

# JASON BENGTSON

TECHNOLOGIST  
DEVELOPER  
INFORMATIONIST  
THEORIST  
LIBRARY LEADER

## PROFILE

Name:  
Jason Bengtson

Date of birth:  
08 / 22 / 1972

## DEVELOPMENT SKILLS

HTML5	MySQL
CSS3	JSON
Javascript	XML
jQuery	AJAX
PHP	Drupal
XSLT	Libguides
Bootstrap	Semantic Web

## LEADERSHIP SKILLS

Management  
Team Building  
Project Management  
Grant Writing  
Training  
Process Improvement



## ABOUT ME

Is your organization positioned and tooled for the future? Do you have the in-house expertise to recognize and take advantage of technology opportunities? I can build you the future. I am a well-published, highly motivated information professional skilled in constructing and executing digital strategies, evaluating emerging technologies, coding, and exploiting areas of overlap between information science and computer science.



## WORK EXPERIENCE

### HEAD, LIBRARY IT SERVICES

*K-State Libraries / 2018-present*

Providing overall direction, supervision, and departmental vision for the IT unit of K-State Libraries. Building innovative applications. Directly participating in coding and development projects as needed. Providing overall management of equipment budget and resources.

### ASSISTANT DIRECTOR, LIBRARY IT SERVICES

*K-State Libraries / 2016 - 2018*

Providing overall direction, supervision, and departmental vision for the IT unit of K-State Libraries.

### INNOVATION ARCHITECT

*Texas Medical Center Library / 2015 - 2016*

Generating and championing innovative projects to promote and further the mission of the library. Working with stakeholders and collaborators to create user-centered solutions for problem areas for the library and the medical center.

### HEAD OF LIBRARY COMPUTING AND INFORMATION SYSTEMS

*University of Oklahoma, Robert M Bird Library / 2013 - 2015*

Management and oversight of the Computing Department, including the Non-Print Media subdivision, acting as primary on-site web developer and web coder. First chair and data wrangler for Alma LSP migration.

### EMERGING TECHNOLOGIES LIBRARIAN

*University of New Mexico, Health Sciences Library / 2010 - 2013*

Designed innovative web-based tools, applications, and tutorials while taking the lead on library technology-based initiatives.



## EDUCATION

### M.A. IN ENGLISH

*University of New Mexico / 2013*

### M.A. IN LIBRARY AND INFORMATION SCIENCE

*University of Iowa / 2008*

### B.A. IN ENGLISH

*University of Iowa / 2006*

## CONTACTS

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## Selected Web Apps Created

- **K-State Adwords**- While other libraries have created limited javascript additions to include 'adwords' in a search by the Primo Ex Libris discovery layer, I authored a version for K-State Libraries which takes the concept to the next level. Complete with an editor allowing user services librarians to edit the adwords data to a granular level of detail, the K-State Adwords app allows custom search results to be included in Primo returns. Incorporating the Fuse.js library to allow "fuzzy matching" of keywords, K-State adwords allows for a new level of Primo utility for local collections and concerns.
- **Stacks Guide 2.0**- Building on and reimagining the K-State Libraries original stacks guide (an image map which helped users locate things inside Hale Library) the 2.0 version is constructed on top of new technologies and possesses a vibrant look and feel. Rather than an image map, this version is built using a flexible grid which allows the map to be dynamically resized with no failure of coordinate data. An improved api for communication with the catalog, visually appealing animations, and deployment of my proprietary GRIDTRON jQuery library to provide image map style tooltip integration round out this popular new appliance.
- **Experimental Viewer**- An ongoing, experimental project to provide a modal view/interaction layer for the library's digital objects. The viewer is designed to provide not only general interaction, but crowdsourcing capabilities. Using this viewer, end users can change the look of images, annotate them, and experience the library's digital holdings in an entirely new way.
- **HAM/HCMS Power Search**- Built for the TMC Library, this search tool leverages a variety of APIs to simultaneously search three freely available information sources. Contains a link-check capability, search storage, and storage of the last ten items the user clicks through to. The tool collects API provided data from multiple formats, shapes it into a proprietary JSON format, then transmits it to the view layer for use.
- **proxyFu Announcement Tool**- A utility which automatically populates content and settings from a libguide into the library EZProxy login page as an announcement. Utilizes a PHP "screen-scraping" utility to extract the input data.
- **personalizationNinja**- An experimental javascript utility which stored machine-specific, commonly used links in localStorage to personalize the website experience for users.
- **Zombie Emergency!**- An educational game built entirely from client-side web code, Zombie Emergency! is designed to teach visitors at outreach venues better source authority judgement. A sophisticated app that offers gameplay that "is never the same twice" due to extensive pseudo-random number generation. The app features a smooth, intuitive user interface.
- **RMB Library Student Employee Who's Who?**- A database driven app which allows authorized Robert M Bird employees to add and edit student employee records in a MySQL database. The records contain photos (added via drag and drop and auto-sized within the app) which can be viewed by all employees as a cover flow gallery. Mobile friendly.
- **Alma Catalog Migration Data Wrangling Scripts**- A series of PHP script designed to run out of the shell which converted Sirsi Dynix catalog data into data that the Ex Libris Alma platform could ingest. The scripts also scrubbed many parts of the data and used comparisons of data elements between files to capture/repair pieces of data which were causing difficulties for the Alma product.
- **HSLIC Digital Scavenger Hunt**- An interactive scavenger hunt featuring short instructional movies and other animations.
- **Graphical Search Interface**- An interactive Venn diagram that acts as the front end for a database search.
- **La Puerta Search Tool**- This client-side tool functions as an easy to use, "front end" search mechanism for free databases of interest to health care practitioners. The app remembers searches and has a built in, first time, instructional function. Built as part of an initial study, this tool has been rolled out for related projects.
- **Native Health Database Upgrade**- An overhaul of the Native Health Database search code and user interface to provide complex boolean searching, improved search logic between discrete search fields, wildcard search, and fuzzy logic search enabled via the Solr search engine. User controls, page structure, and database capabilities were also upgraded, including the addition of a clipboard, and export to reference manager capabilities.

## Publications

### Books and Book Chapters

- Bengtson, Jason. "Library Web Development: Beyond Tips and Tricks." Chicago: ALA Editions, 2019 Pre-Print.
- Bengtson, Jason. "Funding a Gamification Machine." Library Technology Funding, Planning, and Development. Hershey: IGI Global, 2016 Print.
- Bengtson, Jason. "Leveraging LibGuides as an EZProxy Notifications Interface." Innovative Libguides Applications: Real World Examples. New York: Rowman & Littlefield, 2016 Print.
- Bengtson, Jason and Phetteplace, Eric. "Javascript." The Librarian's Introduction to Programming Languages. A LITA Guide. New York: Rowman & Littlefield, 2016 Print.

### Refereed Articles

- Blevins, Amy; Kiscaden, Elizabeth; and Bengtson, Jason. "Courting Apocalypse: Creating a Zombie-Themed Evidence-Based Medicine Game." *Medical Reference Services Quarterly* 36.4 (2017) : 313-322. Print.
- Bengtson, Jason. "Quantum Technology and the Medical Librarian." *Journal of Hospital Librarianship* 15.3 (2015) : 326-333. Print.
- Bengtson, Jason. "The Semantic Revolution." *Journal of Electronic Resources in Medical Libraries* 15.1 (2015) : 72-82. Print.
- Bengtson, Jason. "Seven Things Every Information Professional Needs to Know About Consumer Technologies." *Journal of Hospital Librarianship* 14.4 (2014) : 395-401. Print.
- Bengtson, Jason. "What is HTML5 and What Do You Need To Know About It?" *Journal of Hospital Librarianship* 13.4 (2013) : 392-398. Print.
- Bengtson, Jason, and Brian Bunnnett. "Across the Table: Competing Perspectives for Managing Technology in a Library Setting." *Journal of Library Administration* 52.8 (2012) : 699-715. Print.
- Bengtson, Jason. "Imagining Emergent Metadata, Realizing the Emergent Web." *Journal of Library Metadata* 12.4 (2012) : 345-361. Print.
- Bengtson, Jason. "Scaling Into the Future with Smart Links." *Journal of Hospital Librarianship* 12.4 (2012) : 378-383. Print.
- Bengtson, Jason. "The Art of Redirection: One Library's Experiences and Statistical Results from the Deployment of Mobile Redirect Script." *Journal of Hospital Librarianship* 12.3 (2012) : 191-198. Print.
- Bengtson, Jason. "Preparing for the Age of the Digital Palimpsest." *Library Hi Tech* 30.3 (2012) : 513-522. Print.
- Eldredge, Jonathan, Sarah Morley, Ingrid Hendrix, Richard Carr, and Jason Bengtson. "Library and Informatics Skills Competencies Statements from Major Health Professional Associations" *Medical Reference Services Quarterly* 31.1 (2012) : 34-44. Print.
- Bengtson, Jason. "AI in the ER: What Is Watson and What Does It Mean for Medical Librarianship?" *Journal of Hospital Librarianship* 11.3 (2011) : 289-293. Print.

Bengtson, Jason. "How Tech Projects Fail: Learning Lessons for the Future." *Journal of Hospital Librarianship* 11.2 (2011) : 188-194. Print.

Bengtson, Jason. "ScienceDirect Through SciVerse: A New Way To Approach Elsevier." *Medical Reference Services Quarterly* 30.1 (2011) : 42-49. Print.

Bengtson, Jason. "Why I Can't Love the Homemade Semantic Web." *B Sides* Jan (2010) : n. pag. Web.

### **Non-Refereed Articles**

Bengtson, Jason. "It's All About the Ecosystems (or, why Apple isn't in competition with Microsoft anymore)." *Informed Librarian Online* Oct (2014) : n. pag. Web.

### **Refereed Presentations and Conference Events**

"Ontology Based Data Architecture to Promote Data Sharing in Electrophysiology." Poster co-authored for presentation to the 2018 International Conference on Biomedical Ontology. 7-10 August 2018, CH2M HILL Alumni Conference Center Oregon State University, Corvallis, OR.

"Quantum Computing/Digital Gaslighting." Presentation to the 2018 American Library Association Conference LITA Top Tech Trends Panel. 24 June 2018, Morial Convention Center, New Orleans, LA.

"Using a Colloquium Model for Knowledge Sharing." Presentation to the 2018 American Library Association Conference New and Successful Ways to Manage Library IT Panel. 23 June 2018, Morial Convention Center, New Orleans, LA.

"These Beautiful Things: K-State Libraries Collaborates with the Marianna Kistler Beach Museum of Art to Create an Online Collection Application." Project briefing presented at the Coalition for Networked Information Membership Meeting. 11-12 December 2017, Omni Shoreham Hotel, Washington, DC.

"StacksGuide 2.0: The Dynamic Physical Finding Aid." Poster co-presented at Code4Lib 2017. 6-9 March 2017, UCLA Meyer and Renee Luskin Center, Los Angeles, CA.

"Data Management Plan to Curate Electrophysiological Data Obtained from the Mammalian Cochlea." Poster co-authored for presentation to the 40th Annual MidWinter Meeting of the Association for Research in Otolaryngology. 11-15 February 2017, Baltimore Marriott Waterfront, Baltimore, MD.

"Zombies Ate My Evidence: The EBM Diagnostic Challenge to Save the World" Paper co-authored for presentation to the South Central Chapter of the Joint Meeting of the Midwest and Mid-continental Chapters of MLA entitled "Merge & Converge". 21-24 October 2016, Des Moines, IA.

"ProxyFu: Utilizing EZProxy authentication and LibGuides as a tool for promoting library resources and services." Paper co-presented at the South Central Chapter of the Medical Library Association Conference entitled "Bridging Rivers of Change". 2-7 October 2015, Marriott Little Rock, Little Rock, AR.

"Applying the Personalized Web: Leveraging Research of Google Analytics Custom Events to Craft an Improved Web Posture." Paper presented at the South Central Chapter of the Medical Library Association Conference entitled "Bridging Rivers of Change". 2-7 October 2015, Marriott Little Rock, Little Rock, AR.

"Zombie Emergency: A Tool For Gamification and Promotion." Presentation to the 2015 Medical Library Association Conference Top Tech Trends Panel (invited expert). 19 May 2015, Austin Convention Center, Austin, TX.

"Applying Gamification to the Teaching of Source Authority Issues." Presentation to the 2015 Academic Tech Expo. 9 Jan 2015, University of Oklahoma, Oklahoma City, OK.

"Zombie Emergency!: A Tool To Increase Engagement With Health Information Sources Through Gamification." Trends in Technology Panel presented to the 2014 Medical Library Association Quint Chapter Meeting. 16 October 2014, Denver Technology Center, Denver, CO.

"Stat Talk: Information Security for Librarians." Paper co-presented to the 2014 Medical Library Association Quint Chapter Meeting. 15 October 2014, Denver Technology Center, Denver, CO.

"Technology and Personal Learning Networks." Presentation to the 2014 Biennial Meeting of the Oklahoma Alliance for Continuing Medical Education. 28 March 2014, Integris Medical Center, Oklahoma City, OK.

"Can Semantic MEDLINE Improve Upon the Homemade Semantic Web?." Paper co-presented at the South Central Chapter of the Medical Library Association Conference entitled "Cowboys, Culture, and Change". 26-30 October 2013, Fort Worth Hilton, Fort Worth, TX.

"Internet Privacy." Round Table co-moderated at the South Central Chapter of the Medical Library Association Conference entitled "Cowboys, Culture, and Change". 26-30 October 2013, Fort Worth Hilton, Fort Worth, TX.

"Building La Puerta." Tech Expo presented at the South Central Chapter of the Medical Library Association Conference entitled "Cowboys, Culture, and Change". 26-30 October 2013, Fort Worth Hilton, Fort Worth, TX.

"Better Living Through XML." Tech Expo presented at the South Central Chapter of the Medical Library Association Conference entitled "Cowboys, Culture, and Change". 26-30 October 2013, Fort Worth Hilton, Fort Worth, TX.

"Semantic Medline: A Novel Approach for Hypothesis Generation and Creativity Enhancement." Tech Expo co-presented at the South Central Chapter of the Medical Library Association Conference entitled "Cowboys, Culture, and Change". 26-30 October 2013, Fort Worth Hilton, Fort Worth, TX.

"The Zen of Information Science: Building the Future in a Health Sciences Environment." Invited webcast presented to Medical and Scientific Libraries of Long Island. 4 October 2013, Molloy College, Long Island, NY.

"Basic Elements of Responsive Web Design." Instructional session at the Library Technology Conference. 20-21 March 2013, Macalester College, St. Paul, MN.

"Exploring Digital, Asynchronous Modes of Instruction." Oral presentation at the 8th Annual Success in the Classroom Conference entitled "Sharing Practices that Work". 20 February 2013, UNM Student Union Building, Albuquerque, NM.

"Are We Poised For a Digital Biblioclasm?" Round table moderated at the South Central Chapter of the Medical Library Association Conference entitled "Rave on the Caprock". 13-17 October 2012, Overton Conference Center, Lubbock, TX.

"Smart Links." Tech Expo presented at the South Central Chapter of the Medical Library Association Conference entitled "Rave on the Caprock". 13-17 October 2012, Overton Conference Center, Lubbock, TX.

"Digital Scavenger Hunt." Tech Expo presented at the South Central Chapter of the Medical Library Association Conference entitled "Rave on the Caprock". 13-17 October 2012, Overton Conference Center, Lubbock, TX.

"The Evolution of the Web: from Static to Semantic in Three Big Steps." Webcast presented to the North Carolina Chapter of the Special Library Association. 10 July 2012.

"The Art of Redirection: Putting Mobile Devices Where You Want Them." Instructional session at the Library Technology Conference. 14-15 March 2012, Macalester College, St. Paul, MN.

"Imagining Emergent Metadata, Realizing the Emergent Web." Paper presented at the Library Technology Conference. 14-15 March 2012, Macalester College, St. Paul, MN.

"The Evolution of the Web: from Static to Semantic in Three Big Steps." Virtual Lunch presented to the Rio Grande Chapter of the Special Library Association. 22 February 2012.

"Preparing for the Age of the Digital Palimpsest." Paper presented at the South Central Chapter of the Medical Library Association Conference entitled "Info on the Geux". 14-19 October 2011, Baton Rouge Capitol Center Hotel.

## Classes

2015—Beginning Web Development: HTML, CSS, JS and the DOM; Medical Library Association 3 credit CE (taught at the South Central Chapter of the Medical Library Association Conference entitled "Bridging Rivers of Change". 2-7 October 2015, Marriott Little Rock, Little Rock, AR.)

2015—TMC Library Coding Classes; regular series taught at the Texas Medical Center Library

2014—HTML, CSS and the DOM; one month course taught online for Library Juice Academy

2013—Metadata; part of an internal instructional series on data management at UNM/HSLIC

2011-2013—Problem-Based Learning Group Tutoring, School of Medicine, UNM/HSLIC

2010-2013—Internal topics regularly presented to fellow faculty and staff, UNM/HSLIC

2010-2013—Library use/source authority classes regularly taught to health science students, UNM/HSLIC

2009-2010—Library use/source authority classes regularly taught to students of all specialties, Kaplan University/Cedar Rapids, IA

## Awards and Honors

2015—Second place, Elizabeth K. Eaton, PhD Research Award — Contributed Papers (SCC/MLA 2015 annual conference)

2011—Article "How Tech Projects Fail: Learning Lessons for the Future." selected as featured content in "The Informed Librarian Online".

2009—Elected President of the Linn County Library Consortium

## Grants and External Funding

2016—Chief architect and project manager for the joint K-State Libraries-Marianna Kistler Beach Museum application project with developer salary funded by the museum.

2015—Named Informationist, and Co-Principal Investigator for Informationist Supplement to NIH grant 3-R01-DC000354-27A1. Co-authored supplement application.

2014—Authored *Zombie Emergency!* game portion of the successful NN/LM outreach grant.

2013—Awarded SCAMeL library exchange grant along with colleagues from two other institutions.

## Service

2018—Member of the University Library Committee, Kansas State University

2018—Member of the ALA/LITA Education Committee

2017—Associate Editor of the *International Journal of Library and Information Services*.

2015—Member of the *MLA Notes* editor search committee.

2012-2013—UNM/HSLIC representative to University Libraries Data Management Committee

2012-2014— Government Relations Committee member, South Central Chapter, Medical Library Association.

2011-2014— Technology Advisory Committee member, South Central Region, National Network of Libraries of Medicine.

2011— Web Design Team member, Rio Grande Chapter, Special Library Association.

2010-2011— Program Committee member, South Central Chapter, Medical Library Association.

2010-2015—Co-Editor of the Technology column of the *Journal of Hospital Librarianship*.

2009—President of the Linn County Library Consortium

## Selected Non-Degree Educational Opportunities

2018—Big Data and Hadoop Fundamentals (Certs-School)

2018—Grow with Google Scholarship: Mobile Web (Udacity)

2015—Advanced PHP (Lynda.com)

2014—Introduction to Dynamical Systems and Chaos (Santa Fe Institute Complexity Explorer)

## Memberships

Member of the Association for Information Science and Technology.

Member of the American Library Association.

Member of the ALA Library Information Technology Association