

# MICHAEL L. NELSON

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## Professional Preparation

Postdoctoral	University of North Carolina, Chapel Hill	Information and Library Science	2000-2001
Ph.D.	Old Dominion University	Computer Science	2000
M.S.	Old Dominion University	Computer Science	1997
B.S.	Virginia Tech	Computer Science	1991

## Appointments

Assistant Professor	Old Dominion University, Computer Science Department	Norfolk VA	2002-
Computer Engineer	NASA Langley Research Center	Hampton VA	1991-2002
Principal	Unified Research Laboratories	Hampton VA	1995-1996
Summer Visiting Researcher	Air Force Research Laboratory	Albuquerque NM	1999, 2000

## Publications

### Five Relevant Publications

1. Frank McCown, Catherine C. Marshall, Michael L. Nelson, Why Websites Are Lost (and How They're Sometimes Found), *Communications of the ACM*, (accepted for publication).
2. Michael L. Nelson, Frank McCown, Joan A. Smith, Martin Klein, Using The Web Infrastructure To Preserve Web Pages, *International Journal on Digital Libraries*, 6(4), pp. 327-349, 2007.
3. Frank McCown, Norou Diawara, Michael L. Nelson, Factors Affecting Website Reconstruction from the Web Infrastructure, *Proceedings of JCDL 2007*, pp. 39-48, 2007.
4. Frank McCown, Michael L. Nelson, Characterization of Search Engine Caches, *Proceedings of IS&T Archiving 2007*, pp. 48-52. (Also available as available as arXiv cs.DL/0703083).
5. Frank McCown, Xiaoming Liu, Michael L. Nelson, Mohammad Zubair, Search Engine Coverage of the OAI-PMH Corpus, *IEEE Internet Computing*, 10(2), 2006, pp. 66-73.

### Five Other Publications

1. Johan Bollen, Michael L. Nelson, Gary Geisler, Raquel Araujo, Usage derived recommendations for a video digital library, *Journal of Network and Computer Applications*, 30(3), pp. 1059-1083, 2007.
2. Joan A. Smith, Martin Klein, Michael L. Nelson, Repository Replication Using NNTP and SMTP, *Proceedings of ECDL 2006*, pp. 51-62. (Expanded version available as arXiv cs.DL/0606008).
3. Terry L. Harrison and Michael L. Nelson, Just-In-Time Recovery of Missing Web Pages, *Proceedings of Hypertext 2006*, pp. 157-168.

4. X. Liu, J. Bollen, M. L. Nelson and H. Van de Sompel, Co-authorship networks in the digital library research community, *Information Processing and Management*, 41(6), pp. 1462-1480, 2005.
5. H. Van de Sompel, M. L. Nelson, C. Lagoze, S. Warner, Resource Harvesting within the OAI-PMH Framework, *D-Lib Magazine*, 10(12), 2004.

## **Synergistic Activities**

### **Open Archives Initiative Co-Editor**

1. "ORE Specification and User Guide - Table of Contents", (co-editor with H. Van de Sompel, C. Lagoze, P. Johnston, R. Sanderson and S. Warner), <http://www.openarchives.org/ore/toc>
2. "The Open Archives Initiative Protocol for Metadata Harvesting", (co-editor with H. Van de Sompel, C. Lagoze & S. Warner), <http://www.openarchives.org/OAI/openarchivesprotocol.html>
3. "Specification for an OAI Static Repository and an OAI Static Repository Gateway", (co-editor with H. Van de Sompel, C. Lagoze, S. Warner, P. Hochstenbach & H. Jerez), <http://www.openarchives.org/OAI/2.0/guidelines-static-repository.htm>
4. "Implementation Guidelines for the Open Archives Initiative Protocol for Metadata Harvesting", (co-editor with H. Van de Sompel, C. Lagoze & S. Warner), <http://www.openarchives.org/OAI/2.0/guidelines.htm>
5. "Conveying rights expressions about metadata in the OAI-PMH framework", (co-editor with H. Van de Sompel, C. Lagoze & S. Warner), <http://www.openarchives.org/OAI/test/guidelines-rights.htm>

### **Five Recent Invited Presentations**

1. "How much preservation do I get if I do absolutely nothing? Using the Web Infrastructure for Digital Preservation", Media Production 2006, Berlin Germany, December 8, 2006.
2. "Thinking Differently About Web Page Preservation", Library of Congress Seminar, June 29, 2006.
3. "What's new from the OAI", OAI-4, Geneva Switzerland, October 20, 2005.
4. "ODU Archive Ingest & Handling Test", NDIIPP Partners Meeting, July 12, 2005.
5. "A New Model for Web Resource Harvesting", University of Florida Department of Computer Science Colloquium, March 29, 2005.

### **Recent Service**

- Editorial Board, *International Journal of Digital Libraries (IJDL)*, 2005-
- Program Co-Chair, *Joint Conference on Digital Libraries*, 2006
- Co-Editor, *International Journal of Digital Libraries*, Special Issue on Complex Digital Objects, 2005
- Program Committee, *Joint Conference on Digital Libraries*, 2002-2005, 2007-2008

### **Collaborators Not Listed Above**

George Roncaglia (NASA LaRC), Mike Little (NASA LaRC), Ronnie Gillian (NASA LaRC).

### **Advisors**

Graduate: Kurt Maly, Old Dominion University

Postdoctoral: Gary Marchionini, University of North Carolina