# Shawn M. Jones

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### Education

Postdoctoral	Los Alamos National Laboratory	Information Sciences	2021-
	(Los Alamos, NM)	Division	
Ph.D.	Old Dominion University	Computer Science	2015 - 2021
	(Norfolk, VA)		
M.S.	Old Dominion University	Computer Science	2010 - 2015
	(Norfolk, VA)		
B.S.	Old Dominion University	Computer Science	1994 - 1999
	(Norfolk, VA)	-	

# Experience

ISTI Postdoctoral Fellow Los Alamos National Laboratory Los Alamos, NM 2021-

- explored the intersection between web resources and computer vision
- experimented with different image information retrieval systems
- developed algorithms for sampling from corpora for automatic summarization

Graduate Research Assistant Los Alamos National Laboratory Los Alamos, NM 2019-2021

- continued to lead the Dark and Stormy Archives (DSA) Project for summarizing corpora
- $\bullet$  developed and documented the Robust Links Project with a journal article
- $\bullet$  co-mentored students on engineering and research topics

Graduate Research Assistant Old Dominion University Norfolk, VA 2013-2019

- leveraged Weka's machine learning to predict collection types with 10-fold cross-validation
- quantified how well some US government web sites had been preserved in public web archives
- drafted reports for grant agencies on project progress
- developed a MediaWiki extension in PHP that implements the Memento Protocol for wikis

Graduate Research Assistant Los Alamos National Laboratory Los Alamos, NM 2014-2017

- explored the intersection of scholarly communications, social networking, and web archiving
- categorized publisher websites for potential linked data as part of the Signposting project
- explored the use of blockchains for timestamping archived web pages

Computer Scientist	Space and Naval Warfare	Nofolk, VA	1997 - 2015	
	Systems Command (SPAWAR)			
• led several Agile software projects, coordinating with project managers				
$\bullet$ served as the Build Manager for a 50+ developer software project, leading a team of engineers				
• implemented automated testing strategies for integrating software components				
$\bullet$ created installation package	s for a variety of systems using tools s	uch as RPM, PIP, a	and InstallShield	

- wrote software applications for US Navy systems administrators
- 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
- performed forensics on user workstations to assist the Naval Criminal Investigative Services (NCIS)

# Five Example Publications from 20+ Total

- 1. 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. [awaiting publication].
- Jones, Shawn M., Michele C. Weigle, Martin Klein and Michael L. Nelson (2021). '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.
- 3. 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.
- 4. 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/10.17605/0SF.IO/EV42P.
- 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.

# **Example Projects**

GoFigure	https://github.com/GoFigure-LANL	2021-
Visual Data Analytics Tools (VDAT)		2021-
Robust Links	https://robustlinks.mementoweb.org/	2020-2021
The Dark and Stormy Archives Project	https://oduwsdl.github.io/dsa/	2017-
Hiberlink	http://hiberlink.org/	2015 - 2016
Memento	https://mementoweb.org/	2013-
Naval Tactical Command Support System		1997 - 2015
(NTCSS)		

### **Professional Memberships**

Association for Computing Machinery (ACM)	# UK81403
Institute of Electrical and Electronics Engineers (IEEE)	# 97636430
International Information System Security Certification Consortium (ISC)2	# 307483
National Postdoctoral Association	
Sigma Xi	$\# \ 20219992060$

### Awards and Fellowships

Information Science & Technology Insti-	Los Alamos National Laboratory	2022 -
tute (ISTI) Postdoctoral Fellow		
Dominion Scholar	Old Dominion University	2018
Certificate of Appreciation for Navy	Naval Facilities Engineering Systems	2007
C&A Process Training	Command (NAVFAC)	
Lightning Bold Team Excellence Award	Space and Naval Warfare Systems Com- mand (SPAWAR)	2006,2003,2002,2001