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Michael L. Nelson

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Career Higlights

Director: Web Science & Digital Library (WSDL) Research Group, blog: ws-dl.blogspot.com, GitHub: github.

com/oduwsdl, Twitter: twitter.com/WebSciDL

PhD Students: 8 graduated, 9 current (advising and co-advising)

Grants: 27 Grants (PI on 18), \$9.4M in total funding, including an NSF CAREER award

Publications: 250+ publications, 5600+ citations, h=34, scholar.google.com/citations?user=oWQaPnwAAAAJ

Protocols: Co-editor of four popular protocols: Memento (Internet RFC 7089), ResourceSync (ANSI/NISO Z39.99-2014),

OAI-ORE, and OAI-PMH

Awards: 3 best paper awards (+5 nominations), 4 best poster awards, Digital Preservation Award (2010), NSF CAREER

Award (2007)

Popular Media: including CNN, The New Yorker, The Atlantic, The Washington Post, MIT Technology Review, The Chronicle

of Higher Education, WHRO, BBC, and Der Spiegel

Professional Preparation

2000–2001 Postdoctoral, University of North Carolina, School of Information and Library Science, Chapel Hill, NC, Advisor:

Gary Marchionini.

2000 Ph.D. Computer Science, Old Dominion University, Norfolk, VA, Advisor: Kurt Maly.

Dissertation Title: Buckets: Smart Objects for Digital Libraries

1997 M.S. Computer Science, Old Dominion University, Norfolk, VA.

1991 B.S. Computer Science, Virginia Tech, Blacksburg, VA.

Appointments

 $2015-present \qquad \textbf{Professor}, \textit{ Old Dominion University}, \textit{ Norfolk, VA}.$

2018-present Professor, Virginia Modeling, Analysis and Simulation Center (joint appointment), Suffolk, VA.

2008–2015 Associate Professor, Old Dominion University, Norfolk, VA.

2002–2008 Assistant Professor, Old Dominion University, Norfolk, VA.

 $1991-2002 \qquad \textbf{Computer Engineer}, \textit{ NASA Langley Research Center}, \textit{ Hampton}, \textit{ VA}.$

2002 Consultant, Institute for Computer Applications in Science and Engineering (ICASE), Hampton, VA.

2000 Summer Visiting Researcher, Air Force Research Laboratory, Albuquerque, NM.

1999 Summer Visiting Researcher, Air Force Research Laboratory, Albuquerque, NM.

1995–1996 Principal, Unified Research Laboratories, Hampton, VA.

1991 Systems Programmer, Computer Sciences Corporation, Hampton, VA.

Awards and Recognition

- 2018 ODU College of Science Distinguished Research Award.
- 2018 Best Poster, ACM/IEEE JCDL 2018.
- 2017 Best Poster, ACM/IEEE JCDL 2017.
- 2015 Best Student Paper Award (Lulwah Alkwai), ACM/IEEE JCDL 2015.
- 2015 Best Poster, ACM/IEEE JCDL 2015.

- 2014 Vannevar Bush Best Paper Award, ACM/IEEE JCDL 2014.
- 2014 Best Student Paper Award (Justin Brunelle), ACM/IEEE JCDL 2014.
- 2013 Best Student Paper Award (Yasmin AlNoamany), TPDL 2013.
- 2013 Best Student Paper Finalist (Scott Ainsworth), ACM/IEEE JCDL 2013.
- 2012 ODU College of Science Distinguished Research Award.
- 2012 ODU College of Science Doctoral Mentoring Award
- 2010 Digital Preservation Coalition (DPC) Digital Preservation Award, For Work on Memento, London UK, December 1 2010.
- 2010 Microsoft Research Faculty Summit 2010, For Work on Memento, Redmond WA, July 12-13 2010.
- 2010 O'Reilly Foo Camp, For Work on Memento, Sebastopol CA, June 24-28 2010.
- 2008 Digital Preservation Pioneer, Library of Congress.
- 2007–2011 NSF CAREER Award, Self-Preserving Digital Objects.
 - 2007 Invited Participant, NSF/JISC Repositories Workshop, April 17-19, 2007, Phoenix AZ.
 - 2004 Best Poster, ACM/IEEE JCDL 2004.
 - 2003 Vannevar Bush Best Paper Finalist, ACM/IEEE JCDL 2003.
 - 2001 Award for the NACA digital library, NASA Langley Research Center.
- 2000–2001 Information Technology Fellowship, NASA Langley Research Center.
 - 2000 Award for Research Excellence, NASA Langley Research Center.
 - 1996 Best Technical Site for the NASA Technical Report Server, Industry. Net.
 - 1994 Team Excellence Award for Internet Fair 1, NASA Langley Research Center.
 - 1993 Award for the Langley Technical Report Server, NASA Langley Research Center.

Grants (\$9.4M total, PI on 18 of 27)

- 2018–2019 Z. Xie (PI), E. Fox, M. Klein, M. L. Nelson, J. Littman, J. Bailey, I. Milligan, "Continuing Education to Advance Web Archiving", IMLS, \$248,451 (ODU portion is \$20,000)
- 2017–2019 M. C. Weigle (PI), M. L. Nelson, "Visualizing Webpage Changes Over Time", NEH, \$75,000
- 2016–2019 M. L. Nelson (PI), M. C. Weigle, H. Van de Sompel, "Towards a Web-Centric Approach for Capturing the Scholarly Record", Andrew Mellon Foundation, \$830,000
- 2015–2018 M. L. Nelson (PI), M. C. Weigle, "Increasing the Value of Existing Web Archives", NSF, \$481,780
- 2015–2018 M. L. Nelson (PI), M. C. Weigle, "Combining Social Media Storytelling With Web Archives", IMLS, \$468,618
- 2014–2017 M. C. Weigle (PI), M. L. Nelson, "Archive What I Can See Now: Bringing Institutional Web Archiving Tools to the Individual Researcher", NEH, \$324,624
- 2014–2016 M. L. Nelson, "Web Archive Profiling Via Sampling", IIPC, \$49,000
 - 2014 M. L. Nelson (PI), M. C. Weigle, "Tools for Managing Seed URIs", Andrew Mellon Foundation, \$22,000
 - 2014 M. C. Weigle (PI), M. L. Nelson, "Visualizing Digital Collections of Web Archives", Andrew Mellon Foundation, \$22,000
- 2013–2014 M. C. Weigle (PI), M. L. Nelson, "Archive What I Can See Now", NEH, \$57,892
- 2013–2014 M. L. Nelson, "Enhanced Memento Support for MediaWiki", Andrew Mellon Foundation, \$25,000
- 2012–2013 M. L. Nelson, "Doctoral Consortium at 2012 ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL 2012)", NSF, \$15,930
- 2012–2013 T. A. Carpenter (PI), M. L. Nelson, C. Lagoze, "A Specification for Resource Synchronization", Alfred P. Sloan Foundation, \$222,706 (ODU portion is \$28,260)
 - 2011 M. L. Nelson (PI), M. C. Weigle, K. Gossett, L. Potts, "Identifying and Archiving Culturally Important Conversations in the Social Web", ODU Research Foundation, \$54,000
- 2010–2013 H. Garcia-Molina (PI), M. L. Nelson, F. McCown, "III: Large: Collaborative Research: Web Archive Cooperative", NSF, \$2,858,601 (ODU portion is \$399,754)
- 2010–2012 M. L. Nelson (PI), H. Van de Sompel, "Integrating the Past Web Into the Current Web", Library of Congress, \$1,000,000 (ODU portion is \$450,000)
 - 2008 M. L. Nelson, "Client-Side Preservation Techniques for ORE Aggregations", Andrew Mellon Foundation, \$24,500
- 2007–2011 M. L. Nelson, "CAREER: Self-Preserving Digital Objects", NSF, \$540,754
- 2007-2010 M. L. Nelson (PI), H. Van de Sompel, "Tools for a Preservation-Ready Web", Library of Congress, \$249,941
- 2006–2007 M. L. Nelson, "SGER: In Vivo Digital Preservation", NSF, \$101,895
 - 2006 M. L. Nelson, "Repository Design and Support for the Library of Congress", Library of Congress, \$16,156
- 2005–2006 M. L. Nelson, "OAI-PMH Repository Analysis for the NASA Langley Research Center Atmospheric Sciences Data Center", NASA LaRC, \$50,892

- 2005–2006 M. L. Nelson (PI), J. Bollen, "Shared Infrastructure Preservation Models", NSF, \$111,300
- 2004–2005 M. L. Nelson (PI), J. Bollen, "Self-Preserving Digital Objects", Library of Congress, \$109,836
- 2004–2005 M. L. Nelson, "mod_oai: Getting OAI for Free", Andrew Mellon Foundation, \$47,433
- 2003–2004 K. Maly (PI), M. Zubair, M. L. Nelson, J. Bollen, "Digital Library Technology/Application Development", NASA LaRC, \$240,000
- 2002-2004 K. Maly (PI), M. Zubair, M. L. Nelson, "Kepler A Communal Digital Library", NSF, \$700,000
- 2001–2002 K. Maly (PI), M. Zubair, M. L. Nelson, "An OAI-Compliant Federated Physics Digital Library for the NSDL", NSF, \$479,997

Protocols and Specifications

- [1] Herbert Van de Sompel, Michael Nelson, Geoff Bilder, John Kunze, and Simeon Warner. cite-as: A Link Relation to Convey a Preferred URI for Referencing, Internet RFC 8574, April 2019.
- [2] Martin Klein, Robert Sanderson, Robert Van de Sompel, Herbert, Simeon Warner, Bernhard Haslhofer, Michael Nelson, and Carl Lagoze. ResourceSync Framework Specification (ANSI/NISO Z39.99-2014). http://www.openarchives.org/rs/resourcesync, 2014.
- [3] Herbert Van de Sompel, Michael Nelson, and Robert Sanderson. HTTP framework for time-based access to resource states Memento, Internet RFC 7089, December 2013.
- [4] Carl Lagoze, Herbert Van de Sompel, Pete Johnston, Michael Nelson, Robert Sanderson, and Simeon Warner. ORE Specifications and User Guides, 2008.
- [5] Carl Lagoze, Herbert Van de Sompel, Michael L. Nelson, and Simeon Warner. The Open Archives Initiative Protocol for Metadata Harvesting. http://www.openarchives.org/OAI/openarchivesprotocol.html, 2002.

Proceedings Edited

- [1] José Borbinha, Michael L. Nelson, and Steve Knight, editors. *Proceedings of the 10th International Conference on Preservation of Digital Objects iPRES 2013, Lisbon, Portugal, September 3-5, 2013*, 2013.
- [2] Karim B. Boughida, Barrie Howard, Michael L. Nelson, Herbert Van de Sompel, and Ingeborg Sølvberg, editors. *Proceedings of the 12th ACM/IEEE-CS Joint Conference on Digital Libraries, JCDL '12, Washington, DC, USA, June 10-14, 2012.* ACM, 2012.
- [3] Gary Marchionini, Michael L. Nelson, and Catherine C. Marshall, editors. *ACM/IEEE Joint Conference on Digital Libraries, JCDL 2006, Chapel Hill, NC, USA, June 11-15, 2006, Proceedings*. ACM, 2006.
- [4] Michael L. Nelson, Kurt Maly, Mohammad Zubair, and Diann Rucsh-Feja, editors. Experimental OAI-Based Digital Library Systems, Workshop at the 2001 European Conference on Digial Libraries (ECDL), Darmstadt Germany, September 8, 2001. NASA (NASA/TM-2002-211638), 2002.

Book Chapters

- [1] Michael L. Nelson and Herbert Van de Sompel. Adding the dimension of time to HTTP. In SAGE Handbook of Web History. SAGE Publishing, 2019.
- [2] Michael L. Nelson, Carl Lagoze, Herbert Van de Sompel, Pete Johnston, Robert Sanderson, and Simeon Warner. Object Reuse and Exchange. In Wireless Communication and Information – Radio Engineering and Multimedia Applications, pages 259–265. Verlag Werner Hulsbusch, 2009.
- [3] Martin Klein, Frank McCown, Joan A. Smith, and Michael L. Nelson. How much preservation do I get if I do absolutely nothing? Using the Web Infrastructure for digital preservation.

- In Content Engineering: Konzepte, Technologien und Anwendungen in der Medienproduktion, pages 71–87. Gito Verlag, 2007.
- [4] Frank McCown, Joan A. Smith, Michael L. Nelson, and Johan Bollen. Reconstructing websites for the lazy webmaster. In *Dynamics of Search Engines: An Introduction*, pages 81–112. The Icfai University Press, 2007.
- [5] Gretchen L. Gottlich, John M. Meyer, Michael L. Nelson, and David J. Bianco. Integrating information technology into large organizations. In *Cases in Information Technology Management in Modern Organizations*, pages 210–225. Idea Group Inc., 1997.

Refereed Journals

- [1] Corren G. McCoy, Michael L. Nelson, and Michele C. Weigle. Mining the web to approximate university rankings. *Information Discovery and Delivery*, 46(3):173–183, 2018.
- [2] Shawn M. Jones, Herbert Van de Sompel, and Michael L. Nelson. Avoiding spoilers: wiki time travel with Sheldon Cooper. *International Journal on Digital Libraries*, 19(1):77–93, 2018.
- [3] 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.
- [4] Sawood Alam, Michael L. Nelson, Herbert Van de Sompel, Lyudmila L. Balakireva, Harihar Shankar, and David S. H. Rosenthal. Web archive profiling through CDX summarization. *International Journal on Digital Libraries*, 17(3):223–228, 2016.
- [5] 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):239–256, 2016.
- [6] Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson. Detecting off-topic pages within TimeMaps in Web archives. *International Journal on Digital Libraries*, 17(3):203–221, 2016.
- [7] 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. *International Journal on Digital Libraries*, 16(3-4):283–301, 2015.
- [8] Charles L. Cartledge and Michael L. Nelson. When should I make preservation copies of myself? and after I do, how will I send messages to my copies? *International Journal on Digital Libraries*, 16(3-4):183–205, 2015.
- [9] Justin F. Brunelle, Mat Kelly, Michele C. Weigle, and Michael L. Nelson. The impact of JavaScript on archivability. *International Journal on Digital Libraries*, 17(2):95–117, 2016.
- [10] Scott G. Ainsworth and 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):129–144, 2015.
- [11] Ahmed AlSum, Michele C. Weigle, Michael L. Nelson, and Herbert Van de Sompel. Profiling web archive coverage for top-level domain and content language. *International Journal on Digital Libraries*, 14(3):149–166, 2014.
- [12] Yasmin AlNoamany, Ahmed AlSum, Michele C. Weigle, and Michael L. Nelson. Who and what links to the Internet Archive. *International Journal on Digital Libraries*, 14(3):101–115, 2014.
- [13] Martin Klein and Michael L. Nelson. Moved but not gone: an evaluation of real-time methods for discovering replacement web pages. *International Journal on Digital Libraries*, 14(1-2):17–38, 2014.
- [14] Carl Lagoze, Michael L. Nelson, Herbert Van de Sompel, Simeon Warner, Robert Sanderson, and Pete Johnston. A Web-Based Resource Model for Scholarship 2.0: Object Reuse & Exchange. *Concurrency and Computation: Practice and Experience*, 24(18):2221–2240, 2012.

- [15] Frank McCown, Catherine C. Marshall, and Michael L. Nelson. Why websites are lost (and how they're sometimes found). *Communications of the ACM*, 52(11):141–145, 2009.
- [16] Michael L. Nelson, Frank McCown, Joan A. Smith, and Martin Klein. Using the web infrastructure to preserve web pages. *International Journal on Digital Libraries*, 6(4):327–349, 2007.
- [17] Johan Bollen, Michael L. Nelson, Gary Geisler, and Raquel Araujo. Usage derived recommendations for a video digital library. *Journal of Network and Computer Applications*, 30(3):1059–1083, 2007.
- [18] Frank McCown, Xiaoming Liu, Michael L. Nelson, and Mohammad Zubair. Search engine coverage of the OAI-PMH corpus. *IEEE Internet Computing*, 10(2):66–73, 2006.
- [19] Michael L. Nelson and Herbert Van de Sompel. IJDL special issue on complex digital objects: Guest editors' introduction. *International Journal on Digital Libraries*, 6(2):113–114, 2006.
- [20] Xiaoming Liu, Johan Bollen, Michael L. Nelson, and Hebert Van de Sompel. Co-authorship networks in the digital library research community. *Information Processing and Management*, 41(6):1462–1480, 2005.
- [21] Xiaoming Liu, Kurt Maly, Michael L. Nelson, and Mohammad Zubair. Lessons Learned with Arc, an OAI-PMH Service Provider. *Library Trends*, 53(4):590–603, 2005.
- [22] Michael L. Nelson, JoAnne R. Calhoun, and Terry L. Harrison. OAI and NASA scientific and technical information. *Library Hi-Tech*, 21(2):140–150, 2003.
- [23] Xiaoming Liu, Kurt Maly, Mohammad Zubair, Qiaoling Hong, Michael L. Nelson, Frances Knudson, and Irma Holtkamp. Federated Searching Interface Techniques for Heterogeneous OAI Repositories. *Journal of Digital Information*, 2(4), 2002.
- [24] Michael L. Nelson and Kurt Maly. Buckets: smart objects for digital libraries. *Communications of the ACM*, 44(5):60–62, 2001.
- [25] Michael L. Nelson. Buckets A new digital library technology for preserving NASA research. *Journal of Government Information*, 28(4):369–394, 2001.
- [26] Michael L. Nelson. Better interoperability through the Open Archives Initiative. *New Review of Information Networking*, 7:133–146, 2001.
- [27] Nancy R. Kaplan and Michael L. Nelson. Determining the publication impact of a digital library. Journal of the American Society for Information Science, 51(4):324–339, 2000.
- [28] Michael L. Nelson and Kurt Maly. Preserving the pyramid of STI using buckets. *International Journal on Grey Literature*, 1(4):174–178, 2000.
- [29] Sandra L. Esler and Michael L. Nelson. Evolution of scientific and technical information distribution. *Journal of the American Society for Information Science*, 49(1):82–91, 1998.
- [30] Sandra L. Esler and Michael L. Nelson. NASA indexing benchmarks: evaluating text search engines. *Journal of Network and Computer Applications*, 20(4):339–353, 1997.
- [31] Sandra L. Esler and Michael L. Nelson. TRSkit: A Simple Digital Library Toolkit. *Journal of Internet Cataloging*, 1(2):41–55, 1997.
- [32] Michael L. Nelson and Ming-Hokng Maa. Optmizing the NASA Technical Report Server. *Internet Research: Electronic Network Applications and Policy*, 6(1):64–70, 1996.
- [33] Michael L. Nelson, Gretchen L. Gottlich, David J. Bianco, Sharon S. Paulson, Robert L. Binkley, Yvonne D. Kellogg, Chris J. Beaumont, Robert B. Schmunk, Michael J. Kurtz, Alberto Accomazzi, and Omar Syed. The NASA technical report server. *Internet Research: Electronic Network Applications and Policy*, 5(2):25–36, 1995.

Refereed Conferences and Workshops

- Shawn M. Jones, Michele C. Weigle, and Michael L. Nelson. Social cards probably provide for better understanding of web archive collections. In *Proceedings of the 28th ACM International* Conference on Information and Knowledge Management, CIKM 2019, 2019.
- [2] Mohamed Aturban, Sawood Alam, Michele C. Weigle, and Michael L. Nelson. Archive assisted archival fixity verification framework. In *JCDL '19: Proceedings of the 19th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 162–171, 2019.
- [3] Sawood Alam, Michele C. Weigle, Michael L. Nelson, Fernando Melo, Daniel Bicho, and Daniel Gomes. Mementomap framework for flexible and adaptive web archive profiling,. In *JCDL '19: Proceedings of the 19th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 172–181, 2019.
- [4] Alexander C. Nwala, Michele C. Weigle, and Michael L. Nelson. Using micro-collections in social media to generate seeds for web archive collections. In *JCDL '19: Proceedings of the 19th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 251–260, 2019.
- [5] Alexander C. Nwala, Michele C. Weigle, and Michael L. Nelson. Bootstrapping web archive collections from social media. In *Proceedings of ACM Hypertext*, pages 64–72, 2018.
- [6] Grant Atkins, Alexander C. Nwala, Michele C. Weigle, and Michael L. Nelson. Measuring news similarity across ten U.S. news sites. In *Proceedings of iPres*, 2018.
- [7] Shawn M. Jones, Michele C. Weigle, and Michael L. Nelson. The off-topic Memento toolkit. In *Proceedings of iPres*, 2018.
- [8] Shawn M. Jones, Alexander C. Nwala, Michele C. Weigle, and Michael L. Nelson. The many shapes of Archive-It. In *Proceedings of iPres*, 2018.
- [9] Alexander C. Nwala, Michele C. Weigle, and Michael L. Nelson. Scraping SERPs for archival seeds: It matters when you start. In JCDL '18: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries, pages 263–272, 2018.
- [10] Mat Kelly, Michael L. Nelson, and Michael C. Weigle. A framework for aggregating private and public web archives. In *JCDL '18: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 273–282, 2018.
- [11] Mohamed Aturban, Mat Kelly, Sawood Alam, John A. Berlin, Michael L. Nelson, and Michael C. Weigle. ArchiveNow: Simplified, extensible, multi-archive preservation. In *JCDL '18: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 321–322, 2018.
- [12] Sawood Alam, Mat Kelly, Michele C. Weigle, and Michael L. Nelson. Unobtrusive and extensible archival replay banners using custom elements. In *JCDL '18: Proceedings of the 18th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 319–320, 2018.
- [13] Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson. Generating stories from archived collections. In *Proceedings of the 9th ACM Conference on Web Science*, pages 309–318, 2017.
- [14] Sawood Alam, Mat Kelly, Michele C. Weigle, and Michael L. Nelson. Client-side reconstruction of composite Mementos using ServiceWorker. In *JCDL '17: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 237–240, 2017.
- [15] John A. Berlin, Mat Kelly, Michael L. Nelson, and Michele C. Weigle. WAIL: Collection-based personal web archiving. In *JCDL '17: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 340–341, 2017.
- [16] Justin F. Brunelle, Michele C. Weigle, and Michael L. Nelson. Archival crawlers and JavaScript: Discover more stuff but crawl more slowly. In *JCDL '17: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 1–10, 2017.
- [17] Mat Kelly, Lulwah M. Alkwai, Sawood Alam, Michael L. Nelson, Michele C. Weigle, and Herbert Van de Sompel. Impact of URI canonicalization on Memento count. In *JCDL '17: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 303–304, 2017. (Also available as arXiv:1703.03302).

- [18] Alexander C. Nwala, Michele C. Weigle, Michael L. Nelson, Adam B. Ziegler, and Anastasia Aizman. Local Memory Project: Providing tools to build collections of stories for local events from local sources. In *JCDL '17: Proceedings of the 17th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 219–228, 2017.
- [19] Mat Kelly, Sawood Alam, Michael L. Nelson, and Michele C. Weigle. Interplanetary wayback: Peer-to-peer permanence of web archives. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 411–416, 2016.
- [20] Sawood Alam, Michael L. Nelson, Herbert Van de Sompel, and David S. H. Rosenthal. Web archive profiling through fulltext search. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 121–132, 2016.
- [21] Sawood Alam, Mat Kelly, and Michael L. Nelson. InterPlanetary Wayback: The permanent web archive. In *JCDL '16: Proceedings of the 16th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 273–274, 2016.
- [22] Sawood Alam and Michael L. Nelson. MemGator a portable concurrent Memento aggregator: Cross-platform CLI and server binaries in Go. In *JCDL '16: Proceedings of the 16th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 243–244, 2016.
- [23] Alexander Nwala and Michael L. Nelson. A supervised learning algorithm for binary domain classification of web queries using SERPs. In *JCDL '16: Proceedings of the 16th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 237–238, 2016.
- [24] Justin F. Brunelle, Michele C. Weigle, and Michael L. Nelson. Archiving deferred representations using a two-tiered crawling approach. In *iPRES 2015: Proceedings of the 12th International Conference on Preservation of Digital Objects*, 2015. (Also available as arXiv:1508.02315).
- [25] Scott G. Ainsworth, Michael L. Nelson, and Herbert Van de Sompel. Only one out of five archived web pages existed as presented. In *Proceedings of ACM Hypertext*, pages 257–266, 2015.
- [26] Sawood Alam, Michael L. Nelson, Herbert Van de Sompel, Lyudmila Balakireva, Harihar Shankar, and David S. H. Rosenthal. Web archive profiling through cdx summarization. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 3–14, 2015.
- [27] Mohamed Aturban, Michael L. Nelson, and Michele C. Weigle. Quantifying orphaned annotations in Hypothes.is. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 15–27, 2015.
- [28] Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson. Detecting off-topic pages in web archives. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 225–237, 2015.
- [29] Yasmin AlNoamany, Michele C. Weigle, and Michael L. Nelson. Characteristics of social media stories. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 267–279, 2015.
- [30] Hany M. Salah Eldeen and Michael L. Nelson. Predicting temporal intention in resource sharing. In *JCDL '15: Proceedings of the 15th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 205–214, 2015.
- [31] Wesley Jordan, Mat Kelly, Justin F. Brunelle, Laura Vobrak, Michele C. Weigle, and Michael L. Nelson. Mobile mink: Merging mobile and desktop archived webs. In *JCDL '15: Proceedings of the 15th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 243–244, 2015.
- [32] Lulwah Alkwai, Michael L. Nelson, and Michele C. Weigle. How well are Arabic websites archived? In *JCDL '15: Proceedings of the 15th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 223–232, 2015.
- [33] Sawood Alam, Fateh ud din B Mehmood, and Michael L. Nelson. Improving accessibility of archived raster dictionaries of complex script languages. In JCDL '15: Proceedings of the 15th

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- [34] Mat Kelly, Michael L. Nelson, and Michele C. Weigle. The archival acid test: Evaluating archive performance on advanced HTML and JavaScript. In *JCDL '14: Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 25–28, 2014.
- [35] Mat Kelly, Michael L. Nelson, and Michael C. Weigle. Mink: Integrating the live and archived web viewing experience using web browsers and Memento. In *JCDL '14: Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 469–470, 2014.
- [36] Justin F. Brunelle, Mat Kelly, Hany Salah Eldeen Michele C. Weigle, and Michael L. Nelson. Not all mementos are created equal: Measuring the impact of missing resources. In *JCDL '14: Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries*, pages 321–330, 2014.
- [37] Charles L. Cartledge and Michael L. Nelson. When should I make preservation copies of myself? In JCDL '14: Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries, pages 1–10, 2014.
- [38] Ahmed AlSum and Michael L. Nelson. Thumbnail summarization techniques for web archives. In ECIR '14: Proceedings of the 36th European Conference in Information Retrieval, pages 299–310, 2014.
- [39] Frank McCown and Michael L. Nelson. Resources for teaching web science to computer science undergraduates. In *Proceedings of ACM SIGCSE*, 2014.
- [40] Mat Kelly, Michael L. Nelson, and Michele C. Weigle. Graph-based navigation of a box office prediction system. In *Proceedings of IEEE Visualization (VIS 2013)*, 2013.
- [41] Mat Kelly, Justin F. Brunelle, Michele C. Weigle, and Michael L. Nelson. On the change in archivability of websites over time. In *Proceedings of Theory and Practice of Digital Libraries* (TPDL), pages 35–47, 2013.
- [42] Justin F. Brunelle, Michael L. Nelson, Lyudmila Balakireva, Robert Sanderson, and Herbert Van de Sompel. Evaluating sitestory with the ApacheBench tool. In *Proceedings of Theory and Practice of Digital Libraries (TPDL)*, pages 204–215, 2013.
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- [68] Michael L. Nelson and David J. Bianco. Accessing NASA Technology With the World Wide Web. *IEEE Aerospace and Electronic Systems Magazine*, 10(5):7–13, 1995.

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- [72] Michael L. Nelson and Gretchen L. Gottlich. Electronic document distribution: Design of the anonymous FTP Langley Technical Report Server. Technical Report NASA TM-4567, NASA Langley Research Center, 1994.
- [73] Trey Arthur and Michael L. Nelson. Intel NX to PVM3.2 Message Passing Conversion Library. Technical Report NASA TM-109038, NASA Langley Research Center, 1993.
- [74] Joseph A. Kaplan and Michael L. Nelson. A comparison of queueing, cluster and distributed computing systems. Technical Report NASA TM-109025, NASA Langley Research Center, 1993.

Tutorials

- 2014-09-22 "Tools and Techniques for Revisiting Online Scholarly Content" (with Herbert Van de Sompel and Martin Klein and Richard Wincewicz), JCDL 2014 Tutorial, London UK
- 2013-09-22 "ResourceSync: The NISO/OAI Resource Synchronization Framework" (with Herbert Van de Sompel and Martin Klein and Robert Sanderson), TPDL 2013 Tutorial, Valetta Malta
- 2008-06-16 "Object Reuse and Exchange: The OAI-ORE Framework" (with Carl Lagoze, Herbert Van de Sompel and Simeon Warner), ACM/IEEE JCDL 2008 Tutorial, Pittsburgh PA
- 2006-06-(14-16) OAI-PMH Tutorial and Consultation, University of Southern California Libraries
 - 2003-05-27 "Advanced Tutorial on Open Archives Initiative" (with Herbert Van de Sompel and Simeon Warner), ACM/IEEE JCDL 2003 Tutorial. Houston TX
 - 2002-07-14 "Advanced Overview of Version 2.0 of the Open Archives Initiative Protocol for Metadata Harvesting" (with Herbert Van de Sompel and Simeon Warner), ACM/IEEE JCDL 2002 Tutorial, Portland OR

Selected Invited Presentations

- 2019-04-09 "Web Archives at the Nexus of Good Fakes and Flawed Originals", CNI Spring 2019 Keynote, St. Louis, MO
- 2018-11-05 "Verifying Archived Web Pages Blockchain Will Not Help Us", Symposium on Blockchain and Trusted Repositories, Chapel Hill, NC
- 2018-11-02 "Weaponized Web Archives: Provenance Laundering of Short Order Evidence", Va Tech CS Department Colloquium, Blacksburg, VA
- 2018-03-23 "Weaponized Web Archives: Provenance Laundering of Short Order Evidence", National Forum on Ethics and Archiving the Web, New York, NY
- 2017-02-21 "Web Archiving Activities of ODU's Web Science and Digital Library Research Group", Symposium on Web Archiving Interoperability, San Francisco, CA
- 2017-02-17 "The Memento Protocol and Research Issues With Web Archiving", ODU Chemistry Department Colloquium, Norfolk, VA
- 2017-02-21 "Web Archiving Activities of ODU's Web Science and Digital Library Research Group", Symposium on Web Archiving Interoperability, San Francisco, CA
- 2017-02-17 "The Memento Protocol and Research Issues With Web Archiving", ODU Chemistry Department Colloquium, Norfolk, VA
- $2017-02-16 \qquad \hbox{``The Memento Protocol and Research Issues With Web Archiving'', VCU CS Department Colloquium, Richmond, VA}$
- 2016-09-12 "The Memento Protocol and Research Issues With Web Archiving", UVA Library Colloquium, Charlottesville, VA
- 2016-08-22 "We Need Multiple, Independent Web Archives", Documenting the Now Advisory Board, St. Louis, MO
- 2016-04-11 "Combining Heritrix and PhantomJS for Better Crawling of Pages with Javascript", IIPC General Assembly, Reykjavik, Iceland
- 2016-04-05 "Storytelling for Summarizing Collections in Web Archives", CNI Spring 2016, San Antonio, TX

- 2016-04-03 "Why We Need Multiple Archives", Digital Preservation of Federal Information Summit CNI Spring 2016, San Antonio, TX
- 2015-11-13 "Combining Storytelling and Web Archives", ODU EE Department Colloquium, Norfolk, VA
- 2015-04-28 "Evaluating the Temporal Coherence of Archived Pages", IIPC General Assembly, Stanford, CA
- 2015-02-24 "Information Loss and Decay of the World Wide Web", The Declinism Seminars: Decay, Cambridge, MA
- 2014-07-23 "Assessing the Quality of Web Archives", Digital Preservation 2014, Washington DC
- 2013-09-06 "Who Will Archive the Archives? Thoughts About the Future of Web Archiving", Wolfram Data Summit 2013, Washington DC
- 2013-04-23 "More Archives, More Better", IIPC General Assembly 2013, Ljubljana, Slovenia
- 2013-04-22 "Old Dominion University Computer Science IIPC New Member", IIPC General Assembly 2013, Ljubljana, Slovenia
- 2012-09-10 "A Plan For Curating "Obsolete Data or Resources"", UNC/NSF Workshop "Curating for Quality: Ensuring Data Quality to Enable New Science", Arlington, VA
- 2011-10-24 "Memento: Time Travel for the Web", UNT College of Information Colloquium, Denton, TX
- 2011-10-24 "Memento: Time Travel for the Web", UNT College of Information Colloquium, Denton, TX
- 2011-05-10 "Memento: Updated technical details", 2011 IIPC General Assembly, The Hague, the Netherlands
- 2010-11-10 "Memento: Time Travel for the Web", UNC Scholarly Communications Working Group, Chapel-Hill, NC
- 2010-09-09 "My Point of View", Web Archiving Cooperative Kick-off Meeting, Menlo-Park, CA
- 2010-09-09 "Review of Web Archiving", Web Archiving Cooperative Kick-off Meeting, Menlo-Park, CA
- 2010-06-21 "Memento: Time Travel for the Web", NDIIPP Partners Meeting, Washington DC
- 2009-12-15 "Memento: Time Travel for the Web", CNI Fall 2009 Project Briefing, Washington DC
- 2009-11-16 "Memento: Time Travel for the Web", Library of Congress Brown Bag Seminar, Washington DC
- 2009-10-29 "The Open Archives Initiative Object Reuse and Exchange Project", Keynote at RIBDA 2009, Lima Peru
- 2009-10-15 "The Open Archives Initiative Object Reuse and Exchange Project", Keynote at WCI 2009, Berlin Germany
- 2009-10-02 "(Re-)Discovering Lost Web Pages", Emory University Computer Sciece Department Colloquium, Atlanta GA
- $2009-10-01 \qquad \hbox{``The Open Archives Initiative Object Reuse and Exchange Project'', Emory University Library Colloquium, Atlanta GA$
- 2009-06-25 "Synchronicity: Just-In-Time Discovery of Lost Web Pages", NDIIPP Partners Meeting, Washington DC
- 2009-03-13 "Can't Find Your 404s?", Santa Fe Complex Colloquium, Santa Fe NM
- 2009-03-12 "(Re-)Discovering Lost Web Pages", LANL Research Library Colloquium, Los Alamos NM
- 2008-09-07 "Tools for a Preservation-Ready Web", NDIIPP Partners Meeting, Ballston VA
- 2008-07-20 "Recommendations for a NASA Digital Library", NASA LaRC Technical Library Branch, Hampton VA
- 2007-05-16 "The Open Archives Initiative", Digital data preservation, sharing, and discovery: Challenges for Small Science Communities in the Digital Era, Durham NC
- 2007-01-17 "Using OAI-PMH Resource Harvesting & MPEG-21 DIDL for Digital Preservation", NDIIPP Partners Meeting, San Diego CA
- 2006-12-06 "How much preservation do I get if I do absolutely nothing? Using the Web Infrastructure for Digital Preservation", Media Producion 2006, Berlin Germany
- 2006-12-01 "Evaluating Ingest Success: Using the AIHT", DCC/LUCAS Workshop, Liverpool UK
- 2006-06-29 "Thinking Differently About Web Page Preservation", Library of Congress Seminar, Washington DC
- 2005-10-20 "What's new from the OAI", OAI-4, Geneva Switzerland
- 2005-10-20 "OAI-PMH for resource harvesting", OAI-4, Geneva Switzerland
- 2005-07-12 "ODU AIHT", NDIIPP Partners Meeting, Warrenton VA
- $2005\text{-}06\text{-}23 \qquad \text{``A New Model for Web Resource Harvesting'', NASA/Raytheon Technology Infusion Team Meeting, Hampton VA}$
- 2005-05-17 "Shared Infrastructure Preservation Models", DIGARCH PI Meeting, Atlanta GA
- 2005-05-05 "Harvesting Resources with OAI-PMH", SOLINET Annual Membership Meeting, Atlanta GA
- 2005-03-29 "A New Model for Web Resource Harvesting", University of Florida Department of Computer Science Colloquium
- 2004-05-28 "Implementation of Digital Libraries", International Congress of Health Information, Lima Peru
- 2004-05-06 "A Review of Institutional Repository Projects and Technologies", Texas A&M Department of Computer Science Colloquium
- 2003-11-03 "New Digital Library Possibilities Using the OAI-PMH", First Latin American Workshop on the Production and Diffusion of Electronic Theses, Santiago Chile
- 2003-09-16 "Self-Preserving Digital Objects", AISTI Mini Conference, Santa Fe New Mexico
- 2003-09-12 "Institutional Archives Technology Overview", FLICC Workshop: Institutional Archives and Repositories in Government, Washington DC

- 2003-06-24 "U.S. Government Use of the OAI-PMH", IndoUS Workshop on Open Digital Libraries and Interoperability, Arlington VA
- 2003-03-20 "U.S. Government Use of the OAI-PMH", ISTEC / NSF Ibero-American Digital Library Joint Project Development Symposium, Campinas, Brazil
- 2003-02-05 "Service Providers: Future Perspectives", Professional Scholarly Publishing Annual Conference, Washington DC
- 2002-10-18 "Service Providers: Future Perspectives", OAI Workshop, CERN Switzerland
- 2002-10-02 "New Digital Library Possibilities Using the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)", International Conference on Scientific Electronic Publishing in Developing Countries, Valparaiso, Chile
- 2002-05-13 "New Developments in OAI", Open Archives Forum, Pisa Italy
- 2002-04-03 "OAI: XML-Based Digital Library Interoperability", CENDI: Federal STI Managers Meeting, Beltsville MD
- 2001-08-16 "OAI: Past, Present and Future", Managing Digital Video Content Workshop, Atlanta GA
- 2001-07-11 "OAI : Past, Present and Future", Open Archives Meeting: Developing an Agenda for Institutional E-print Archives, London UK
- 2001-04-21 "Uses of OAI in NASA", NASA STI Managers Meeting, Greenbelt MD
- 2000-12-12 "The Open Archives Initiative", Exploration 2000: Workshop on Web-Based Language Documentation and Description, Philadelphia, PA
- 1999-11-09 "Smart Objects and Dumb Archives: Using Buckets in Digital Libraries", ICASE Colloquium, Hampton, VA
- 1996-10-24 "Understanding the Internet's Role in Technology Transfer and Organizational Strategy", October Meeting of the Pittsburgh Large User Group (PLUG), Pittsburgh, PA
- 1996-10-09 "Using DCE/DFS in a Production Workstation Cluster", ICASE/LaRC 2nd Industry Roundtable, Williamsburg, VA
- 1996-06-24 "WWW: An Overview of Technologies, Concepts, and Directions", Army Training Support Center, Fort Eusits, VA
- 1994-10-22 "Changing the Way We do Business Through Use of the World Wide Web and NCSA Mosaic", Virginia Society of Professional Engineers, Hampton, VA
- 1993-05-11 "PVM Use in Computational Aerosciences Projects", First PVM Users Group Meeting, Knoxville, TN

Ph.D. Students

- 2007 Frank McCown, Assistant Professor, Harding University, Dissertation Title: Lazy Preservation: Reconstructing Websites from the Web Infrastructure.
- 2008 **Joan A. Smith**, *Chief Technology Strategist, Emory University Libraries*, Dissertation Title: Integrating Preservation Functions Into the Web Server.
- 2011 Martin Klein, Post-doctoral Researcher, Los Alamos National Laboratory, Dissertation Title: Using the Web Infrastructure for Real Time Recovery of Missing Web Pages.
- 2014 Ahmed Alsum, Web Archive Engineer, Stanford University Libraries, Dissertation Title: Web Archive Services Framework For Tighter Integration Between the Past and Present Web.
- 2014 Charles L. Cartledge, System Engineer, Fulcrum LLC, Dissertation Title: Unsupervised Small-World (USW): A Framework for Web Object Self-Preservation.
- 2015 Hany Salah Eldeen, Technical Staff, Microsoft, Detecting, Modeling, and Predicting User Temporal Intention in Social Media.
- 2016 **Justin Brunelle**, Lead Researcher, MITRE, Scripts in a Frame: A Framework for Archiving Deferred Representations
- 2016 Yasmin AlNomany, Post-doctoral Researcher, UC Berkeley, Using Web Archives to Enrich the Live Web Experience Through Storytelling.
- current Scott Ainsworth, Dissertation Topic: Evaluation of Inter-Archive Access Policies.
- current Sawood Alam, Dissertation Topic: Routing of Memento Queries.
- current Hussam Hallak, Dissertation Topic: TBD.
- current Shawn Jones, Dissertation Topic: Summarizing Archive Collections with Storytelling Techniques.
- current Alexander Nwala, iDissertation Topic: Generating Archive Collections from Social Media.
- current Nauman Siddique, Dissertation Topic: TBD.
- current Kritika Garg, Dissertation Topic: TBD.

M.S. Students

Thesis Option

2005 Terry L. Harrison, Thesis Title: Opal: In Vivo Based Preservation Framework for Locating Lost Web Pages

2008 2013 2015	Rabia Haq, Thesis Title: Using Timed-Release Cryptograhy to Mitigate the Preservation Risk of Embargo Periods Sawood Alam, Thesis Title: HTTP Mailbox - Asynchronous RESTful Communication Shawn Jones, Thesis Title: Using the Memento MediaWiki Extension to Avoid Spoilers
2004 2005 2006 2007 2008 2009 2010 2011	Project Option Sheffan Chan, Thomas Lutkenhouse Aravind Elango, Giridhar Manepalli, Suchitra Manepalli, Daniel Swaney Ignacio Garcia del Campo Amine Benjelloun, Manoranjan Magudam Olena Hunsicker, Venkata Sai Krishna Kamineni, Satish Lakkoju, Krishnan Ganesh Madras Sudhir Koneru, Venkata Potta Scott Ainsworth, Matthias Prellwitz, Jeffery Shipman, Jeb Ware Carlton Northern
	Teaching
	Old Dominion University
CS 895	Web-Based Information Retrieval - S14, S13, F11
CS 895	Time on the Web - F10
CS 795/895	Web Archiving Forensics - S19
CS 795/895	Collective Intelligence - S09
CS 791/891	Web Archiving Seminar - F17
CS 791/891	Web Syndication Formats - S08
CS 791/891	Technologies of Google Seminar - S07
CS 791/891	Economics of Information Seminar - S06
CS 791/891	Digital Preservation Seminar - S05, S04
CS 751/851	Introduction to Digital Libraries - S15, S11, S10, F06
CS 734/834	Introduction to Information Retrieval - F17, F16, F15
CS 695	Introduction to Digital Libraries - F05, F04, F03, F02
CS 495/595	Introduction to Web Science - F14, F13
CS 495/595	Peer-to-Peer Information Systems - F04, F03
CS 495/595	Web Server Design - S12, S09, S07, S06
CS 432/532	Web Science - S17, S16
CS 431/531	Web Server Design - F18
CS 418/518 CS 410	Web Programming - F08, F07, F06 Computer Based Productivity I - S03
C5 +10	
	Unviersity of North Carolina
INLS 110 INLS 210	Introduction to Digital Libraries - S01 Complex Objects for Digital Libraries - S01
	Old Dominion University (While at NASA LaRC)
CS 495/595	Introduction to Digital Libraries - F99
CS 745/845	Introduction to Digital Libraries - F98
	Service
	Editorial Boards
2005	

Steering Committees

2005-present International Journal of Digital Libraries (IJDL)

ACM Journal on Education Resources in Computing (JERIC)

2005-2006

2014-2019	JCDL Steering Committee Chair
2011-2014	JCDL Steering Committee
	Organizing Committees
2013	Program Co-Chair, 10th International Conference on Preservation of Digital Objects (iPRES)
2012	Program Co-Chair, ACM/IEEE Joint Conference on Digital Libraries
2011, 2009,	Doctoral Consortium Co-Chair, ACM/IEEE Joint Conference on Digital Libraries
2008	Social Constitution of Chair, North, 1222 South Control of Control
2011, 2007	Workshop Chair, ACM/IEEE Joint Conference on Digital Libraries
2006	Program Co-Chair, ACM/IEEE Joint Conference on Digital Libraries
2005	Tutorial Co-Chair, ACM/IEEE Joint Conference on Digital Libraries
2002	Co-Chair, Workshop on Distributed Computing Architectures for Digital Libraries (joint with ICPP 2002)
2001	Sponsoring and Exhibiting Chair, ACM/IEEE Joint Conference on Digital Libraries
2001	Co-Chair, Workshop on Experimental OAI-Based Digital Library Systems (joint with ECDL 2001)
	Program Committees
2014	Digital Preservation (NDIPP/NDSA)
2014–2013,	
2010–2013,	ACM/IEEE Joint Conference on Digital Libraries (JCDL)
2005–2002	
2017–2010	ACM Special Interest Group on Information Retrieval (SIGIR)
2012	ACM International Conference on Web Search and Data Mining (WSDM)
2009, 2007,	ACM Workshop on Web Information and Data Management (WIDM)
2005	The management (TEM)
2010, 2009	European Conference on Digital Libraries (ECDL)
2005–2003	Healthcare Digital Libraries Workshop (HDL)
2016–2011,	International Conference on Asian Digital Libraries (ICADL)
2008, 2007	
2009	International Workshop on Innovation in Digital Preservation (InDP)
2010, 2009	International Web Archiving Workshop (IWAW)
2009	International World Wide Web Conference (WWW)
2016-2011	Temporal Web Analytics Workshop (TWAW)
2018-2011	Theory and Practice of Digital Libraries (TPDL)
	Reviewer
	ACM Journal on Educational Resources in Computing
	ACM Transactions on Internet Technology
	ACM Transactions on the Web Communications of the ACM
	Communications of the ACMData & Knowledge Engineering
	• IEEE Internet Computing
	 IEEE Intelligent Systems IEEE Systems, Man and Cybernetics Part A
	• IEEE Transactions on Computers
	• IEEE Transactions on Parallel and Distributed Systems
	 Information Sciences International Journal of Digital Libraries
	Health Informatics Journal
	Advisory Boards
2018-present	ODU MLIS Advisory Board
2017-present	ACM Publications Board
2013-present	Virginia Tech, Integrated Digital Event Archiving and Library (IDEAL)
2006-present	University of Arizona, Graduate Certificate in Digital Information Management
2001 precent	Open Language Archive Community (OLAC)

 $2001\text{-present} \quad \mathsf{Open} \; \mathsf{Language} \; \mathsf{Archive} \; \mathsf{Community} \; (\mathsf{OLAC})$

Professional Society Memberships

• Member, Association of Computing Machinery (ACM)