

Ellen J. Cramer

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"Tell me and I forget. Teach me and I remember. Involve me and I learn."

-- Benjamin Franklin

Work

Cornell University, Ithaca, NY

Computer and Information Science

Researcher/Programmer

2001 - Present National Science Digital Library Project (NSDL)

1998 - 2000 Computing and Facilities Support

NSDL Interactions:

- Development lead on various web application projects.
- Help coordinate efforts across functional areas of core integration and technical infrastructure projects.
- Provide usability and technical expertise on committees related to web presence (<http://nsdl.org>), content management, repository requirements, and systems integration.
- Interact with faculty and students on digital library and information science research projects.
- See teaching experiences below.

Current NSDL programming projects:

- Project lead on NSDL blogosphere - [ExpertVoices](#). Based on WordPress Multiuser plug-in architecture. Written in PHP and javascript.
 - Gateway to blogs and posts by audience, topic, and chronologically.
 - Plug-ins which use the NSDL Data Repository (NDR) API to create and annotate resources in the NDR.
- Interface developer for the [NSDL Wiki](#), which is a customized version of MediaWiki with similar extension to the library as the blogging software.

SUNY Stony Brook, Stony Brook, NY

Pathways to Midwifery (Distance education program)

Visiting Assistant Professor

1998 Spring Semester

Midwifery Practice, Cortland, NY

Certified Nurse Midwife (CNM)

1994 - 1998 Family Health Network

1990 - 1994 OB/GYN Associates

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OB/GYN Registered Nurse

Hospital and office settings.

1981 – 1990, Details available on request.

Education

Ph.D. -- *Nova Southeastern University* (February 2004)

School of Computer and Information Systems, Fort Lauderdale, FL

Computing Technology in Education

GPA: 4.0

- Courses: HCI, Authorware, Telecommunications/Networks, Courseware, Seminar in Online Education, Research Methodology, Multimedia Systems, Learning Theory
- Dissertation: Web-based Continuing Education for Midwifery Preceptors: Building Community Online. (Abstract available <http://ejc.remarc.com/resume/?page=phd>)

M.S. -- *University of Minnesota* (March 1990)

Nurse Midwifery, Minneapolis, MN

GPA: 4.0

B.S. -- *SUNY Institute of Technology* (May 1981)

Nursing, Utica, NY

Dean's List

R.N. Diploma -- *C.S. Wilson Memorial Hospital* (June 1979)

School of Nursing, Johnson City, NY

Teaching Experiences

Introduction to Web Design and Programming (COM S/INFO 130)

Cornell University, Computer and Information Science (2004 Fall Semester)

Assisted Professor Phoebe Sengers with course management and lectures. Supervised teaching assistants in creating and grading assignments. Course topics: web design, layout, usability, accessibility, XHTML, CSS/P, PHP, and image manipulation.

Web Standards

Empire State College, Adjunct Faculty (2005 Spring Semester)

Instructed ESC independent student using web standards to develop a web resource to help non-profit organizations create a web presence using current web standards and technology (xhtml, css/p, rss) while incorporating a user-centered design.

Preceptor

In addition to teaching at SUNY Stony Brook, our midwifery practice was a clinical site and I served as adjunct faculty for CNEP, SUNY Stony Brook, and NJMD. We also precepted nurse practitioner students, nursing students, medical students, and EMT trainees.

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Student Projects

Mentored several student projects in Computer Science, Human Computer Interaction, and Information Science researching information visualization interfaces, online collaboration tools, metadata quality analysis, and search results displays and analysis.

Technology Skills

Web Services

- Web 2.0 collaborative tools (mashups).
- Experienced with managing and using: Apache or IIS with PHP and MySQL, Postgresql, and Oracle; Tomcat container and java libraries with in-house and open source applications.
- Past experience with using Microsoft Exchange and MS-SQL; Remedy Helpdesk and uPortal customizations.

Programming languages

- Current projects: CSS, Java, Java script, JSP, PHP, RDQL, REST, RSS, SOAP, SQL, XHTML, XSLT.
- Strong proponent for using CVS or equivalent for collaborative and individual code versioning. Comfortable using Jakarta Ant for java compilation.
- Past experiences: Basic, Cold Fusion, Mason, Perl, Visual Basic.

Operating Systems

Experienced with administration and development in Linux and Windows.
Comfortable using Macintosh.

Desktop Applications

Adobe Photoshop/Illustrator, Altova XML Spy, Cygwin, Eclipse IDE and plug-ins, Exceed, Internet browsers, ssh and ftp clients, Macromedia Studio, Microsoft Office, OpenOffice, vi.

Publications

Krafft, D., Birkland, A., & Cramer, E. (2008). *NCore: Architecture and Implementation of a Flexible, Collaborative Digital Library*. Paper to be presented at Joint Conference on Digital Libraries, Pittsburgh, PA in June 2008.

Cramer, E. & Minton Morris, C. (2008). *Embedding the Managed Repository in National Science Digital Library (NSDL) Semantic Library Services*. Paper to be presented at Open Repositories Conference, Southampton, UK on April 1, 2008.

Lagoze, C., Krafft, D., Jesuroga, S., Cornwell, T., Cramer, E., Shin, E. (February 2005). *An Information Network Overlay Architecture for the NSDL*. Joint Conference on Digital Libraries in Denver, CO, June 2005.

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Cramer, E. (February 2004). *Web-based continuing education for midwifery preceptors: building community online*. Doctoral dissertation. Nova Southeastern University, School of Computer and Information Science.

Cramer, E., Krafft, D., Hillmann, D., Saylor, J., Terrizzi, C. (May 2003). *Contribution and collaboration strategies for the National Science Digital Library: Investigating technological solutions to facilitate social evolution of a collaborative infrastructure*. Joint Conference on Digital libraries in Houston, TX, May, 2003.

Cramer, E., Terrizzi, C. (April 2003). *Outside the Box: Incorporating a Novel User Interface for the National Science Digital Library into Everyday Home Activity*. CHI 2003 Workshop, Fort Lauderdale, FL.

References available on request.