

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.

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NAME Philip J. Kroth, M.D., M.S.	POSITION TITLE		
eRA COMMONS USER NAME (credential, e.g., agency login)	<ul style="list-style-type: none"> • Director, Biomedical Informatics Research, Training and Scholarship • Associate Professor 		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Rochester Institute of Technology, Rochester, NY	B.S.	1982-1987	Computer Engineering
Medical College of Ohio, Toledo, OH	M.D.	1991-1995	Medical School
State University of New York at Buffalo, Buffalo, NY		1995-1998	Internal Medicine Residency
Indiana University, Indianapolis, IN	M.Sc.	2000-2003	Clinical Research
The Regenstrief Institute, Inc., Indiana University Medical Center, Indianapolis, IN		2000-2003	NLM Biomedical Informatics Fellowship

A. Personal Statement

I am in my 11th year as a practicing, board certified, general internist at the University of New Mexico School of Medicine, where I am the director of our biomedical informatics fellowship training program at the UNM Health Sciences Library and Informatics Center, an Associate Professor in the Department of Internal Medicine, Co-Director of Clinical Protocol and Data Management/Medical Informatics Shared Resource at the University of New Mexico Cancer Center, and the Associate Chief Information Officer at University of New Mexico Hospitals. I also have a professional background in computer engineering and worked for four years in industry in that capacity before entering medical school. I had graduate level training in biostatistics, research design, survey design, epidemiology, and project management and earned a MS in clinical research as part of an NLM-sponsored, biomedical informatics fellowship. My areas of research focus includes adapting clinical records for research, assessing the value of various design aspects of electronic medical records, and the promotion of open access publication.

B. Positions and Employment

1987-1991 Software Engineer, Product Software Engineering, Eastman Kodak Company, Rochester, NY.
 1995-1998 Medical Residency, Internal Medicine, State University of New York at Buffalo, Buffalo, NY.
 1999-2000 Staff Physician, Lifetime Health, Rochester, NY.
 2000-2003 NLM Medical Informatics Fellow, Regenstrief Institute, Inc., Indiana University Medical Center, Indianapolis, IN.
 2004-2007 Assistant Director, Health Sciences Informatics Program Development, University of New Mexico Health Sciences Library and Informatics Center, Albuquerque, NM.
 2004-2011 Assistant Professor, Health Sciences Library and Informatics Center, Assistant Professor, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM.
 2010-2014 Associate Chief Information Officer, University of New Mexico Hospitals, Albuquerque, NM.
 2005- Co-Director, Clinical Protocol and Data Management/Medical Informatics Shared Resource, University of New Mexico Cancer Research and Treatment Center, Albuquerque, NM.
 2008- Director, Biomedical Informatics Research, Training and Scholarship, University of New Mexico Health Sciences Library and Informatics Center, Albuquerque, NM.
 2011- Associate Professor, Health Sciences Library and Informatics Center, Associate Professor, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM.

Other Experience and Professional Memberships

2000- Board Certification in Internal Medicine
 2001- Member, Society for General Internal Medicine
 2001- Member, American Medical Informatics Association
 2007 Member, Scientific Review Panel for the National Institute of Allergy and Infectious Diseases, NIH-NIAID-

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- 2009 DAIDS-07-R5, "NIAID Specimen Repository", Bethesda, MD
Ad-Hoc Member, Health Care Quality and Effectiveness Research (HCQER) Study Section, Agency for Healthcare Research and Quality (AHRQ), Gaithersburg, MD.
- 2007-2009 Member-at-Large, The New Mexico Regional Health Information Organization (RHIO) Board of Directors
Board Recertification in Internal Medicine
- 2010 Member, New Mexico Health Information Collaborative Clinician Advisory Team
- 2009-2013 Standing Member, Health Care Effectiveness and Outcome Research (HEOR) Study Section, Agency for Healthcare Research and Quality (AHRQ), Gaithersburg, MD. October 2009 - 2013.
- 2014 Chair-Elect, American Medical Informatics Association Academic Forum.
- 2015 Chair, American Medical Informatics Association Academic Forum.
- 2016 Chair Emeritus, American Medical Informatics Association Academic Forum.

Honors

- 1992 Professional in Residence Training Program Award (Medical Student Summer Scholarship), The Betty Ford Center at Eisenhower, Rancho Mirage, CA
- 2009-2013 Agency for Healthcare Research and Quality, Healthcare Effectiveness and Outcomes Research (HEOR) Study Section, Standing Member

C. Selected Peer-Reviewed Publications

1. **Kroth PJ**, Belsito A, Overhage JM, McDonald CJ. Bedside Vital Signs Capture for the Non-ICU Setting – An Open Source, PC-Based Solution. *Proc AMIA Symp.* 2001:344-8. PMID: PMC2243526.
2. **Kroth PJ**, Murray MD, McDonald, CJ. Under-treatment of Osteoporosis in Women as Detected by Vertebral Compression Fractures on Chest Radiographs. *The American Journal of Geriatric Pharmacotherapy.* 2004; 2:112-118.
3. **Kroth PJ**, Aspinall EE, and Phillips HE. The National Institutes of Health (NIH) Policy on Enhancing Public Access: Tracking Institutional Contribution Rates. *J Med Libr Assoc* 2006 July; 94(3). PMID: PMC1525307.
4. **Kroth PJ**, Dexter PR, Overhage MJ, Knipe C, Hui SL, Belsito A, McDonald CJ. A Computerized Decision Support System Improves the Accuracy of Temperature Capture from Nurses at the Bedside. *Proc AMIA Symp.* 2006:444-8. PMID: PMC1839332.
5. Stewart RS, Edgar HJ, Tatlock C, Peacock F, **Kroth PJ**. Developing a Standardized Cephalometric Vocabulary: Choices and Possible Strategies. *J Dent Educ.* 2008 Sep;72(9):989-97. PMID: PMC2755070.
6. **Kroth PJ**, McPherson L, Leverence RR, Pace W, Daniels E, Rhyne R, Williams R. Combining Web-Based and Mail Surveys Improves Response Rates: A PBRN Study From PRIME Net. *Ann Fam Med* 2009; 7: 245-8. PMID: PMC2682960.
7. **Kroth PJ**, Phillips HE, Eldredge JD. Leveraging Change to Integrate Library and Informatics Competencies into a new CTSC Curriculum: a Program Evaluation. *Medical Reference Services Quarterly* 2009 Jul-Sep; 28 (3): 221-34.
8. Leverence RR, Williams RL, Pace W, Parnes B, Fry-Johnson Y, Pathak DR, Skipper B, Daniels E, **Kroth PJ**. Context of Clinical Care: The Case of Hepatitis C in Underserved Communities—A Report from the Primary Care Multiethnic Network (PRIME Net) Consortium. *J Am Board Fam Med* 2009 22: 638-646.
9. Stewart RF, **Kroth PJ**, Schuyler M, Bailey R. Do Electronic Health Records Affect the Patient-Psychiatrist Relationship? A Before and After Study of Psychiatric Outpatients. *BMC Psychiatry.* 2010 Jan 8;10(1):3. PMID: PMC2818653.
10. **Kroth PJ**, Phillips, HJ, Hannigan G. Institutional Repository Access Patterns of Nontraditionally Published Academic Content: What Types of Content are Accessed the Most? *J Electron Res Med Libr.* 2010 Aug 25; 7(3):189-95.
11. **Kroth PJ**, Phillips, HE, Eldredge, JD. Evidence-Based Scholarly Communication: Information Professionals Unlocking Translational Research. *Evid Based Libr Inf Pract.* 2010 Dec; 5(4).
12. Eldredge JD, **Kroth PJ**, Phillips HE. The translational sciences: a rare open access opportunity. *J Med Libr Assoc.* 2011 Jul; 99(3):193-5. PMID: PMC3133897.
13. Edgar HJH, Daneshvari S, Harris EF, **Kroth PJ**, 2011 Inter-Observer Agreement on Subjects' Race and Race-Informative Characteristics. *PLoS ONE.* 2011 Aug 29; 6(8): e23986. PMID: PMC3163683.
14. **Kroth PJ**, Daneshvari S, Harris EF, Vreeman DJ, Edgar HJ. Using LOINC to link 10 terminology standards to one unified standard in a specialized domain. *J Biomed Inform.* 2011 Oct 19. PMID: PMC22036696.
15. Eldredge JD, Phillips HE, **Kroth PJ**. Real-time peer review: an innovative feature to an evidence-based practice conference. *Med Ref Serv Q.* 2013;32(4):412-23. PMID: PMC3864097.

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16. Daneshvari S, Youssof S, **Kroth P**. The NIH Office of Rare Diseases Research Patient Registry Standard: A report from the University of New Mexico's Oculopharyngeal Muscular Dystrophy Patient Registry. Proc AMIA Symp. 2013;269-77. PMID: PMC3900177
17. Eldredge JD, Weagel EF, **Kroth PJ**. Defining and identifying members of a research study population: CTSA-affiliated faculty members. Hypothesis 2014; 26 (1): 5-11.

D. Current Research Support

AHRQ 1R18 HS022065-01A1 (Kroth)

Dates: 4/2014-3/2017

Title: Minimizing Stress, Maximizing Success of Physician's Use of Health Information and Communications Technologies

Role: PI (1.8 person-months)

Purpose: Using focus groups at three diverse institutions to develop and test an inter-institutional survey on key aspects of how health information and communications technologies impacts the stress and work-life balance of physicians and the health care they provide.

NIH NCI P30 CA118100-06 (Willman)

Dates: 9/1/2010-8/31/2015

Title: UNM Cancer Center Support

Role: Co-Director, Clinical Protocol and Data Management/Medical Informatics Shared Resource (1.2 person months)

Purpose: National Cancer Institute cancer center designation for the UNM Cancer Center

NCATS 8UL1TR000041 (Larson)

Dates: 7/1/10-6/30/15

Title: The University of New Mexico Clinical and Translational Science Center

Role: Key Contributor (0.6 person months)

Purpose: University of New Mexico Health Sciences Center Clinical and Translational Science Award

Completed Research Support

La Tierra Sagrada Society Foundation 2012 Research Grant (Youssof)

Dates: 9/1/2012-8/31/2014

Title: Registry for Oculopharyngeal Muscular Dystrophy Patients and Family Members

Role: Biomedical Informatics Advisor

Purpose: Provide mentoring and consultation on assuring the design of the database for this patient registry of oculopharyngeal muscular dystrophy patients complies with the newly established NIH Office of Rare Diseases' Global Rare Diseases Patient Registry Common Data Elements standard.

NCI S09-148: (Bocklage)

Dates: 9/1/10-12/31/2012

Title: Biospecimen Contributing Institutions for Research Studies in Cancer Tissue Pre-Analytical Variables

Role: Biomedical informatics and quality control consultant (0.60 person-months)

Purpose: Provide consultation on biomedical informatics issues and to assist with key parts of the quality control process design and operation.

NIH 1 G08 LM009381-01A1 (Edgar; Kroth Co-PI for Informatics)

Dates: 8/15/2007-9/14/2010 (No cost extension to 9/14/2011)

Title: The Impact of an Ethnically Diverse, Web-based Case File in Orthodontic Education

Role: Co-PI, Biomedical Informatics Director (1.8 person-months)

Purpose: Develop and test a searchable, electronic version of an ethnically diverse orthodontic case file for use in biomedical informatics, anthropologic, orthodontic research, and orthodontic education

<http://hsc.unm.edu/programs/ocfs/>

NIH 1R13LM010054-01 (Kroth)

Dates: 4/1/2009-3/31/2010 (No-cost extension to 3/31/2011)

Title: Scholarly Communication in Translational Research: Emerging Roles for Librarians and Knowledge Management Professionals

Role: PI, Conference Planning Committee Chair (0.60 person-months)

Purpose: Increase awareness of and participation in open access publication activities among translational investigators by providing a forum for medical librarians and knowledge management professionals from CTSA-

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minded institutions to exchange current knowledge, best practices, and the latest research on the promotion and institutional support strategies for open access publishing.

Institutional Grant from Dedicated Health Research Funds from the University of New Mexico School of Medicine (Kroth)

Dates: 11/1/2009-10/31/2010

Title: Craving and Withdrawal Patterns During Smoking Cessation

Role: PI

Purpose: Develop and perform usability testing of prototype palm-top computer software to record near real-time ecological momentary assessment data (craving and withdrawal patterns) from those attempting smoking cessation.

NIH IP30-CA118100-01 (Willman)

Dates: 9-26-2005 to 8-31-2010

Title: UNM Cancer Center Support

Role: Co-Director, Clinical Protocol and Data Management/Medical Informatics Shared Resource (1.2 person months)

Purpose: Provide consultation to UNM Cancer Center investigators and administration on biomedical informatics issues as well as to chair the caBIG Advisory Committee.

NIH 5 F37 LM008747-03 (Stewart)

Dates: 8/1/2005 to 7/31/2008

Title: Effect of Electronic Psychiatric Charting on Aspects of the Patient-Psychiatrist Relationship

Role: Sponsor for research fellowship training grant

Purpose: This was an individual biomedical informatics fellowship grant that I was the sponsor and primary mentor for.

NIH BAA-RM-04-23 (Williams)

Dates: 9-30-2004 to 9-29-2007

Title: Integrating and Expanding Clinical Research Networks: RIOS Net and Underrepresented Populations

Role: Biomedical Informatics Consultant and Information Systems Steering Committee Chair (1.8 person months)

NCRR 1 P20 RR023493-01 (Burge)

Dates: 9/20/2006 to 9/21/2007

Title: Clinical and Translational Science Center at the University of New Mexico (Planning Grant)

Role: Director, Biomedical Informatics Support Group (1.2 person months)

Purpose: The purpose of this planning grant is to develop the resources necessary to apply for, and procure, a Clinical Translational Science Center award at the University of New Mexico Health Sciences Center.