codes and Structures,
	Phoenix, Arizona, Steering Committee
1999	National Library of Medicine Training Directors Meeting (Conference Organizer), Arden, NY
2002	Information Technology Enabling Clinical Research, National Science Foundation and
	Association of American Medical Colleges, Landsdowne, VA
2003	National Health Information Infrastructure Planning Committee - Consumer Health Track,

	Washington, DC
2004	9th International Conference on the Principles of Knowledge Representation and Reasoning,
2004	Whistler, Canada Madinfo 2004 Organizing Committee Son Francisco CA
2004	Medinfo 2004 Organizing Committee, San Francisco, CA
2005	International Medical Informatics Association, Workshop on Ontologies and Biomedical Informatics, Rome, Italy
2008	American Medical Informatics Association Spring Congress, Scientific Program Committee, Phoenix, AZ
2010	American College of Medical Informatics Winter Symposium, Chair, Scientific Program Committee, Tucson, AZ
2010	American Medical Informatics Association Summit on Translational Bioinformatics, Scientific Program Committee, San Francisco, CA
2010	Third International Conference on Health Informatics (HEALTINF/BIOSTEC 2010), Valencia, Spain
2010	International Conference on Data Mining Workshop on Biological Data Mining and its Applications in Healthcare, Sydney, Australia
2011	International Conference on Biomedical Ontology (ICBO2011), Buffalo, NY
2011	Fourth International Conference on Health Informatics (HEALTINF/BIOSTEC 2011), Rome,
2011	Italy
2011	Workshop on Interactive Systems in Healthcare (WISH 2011), Association of Computing and Machinery (ACM), Washington, DC
2011	AMIA 2011 Invitational Policy Meeting Steering Committee, Washingon, DC
2012	Fifth International Conference on Health Informatics (HEALTINF/BIOSTEC 2012), Vilamoura, Portugal
2012	International Conference on Telehealth (Telehealth 2012), Innsbruck, Austria
2012	International Conference on Biomedical Ontology (ICBO2012), Graz, Austria
2012	8 th International Conference on Data Integration in the Life Sciences (DILS), College Park, MD
2012	Workshop on Ontology-based Biomedical Data Capture, Graz, Austria
2012	AMIA 2012 Invitational Policy Meeting Steering Committee, Washingon, DC
2012	Workshop on Interactive Systems in Healthcare (WISH 2012), Association of Computing and Machinery (ACM), Chicago, IL
2013	6 th International Conference on Health Informatics (HEALTINF/BIOSTEC 2013), Barcelona, Spain
2013	AMIA 2013 Clinical Research Informatics Summit (Track Chair), San Francisco, CA
2013	Medinfo 2013 Scientific Program Committee (Track Chair), Copenhagen, Denmark
2013	International Conference on Biomedical Ontology (ICBO2013), Montreal, Canada
2013	9 th International Conference on Data Integration in the Life Sciences (DILS), Montreal, Canada
2013	ACM-BCB Health Informatics Symposium, Washington, DC
2013	Workshop on Interactive Systems in Healthcare (WISH 2013), Association of Computing and Machinery (ACM), Washington, DC
2013	IOM/PCORI Workshop on Data Harmonization, Washington, DC
2014	7 th International Conference on Health Informatics (HEALTINF/BIOSTEC 2014), Eseo, France
2014	10 th International Conference on Data Integration in the Life Sciences (DILS), Lisbon, Portugal
2014	International Conference on Biomedical Ontology (ICBO2014), Houston, Texas
2014	Workshop on Interactive Systems in Healthcare (WISH 2014), Association of Computing and Machinery (ACM), Washington, DC
2015	8 th International Conference on Health Informatics (HEALTINF/BIOSTEC 2015), Lisbon, Portugal
2015	AMIA 2015 Clinical Research Informatics Summit (Track Chair), San Francisco, CA
2015	Information Technology and Communications in Health (ITCH), Victoria, BC, Canada
2015	AMIA Fall Symposium - Program Committee

Conference Refereeing:

1987-1995 Annual Symposium on Computer Applications in Medical Care

1995-2013 Medinfo

1996-Present AMIA Annual Fall Symposium 2005-Present Medical Informatics Europe (MIE)

2007-Present Information Technology and Communications in Health (ITCH)

2014 SNOMED CT Implementation Showcase

Journal Reviewing:

1992-1993 *Computer*

1993 Bulletin of the Medical Library Association

1993-Present Journal of the American Medical Informatics Association

1994-Present Methods of Information in Medicine 1997-Present Artificial Intelligence in Medicine

1997 *IEEE Expert* 1999-Present *JAMA*

2000-Present Journal of Biomedical Informatics

2001 Journal of Public Health Management and Practice

2002-Present BioMed Central 2008-Present The Lancet

2008-Present The Annals of Internal Medicine (top 30% of reviewers in 2008)

2010-Present Pediatrics

2012-Present Computer Programs and Methods in Biomedicine

2012-Present IMIA Yearbook of Medicine

2013-Present Chest

2013-Present Genetics in Medicine

2014 Journal of Comparative Effectiveness Research

2014 Health Affairs

2014 Journal of Biomedical Semantics

Institutional Committees:

1995-2007	Columbia University Health Sciences Faculty Council
2000-2007	Department of Biomedical Informatics Executive Committee
2000-2007	Department of Biomedical Informatics Training Committee
2000-2007	Department of Biomedical Informatics Admissions Committee
2001-2004	Columbia University School of Public Health, Infectious Disease Training Steering Committee
2002-2007	Chair, Department of Biomedical Informatics Committee on Appointments and Promotions
2007	Columbia University Health Sciences Executive Committee of the Faculty Council
2008-2010	Clinical Center Executive Committee
2009-2010	Chair, Search committee for NLM Deputy Director of Extramural Programs
2009-Present	Clinical Center Information Technology Advisory Group
2010-2011	Search Committee for NLM Chief of Cognitive Science Branch
2011-2013	Advisory Committee to the NIH Director – IT Assessment Team, subcommittee chair: Phenomics
2011-Present	Health and Human Services Domain IT Steering Committee, Dept of Health and Human Services
2011-Present	Fellowship Program Selection Committee, Lister Hill National Ctr for Biomed Communications
2012-Present	Federal Research Domain IT Steering Committee, Dept of Health and Human Services
2012-2013	Data and Informatics Pre-Implementation Group, Office of the Deputy Director of NIH
2013-2014	Comparative Effectiveness Research Coordinating Committee
2013-Present	Big Data to Knowledge (BD2K) Committee on Facilitating Broad Use of Data ("Group 1")
2013-Present	Big Data to Knowledge (BD2K) Committee on Centers of Excellence ("Group 4")
2014-Present	NIH Information Technology Budget Advisory Council
2014-Present	Big Data to Knowledge (BD2K) Executive Committee
2014-Present	Trans-NIH Outcomes Effectiveness Research Interest Group

Students and Trainees Supervised:

- Justin Starren, MD Postdoctoral training program, thesis committee member; 1992-1996, Ph.D. 1996; "From Multimodal Sublanguages to Medical Data Presentations
- Gai Elhanan, MD Postdoctoral training program, advisor; 1995-1998, M.A. 1998; "Integrating DXplain into a Clinical Information System using the World Wide Web"
- Qing Zeng PhD thesis advisor; 1994-1999, Ph.D. 1999; "Using Knowledge to Dynamically Generate Views of an Electronic Medical Record"
- Eneida Mendonça, MD PhD thesis advisor; 1994-2002; "Extracting medical information from an electronic medical record in order to improve information retrieval and decision making"
- Ying Chen Masters thesis advisor; 1998-1999, M.A. 1999; "Linking guidelines for mammography to an electronic medical record for use by patients"
- Rita Kukafka, DrPH Postdoctoral training program, advisor; 1998-2001; "Modeling patient response to acute myocardial infarction: implications for a tailored technology-based program to reduce patient delay"
- Yves Lussier, MD PhD Postdoctoral training program, advisor; 1998-2001; "Overcoming the barriers of Webbased interventions for elder patients: enabling strategies for the MI HEART clinical trial"
- David Wajngurt, MD Masters program, 1997-1999; Supervisor, 1999-2001; Medical Entities Dictionary maintenance
- David Baorto, MD Masters program, 2001-2002; "An Infobutton" for enabling patients to interpret on-line Pap smear reports"
- Martin Pusic, MD Masters thesis advisor; 2000-2001; "The Influence of an Infobutton on the Management of Fever Without Source"
- Lawrence McKnight, MD Postdoctoral training program, advisor; 2000-2003; "Virtual White Board"
- Peter Stetson, MD Postdoctoral training program, advisor; 2000-2003; "Patient Care Team Coordination"
- Elizabeth Chen PhD thesis advisor; 2000-2004; "Knowledge discovery in clinical information system log files and the implications for wireless handheld clinical applications"
- Yoon-Ho Seol PhD, committee member; 2000-2003; "Scenario-based assessment of physicians' information needs"
- Mona Chang PhD, committee member; 2001-2002; "Determining Patient Classifications Using Machine Learning" Jan Horsky PhD, committee member; 2001-2006; "Distributed Cognitive Resources: The analysis of human interaction with a complex clinical information system"
- Mureen Allen, MD Postdoctoral training program, advisor; 2002-2005; "Responding to clinician's information needs"
- Leanne Currie PhD, committee member, 2000-2005; "Development and Testing of an Automated Fall-Injury Risk Assessment Instrument"
- Alex Yu, MD PhD, advisor; 2001-2007; "Application of Formal Ontological Methods to Terminology Maintenance"
- Guilherme Del Fiol, MD PhD, committee member, 2007-2008; "Classification Models for the Prediction of Clinicians' Information Needs"
- Chintan Patel PhD, advisor; 2005-2009; "Using Automated Methods to Identify Connections across Biomedical Terminologies"
- Xinxin Zhu, MD PhD, advisor; 2006-2009; "Representing Uncertain Multi-source Medication History with Temporal Information and Drug Classification to Improve Medication Summarization"
- Krystl Haerian, MD postdoctoral fellow, 2008-2009, "Use of Clinical Alerting to Improve the Collection of Clinical Research Data"
- Sevgin Hunt, RN masters degree candidate, University of Maryland, "An Analysis of Infobutton Log Files to Determine Whether Clinicians' Role and Clinical Context Predict Preferences for Online Information Resources"
- Lu Wang, MD postdoctoral fellow, 2010, "Service Oriented Architecture and User Interface for a Controlled Terminology Server for Clinical Research"; visiting postdoctoral fellow, 2010, "A Research Terminology Server"
- Xia Jing, MD, PhD postdoctoral fellow, 2010-2013, "Librarian Infobutton Tailoring Environment", "Graphical Methods for Reducing, Visualizing and Analyzing Large Data Sets Using Hierarchical Terminologies Jonathan Joe rotating medical student, 2011, "Automated Detection of Discrepant Patient Data"

John Manning – rotating medical student, 2012, "Visualizing the Data – Using Lifelines2 to Perform Rapid Pairwise Analyses on Laboratory Data Drawn from the Biomedical Translational Research Information System (BTRIS)"

Xuequin Pan, MD, PhD – postdoctoral fellow, 2013-present, project title TBD

Nina M. Nguyuen May – summer IRTA fellow, 2012, "Cognitive Pattern Recognition and Data Visualization as a Joint Method for Enhancing Longitudinal Medical Research"; summer IRTA fellow, 2013, "Longitudinal Patterns of Biomarkers and Radiographic Findins in Hypoparathyroidism: Medical Applications of Temporal Visualization and Data Mining"

Gillian Takamaru – summer IRTA fellow, 2013, "Improving the Delivery of Health Knowledge to the Bedside" John Kimbrough, MD – postdoctoral fellow, 2013, "Analysis of MIMIC-II Data to Detect Associations between Cardiac Drugs and Outcomes"

Amos Cahan, MD – postdoctoral fellow, 2013-present, project title TBD

Nirupa Parmhans - summer IRTA fellow, 2014, "Predictive Nature of Isolated Vitamin B12 Elevation"

Fabricio Kury, MD – postdoctoral fellow, 2014-present, project title TBD

Kyungsook Gattrell, MS, RN, PhD – postdoctoral fellow, 2014-present, project title TBD

Consulting:

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1984	Hewlett-Packard Corporation, Emergency Room Information Needs
1990	St. Luke's Medical Center (Milwaukee), Integrated Academic Information Management Systems
1992	Vanderbilt University, Controlled Medical Vocabularies for Clinical Information Systems
1992	National Research Counsel, Controlled Medical Vocabularies for Healthcare
1993-1995	Louisiana State University, Integrated Advanced Information Systems
1995-1999	New Jersey Institute of Technology, Department of Computer and Information Science
1995-1996	Strategic Medical Information, Inc., Nesconset, New York
1998-2004	University of Pittsburgh, Integrated Advanced Information Management Systems
2001-2004	CMTC Corporation, New York
2002-2004	University of Rochester, Dermatology Terminology Project
2002-2003	Express Scripts International; Physician Advisory Council
2003-2004	University of Iowa, Nursing Interventions Classification and Nursing Outcomes Classification
2004-2006	Children's Hospital of Philadelphia, IAIMS Advisory Committee
2004-2006	Phase Forward, Waltham, MA
2006	University of Iowa Medical Center
2006-2007	National Cancer Institute (caBIG), Bethesda, MD
2006-Present	Elsevier, iConsult Advisory Board, London
2006-2007	Logical Images, Rochester, New York
2006-2007	New Jersey Institute of Technology, Department of Computer and Information Science
2006-2007	University of California at Davis, Center for Translational Science

Research Interests: I am currently pursuing several lines of research in biomedical informatics. Research in biomedical concept representation is a foundational subject area that is I leverage to support applied informatics research in other domains. Key topics include: knowledge-based vocabulary representation, intelligent vocabulary maintenance tools, and collaborative vocabulary building and sharing. A second area of research is clinical decision support, which is primarily focused on integration of clinical systems and information resources as a method for anticipating and addressing clinician information needs through the provision of intelligent access to "just in time" medical knowledge. Infobuttons, which are heavily dependent on high-quality terminology and ontology resources, are the archetype for this mode of decision support. A third area of research relates to informatics research to support clinical and translational research. This area also depends on foundational terminologies and ontologies to support the creation of integrated and federated data resources, as well as research on researcher information needs to identify the tasks in this domain and the build tools that can bring the data resources to bear on these tasks.

Publications:

Original Peer-Reviewed Articles:

- Barnett GO, Cimino JJ, Hupp JA, Hoffer EP: DXplain. An evolving diagnostic decision-support system, *Journal of the American Medical Association*; July 3, 1987; 258(1):67-74.
- Cimino JJ, Barnett GO: Automated Translation Between Medical Terminologies Using Semantic Definitions, Proceedings of the American Association for Medical Systems and Informatics Congress 1989, May 10, 1989: 113-117. Selected for reprint in MD Computing, March-April, 1990; 7(2):104-109.
- Cimino JJ, Sengupta, S: IAIMS and UMLS at the Columbia-Presbyterian Medical Center. Medical Decision Making, 1991; 11(suppl):S89-93.
- Cimino JJ, Sideli RV: Using the UMLS to Bring the Library to the Bedside. Medical Decision Making, 1991; 11(suppl):S116-S120.
- Hendrickson G, Anderson RK, Clayton PD, Cimino JJ, Hripcsak G, Johnson SB, McCormack M, Sengupta S, Shea S, Sideli R, Roderer N. The Integrated Academic Information Management System At Columbia Presbyterian Medical Center. MD Computing 1992; 9(1):35-42.
- Cimino JJ, Elkin PL, Barnett GO. As We May Think: The Concept Space and Medical Hypertext. *Computers and Biomedical Research*, 1992; 25(3):238-263.
- Cimino JJ, Aguirre A, Johnson SB, Peng P: Generic Queries for Meeting Clinical Information Needs. *Bulletin of the Medical Library Association*, 1993; 81(2): 195-206.
- Cimino JJ: Saying What You Mean and Meaning What You Say: Coupling Biomedical Terminology and Knowledge. *Academic Medicine*, 1993; 68(4): 257-260.
- Cimino JJ, Barnett GO: Automatic Knowledge Acquisition from MEDLINE. *Methods of Information in Medicine*, 1993; 32(2): 120-130. **Selected for reprint in van Bemmel JH, McCray AT, eds.:** *Yearbook of Medical Informatics*, International Medical Informatics Association, Rotterdam, 1994: 384-394.
- Warner HR, Barnett GO, Greenes RG, Cimino JJ: A View of Medical Informatics as an Academic Discipline (editorial). Computers and *B*iomedical Research, 1993; 26(4):319-326.
- Cimino JJ, Clayton PD, Hripcsak G, Johnson SB: Knowledge-based Approaches to the Maintenance of a Large Controlled Medical Terminology. *Journal of the American Medical Informatics Association*, 1994; 1(1):35-50.
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Invited Lectures, International:

- 1988 "Building the DXplain Knowledge Base"
 - Pfizer Lecture, Institut de Recherches Cliniques de Montréal, Montréal, Quebéc
- 1991 "Decision Support at Columbia-Presbyterian Medical Center"
 - Electronic Computing Health Oriented (ECHO) Conference, Marco Island, Florida; and IBM Health Executive Conference, Brussels, Belgium
- 1991 "Current Developments and Future Trends in Technology in Healthcare Computing" IBM Health Executive Conference, Brussels, Belgium
- "Management of Controlled Medical Vocabularies at Columbia-Presbyterian Medical Center" and "Structure and Applications of the Unified Medical Language System (UMLS)"

 Workshop on Advanced Concepts in Hospital Information Systems, Giessen, Germany
- 1994 "Medical Uses of the Unified Medical Language System", Berlin Heart Institute, Berlin, Germany
- 1994 "Use of the Unified Medical Language System in Patient Care", International Medical Informatics Association (Working Group 6), Geneva, Switzerland
- 1994 "Development of a Medical Vocabulary: Knowledge-Based Extensions", Department of Cognitive Science, McGill University, Montreal, Canada
- 1994 "Integrating Clinical Systems by Integrating Controlled Vocabularies", Keynote Speaker, Brazilian Conference on Medical Informatics, Porto Alegre, Brazil
- 1995 "Managing Vocabulary for a Centralized Clinical System", Plenary Speaker, Medinfo '95, Vancouver
- 1996 "Web-Based Clinical Information Systems: Architecture, Perils and Promises", Scientific Keynote presentation, COACH, Toronto, Canada
- "Managing Vocabulary for a Centralized Clinical System", CRISTAL'S (Contribuer à la Recherche et à l'Innovation au Service du Traitemet et de l'Analyse des Langages utilisés dans les systèmes de Sois) Annual Conference, Rennes, France
- 1997 "Intranet technology in Hospital Information Systems", New Technologies in Hospital Information Systems, Ulm, Germany
- 1998 "Keynote: Bringing the Web to the Bed(side)", Electronic Patient Records in Medical Practice, Rotterdam
- 1998 "Electronic Patient Records in the New York Presbyterian Hospital", Electronic Patient Records in Medical Practice, Rotterdam
- 1998 "Desiderata for Controlled Medical Terminologies", Seminar on Controlled Terminology in Sweden, Stockholm
- 1999 "Keynote: Personal Health Information: The Last Frontier on the World Wide Web", Interactive Health Conference, University of Western Ontario, London, Ontario, Canada
- 1999 "Controlled Medical Terminologies: What can they do for me?", Interactive Health Conference, University of Western Ontario, London, Ontario, Canada
- 2000 "Keynote: Harnessing World Wide Web Technology and Standardized Terminology to Improve Decision Making for Patients and Providers", The 7th International Congress of Nursing Informatics, Auckland, New Zealand
- 2000 "Introduction to Controlled Vocabulary", HL7 Conference
- 2002 "The Challenge of Reuse of Information", Medical Informatics Europe (MIE), Budapest, Hungary
- 2005 "New Desiderata of Biomedical Terminologies", IMIA Working Group 6, Rome, Italy
- 2005 "US Standards for Health Records Systems", PEP'2005, Sao Paulo, Brazil
- 2005 "Software Certification for Electronic Health Records: The Certification Commission for Healthcare Information Technology", PEP'2005, Sao Paulo, Brazil
- 2006 "Anticipating the Information Needs of Clinicians", GMDS, Leipzig, Germany
- 2007 "Reuse of Data Coded with High-Quality Terminologies: Practical Examples from Patient Care Settings", Electronic Health Record Observatory, Nybørg, Denmark
- 2007 "Determining the Quality of a Terminology", Electronic Health Record Observatory, Nybørg, Denmark
- 2009 "Point of Care Information Support, or How do we Get the Answers to Clinicians Where and When They Need Them?", Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Ontario, Canada

- 2009 "Clinical Research Data Repositories and Clinical Research", Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Ontario, Canada
- 2010 "BTRIS: The NIH Biomedical Translational Research Information System", University of São Paulo, São Paulo, Brazil
- 2010 "Electronic Health Records and Translational Research Informatics", Brazilian Telemedicine University Network (RUTE), São Paulo, Brazil
- 2011 "The Role of Terminology and eHealth: A Report from the US National Institutes of Health", Greater China eHealth Forum, Kowloon, Hong Kong
- 2012 "Challenges in Constructing and Using a Clinical Research Data Warehouse", Catalan Forum for eHealth (Fòrum CIS), Barcelona, Spain
- 2013 "Informatics Research toward the Solution-Oriented Medical Record", Information Technology in Health Care, Victoria, British Columbia, Canada
- 2013 "New Generation Health Professional Decision-Support Tools to Enable Individualized Care", eHealth Innovations Priority-Setting Workshop, Montreal, Canada

Invited Lectures, National:

- 1986 "DXplain, a program which offers a broad differential diagnosis for internal medicine" Center for Clinical Computing, Harvard Medical School, Boston, MA
- "Medical Informatics: An Emerging Medical Specialty"
 Medical Grand Rounds, St. Luke's Medical Center, Milwaukee, Wisconsin
- "IAIMS at Columbia University College of Physicians and Surgeons", American Association of Medical Colleges, Northeast Regional Group on Business Affairs, Newport, Rhode Island
- 1991 "Developing a Clinical Information System with the UMLS"
 - Maryland Society of Healthcare Information Systems Management, Timonium, Maryland
- 1992 "Building the Medical Entities Dictionary at Columbia-Presbyterian Medical Center"

 Center for Biomedical Informatics Vanderbilt University, Nashville, Tennessee
- 1992 "One Stop Information Shopping: IAIMS at Columbia-Presbyterian Medical Center" Association of American Medical Colleges, Snowmass, Colorado
- "Clinical Information Systems at Columbia-Presbyterian Medical Center"
 - Electronic Computing Health Oriented (ECHO) Conference, Palm Desert, California
- 1993 "Integrating Computer Environments to Support Clinical Decision Making" (Workshop)
 American College of Physicians, Annual Session
- 1993 "Data Storage and Knowledge Representation for Clinical Workstations", The Healthcare Professional Workstation (Working Conference), International Medical Informatics Association, Washington
- 1993 "An Outside Perspective to Clinical Computing"
 - Workshop, Group Health Cooperative of Puget Sound, Seattle, Washington
- 1993 "IAIMS at Columbia-Presbyterian Medical Center", Valley Hospital, Ridgewood, New Jersey
- 1993 "Vocabulary Management at the Columbia Presbyterian Medical Center: Lessons for Healthcare Information Architecture", Agency for Healthcare Policy and Research, Bethesda, Maryland
- "Using Computers to Support Clinical Information Management in Academic Medical Center"
 Workshop, American College of Physicians, Annual Session, Miami Beach, Florida
- 1994 "Bringing Medical Databases to the Bedside", Soc. for Clinical Data Management Systems, New Orleans
- "One Stop Information Shopping: IAIMS at Columbia-Presbyterian Medical Center" Association of American Medical Colleges, Snowmass, Colorado
- 1994 "Integrating Computer Environments to Support Clinical Decision Making" (Workshop)
 American College of Physicians, Annual Session
- "Sharing Healthcare Knowledge on the Information Superhighway", Information Management for Integrated Healthcare Delivery, Chicago, Illinois
- "Using the Web for Research, Education and Patient Care: What Works, What's Broken, What needs to be Built", American College of Medical Informatics, Annual Symposium, Orlando, Florida
- 1996 "High Performance Computing and Communication in Research and Education", Panel discussant, American Educational Research Association, New York
- 1997 "Accessing Clinical Information over the Internet and World Wide Web", American College of Surgeons, Clinical Congress, Chicago, IL.

- 1997 "Terminology to Support Merging Data Sets", Computer-based Patient Record Institute Terminology Workshop, Alexandria, VA.
- "Use of the Internet for Database Access", National Hear Attack Alert Program Conference on Informatics, Bethesda, Maryland
- 1998 "Desiderata for Controlled Medical Terminologies", Computer-based Patient Record Institute/HL7 Joint Meeting, Alexandria, VA.
- 1999 "Electronic Reporting of Laboratory Data", Centers for Disease Control, Atlanta, Georgia
- 1999 "HL7 Drug Name Coordination Efforts", Computer-based Patient Record Institute, Tysons Corner, Virginia
- 1999 "Introduction to Controlled Vocabulary", HL7 Conference
- 1999 "Principles of Controlled Medical Terminologies", NLM Biomedical Informatics Course, Woods Hole, MA
- 1999 "Practical Considerations for Choosing Terminologies in Health Care Applications", AMIA Symposium
- 1999 "Keynote: The Promise of Pathology Informatics", National Cancer Institute, Annapolis, Maryland
- 1999 "Clinical Vocabularies", National Committee on Vital and Health Statistics, Rockville, Maryland
- 1999 "Trends towards Concept-Based Language Systems: Desiderata for Terminologies to Capture Clinical Data", American Nursing Association Vocabulary Summit, Nashville, Tennessee
- 1999 "Medical Informatics Training at Columbia University: Perceived Needs for and Goals of Training", American Medical Informatics Association, Chicago, Illinois
- 1999 "Clinical Terminology", National Library of Medicine, Marine Biological Laboratory, Woods Hole, MA
- 1999 "Attacking the Hard Problems of IAIMS", University of Pittsburgh, Pittsburgh, Pennsylvania
- 1999 "Bringing Clinical Information to the Bedside with the World Wide Web", Grand Rounds, Holy Name Hospital, Teaneck, New Jersey
- 1999 "Keynote: Controlled Terminology in Clinical Practice", Rocky Mountain Regional Medical Informatics Fair, Denver, Colorado
- 1999 "Cornerstone Lecture: From Data to Knowledge Through Concept-Oriented Terminologies", AMIA Annual Symposium, Washington, DC
- 1999 "Panel: What's Wrong with the EMR?", AMIA Annual Symposium, Washington, DC
- 1999 "Integration of Information Resources at the Point of Need", Integrated Health Enterprise Symposium, Radiology Society of North America, Chicago, Illinois
- 1999 "Terminology Tools: State of the Art and Practical Lessons", IMIA Working Group 6, Phoenix, Arizona
- 2000 "Introduction to Controlled Vocabulary", HL7 Conference
- 2000-05 "What is Medical Informatics", NLM Biomedical Informatics Course, Woods Hole, MA (biannual 6 years)
- 2000-05 "Principles of Controlled Medical Terminologies", NLM Biomedical Informatics Course, Woods Hole, MA (biannual 6 years)
- 2000-03 "Practical Considerations for Choosing Terminologies in Health Care Applications", AMIA Symposium
- 2000 "Supporting Medical Decision-Making with Electronic Medical Records", Healthtech 2000, National Network of Libraries of Medicine, Springfield, Massachusetts
- 2000 "The Internet How Will It Transform the Practice of Medicine?", Academic and Managed Care Forum, Washington, DC
- 2001 "Introduction to Controlled Vocabulary", HL7 Conference
- 2001 "Controlled Medical Language: The Columbia Experience", University of Michigan
- 2001 "Web as Medium for Patient Access to Electronic Health Information", National Information Infrastructure Conference, National Library of Medicine
- 2001 "Technology and the Future of Medicine", New York Medical College
- 2001 "Patients' Access to Medical Records: Experience with PatCIS", Columbia University, Division of General Internal Medicine
- 2001 "Drug Terminology (Testimony)", NCVHS Subcommittee on Standards and Security
- 2001 "Practical Considerations for Choosing Terminologies in Health Care Applications", AMIA Symposium
- 2003 "The Columbia University Experience: Infobuttons and the Infobutton Manager", AMIA Symposium
- 2003 "Advanced Controlled Medical Terminology", University of Iowa
- 2003 "Wireless Palm-based Access to Health Information", University of Iowa
- 2004 "Standardized Clinical Terminologies", Loyola University
- 2004 "Supporting Informatics with Intelligent Terminology", University of Illinois, Chicago
- 2004 "Just in Time Education", National Library of Medicine Board of Regents
- 2004 "Understanding Clinician Information Needs", National Cancer Institute

- 2004 "PalmCIS: Palm-based Wireless Computing to Improve Access to Health Information and Coordination of Care", Mobile@Hopkins, Johns Hopkins University
- 2004 "Information Needs, Infobuttons, and the Infobutton Manager", LDS Hospital, Salt Lake City, UT
- 2004 "Practical Considerations for Choosing Terminologies in Health Care Applications", Medinfo 2004
- 2004 "InfoButtons: A Clinical Decision Support Intervention to improve care safety and quality", HIMSS Winter Audio Conference
- 2005 "Resolving Clinicians On-Line Information Needs A Brief History of Buttons", Stanford University
- 2005 "Twenty Years of IAIMS-The Columbia University-New York Presbyterian Hospital Clinical Data Repository", IAIMS Consortium, Boston, MA
- 2005 "Experience with Using the UMLS Semantic Network to Coordinate Controlled Terminologies for a Large Clinical Data Repository", National Library of Medicine
- 2005-10 "Clinical Classifications and Biomedical Ontologies: Terminology Evolution, Principles, and Practicalities", AMIA Symposium tutorial
- 2006 "Standard and Non-Standard Terminology Solutions for the Columbia University Medical Center and New York Presbyterian Hospital", University of Iowa Medical Center
- 2006 "Good Terminology Practices", National Academy of Sciences NIH Roadmap Conference, Washington
- 2006 "Multiple Terminologies Working in Parallel: An Application Use Case", AHIMA Clinical Terminology Institute, Chicago
- 2006 "An Integrated Approach to Computer-Based Decision Support at the Point of Care", American Clinical and Climatological Society, Charleston, SC
- 2006 "The Practical Impact of Ontologies on Biomedical Informatics", Frontiers in Biological Systems Symposium, New York State Center of Excellence in Bioinformatics and Life Sciences, Buffalo
- 2006 "Personalized Prediction and Resolution of Clinician Information Needs", IBM Watson Research Center, Hawthorne, NY
- 2007 "Controlled Terminologies in Patient Care and Research: An Informatics Perspective", University of Arizona
- 2007 "Infobuttons: Linking Clinical Information Systems to On-Line Information Resources to Resolve Clinician Information Needs", Sarasota Memorial Hospital
- 2007 "Controlled Terminologies in Patient Care and Research: An Informatics Perspective", Marine Biological Laboratory, Woods Hole, Massachusetts
- 2007 "Infobuttons: Linking Clinical Information Systems to On-Line Information Resources to Resolve Clinician Information Needs", Lehigh Valley Hospital
- 2007 "Controlled Terminologies in Patient Care and Research: An Informatics Perspective", University of Vermont School of Medicine
- 2007 "Unified Vocabulary Review Process", Cancer Biomedical Informatics Grid (caBIG), Washington, DC
- 2008 "LITE: The Librarian Infobutton Tailoring Environment", Northern California / Nevada Medical Library Group, Las Vegas, Nevada
- 2008 "The Future of Biomedical Informatics in Healthcare Education", Technologic Innovations in Nursing Education, Hilton Head, South Carolina
- 2008 "Publishing for the EHR", Webinar, sponsored by Association of American Publishers
- 2008 "Lessons from Biomedical Informatics for Nutrition Informatics", NIH Nutrition Day
- 2008 "Infobuttons: Context-specific Links from Clinical Systems to On-Line Knowledge Resources to Anticipate and Address Clinician Information Needs at the Point of Care", University of Maryland, School of Nursing
- 2008 "Computer-based Support for Improving Patient Medication Management", Informatics Grand Rounds, Dartmouth-Hitchcock Medical Center
- 2008 "National Issues", AMIA Spring Congress Plenary Panel
- 2008 "The NIH Biomedical Translational Research Information System (BTRIS)", The University of Chicago Cancer Research Center and the Initiative for Biomedical Informatics
- 2008 "The NIH Biomedical Translational Research Information System (BTRIS)", National Library of Medicine Training Directors Meeting
- 2008 "Infobuttons: Anticipatory Passive Decision Support", AMIA Fall Symposium ACMIA Senior Member Presentation
- 2008 "The NIH Biomedical Translational Research Information System (BTRIS)", Johns Hopkins University Informatics Grand Rounds

- 2008 "LITE: The Librarian Infobutton Tailoring Environment", Mid-Atlantic Chapter of the Medical Library Association, Morgantown, WV
- 2008 "Standards in Biomedical Informatics", Uniformed Services University of the Health Sciences, Bethesda, MD
- 2008 "The NIH Biomedical Translational Research Information System (BTRIS)", Biomedical Informatics Seminar, Georgetown University, Washington, DC
- 2009 "Informatics as the Bridge to Knowledge at the Bedside", Summer Institute of Nursing Informatics, University of Maryland, Baltimore, MD
- 2009 "Implementing Health Informatics Solutions in the Life Sciences Industry: Terminology/Ontology Issues in Creating Searchable Data Repositories", Drug Information Association Annual Meeting, San Diego, CA
- 2009 "Principles of Controlled Terminologies", Uniformed Services University of the Health Sciences, Bethesda, MD
- 2009 "Clinician Information Needs", Uniformed Services University of the Health Sciences, Bethesda, MD
- 2010 "Understanding and Resolving Clinician Information Needs with Infobuttons", University of Buffalo School of Medicine, City-Wide Grand Rounds, Buffalo, NY)
- 2010 "BTRIS: The NIH Biomedical Translational Research Information System", DIA/FDA CDER/CBER Computational Science Annual Meeting, Bethesda, MD
- 2010 "Personal Health Records: Past as Prologue", AMA-IEEE Medical Technology Conference on Individualized Healthcare, Washington, DC
- 2010 "BTRIS: The NIH Biomedical Translational Research Information System", University of Chicago Comprehensive Cancer Center, Chicago, IL
- 2010 "BTRIS: The NIH Biomedical Translational Research Information System", Duke University, Duke Translational Medicine Institute, Durham, NC
- 2010 "Addressing Clinicians' Needs for Translational Medicine Information", Upstate New York and Ontario Medical Library Association, Syracuse, NY
- 2010 "What is Translational about the Biomedical Translational Information System: Data Repurposing at the NIH", NIH Translational Research Interest Group, Bethesda, MD
- 2010 "BTRIS: The NIH Biomedical Translational Research Information System A Progress Report", Research Seminar, Columbia University Department of Biomedical Informatics, New York, NY
- 2010 "The NIH Biomedical Translational Research Information System", Health Informatics Pulse Interest Group, Bethesda, MD
- 2010 "Translational Informatics", Institute for e-Health Policy, Washington, DC
- "What is Translational about the Biomedical Translational Information System (BTRIS): Data Repurposing at the NIH"; Biomedical Informatics Seminar, University of Utah, Salt Lake City, Utah
- 2011 "The NIH Biomedical Translational Information System (BTRIS)", NIH Rare Disease Day, Bethesda, MD
- 2011 "American College of Medical Informatics Invited Panel: Integrating Genomic and Clinical Data in Electronic Health Records and Biomedical Repositories: Challenges, Solutions and Opportunities", AMIA Summit on Translational Bioinformatics, San Francisco, CA
- 2011 "Meaningful Use and Personalized Patient Education: Consumer Health Information Activities at the National Library of Medicine", AMIA Summit on Clinical Research Informatics, San Francisco, CA
- 2011 "The Shortest Distance Between Two Points May Not Be a Straight Line", NLM 175th Anniversary \ Informatics Career Panel, NLM, Bethesda, MD
- 2011 "The Electronic Health Record as a Tool for Improving Outcomes in Pulmonary Vascular Disease Opportunities, Challenges and Solutions", NHLBI Conference on Improving Outcomes for Pulmonary Vascular Disease, Bethesda, MD
- 2011 "What is Biomedical Informatics", NLM Biomedical Informatics Course, Woods Hole, MA
- 2011 "Databases and Terminologies: Principles", NLM Biomedical Informatics Course, Woods Hole, MA
- 2011 "Standard Terminologies", NLM Biomedical Informatics Course, Woods Hole, MA
- 2011 "Infobuttons", NLM Biomedical Informatics Course, Woods Hole, MA
- 2011 "Clinical Classifications and Biomedical Ontologies: Terminology Evolution, Principles, and Practicalities", AMIA Fall Symposium Tutorial, Washington DC

- 2011 "Customizing Infobuttons within EHRs Contributions to Meaningful Use", Central Pennsylvania Health Sciences Library Association, Hershey, PA
- 2011 "Customizing Infobuttons within EHRs Contributions to Meaningful Use", North Atlantic Health Sciences Libraries Association, Uncasville, CT
- 2011 "The Future is Here: Infobuttons", 6th Annual AMIA Invitational Health Policy Meeting, Washingon, DC
- 2012 "NIH Investments in 'Big' Behavioral and Social Science Data', Opportunities in Data Visualization and Visual Analytics for Behavioral and Social Sciences Research, NIH
- "Case Studies of the Use of Lifelines2 to Support Clinical Research at the National Institutes of Health", Eventflow User's Group, University of Maryland, College Park, MD
- 2012 "The Biomedical Translational Research Information System: Clinical Data Integration at the National Institutes of Health", Data Integration in the Life Sciences, College Park, MD
- 2012 "The NIH Biomedical Translational Research Information System", Institute of Medicine, Washington, DC
- 2013 "Silver Medallion Poster Preview: Ontologic Mapping between What Researchers Think the Data Are and What the Data Really Are", 2013 AMIA Translational Bioinformatics Summit, San Francisco, CA
- 2013 "Informatics Research toward the Solution-Oriented Medical Record", Cornell University Informatics Seminar, New York, NY
- 2013 "Silver Medallion Poster Framing", AMIA Clinical Research Informatics Summit, San Francisco, CA
- 2013 "The NIH Biomedical Translational Research Information System (BTRIS)", Society for Clinical and Translational Science, Washington, DC
- 2013 "The NIH Biomedical Translational Research Information System (BTRIS): Properties, Policies and Problems with the EHR as a Research Resource", Health Leadership Council, Washington, DC
- 2013 "The Biomedical Translational Research Information System (BTRIS) and the Landscape of the Intramural NIH Research Databases", CTSA Informatics Key Functions Committee webinar
- 2013 "Current EHRs and Opportunities for the Next Generation of Systems to Support Clinicians across the Spectrum of Health", DoD/VA iEHR and HIE Summit, Alexandria, VA
- 2013 "Improving Electronic Health Record (EHR) Functionality: Toward the Solution-Oriented Medical Record", National Institute of Standards and Technology, Gaithersburg, MD
- 2013 "High-Quality, Standardized, Controlled Healthcare Terminologies Come of Age", American Medical Informatics Association Nursing Working Group Webinar, Bethesda MD
- 2013 "Experiences with Cohort Lists for Re-Identification and Recruitment across Networks", Institute of Medicine, Washington, DC
- 2014 "Addressing Informatics Challenges by Solving the 'Terminology Problem'", American Medical Informatics Association, Mid-Atlantic Chapter Webinar, Bethesda MD
- 2014 "Expanding the Workforce and Training Future Leaders", National Library of Medicine Board of Regents Conference, Bethesda, MD
- 2014 Keynote: "The NIH Clinical Research Data Repository: Structure, Sources and Access", Informatics Technology for Cancer Research (ITCR) Initiative Annual Principal Investigator Meeting, Rockville, MD
- 2014 Panel: "Technology Innovation in Health Care",4th Annual Cross-Agency Emerging Technologies Summit, Washington, DC
- 2014 Keynote: "A Truly Meaningful Use of Electronic Health Records Freely Available to All: Automated Anticipation and Resolution of Clinical Information Needs at the Point of Care through Infobuttons", Health Informatics and Technology Conference, Baltimore, MD
- 2014 "Querying Four Decades of Clinical Research Data at the National Institutes of Health", Health Informatics and Technology Conference, Baltimore, MD
- 2014 "Addressing Informatics Challenges by Solving the 'Terminology Problem'", American College of Cardiology and American Heart Association Task Force on Clinical Data Standards, Washington, DC