

## CATHERINE ARNOTT SMITH

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### *Current status*

2002- Assistant Professor, School of Information Studies, Syracuse University  
2003- Adjunct Assistant Professor, Department of Pediatrics, SUNY-Upstate Medical University

### *Education*

2002 PhD, Library and Information Science (Medical Informatics), School of Information Sciences, University of Pittsburgh. [Dissertation title: The Clinical Document Architecture: XML Semantic Markup for Enhanced Clinical Information Retrieval]

2000 M.S.I.S. [Master of Science, Information Science (Medical Informatics)], Department of Information Science and Telecommunications, School of Information Sciences, University of Pittsburgh

1992 M.A., American History/Administration of Archives, Rackham Graduate School, University of Michigan, Ann Arbor, MI 48109; concentration in history of American medicine

1992 M.I.L.S. [Master of Information and Library Studies], School of Information and Library Studies, University of Michigan, Ann Arbor, MI 48109; concentration in medical librarianship

1981 B.A., cum laude, Tufts University, Medford, MA 02165; Double major in History (American History) and English (American Literature)

### *Research experience*

1997-2002 Research Fellow, Center for Biomedical Informatics, University of Pittsburgh

Between 1997 and 2000 I was attached to the Chart Engine Project directed by Henry Lowe, MD, Director of Oncology Informatics at the University of Pittsburgh Cancer Institute (<http://www.cml.upmc.edu>). The Chart Engine (formerly Image Engine) was a multimedia electronic medical record system that integrated a wide range of digitized clinical images with textual data stored in the University of Pittsburgh Medical Center's MARS electronic medical record system. With Dr. Lowe's move to Stanford University in June 2001, I was attached to Oncology Informatics within the University of Pittsburgh Medical Center, for work on projects related to Web-based consumer access to cancer information.

C. Arnett Smith

6.17.2004

### ***Committee memberships***

1998-2002            Member, IAIMS Vocabulary Policy Group, University of Pittsburgh Medical Center and Schools of the Health Sciences

The Vocabulary Policy Group of IAIMS [Integrated Advanced Information Management Systems] develops strategies that promote a standardized clinical lexicon for the UPMC (University of Pittsburgh Medical Center) Health System and the University of Pittsburgh Schools of the Health Sciences.

1998-2002            Member, IAIMS Research Database Committee, University of Pittsburgh Medical Center and Schools of the Health Sciences

The Research Database Committee is charged with developing a Faculty Information System for the University of Pittsburgh Schools of the Health Sciences, modeled on Georgetown University Medical School's Georgetown MedNet.

Jan.-Apr., 1998        Member, Center for Biomedical Informatics Curriculum Review Committee

### ***Selected professional experience***

Consultant, Medschool.com ([www.medschool.com](http://www.medschool.com)), March 2000.

June 1993-June 1997  
Medical Management Information Systems Specialist  
Lincoln National Reinsurance Companies  
Fort Wayne, IN 46801-7808

June 1992--June 1993  
Reference Librarian  
Galter Health Sciences Library, Northwestern University  
303 East Chicago Avenue, Chicago, IL 60601

### ***Selected publications***

Smith, C.A., & Stavri, P.Z. (in press). Consumer health vocabularies. In D. Lewis, G. Eysenbach, R. Kukafka, P.Z. Stavri, & H. Jimison, H. *Consumer Health Informatics*. New York: Springer-Verlag.

Smith, C.A. (2003). A model made of paper: Clinicians navigate the electronic health record. *Proceedings of the 2<sup>nd</sup> HCI/MIS Workshop*.

Smith, C.A. (2003). Effect on XML markup on retrieval of clinical documents. *Proceedings of AMIA Annual Fall Symposium* (In press).

Smith, C.A., Stavri, P.Z., & Chapman, W.W. (2002). In their own words? A terminological analysis of e-mail to a cancer information service. *Proceedings of AMIA Annual Fall Symposium*, 697-701.

Smith, C.A., Detlefsen, E.G., & Tannery, N.H. (2002). Medical informatics: The Pittsburgh experience. *Medical Reference Services Quarterly*, 21(3), pp. 97-102.

Hersh, W.R., Mailhot, M.F., Lowe, H.J., & Smith, C.A. (2001). Selective automated indexing of findings and diagnoses in radiology reports. *Journal of Biomedical Informatics*, 34(4), 262-273.

Smith, C.A. (2000). Invasion of the “gland grafters”. *The Scientific Review of Alternative Medicine*, 4(2), 53-56.

Lowe, H.J., Antipov, I., Hersh, W., Smith, C.A., & Mailhot, M. (1999). Automated semantic indexing of imaging reports to support retrieval of medical images in the multimedia electronic medical record. *Methods of Information in Medicine*, 38, 303-307.

Lowe, H.J., Antipov, I., Hersh, W., & Arnott Smith, C. (1998). Towards knowledge-based retrieval of medical images: The role of semantic indexing, image content representation and knowledge-based retrieval. *Proceedings of AMIA Annual Fall Symposium*, pp. 882-6.

Lowe, H.J., Antipov, I., Hersh, W., & Arnott Smith, C. (1998). Representing images in the multimedia electronic medical record using semantic indexing and image content-based representation to support knowledge-based retrieval of medical images. *EPRiMP-98 (IMIA)*, Rotterdam, Holland.

Arnott Smith, C. (1996). Medical information: What there is and where to get it. *Lincoln National Reinsurance Medical Resource*, Special supplement, May, pp. 1-8.

Arnott Smith, C. (1994). Medical library key prescription for managing ever-expanding medical information. *Lincoln National Reinsurance Reinsurance Reporter*, 140, pp. 19-23.

### ***Presentations and posters***

Presenter. *The Ten Thousand Questions Project: Avoiding bias in data collection*. [Invited paper]. Medical Library Association Annual Meeting, May 19-26, 2004, Washington, DC.

Presenter. *A model made of paper: Clinicians navigate the electronic health record*. Second HCI/MIS Workshop, Dec. 9-14, 2003, Seattle, WA.

Presenter. *Effect on XML markup on retrieval of clinical documents*. AMIA Fall Symposium, November 15-20, 2003, Washington, DC.

Presenter. *XML in medical informatics*. Lecture in Practice of Medicine series, SUNY-Upstate Medical University, Syracuse, NY, April 10, 2003.

Presenter. *The Clinical Document Architecture: XML semantic markup for enhanced information retrieval*. HL7 Clinical Document Architecture Conference, Berlin, Germany, October 7-9, 2002.

Poster presenter (with Henry Lowe, MD). *A preliminary analysis of XML's potential role in representing the semantics and structure of the oncology patient record*. AMIA 2001, Washington, DC, November 3-7, 2001.

Poster presenter (with Henry Lowe, MD), *Malignant melanoma on the World Wide Web: A multi-search engine experiment*, Medinfo 2001, September 2-5, London, England.

Co-presenter (with Ellen Detlefsen), "The Pittsburgh experience: An exploration in educating medical librarians for informatics careers," Medical Library Association, Annual Meeting, May 25-30, 2001, Orlando, FL.

Co-presenter (with Patricia Friedman), "FRIP: The Faculty Research Project: Collaborative work for improved collaboration," Medical Library Association, Annual Meeting, May 25-30, 2001, Orlando, FL.

Presenter, "Access to the fringe: Alternative medicine in Index Medicus, 1879-2000." Medical Library Association, Annual Meeting, May 25-30, 2001, Orlando, FL.

Presenter, "Evaluation of the Patient Record Architecture", National Library of Medicine Trainees Annual Meeting, July, 2000, Bethesda, MD.

Poster presenter, *Accessing the unorthodox: Alternative medicine in Index Medicus, 1879-2000*, International Congress of Medical Librarianship, 10th Meeting, July 2-6, 2000, London, England.

Presenter, "Alternative medicine: The long history of a trend." [Winner, Honorable Mention, Best New Researcher]. Medical Library Association/Canadian Health Librarians' Association, Annual Meeting, May 5-11, 2000, Vancouver, BC.

Presenter, "Searching for alternatives: Unconventional medicine, conventional vocabularies." American Medical Informatics Association Spring Meeting, May 27-29, 1998, Philadelphia, PA.

Co-presenter, "The multimedia medical record as a virtual library: A multidimensional model for indexing the content of medical images using the Unified Medical Language System." [H.J. Lowe, M.D., W. Hersh, M.D., & C.A. Smith]. American Medical Informatics Association Spring Meeting, May 27-29, 1998, Philadelphia, PA.)

Presenter, "An insurance road map to the information highway," Lincoln Re Annual LNRM [Lincoln National Risk Management] Partnership Seminar, June 25, 1997, Fort Wayne, IN. Annual seminar sponsored by Lincoln Re for underwriters at client companies nationwide].

Presenter, "Making the Internet work for you," Lincoln National Reinsurance Cos. Annual Seminar for Group Life-Health Clients, April 24-27, 1997, Cincinnati, OH. [Annual seminar sponsored by LNRC for client insurance companies nationwide].

Convener and presenter, 5-member panel: "Nontraditionalists in the medical library". Midwest Chapter/MLA '95, October 1995, Fort Wayne, IN.

Presenter, "The Verity Project: Building your own in-house medical database". Midwest Chapter/MLA '95, October 1995, Fort Wayne, IN.

Co-presenter, "Online sources of medical information," Winter meeting of the Chicago Chapter of the American Medical Writers of America, January 1993, Chicago, IL.

### ***Professional associations***

Medical Library Association, 1991--  
Hospitality Committee, Chicago Convention, 1993  
Member, History of the Health Sciences Section, 1992--  
Member, Medical Informatics Section, 1995—  
Chair-Elect, Medical Library Education Section, 2002-2003  
Chair, Medical Library Education Section, 2003--  
Midwest Region, MLA, 1993-1997  
Member, Continuing Education Committee, MC/MLA '95 (Fort Wayne)  
Member, Program Committee, MC/MLA '95 (Fort Wayne)  
Member, Library Advisory Board, Indiana Vocational Technical Institute/Fort Wayne, 1994-1997  
Member, Collections Committee, Lincoln Museum Foundation,  
Fort Wayne, IN, 1996-1997  
American Medical Informatics Association, 1997-

### ***Awards and honors***

December 2003      Awarded research stipend from IBM Center for the Business of Government  
([www.businessofgovernment.org](http://www.businessofgovernment.org))

This is a \$15,000 stipend funded by IBM's new "e-health initiative" to support my research into knowledge discovery in clinical documents.

May 2003      Donald A.B. Lindberg Research Fellowship (Medical Library Association)

This is a \$25,000 fellowship supporting research into consumer health terminology as expressed in Web-based consumer questions.

Summer 2001      Coro Pittsburgh Health Sciences Fellow

This was a seven-week competitive fellowship sponsored by the Coro Foundation and the Jewish Healthcare Foundation and designed to enhance the educational experience of participants in health graduate programs.

May 2000      Honorable Mention, Best New Researcher Award, Medical Library Association Annual Conference (Vancouver, BC)

I was presented with this award for a paper entitled *Alternative medicine: The long history of a trend* which examined trends in NLM SERLINE indexing of periodicals focusing on alternative medicine concepts.

April 2000      The Catherine Ofiesh Orner Award, School of Information Science, University of Pittsburgh

This is an annual prize given to the student at the School of Information Science who submits “the most original and innovative paper in information science suitable for publication.” I received the Orner Award for my paper entitled *The semantics of display: Hierarchies and classification* which examines the evolution of hierarchies for use in navigation of information spaces.

1997-2002 National Library of Medicine Medical Informatics Trainee

This fellowship provided full tuition and a stipend to support my full-time doctoral studies.