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Internet Archive
300 Funston Avenue
San Francisco, CA 94118

AFFIDAVIT OF CHRISTOPHER BUTLER

1. I am the Office Manager at the Internet Archive, located in San Francisco, California. I make this declaration of my own personal knowledge.

2. The Internet Archive is a website that provides access to a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public. The Internet Archive has partnered with and receives support from various institutions, including the Library of Congress.

3. The Internet Archive has created a service known as the Wayback Machine. The Wayback Machine makes it possible to surf more than 450 billion pages stored in the Internet Archive's web archive. Visitors to the Wayback Machine can search archives by URL (i.e., a website address). If archived records for a URL are available, the visitor will be presented with a list of available dates. The visitor may select one of those dates, and then begin surfing on an archived version of the Web. The links on the archived files, when served by the Wayback Machine, point to other archived files (whether HTML pages or images). If a visitor clicks on a link on an archived page, the Wayback Machine will serve the archived file with the closest available date to the page upon which the link appeared and was clicked.

4. The archived data made viewable and browseable by the Wayback Machine is compiled using software programs known as crawlers, which surf the Web and automatically store copies of web files, preserving these files as they exist at the point of time of capture.

5. The Internet Archive assigns a URL on its site to the archived files in the format `http://web.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL]`. Thus, the Internet Archive URL `http://web.archive.org/web/19970126045828/http://www.archive.org/` would be the URL for the record of the Internet Archive home page HTML file (`http://www.archive.org/`) archived on January 26, 1997 at 4:58 a.m. and 28 seconds (1997/01/26 at 04:58:28). A web browser may be set such that a printout from it will display the URL of a web page in the printout's footer. The date assigned by the Internet Archive applies to the HTML file but not to image files linked therein. Thus images that appear on a page may not have been archived on the same date as the HTML file. Likewise, if a website is designed with "frames," the date assigned by the Internet Archive applies to the frameset as a whole, and not the individual pages within each frame.

6. Attached hereto as Exhibit A are true and accurate copies of printouts of the Internet Archive's records of the HTML files for the URLs and the dates specified in the footer of the printout (or attached coversheet where the URL in the footer has been truncated).

7. I declare under penalty of perjury that the foregoing is true and correct.

DATE: 8/9/18



Christopher Butler

MICROSOFT CORP.
EXHIBIT 1023

CALIFORNIA JURAT

See Attached Document.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Francisco

Subscribed and sworn to (or affirmed) before me on this

9 day of August, 2018, by

Christopher Butler,

proved to me on the basis of satisfactory evidence to be the person who appeared before me.

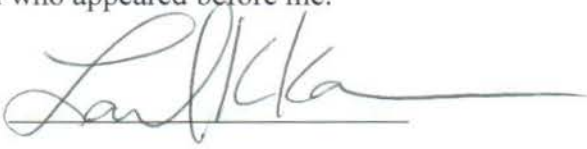
Signature: 



Exhibit A

Frank Shipman



Assistant Professor
[Center for the Study of Digital Libraries](#) &
[Hypermedia Research Laboratory](#)
[Department of Computer Science](#)
[Texas A&M; University](#)
College Station, [Texas](#) 77843-3112

Standard bio stuff:

Frank has been pursuing research in the areas of hypermedia, computer-supported cooperative work, and intelligent user interfaces since 1987. Frank's doctoral work in the [Human-Computer Communications](#) research group at the [University of Colorado](#) and subsequent work at [Xerox PARC](#) and Texas A&M; has investigated combining informal and formal representations in interfaces and methods for supporting incremental formalization. Frank has aided in the design and development of a number of collaborative hypermedia systems including the [Virtual Notebook System](#), the [Hyper-Object Substrate](#), and [VIKI](#).

[See a more complete vitae.](#)

What Frank is up to:

- teaching [CPSC 320 \(undergraduate artificial intelligence\)](#)
 - proceedings chair for [ACM Digital Libraries '98](#) and [ACM Hypertext '98](#)
 - [Spatial hypertext](#) research -- in particular, [VIKI](#)
 - [enabling guided paths over WWW information](#)
 - [supporting incremental formalization with HOS](#)
 - network information director for ACM's Special Interest Group on Hypertext ([SIGLINK](#))
-

Selected publications

F. Shipman, R. Furuta, and C. Marshall, "Generating Web-Based Presentations in Spatial Hypertext", Proceedings of the Intelligent User Interfaces Conference, Orlando, Florida, (Jan. 6-9, 1997), pp. 71-78.

F. Shipman, C. Marshall, R. Furuta, D. Brenner, H. Hsieh, and V. Kumar, "Using Networked Information to Create Educational Guided Paths", *International Journal of Educational Telecommunications (IJET)* , 3, 4 (1997), pp. 383-400.

Marshall, C.C., Shipman, F.M. "[Spatial Hypertext: Designing for Change.](#)" Communications of the ACM, 38, 8 (August, 1995), pp. 88-97.

Marshall, C.C., Shipman, F.M., and McCall, R.J. "[Making Lange-Scale Information Resources Serve Communities of Practice.](#)" Journal of Management Information Systems, 11, 4 (Spring 1995), pp. 65-86.

Shipman, F.M., Marshall, C.C., and Moran, T.P. "[Finding and Using Implicit Structure in Human-Organized Spatial Layouts of Information.](#)" Proceedings of CHI '95, Denver, Colorado (May 7-11, 1995), pp. 346-353.

Shipman, F.M., and Marshall, C.C. "[Formality Considered Harmful: Issues, Experiences, Emerging Themes, and Directions.](#)" Technical Report ISTL-CSA-94-08-02, Xerox Palo Alto Research Center, Palo Alto, CA, 1994.

Girgensohn, A., Redmiles, D., and Shipman, F.M. "Agent-Based Support for Communication between Developers and Users in Software Design", Proceedings of Conference on Knowledge-Based Software Engineering, 1994, pp. 22-29.

Marshall, C.C., Shipman, F.M., and Coombs, J.H. "[VIKI: Spatial Hypertext Supporting Emergent Structure.](#)" Proceedings fo ECHT '94, Edinburgh, Scotland, (Sept. 18-23, 1994) pp. 13-23.

Shipman, F.M., and McCall, R.J. "[Supporting Knowledge-Base Evolution with Incremental Formalization.](#)" Proceedings of CHI '94, Boston, Massachusetts, (April 24-28, 1994) pp. 285-291.

Marshall, C.C., and Shipman, F. M. III. "[Searching for the Missing Link: Discovering Implicit Structure in Spatial Hypertext.](#)" Proceedings of Hypertext '93, Seattle, Washington, (November 14-18, 1993) pp. 217-230.

Reeves, B. and Shipman, F.M. "Supporting Communication Between Designers With Artifact-Centered Evolving Information Spaces", Proceedings of the Conference on Computer Supported Cooperative Work, 1992, pp. 394-401.

McCall, R., Bennett, P., d'Oronzio, P., Ostwald, J., Shipman, F., and Wallace, N. "PHIDIAS: Integrating CAD graphics into Dynamic Hypertext", Proceedings of the European Conference on HyperText, 1990, pp. 152-165.

Shipman, F.M., Chaney, R.J., and Gorry, G.A. "Distributed Hypertext for Collaborative Research: The Virtual Notebook System", Hypertext '89 Proceedings, 1989, pp. 129-135.

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