

# MICHAEL L. NELSON

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## Professional Preparation

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

## Appointments

Professor	Old Dominion University, Computer Science Department	Norfolk VA	2015-
Associate Professor	Old Dominion University, Computer Science Department	Norfolk VA	2008-2015
Assistant Professor	Old Dominion University, Computer Science Department	Norfolk VA	2002-2008
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

## Products

### Five Relevant Products

1. Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson, Generating Stories From Archived Collections, *Proceedings of 9th ACM Conference on Web Science*, pp. 309-318, 2017.
2. Lulwah Alkwai, Michael L. Nelson, and Michele C. Weigle, Comparing the Archival Rate of Arabic, English, Danish, and Korean Language Web Pages, *ACM Transactions on Information Systems*, 36(1), 2017.
3. Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson, Characteristics of social media stories: What makes a good story?, *International Journal on Digital Libraries*, 17(3), pp. 239--256, 2016.
4. Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson, Detecting Off-Topic Pages in Web Archives, *International Journal on Digital Libraries*, 17(3), pp. 203--221, 2016.
5. Justin F. Brunelle, Mat Kelly, Hany SalahEldeen Michele C. Weigle, and Michael L. Nelson, Not all mementos are created equal: Measuring the impact of missing resources, *Proceedings of ACM/IEEE JCDL 2014*, pp. 321--330. (**Best Student Paper Award**)

### Five Other Products

1. Shawn M. Jones, Michael L. Nelson, Herbert Van de Sompel, Avoiding spoilers: wiki time travel with Sheldon Cooper, *International Journal on Digital Libraries*, 2016

2. Herbert Van de Sompel and Michael L. Nelson, Reminiscing About 15 Years of Interoperability Efforts, *D-Lib Magazine*, 21(11/12), 2015.
3. Scott G. Ainsworth, Michael L. Nelson, Herbert Van de Sompel, Only One Out of Five Archived Web Pages Existed as Presented, *Proceedings of ACM Hypertext*, 2015.
4. Scott G. Ainsworth, Michael L. Nelson, Evaluating sliding and sticky target policies by measuring temporal drift in acyclic walks through a web archive, *International Journal on Digital Libraries*, 16(2), pp. 129–144, 2015.
5. Charles L. Cartledge and Michael L. Nelson, When should I make preservation copies of myself?, *Proceedings of ACM/IEEE JCDL 2014*, pp. 1–10. (**Vannevar Bush Best Paper Award**)

### **Synergistic Activities - Protocols**

1. "HTTP framework for time-based access to resource states – Memento", (with H. Van de Sompel & R. Sanderson), IETF Internet RFC 7089, December 2013, <http://tools.ietf.org/html/rfc7089>
2. "ResourceSync Framework Specification -- Beta Draft", (with B. Haslhofer, M. Klein, C. Lagoze, R. Sanderson, H. Van de Sompel, S. Warner), April 21, 2014, ANSI/NISO Z39.99-2014, <http://www.openarchives.org/rs/1.0/resourcesync>
3. "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>
4. "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>
5. "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>

### **Collaborators and Other Affiliations**

Collaborators in Past Four Years:

Jefferson Bailey (Internet Archive), Hector Garcia-Molina (Stanford University), Kathie Gossett (Iowa State), Mark Graham (Internet Archive), Bernhard Haslhofer (University of Vienna), Barrie Howard (Library of Congress), Carl Lagoze (University of Michigan), Frank McCown (Harding University), Carlton Northern (Mitre), Andreas Paepcke (Stanford University), Liza Potts (Michigan State), David Roh (University of Utah), David Rosenthal (Stanford University), Robert Sanderson (Getty), Avi Santo (Old Dominion University), Ingeborg Solvberg (Norwegian University of Science and Technology), Herbert Van de Sompel (Los Alamos National Laboratory), Simeon Warner (Cornell University), Michele Weigle (Old Dominion University)

Advisors:

Graduate: Kurt Maly, Old Dominion University

Postdoctoral: Gary Marchionini, University of North Carolina

PhD Supervision:

8 PhD graduates advised: Yasmin AlNoamany (2016), Justin Brunelle (2016), Hany SalahEldeen (2015, Microsoft), Ahmed Alsum (2014, Stanford University), Charles Cartledge (2014, Fulcrum), Martin Klein (2011, Los Alamos National Laboratory), Joan Smith (2008, Linear B Systems), Frank McCown (2007, Harding University)

12 current PhD students (co-)advising: Scott Ainsworth, Sawood Alam, Lulwah Alkwai, Mohamed Aturban, Brian Griffin, Hussam Hallak, Shawn M. Jones, Mat Kelly, Louis Nguyen, Alexander Nwala, Corren McCoy, Plinio Vargas