

# Shawn M. Jones

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## Summary

I am a self-motivated researcher and software engineer looking for a research position where I can advance the state of the art of computer science. My interests include web science, automatic summarization, machine learning, natural language processing, information retrieval, image analysis, computer vision, digital preservation, digital libraries, and social media.

## Education

**Ph. D.** (Computer Science)     2021, Old Dominion University, Norfolk, VA, USA

### PhD Dissertation

Jones, Shawn M. (2021b). 'Improving Collection Understanding for Web Archives with Storytelling: Shining Light Into Dark and Stormy Archives'. PhD. Norfolk, VA, United States of America: Old Dominion University.  
url: <https://doi.org/10.25777/zts6-v512>.

**M. Sc.** (Computer Science)     2015, Old Dominion University, Norfolk, VA, USA

### Masters Thesis

Jones, Shawn M. (2015). 'Avoiding Spoilers on MediaWiki Fan Sites Using Memento'. MSc. Norfolk, VA, United States of America: Old Dominion University.  
url: <https://doi.org/10.25777/d8hw-b984>.

**B. Sc.** (Computer Science)     1999, Old Dominion University, Norfolk, VA, USA

## Experience

### Staff Scientist

January 2024 – present, Information Sciences Division,  
Los Alamos National Laboratory, Los Alamos, New Mexico, USA

- explored the application of Large Language Models (LLMs) to the problems of code development and translation, specifically with FORTRAN, Python, and C++
- applied data science to the problems of document summarization and information retrieval, using Natural Language Processing for unstructured data
- prototyped exemplar mining techniques for the automatic summarization of unstructured corpora, combining techniques ranging from LLMs to traditional information retrieval
- examined the issues relevant in translating legacy applications to modern development platforms and frameworks, such as from FORTRAN to C++

## Experience (continued)

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**ISTI Postdoc Fellow**      October 2021 – 2024, Information Sciences Division,  
Los Alamos National Laboratory, Los Alamos, New Mexico, USA

- explored the intersection between web resources and computer vision
- experimented with different image information retrieval systems
- developed algorithms for intelligent sampling of files from multimedia corpora
- evaluated algorithms for sampling from corpora for automatic summarization
- experimented with machine learning models for image selection in multimedia summarization

**Graduate Research Assistant**      October 2019 – October 2021, Research Library Prototyping Team,  
Los Alamos National Laboratory, Los Alamos, New Mexico, USA

- developed automatic summarization tools for scholarly articles and web archive collections
- conducted an image analysis study that produced a solution for predicting the striking image that best summarizes a news article or scholarly publication
- continued to lead the Dark and Stormy Archives (DSA) Project that conducts research and develops tools for summarizing web archive collections and presented project at the Web Archiving and Digital Libraries workshop and Coalition for Network Information (CNI) meeting
- helped secure grant funding for the DSA Project
- developed and documented the Robust Links Project with a journal article
- implemented the Robust Links Zotero extension with JavaScript
- released the tool Hypercane, allowing researchers and archivists to intelligently sample web archive collections as part of corpus summarization
- co-mentored students on engineering and research topics
- integrated web archives and news articles to produce automated daily news summaries in the SHARI process, presented at WADL 2020

**Graduate Research Assistant**      July 2013 – October 2019, Department of Computer Science,  
Old Dominion University, Norfolk, Virginia, USA

- explored the relationships between wiki revisions and web archive document captures
- developed a MediaWiki extension in PHP for Memento
- gathered data via the REST API interfaces of various web services as part of multiple efforts
- quantified how well some US government web sites had been preserved in public web archives, helping the archiving community capture as much of the content as possible before the White House shuttered the sites
- developed Raintale and MementoEmbed for summarizing archived web pages and then applied them as a part of a crowdsourced user study to determine which summarization visualization techniques work best for understanding web archive collections
- applied topic modeling, textual similarity measures, and metrics to identify off-topic documents in web archive collections
- quantified how well Google+ was preserved so that teams could archive the rest of it before Google decommissioned it

## Experience (continued)

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### **Graduate Research Assistant**

July 2015 – May 2017, Research Library Prototyping Team,  
Los Alamos National Laboratory, Los Alamos, New Mexico, USA

- explored the intersection of scholarly communications, social networking, and web archiving
- developed the Memento client Python library for easily accessing archived web pages
- leveraged text similarity measures such as cosine similarity, Jaccard Index, Sørensen–Dice distance, Spamsum, and Simhash as part of a study quantifying the degree of reference rot in scholarly publications
- categorized publisher websites for potential linked data as part of the Signposting project
- conducted a study on the issues surrounding the application of web archives to temporally sensitive information, using television show spoilers as a case study
- analyzed the poor archivability of scholarly portals with tools such as Heritrix and Webrecorder
- categorized the different potential crawling patterns for various web portals as part of the Scholarly Orphans project
- explored the use of blockchains for timestamping archived web pages
- analyzed how to disambiguate scholars on online portals
- collaborated on a standard for accessing un-augmented (raw) archived web content

### **Computer Scientist**

May 1997 – July 2015, Space and Naval Warfare Systems Command  
(SPAWAR), Systems Center Norfolk, Norfolk, Virginia, USA

- led several software projects, working with project managers and technical leads to support Agile software engineering methods
- mentored newer employees, helping them improve career prospects
- served as the Build Manager for a 50+ developer software project, leading a team of engineers to create solutions for automated deployment and software dependency analysis
- created software release and deployment systems by integrating Python, Git, BASH, Maven, Make, Ant, and Java
- implemented automated testing strategies for integrating software components
- developed Maven plugins in Java to manage dependency information
- created installation packages for a variety of systems using tools such as RPM, PIP, and InstallShield
- architected build systems for continuous integration using SVN, Hudson/Jenkins, and Nexus for a 50+ developer project
- ported current applications to older operating systems like SCO Unixware and HP/UX
- programmed security exploits in C and C++ to help test US Navy software
- maintained snort as a Network Intrusion Detection System
- employed the eEye Retina and Tenable Nessus vulnerability scanners to report vulnerabilities in software applications
- performed forensics on user workstations to assist the Naval Criminal Investigative Services (NCIS)

## Publications, Presentations, and Other Writings

### Journal Articles

- 1 Ajayi, Kehinde, Xin Wei, Martin Gryder, Winston Shields, Jian Wu, **Shawn M. Jones**, Michal Kucer and Diane Oyen (2023). ‘DeepPatent2: A Large-Scale Benchmarking Corpus for Technical Drawing Understanding’. In: *Nature Scientific Data* 10 (772). URL: <https://doi.org/10.1038/s41597-023-02653-7>.
- 2 **Jones, Shawn M.**, Martin Klein, Michele C. Weigle and Michael L. Nelson (2023). ‘Summarizing Web Archive Corpora Via Social Media Storytelling By Automatically Selecting and Visualizing Exemplars’. In: *ACM Transactions on the Web* 18 (1). URL: <https://doi.org/10.1145/3606030>.
- 3 **Jones, Shawn M.**, Himarsha R. Jayanetti, Alex Osborne, Paul Koerbin, Martin Klein, Michele C. Weigle and Michael L. Nelson (2022). ‘The DSA Toolkit Shines Light Into Dark and Stormy Archives’. In: *Code4Lib Journal* 53.2022-05-09. URL: <https://journal.code4lib.org/articles/16441>.
- 4 **Jones, Shawn M.**, Martin Klein and Herbert Van de Sompel (2021). ‘Robustifying Links To Combat Reference Rot’. In: *Code4Lib Journal* 50.2021-02-10. URL: <https://journal.code4lib.org/articles/15509>.
- 5 **Jones, Shawn M.**, Michael L. Nelson and Herbert Van de Sompel (2018). ‘Avoiding spoilers: wiki time travel with Sheldon Cooper’. In: *International Journal on Digital Libraries* 19, pp. 77–93. URL: <http://dx.doi.org/10.1007/s00799-016-0200-8>.
- 6 **Jones, Shawn M.**, Herbert Van de Sompel, Harihar Shankar, Martin Klein, Richard Tobin and Claire Grover (2016). ‘Scholarly Context Adrift: Three out of Four URI References Lead to Changed Content’. In: *PLOS ONE* 11 (12), pp. 1–32. URL: <http://dx.doi.org/10.1371/journal.pone.0167475>.

### Book Chapters

- 1 **Jones, Shawn M.**, Martin Klein, Herbert Van de Sompel, Michael L. Nelson and Michele C. Weigle (2021). ‘Interoperability for Accessing Versions of Web Resources with the Memento Protocol’. In: *The Past Web: Exploring Web Archives*. Ed. by Gomes, Daniel and Demidova, Elena and Winters, Jane and Risse, Thomas. New York: Springer International Publishing, 101–126. ISBN: 978-3-030-63290-8. URL: [https://doi.org/10.1007/978-3-030-63291-5\\_9](https://doi.org/10.1007/978-3-030-63291-5_9).

### Conference Proceedings

- 1 Bhattarai, Manish, Javier E. Santos, **Shawn M. Jones**, Ayan Biswas, Boian Alexandrov and Daniel O’Malley (2024). ‘Enhancing Code Translation in Language Models with Few-Shot Learning via Retrieval-Augmented Generation’. In: *Proceedings of the 28th Annual IEEE High Performance Extreme Computing Conference*. [Accepted for Publication].
- 2 **Jones, Shawn M.**, Himarsha Jayanetti, Martin Klein, Michele C. Weigle and Michael L. Nelson (2023). ‘Synthesizing Web Archive Collections Into Big Data: Lessons From Mining Data From Web Archives’. In: *Proceedings of the 27th International Conference on Theory and Practice of Digital Libraries*. URL: [https://doi.org/10.1007/978-3-031-43849-3\\_19](https://doi.org/10.1007/978-3-031-43849-3_19).
- 3 **Jones, Shawn M.** and Diane Oyen (2023). ‘Discovering Image Usage Online: A Case Study With “Flatten the Curve”’. In: *Proceedings of the 2023 Joint Conference on Digital Libraries*. URL: <https://doi.org/10.1109/JCDL57899.2023.00064>.

- 4 Jayanetti, Himarsha R., **Shawn M. Jones**, Martin Klein, Alex Osbourne, Paul Koerbin, Michael L. Nelson and Michele Weigle (2022). 'Creating Structure in Web Archives With Collections: Different Concepts From Web Archivists'. In: *Proceedings of the 26th International Conference on Theory and Practice of Digital Libraries*. URL: [https://doi.org/10.1007/978-3-031-16802-4\\_45](https://doi.org/10.1007/978-3-031-16802-4_45).
- 5 **Jones, Shawn M.** and Diane Oyen (2022). 'Abstract Images Have Different Levels of Retrievability Per Reverse Image Search Engine'. In: *Proceedings of the 2022 Drawings and abstract Imagery: Representation and Analysis (DIRA) Workshop*. URL: [https://doi.org/10.1007/978-3-031-25085-9\\_12](https://doi.org/10.1007/978-3-031-25085-9_12).
- 6 Klein, Martin and **Shawn M. Jones** (2022). 'Robustifying Links With Zotero'. In: *Proceedings of the 18th International Conference on Digital Preservation*. URL: <https://www.dpconline.org/docs/miscellaneous/events/2022-events/2791-ipres-2022-proceedings/file>.
- 7 **Jones, Shawn M.**, Valentina Neblitt-Jones, Michele C. Weigle, Martin Klein and Michael L. Nelson (2021). 'It's All About The Cards: Sharing on Social Media Probably Encouraged HTML Metadata Growth'. In: *Proceedings of the 2021 ACM/IEEE Joint Conference on Digital Libraries*. URL: <https://doi.org/10.1109/JCDL52503.2021.00023>.
- 8 **Jones, Shawn M.**, Michele C. Weigle, Martin Klein and Michael L. Nelson (2021a). 'Automatically Selecting Striking Images for Social Cards'. In: *Proceedings of the 13th ACM Web Science Conference*. Southampton, England, UK. URL: <https://doi.org/10.1145/3447535.3462505>.
- 9 **Jones, Shawn M.**, Michele C. Weigle, Martin Klein and Michael L. Nelson (2021b). 'Hypercanes: Intelligent Sampling for Web Archive Collections'. In: *Proceedings of the 2021 ACM/IEEE Joint Conference on Digital Libraries*. URL: <https://doi.org/10.1109/JCDL52503.2021.00049>.
- 10 **Jones, Shawn M.**, Michele C. Weigle and Michael L. Nelson (2019). 'Social Cards Probably Provide For Better Understanding Of Web Archive Collections'. In: *Proceedings of the 28th ACM International Conference on Information and Knowledge Management*. Beijing, China, pp. 2023–2032. URL: <https://doi.org/10.1145/3357384.3358039>.
- 11 **Jones, Shawn M.**, Michael L. Nelson and Michele C. Weigle (2018). 'The Many Shapes of Archive-It'. In: *Proceedings of the 15th International Conference on Digital Preservation*. Boston, Massachusetts. URL: <http://dx.doi.org/10.17605/OSF.IO/EV42P>.
- 12 **Jones, Shawn M.**, Michael Nelson and Michele Weigle (2018). 'The Off-Topic Memento Toolkit'. In: *Proceedings of the 15th International Conference on Digital Preservation*. Boston, Massachusetts. URL: <http://dx.doi.org/10.17605/OSF.IO/UBW87>.
- 13 Van de Sompel, Herbert, Martin Klein and **Shawn M. Jones** (2016). 'Persistent URIs Must Be Used To Be Persistent'. In: *Proceedings of the 25th International Conference Companion on World Wide Web*. Montréal, Québec, Canada, pp. 119–120. URL: <http://dx.doi.org/10.1145/2872518.2889352>.

## Technical Reports and Preprints

- 1 **Jones, Shawn M.**, Martin Klein, Michele C. Weigle and Michael L. Nelson (2020). *MementoEmbed and Raintale for Web Archive Storytelling*. Tech. rep. arXiv:2008.00137. Los Alamos National Laboratory, pp. 1–54. URL: <https://arxiv.org/abs/2008.00137>.
- 2 **Jones, Shawn M.**, Alexander C. Nwala, Martin Klein, Michele C. Weigle and Michael L. Nelson (2020). *SHARI – An Integration of Tools to Visualize the Story of the Day*. Tech. rep. arXiv:2008.00139. Los Alamos National Laboratory, pp. 1–19. URL: <https://arxiv.org/abs/2008.00139>.

- 3 **Jones, Shawn M.**, Michael L. Nelson and Michele C. Weigle (2019). *Social Cards Probably Provide For Better Understanding Of Web Archive Collections*. Tech. rep. arXiv:1905.11342. [preprint]. Old Dominion University, pp. 1–58. URL: <https://arxiv.org/abs/1905.11342>.
- 4 **Jones, Shawn M.** and H. Shankar (2016). *Rules of Acquisition for Mementos and Their Content*. Tech. rep. arXiv:1602.06223. Los Alamos National Laboratory, pp. 1–16. URL: <http://arxiv.org/abs/1602.06223>.
- 5 **Jones, Shawn M.** and Michael L. Nelson (2015). *Avoiding Spoilers in Fan Wikis of Episodic Fiction*. Tech. rep. arXiv:1506.06279. [preprint]. Old Dominion University, pp. 1–18. URL: <http://arxiv.org/abs/1506.06279>.
- 6 **Jones, Shawn M.**, Michael L. Nelson, Harihar Shankar and Herbert Van de Sompel (2014). *Bringing Web Time Travel to MediaWiki: An Assessment of the Memento MediaWiki Extension*. Tech. rep. arXiv:1406.3876. Old Dominion University, pp. 1–23. URL: <http://arxiv.org/abs/1406.3876>.

### Invited talks and presentations

- 1 **Jones, Shawn M.** (2023a). ‘Discovering Coverage of Los Alamos through the News of the Past’. Computer, Computational, and Statistical Sciences Pitch Day – Los Alamos National Laboratory.
- 2 **Jones, Shawn M.** (2023b). ‘Exemplar Mining’. Richard P. Feynman Center for Innovation.
- 3 **Jones, Shawn M.** (2023c). ‘Exploring Collections By Selecting Exemplars’. Richard P. Feynman Center for Innovation.
- 4 **Jones, Shawn M.** (2023d). ‘Generating Multimedia Summaries from Collections of Digital Files’. Information Science & Technology Institute – Los Alamos National Laboratory.
- 5 **Jones, Shawn M.** (2023e). ‘Selecting Exemplars from Document Collections’. CNLS Seminar Series/ISTI Machine Learning Summer School – Los Alamos National Laboratory.
- 6 **Jones, Shawn M.**, Diane Oyen, Michal Kucer, Brendt Wohlberg, Juan Catorena and Jian Wu (2023). ‘Diagram Analysis with Visual Data Analytics Tools’. Department of Energy Lab Resource Technical Exchange.
- 7 Jayanetti, Himarsha, Brian Cain, Martin Klein and **Shawn M. Jones** (2022). ‘PDF Server: Social Card Generator’. Mini Summer Student Symposium 2022.
- 8 Jayawardana, Yasith, Brian Cain, Martin Klein and **Shawn M. Jones** (2022). ‘PDF Server: “Robustifying” URL References in PDF Documents’. Mini Summer Student Symposium 2022.
- 9 Jayawardana, Gavindya, Brian Cain, Martin Klein and **Shawn M. Jones** (2022). ‘PDF Server: Extracting Metadata from Scientific PDF Documents’. Mini Summer Student Symposium 2022.
- 10 **Jones, Shawn M.** (2022a). ‘Abstract Images Have Different Levels of Retrievability Per Reverse Image Search Engine’. CCS-3 Tech Talk Series – Los Alamos National Laboratory.
- 11 **Jones, Shawn M.** (2022c). ‘Generating Multimedia Summaries From Collections of Digital Files’. CCS-3 Tech Talk Series – Los Alamos National Laboratory.
- 12 **Jones, Shawn M.** (2022d). ‘Making the Most of Twitter as a Research Student’. Monarch International Newcomer Transition – Old Dominion University. URL: <https://docs.google.com/presentation/d/1yD4pHYaHFr-m6gQdDV4nywVmUW5Qs08NrsKZ8ZE61Io/edit?usp=sharing>.
- 13 **Jones, Shawn M.** (2022e). ‘Online Networking for Students 2022’. Monarch International Newcomer Transition – Old Dominion University. URL: [https://docs.google.com/presentation/d/1cP0\\_m0NBZO\\_UL5H4FHYPF02Y7t4avVI4FDBzebnY94Q/edit?usp=sharing](https://docs.google.com/presentation/d/1cP0_m0NBZO_UL5H4FHYPF02Y7t4avVI4FDBzebnY94Q/edit?usp=sharing).



- 14 **Jones, Shawn M.** (2021h). 'Journey to a Career in Computer Science: Online Networking'. Discover America – Old Dominion University. URL: [https://docs.google.com/presentation/d/1Puz\\_7TaJAN1aC6TpCRKyoNyUS8SIvj4gpg0sVVp20Ag/edit?usp=sharing](https://docs.google.com/presentation/d/1Puz_7TaJAN1aC6TpCRKyoNyUS8SIvj4gpg0sVVp20Ag/edit?usp=sharing).
- 15 **Jones, Shawn M.** (2017d). 'Reference Rot'. Special Libraries Association New Mexico Chapter. URL: <https://www.slideshare.net/shawnmjones/reference-rot/shawnmjones/reference-rot>.
- 16 **Jones, Shawn M.** (2017g). 'Where Can We Post Stories Summarizing Web Archive Collections'. Dodging the Memory Hole 2017. URL: <https://www.youtube.com/watch?v=25W4QvjPcDs>.

## Blog posts

- 1 **Jones, Shawn M.** (2022b). 'ECCV 2022 and DIRA 2022 Trip Report'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2022/12/2022-12-23-eccv-2022-and-dira-2022-trip.html>.
- 2 **Jones, Shawn M.** (2021b). 'Embedded Tweets From @realDonaldTrump: They Won't Break, But They Can Be Faked'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2021/01/2021-01-09-embedded-tweets-from.html>.
- 3 **Jones, Shawn M.** (2021c). 'From Researcher to ISTI Postdoctoral Fellow'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2021/12/2021-12-16-from-researcher-to-isti.html>.
- 4 **Jones, Shawn M.** (2021d). 'From Student to Researcher III'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2021/09/2021-09-01-from-student-to-researcher.html>.
- 5 **Jones, Shawn M.** (2021e). 'How the Internet Archive Helped Me Remember CIKM 2019'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2021/10/2021-10-21-how-internet-archive-helped.html>.
- 6 **Jones, Shawn M.** (2021f). 'HTML Meta Redirects Considered Harmful for Card Generation'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2021/11/2021-11-19-html-meta-redirects.html>.
- 7 **Jones, Shawn M.** (2021i). 'The Return of SHARI – Bringing News and Web Archive Storytelling Together Again'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2021/11/2021-11-19-html-meta-redirects.html>.
- 8 **Jones, Shawn M.** (2020a). 'ACM SIGIR 2020 Non-Trip Report'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2020/07/2020-07-xx-acm-sigir-2020-non-trip.html>.
- 9 **Jones, Shawn M.** (2020b). 'Hypercanes Part 1: Intelligent Sampling of Web Archive Collections'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2020/06/2020-06-03-hypercane-part-1-intelligent.html>.
- 10 **Jones, Shawn M.** (2020c). 'Hypercanes Part 2: Synthesizing Output For Other Tools'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2020/06/2020-06-10-hypercane-part-2.html>.
- 11 **Jones, Shawn M.** (2020d). 'Hypercanes Part 3: Building Your Own Algorithms'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2020/06/2020-06-17-hypercane-part-3-building.html>.
- 12 **Jones, Shawn M.** (2020g). 'SHARI: StoryGraph Hypercane ArchiveNow Raintale Integration – Combining WS-DL Tools For Current Events Storytelling'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2020/04/2020-04-01-shari-storygraph-hypercane.html>.

- 13 **Jones, Shawn M.** (2019a). 'Building the Better Crowdsourced Study - Literature on Mechanical Turk'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2019/08/2019-08-14-building-better-crowdsourced.html>.
- 14 **Jones, Shawn M.** (2019b). 'Continuing Education to Advance Web Archiving (CEDWARC)'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2019/10/2019-10-31-continuing-education-to.html>.
- 15 **Jones, Shawn M.** (2019c). 'Google+ Is Being Shuttered, Have We Preserved Enough of It?' Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2019/02/2019-02-08-google-is-being-shuttered.html>.
- 16 **Jones, Shawn M.** (2019d). 'In The Battle of the Surrogates: Social Cards Probably Win'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2019/05/2019-05-29-in-battle-of-surrogates.html>.
- 17 **Jones, Shawn M.** (2019e). 'Raintale - A Storytelling Tool For Web Archives'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2019/07/2019-07-11-raintale-storytelling-tool.html>.
- 18 **Jones, Shawn M.** (2019f). 'The 28th ACM International Conference on Information and Knowledge Management (CIKM)'. Web Science and Digital Libraries Research Group Blog. URL: <https://ws-dl.blogspot.com/2019/11/2019-11-18-28th-acm-international.html>.
- 19 **Jones, Shawn M.** (2019g). 'Wikis Are Archives: Integrating Memento and Mediawiki'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2019/06/2019-06-05-wikis-are-archives.html>.
- 20 **Jones, Shawn M.** (2018a). 'A Preview of MementoEmbed: Embeddable Surrogates for Archived Web Pages'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2018/08/2018-08-01-preview-of-mementoembed.html>.
- 21 **Jones, Shawn M.** (2018b). 'Extracting Metadata from Archive-It Collections with Archive-It Utilities'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2018/07/2018-07-03-extracting-metadata-from.html>.
- 22 **Jones, Shawn M.** (2018c). 'How well are the National Guideline Clearinghouse and the National Quality Measures Clearinghouse Archived?' Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2018/07/2018-07-15-how-well-are-national.html>.
- 23 **Jones, Shawn M.** (2018e). 'Joint Conference on Digital Libraries (JCDL) Doctoral Consortium Trip Report'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2018/06/2018-06-08-joint-conference-on-digital.html>.
- 24 **Jones, Shawn M.** (2018f). 'Let's Get Visual and Examine Web Page Surrogates'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2018/04/2018-04-24-lets-get-visual-and-examine.html>.
- 25 **Jones, Shawn M.** (2018g). 'The Off-Topic Memento Toolkit'. Web Science and Digital Libraries Research Group Blog. URL:  
<https://ws-dl.blogspot.com/2018/07/2018-07-02-off-topic-memento-toolkit.html>.
- 26 **Jones, Shawn M.** (2017a). 'Discovering Scholars Everywhere They Tread'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2017/04/2017-04-26-discovering-scholars.html>.
- 27 **Jones, Shawn M.** (2017b). 'Dodging the Memory Hole 2017 Trip Report'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2017/11/2017-11-20-dodging-memory-hole-2017.html>.



- 28 **Jones, Shawn M.** (2017c). 'Pushing Boundaries'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2017/04/2017-04-24-pushing-boundaries.html>.
- 29 **Jones, Shawn M.** (2017e). 'Trusted Timestamping of Mementos'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2017/04/2017-04-20-trusted-timestamping-of.html>.
- 30 **Jones, Shawn M.** (2017f). 'Web Science 2017 Trip Report'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2017/07/2017-07-06-web-science-2017-trip-report.html>.
- 31 **Jones, Shawn M.** (2017h). 'Where Can We Post Stories Summarizing Web Archive Collections?' Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2017/08/2017-08-11-where-can-we-post-stories.html>.
- 32 **Jones, Shawn M.** (2016a). 'Fun with Fictional Web Sites and the Internet Archive'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/10/2016-10-24-fun-with-fictional-web-sites.html>.
- 33 **Jones, Shawn M.** (2016b). 'Mementos at the W3C'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/08/2016-08-30-memento-at-w3c.html>.
- 34 **Jones, Shawn M.** (2016c). 'Symposium on Saving the Web at the Library of Congress'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/06/2016-06-27-symposium-on-saving-web-at.html>.
- 35 **Jones, Shawn M.** (2016d). 'WWW 2016 Trip Report'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/04/2016-04-24-www-2016-trip-report.html>.
- 36 **Jones, Shawn M.** and Harihar Shankar (2016). 'Acquisition of Mementos and Their Content Is More Challenging Than Expected'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/02/2016-02-24-acquisition-of-mementos-and.html>.
- 37 **Jones, Shawn M.**, Herbert Van de Sompel and Michael L. Nelson (2016). 'Mementos in the Raw'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/04/2016-04-27-mementos-in-raw.html>.
- 38 **Jones, Shawn M.**, Herbert Van de Sompel, Michael L. Nelson, Lyudmila Balakireva, Martin Klein and Harihar Shankar (2016). 'Mementos in the Raw, Take Two'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2016/08/2016-08-15-mementos-in-raw-take-two.html>.
- 39 **Jones, Shawn M.** (2015b). 'From Student to Researcher II'. Web Science and Digital Libraries Research Group Blog. URL:  
<http://ws-dl.blogspot.com/2015/09/2015-09-01-from-student-to-researcher-ii.html>.
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<http://ws-dl.blogspot.com/2015/09/2015-09-08-releasing-open-source-python.html>.

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- 45 Jones, Shawn M. (2014f). 'Yesterday's (Wiki) Page, Today's Image?' Web Science and Digital Libraries Research Group Blog. URL: <http://ws-dl.blogspot.com/2014/04/2014-04-01-yesterdays-wiki-page-todays.html>.
- 46 Jones, Shawn M. (2013b). 'Avoiding Spoilers with the Memento Mediawiki Extension'. Web Science and Digital Libraries Research Group Blog. URL: <http://ws-dl.blogspot.com/2013/12/2013-12-18-avoiding-spoilers-with.html>.

## Grant Project Participation

2024-present	ARTificial Intelligence for MISSION (ARTIMIS) <i>Los Alamos National Laboratory Director's Initiative</i>
2024-present	Artificial Intelligence/Large Language Models For Coding (AI/LLM 4 Coding) <i>Los Alamos National Laboratory Advanced Simulation and Computing Program</i>
2024-present	Serendipitous Discovery of LANL Publications Through Exemplar Mining <i>Los Alamos National Laboratory Technology Evaluation &amp; Demonstration</i>
2023-2023	Discovering Coverage of Los Alamos Through the News of the Past <i>Los Alamos National Laboratory CCS Early Career Pitch Day</i>
2023-2023	Applying Storytelling to Summarize LANL Publications For Presentation and Serendipitous Discovery <i>Los Alamos National Laboratory Technology Evaluation &amp; Demonstration</i>
2021-2022	Improving the Dark and Stormy Archives (DSA) Framework by Summarizing the Collections of the National Library of Australia <i>International Internet Preservation Consortium</i> <a href="https://netpreserve.org/projects/dark-and-stormy-archives/">https://netpreserve.org/projects/dark-and-stormy-archives/</a>
2018-2020	Continuing Education to Advance Web Archiving (CEDWARC) <i>Institute of Museum and Library Services Grant # RE-70-18-0005-18</i>
2017-2018	Combining Social Media Storytelling With Web Archives <i>Institute of Museum and Library Services Grant # LG-71-15-0077-15</i>
2016-2017	Preservation of Scholarly Record on the Web <i>Andrew W. Mellon Foundation Grant # 11600663</i>
2013-2015	Enhanced Memento Support for MediaWiki <i>Andrew W. Mellon Foundation Grant # 31300111</i>

## Research Project Participation

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2024-present	Exemplar Mining
2023-present	ARTificial Intelligence for MISSION (ARTIMIS)
2023-present	Artificial Intelligence/Large Language Models For Coding (AI/LLM 4 Coding)
2017-2024	The Dark and Stormy Archives Project ( <a href="https://oduwsdl.github.io/dsa/">https://oduwsdl.github.io/dsa/</a> )
2021-2023	GoFigure ( <a href="https://github.com/GoFigure-LANL">https://github.com/GoFigure-LANL</a> )
2021-2023	Visual Data Analytics Tools (VDAT)
2020-2023	Robust Links ( <a href="https://robustlinks.mementoweb.org">https://robustlinks.mementoweb.org</a> )
2019-2021	Scholarly Orphans ( <a href="https://myresearch.institute/about/">https://myresearch.institute/about/</a> )
2015-2016	Hiberlink ( <a href="http://hiberlink.org">http://hiberlink.org</a> )
2013-present	Memento ( <a href="https://mementoweb.org">https://mementoweb.org</a> )

## Software Project Participation

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2022-2023	VisHash ( <a href="https://github.com/GoFigure-LANL/VisHash">https://github.com/GoFigure-LANL/VisHash</a> )
2020-2023	Robust Links ( <a href="https://robustlinks.mementoweb.org/">https://robustlinks.mementoweb.org/</a> )
2019-2024	Hypercane ( <a href="https://oduwsdl.github.io/hypercane/">https://oduwsdl.github.io/hypercane/</a> )
2019-2024	Raintale ( <a href="https://oduwsdl.github.io/raintale/">https://oduwsdl.github.io/raintale/</a> )
2018-2024	MementoEmbed ( <a href="https://oduwsdl.github.io/dsa/">https://oduwsdl.github.io/dsa/</a> )
2017-2022	The Off-Topic Memento Toolkit ( <a href="https://pypi.org/project/otmt/">https://pypi.org/project/otmt/</a> )
2017-2024	Archive-It Utilities ( <a href="https://pypi.org/project/aiu/">https://pypi.org/project/aiu/</a> )
2015-2016	Python Memento Client ( <a href="https://pypi.org/project/memento_client/">https://pypi.org/project/memento_client/</a> )
2013-2016	Memento MediaWiki Extension ( <a href="https://www.mediawiki.org/wiki/Extension:Memento">https://www.mediawiki.org/wiki/Extension:Memento</a> )
2010-2013	Naval Tactical Command Support System Open Architecture (NTCSS-OA)
2009-2010	BarCode Supply (BCS)
2008-2015	Naval Aviation Logistics Command Management. Information System (NALCOMIS)
2007-2007	Expeditionary Pack Up Kit (EPUK)
1998-1999	Intranet Web Services (IWS)
1997-2015	Naval Tactical Command Support System (NTCSS)

## Service To The Profession

2024	Program Committee	ACM/IEEE Joint Conference on Digital Libraries
2024	Program Committee	ACM Conference on Information and Knowledge Management
2024	Journal Peer Reviewer	ACM Press — ACM Transactions on the Web
2024	Journal Peer Reviewer	Taylor & Francis — Archives & Records Journal
2024	Journal Peer Reviewer	PeerJ — PeerJ Computer Science
2024	Journal Peer Reviewer	Elsevier — Heliyon
2024	Journal Peer Reviewer	Royal Society of Chemistry — Digital Discovery
2024	Program Committee	ACM Web Science
	Poster Committee	
2023	Program Committee	ACM Conference on Information and Knowledge Management
2023	Program Committee	Web Archiving and Digital Libraries
2023	Program Committee	International Conference on Digital Preservation
2023	Program Committee	ACM Web Science
2023	Publicity Chair, Program Committee, Session Chair	ACM/IEEE Joint Conference on Digital Libraries
2022	Journal Peer Reviewer	Springer — International Journal on Digital Libraries
2022	Mentor (invited)	ACM/IEEE Joint Conference on Digital Libraries Doctoral Consortium
2022	Program Committee	Web Archiving and Digital Libraries
2022	Journal Peer Reviewer (recused)	Taylor & Francis — Archives and Records Journal
2022	Program Committee	ACM Web Science
2020	Journal Peer Reviewer	Springer — International Journal on Digital Libraries
2020	Peer Reviewer	The Web Conference
2020	Program Committee	Web Archiving and Digital Libraries

## Student Mentoring

2024	Ajay Sreekumar	University of Arizona
2022	Himarsha Jayanetti	Old Dominion University
2022	Gavindya Jayawardana	Old Dominion University
2022	Yasith Jayawardana	Old Dominion University

## Grants and Awarded Proposals

2024	<b>Shawn M. Jones</b> , Martin Klein. Serendipitous Discovery of LANL Publications Through Exemplar Mining <i>Los Alamos National Laboratory Technology Evaluation &amp; Demonstration (TED)</i>	\$100,000
2023	(I turned down this award in favor of other work.) <b>Shawn M. Jones</b> . UC/Los Alamos Entrepreneurial Postdoctoral Accelerator Fellowship. <i>University of California/Los Alamos National Laboratory</i>	\$100,000
2023	<b>Shawn M. Jones</b> . Discovering Coverage of Los Alamos Through the News of the Past <i>Los Alamos National Laboratory CCS Early Career Pitch Day</i> .	\$4,264
2023	Martin Klein, <b>Shawn M. Jones</b> . <i>Los Alamos National Laboratory Technology Evaluation &amp; Demonstration (TED)</i>	\$22,000
2023	<b>Shawn M. Jones</b> . ISTI Postdoctoral Fellowship. <i>Los Alamos National Laboratory</i>	\$94,000
2021	Michael L. Nelson (PI), <b>Shawn M. Jones</b> , Martin Klein, Michele Weigle, Paul Koerbin, Alex Osbourne. Improving the Dark and Stormy Archives Framework by Summarizing the Collections of the National Library of Australia. <i>International Internet Preservation Consortium</i> . <a href="https://netpreserve.org/projects/dark-and-stormy-archives/">https://netpreserve.org/projects/dark-and-stormy-archives/</a>	\$50,000.
2021	<b>Shawn M. Jones</b> . SIGIR Travel Grant. <i>ACM SIGIR</i>	\$250
2019	<b>Shawn M. Jones</b> . SIGIR Travel Grant. <i>ACM SIGIR</i> .	\$1,000
2018	<b>Shawn M. Jones</b> . SIGIR Travel Grant. <i>ACM SIGIR</i> .	\$1,000
2018	<b>Shawn M. Jones</b> . Archives Unleashed Travel Grant. <i>University of Waterloo</i> .	\$1,000
2017	<b>Shawn M. Jones</b> . Dodging the Memory Hole Travel Grant. <i>University of Missouri</i> .	\$1,000
2016	<b>Shawn M. Jones</b> . Archives Unleashed Travel Grant. <i>University of Waterloo</i> .	\$1,000
2016	<b>Shawn M. Jones</b> . Dodging the Memory Hole Travel Grant. <i>University of Missouri</i> .	\$1,000

## Awards & Fellowships

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2022 – 2024	<b>Los Alamos National Laboratory</b> <i>Information Science &amp; Technology Institute (ISTI) Postdoctoral Fellow</i>
2023	<b>Los Alamos National Laboratory</b> <i>CCS Pitch Day</i>
2023	<b>Los Alamos National Laboratory</b> <i>DisrupTECH Cohort</i>
2018	<b>Old Dominion University</b> <i>Dominion Scholar</i>
2007	<b>Naval Facilities Engineering Systems Command (NAVFAC)</b> <i>Certificate of Appreciation for Navy C&amp;A Process Training</i>
2006, 2003, 2002, 2001	<b>Space and Naval Warfare Systems Command (SPAWAR)</b> <i>Lightning Bolt Team Excellence Award</i>

## Professional Memberships

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Association for Computing Machinery (ACM) # UK81403  
Institute of Electrical and Electronics Engineers (IEEE) # 97636430