

## **C. Sean Burns, PhD**

School of Information Science  
College of Communication and Information  
327 Little Library Building  
Lexington, KY 40506-0224  
+1 859-218-2296  
sean.burns@uky.edu

### **EDUCATION**

Ph.D., Information Science and Learning Technologies (Philosophy, cognate area), May 2013  
School of Information Science and Learning Technologies, University of Missouri  
Dissertation Title: Free or Open Access to Scholarly Documentation: Google Scholar or  
Academic Libraries  
Supported by: Eugene Garfield Doctoral Dissertation Fellowship, *Beta Phi Mu*, 2012

M.A. Information Science and Learning Technologies (Library Science emphasis), May 2009  
School of Information Science and Learning Technologies, University of Missouri

B.A., Philosophy & Religious Studies, English, May 1996  
Monmouth College

### **APPOINTMENTS**

Associate Professor, 2019—current  
School of Information Science, University of Kentucky

Assistant Professor, 2013—2019  
School of Information Science, University of Kentucky

### **PEER-REVIEWED ARTICLES**

#### **Published**

- Burns**, C.S., Nix, T., Shapiro II, R.M., Huber, J.T. (*Under review*). Methodological Issues with Search in MEDLINE: A Longitudinal Query Analysis.
- Burns**, C.S. (*In-press*). What documents cannot do; Revisiting Polanyi and the tacit knowledge dilemma. *Information & Culture*, 56(1).
- Burns**, C. S., Shapiro II, R. M., Nix, T., & Huber, J. T. (2019). Search result outliers among MEDLINE platforms. *Journal of the Medical Library Association*, 107(3).
- Burns**, C. S., & Fox, C. W. (2017). Language and socioeconomics predict geographic variation in peer review outcomes at an ecology journal. *Scientometrics*, 113(2), 1113-1127.
- Bossaller, J., Burns, C. S., & VanScoy, A. (2017). Re-conceiving time in reference and information services work: A qualitative secondary analysis. *Journal of Documentation*, 73, 2-17.
- Fox, C. W., **Burns**, C. S., Muncy, A. D., & Meyer, J. A. (2017). Author-suggested reviewers: Gender differences and influences on the peer review process at an ecology journal. *Functional Ecology*, 31, 270-280.

- Bossaller, J., **Burns**, C. S., & VanScoy, A. (2016). Advancing research for library and information science with qualitative secondary analysis. *Qualitative and Quantitative Methods in Libraries*, 5(3), 593-600.
- Kim, Y., & **Burns**, C. S. (2016). Norms of data sharing in biological sciences: The roles of metadata, data repository, and journal and funding requirements. *Journal of Information Science*, 42, 230-245.
- Fox, C. W., **Burns**, C. S., Muncy, A. D., & Meyer, J. A. (2016). Gender differences in patterns of authorship do not affect peer review outcomes at an ecology journal. *Functional Ecology*, 30, 126-139.
- Fox, C. W., **Burns**, C. S., & Meyer, J. A. (2016). Editor and reviewer gender influence the peer review process but not peer review outcomes at an ecology journal. *Functional Ecology*, 30, 140-153.
- Burns**, C. S. (2015). Characteristics of a megajournal: A bibliometric case study. *Journal of Information Science Theory and Practice*, 3(2), 16-30.
- Fox, C. W., & **Burns**, C. S. (2015). The relationship between manuscript title structure and success: Editorial decisions and citation performance for an ecological journal. *Ecology and Evolution*, 5(10), 1970-1980.
- Burns**, C. S. (2014). Academic libraries and automation. A historical reflection on Ralph Halstead Parker. *portal: Libraries and the Academy*, 14(1), 87-102.
- Adkins, D., & **Burns**, C. S. (2013). Arizona public libraries serving the Spanish-speaking: Context for changes. *Reference and User Services Quarterly*, 53(1), 60-70.
- \***Burns**, C. S. & Bossaller, J. (2012). Communication overload: A phenomenological inquiry into academic reference librarianship. *Journal of Documentation*, 68(5), 597-617.
- Burns**, C. S. (2011). Social justice and an information democracy with free and open source software. *Information, Society and Justice*, 4(2), 19-28.
- Smith, C., & **Burns**, C. S. (2011). The First International Workshop on Opportunistic Discovery of Information. *Information Research: An International Electronic Journal*, 16(3).
- Chen, H., Kochtanek, T., **Burns**, C., & Shaw, R. (2010). Analyzing users' retrieval behaviors and image queries of a photojournalism image database. *The Canadian Journal of Information and Library Science*, 34(3), 249-268.

\*Equal authorship

## Rejected

- Rejected in 2018.* Classifying reproducible search queries in MEDLINE-based databases: A case study.
- Rejected in 2017.* Challenges and discrepancies replicating search queries and results across multiple vendors: The case of MEDLINE.
- Rejected in 2017.* The challenge of replicating literature search results in today's health information environment: A comparison of six database systems.
- Rejected in 2014.* Profiling a megajournal: A bibliometric analysis of the birth of PeerJ.

## MODERATED ARTICLES

**Burns, C. S., Lana, A., & Budd, J. M.** (January/February 2013). Institutional repositories: Exploration of costs and value. *D-Lib Magazine*, 19(1/2).

## EDITED BOOK CHAPTERS

**Burns, C. S.** (2014). Academic libraries and open access strategies. In D. Williams & J. Golden (Eds.), *Advances in Library Administration and Organization* (pg. 147-211). Bingley, UK: Emerald.

## OTHER WRITINGS

**Burns, C.S.** (2014). Promoting Open Access—Within Reason. URL: <https://www.libfocus.com/2014/04/promoting-open-access-within-reason.html>

## PEER-REVIEWED CONFERENCE PAPERS AND PANELS

Shapiro II, R.M., **Burns, C.S.**, Nix, T., & Huber, J.T. (2020, June). Evaluating MEDLINE: Exploring the mechanisms responsible for variances across platforms. European Association for Health Information and Libraries (EAHIL), Lodz, Poland. Postponed due to COVID-19.

Bossaller, J., & **Burns, C.S.** (2020, May). Bibliographic subject analysis of fake news. International Conference on Qualitative and Quantitative Methods in Libraries (QQML), Barcelona, Spain. Presented virtually due to COVID-19.

**Burns, C. S., & Kaufmann, R.** (2019, September). How the presentation of metadata of a news article influences perceptions of fake news. *Proceedings of the Association for Library and Information Science Education (ALISE)*, Knoxville, Tennessee, USA.

**Burns, C. S., Nix, T., Shapiro, II, R. M., & Huber, J. T.** (2019, September). Codifying discrepancies among MEDLINE platforms to advance instruction and practice. *Proceedings of the Association for Library and Information Science Education (ALISE)*, Knoxville, Tennessee, USA.

Shapiro II, R. M., Nix, T., **Burns, C. S., & Huber, J. T.** (2019, May). Variation and outliers in search results among MEDLINE-based platforms: A longitudinal study. Paper presented at the annual meeting of the Medical Library Association (MLA), Chicago, Illinois, USA.

VanScoy, A., Bossaller, J., & **Burns, C. S.** (2017, June). Problems and promises of qualitative secondary analysis for research in information science. *Proceedings of the Annual Conference of CAIS/Actes du congrès annuel de l'ACSI, 2017, Toronto, Ontario, Canada.*

VanScoy, A., & **Burns, C. S.** (2015, June). Time in the experience of reference and information service work. *Proceedings of the Annual Conference of CAIS/Actes du congrès annuel de l'ACSI, 2015, Ottawa, Ontario, Canada.*

**Burns, C. S.** (2014, January). *The scholarly journal and disciplinary identity: An autoethnographic reading of The Library Quarterly.* Paper presented at the meeting of the Association for Library and Information Science (ALISE), Philadelphia, Pennsylvania, USA.

Budd, J. M., **Burns, C. S., & Moulaison, H. M.** (2013). High-stakes information: Deciding what constitutes quality in our products of communication. *Proceedings of the Association for Information Science & Technology*, 50(1).

Moulaison, H., & **Burns, C. S.** (2012). Organization or conversation in Twitter: A case study of

chatterboxing. *Proceedings of the American Society for Information Science & Technology*, 49(1), 1-11.

**Burns**, C. S., Lana, A., & Budd, J. M. (2012, May/June). Institutional repositories: Costs and benefits. *Proceedings of the Annual Conference of CAIS/Actes du congrès annuel de l'ACSI, 2012*, Waterloo, Ontario, Canada.

**Burns**, C. S., & Altman, M. C. (2012, January). *Who or what is constrained by the Library Bill of Rights? A theoretical analysis of intentionality and collective action for library and information science*. Paper presented at the meeting of the Association for Library and Information Science Education (ALISE), Dallas, Texas, USA.

**Burns**, C. S., & Bossaller, J. (2011, June). *Experiencing communication overload: A phenomenological study of academic reference librarians at research universities*. Paper presented at the meeting of the American Library Association (ALA), Library Research Round Table's (LRRT) Four Star Research Forum, New Orleans, Louisiana, USA.

**Burns**, C. S. (2011, June). Collecting bibliographic references: A bibliometric analysis of CiteULike's collection as grounds for in-depth interviews. *Proceedings of the Annual Conference of CAIS/Actes du congrès annuel de l'ACSI, 2011*, Fredericton, New Brunswick, Canada.

**Burns**, C. S. (2011, January). *Ralph H. Parker and the history of library automation*. Paper presented at the meeting of the Association for Library and Information Science Education (ALISE), Historical Perspectives Special Interest Group, San Diego, California, USA.

**Burns**, C. S. (2010, October). *Measuring preferences & finding best strategies: A game theoretical approach to a historical investigation of an academic library*. Paper presented at the meeting of the Library Research Seminar (LRS) V, College Park, Maryland, USA.

Sample, A., **Burns**, C. S., & Budd, J. M. (2010, October). *Exploring intentional information evaluation: Students' assessment of complex issues*. Paper presented at the meeting of the Library Research Seminar (LRS) V, College Park, Maryland, USA.

**Burns**, C. S. (2010, May). *An analysis of bibliographic references collected by a social computing group*. Paper presented at the meeting of Connections, London, Ontario, Canada.

## MODERATED CONFERENCE PAPERS AND PANELS

Richardson, B., **Burns**, C. S., Stewart, K., & Vogler, R. (2011, August). *Challenges to funding in U.S. public libraries*. Paper presented at the meeting of the Transforming Lives Conference: A UK & US Dialogue on the Value of Information and Public Libraries, Barking Learning Centre, London Borough of Barking & Dagenham, United Kingdom.

## INVITED TALKS, EXTERNAL

Assefa, D., & **Burns**, C. S. (2019, March 18). *Using machine learning in apps*. Talk given to high school students at the Kentucky Community & Technical College System.

**Burns**, C. S. (2015, October 30). *Using the R programming language for mixed-methods research*. Talk given to the University of Missouri, School of Information Science and Learning Technologies, Columbia, Missouri, USA.

**Burns**, C. S. (2015, October 27). *Open science and knowledge management*. Talk given to the University of Missouri, School of Information Science and Learning Technologies, Columbia, Missouri, USA.

## INVITED TALKS, INTERNAL

- Burns, C.S.** (2020, September 9). Functional search problems among MEDLINE databases. Talk given to the University of Kentucky, College of Communication and Information, Research Seminar Series, Lexington, Kentucky, USA.
- Burns, C.S.** (2020, July 29). Engaging students in discussion board forums and encouraging TCE participation. Talk given to the University of Kentucky, College of Communication and Information, Lexington, KY, USA.
- Burns, C. S.** (2018, June 1). *The new scholarly communications landscape: What to look for (and avoid) in book and journal publishing*. Panel discussion at the 4th Annual University of Kentucky Postdoctoral Research Symposium, Society of Postdoctoral Scholars, University of Kentucky, Lexington, KY, USA.
- Burns, C. S.** (2016, February). *RQDA and qualitative data analysis*. Talk given to the UK ALA Student Chapter, University of Kentucky, College of Communication and Information, Lexington, KY, USA.
- Burns, C. S., Shapiro, R. M., Peters, C. I.** (2015, November). *Altmetrics and communicating science*. Talk given to NIOSH and the University of Kentucky, College of Communication and Information, Lexington, KY, USA.
- Burns, C. S., & Fox, C. W.** (2015, March 25). *Patterns of bias or partiality in editorial and peer review*. Talk given to the University of Kentucky, College of Communication and Information, Research Seminar Series, Lexington, Kentucky, USA.
- Burns, C. S.** (2013, November 12). *Career talk*. Panel discussion given to the University of Kentucky, School of Library and Information Science, Lexington, Kentucky, USA.
- Burns, C. S.** (2013, October 22). *#Altmetrics: Background and overview*. Panel discussion with Derek Lane and Carl G. Mattacola given to the University of Kentucky Libraries, Open Access Week, Lexington, Kentucky, USA.

## POSTERS

- Burns, C. S., Shapiro II, R. M., Nix, T., & Huber, J. T.** (2019, April). Examining MEDLINE search query reproducibility and resulting variation in search results. Submitted for possible presentation at the iConference, Washington, DC, March 31—April 3, 2019.
- Burns, C. S.** (2013, January). *Google Scholar and free or open access scholarly content: Impact on academic libraries*. Poster session presented at the Association for Library and Information Science Education (ALISE), Seattle, Washington, USA.
- Burns, C. S.** (2010, January). *Social computing and citation analysis: Identifying future scholarly impact*. Poster session presented at the Association for Library and Information Science Education (ALISE), Boston, Massachusetts, USA.
- Chen, H., Kochtanek, T., & **Burns, C.** (2009). An analysis of users' image queries of a photojournalism image database: A Web analytics approach. *Proceedings of the American Society for Information Science and Technology*, 46(1), 1-5.

## WORKSHOPS

- Burns, C.S.** (2020). Introduction to plotting in R. Workshop for faculty and graduate students in Instructional Communication Research at the University of Kentucky. Lexington, Kentucky,

USA, March 4, 2020.

**Burns, C. S.** (2019). Introduction to R programming. Workshop for faculty and graduate students in Instructional Communication Research at the University of Kentucky. Lexington, Kentucky, USA, November 8, 2019.

Radford, M. L., Kitzie, V., Floegel, D., Connaway, L. S., Bossaller, J., & **Burns, C. S.** (2019). InVivo inspiration: Investigating computer assisted qualitative data analysis software (CAQDAS). iConference, Washington, DC, March 31—April 3, 2019.

## PROFESSIONAL PUBLICATIONS

Adkins, D., & **Burns, C. S.** (2011, December 15). How do Arizona's public libraries serve the Spanish-speaking? *REFORMA Newsletter*.

## TECHNICAL PAPERS

Kochtanek, T. R., **Burns, S.**, Erdelez, S., & Borwick, J. (2008, February 29). A qualitative assessment of the MoDOT Web site: Final report. Missouri Department of Transportation, Project #RI07-040

## FUNDING

### Funded

Research and Creative Activities Program (RCAP), University of Kentucky, College of Communication and Information. *How News Articles as Documents Influence Perceptions of Fake News*. \$2,336. Dates: May 2020 - May 2021. Status: Awarded

Summer Faculty Research Fellowship, College of Communication and Information. *Examining Variances and Deviances in Health and Medical Databases to Support Systematic Review Research*. \$5,000. Principal Investigator: C. Sean Burns. Dates: Summer 2018. Status: Awarded.

IMLS. Consultant on *Planning Research Data Services in Academic Libraries: Designing a Conceptual Services Model based on Patron Needs Assessment*. No. RE-32-16-0140-16, \$49,844.00, Principal Investigator: Soohyung Joo. Dates: 2016-2017. Status: Awarded.

### Not Funded

RCN: *Episodic Risk Communication Network*. Division of Civil, Mechanical and Manufacturing Innovation, National Science Foundation (NSF), No. 1632916, \$497,811.00. Principal Investigator: Jeannette N. Sutton. Dates: 2016-2010. *Submitted 2/15/2016*. Status: Declined.

Standard Grant: *Benefit Cost Analysis of U.S. Dual Use Research of Concern Policies*. Division of Social and Economic Sciences, National Science Foundation (NSF), No. 1556619. \$462,888.00, Principle Investigator: Carole R. Baskin. With Co-Pis: Kavita M Berger, Scott Farrow, and Terri Rebmann. Dates: 2016-2018. *Submitted 8/1/2015*. Status: Declined.

Digital Media + Learning Competition 5. The John D. and Catherine T. MacArthur Foundation. "Information Ethics Collective." Collaborating Research with with Jasmine McNealy (PI), Sean Burns, Seungahn Nah, and Jayson Richardson. Requested amount \$130,251. *Submitted 2/15/2015*. Status: Declined.

Knight Foundation. "Building Digital Literacy: Libraries in Action (LIA)." Collaborating Research

with Deloris Foxworth, Brandi Frisby, Jeffrey Huber, Jasmine McNealy, Seungahn Nah, Shannon Oltmann, Michael Tsikerdekis, and Sherali Zeadally. Requested amount varies between \$1,000 and \$1,000,000. *Submitted 9/30/2014.* Status: Declined.

## **GRADUATE & PROFESSIONAL EXPERIENCE**

Instructor, 2011–2013

School of Information Science and Learning Technologies, University of Missouri

Graduate Teaching Assistant, 2009–2013

School of Information Science and Learning Technologies, University of Missouri

Technical Services and Cataloging Assistant Librarian, 2011–2012

Hugh Stephens Library, Stephens College

Graduate Research Assistant, 2008–2009

Pictures of the Year International, University of Missouri

Evening and Weekend Reference Library, 2007–2009

Hugh Stephens Library, Stephens College

Graduate Research Assistant, 2007–2008

School of Information Science and Learning Technologies, University of Missouri

## **TEACHING**

### **University of Kentucky, as Assistant/Associate Professor**

#### *Undergraduate Courses*

- Personal Knowledge Management, IS/ICT 201
  - General Information Sources, IS/ICT 201
- Systems Administration with Linux, ICT 418
- Semantic Web Development, ICT 420

#### *Graduate Courses*

- Information Seeking, LIS 601
- Information Resources and Services, LIS 621
- Knowledge Management, LIS/ICT 658
- Electronic Resource Management, LIS 690

### **University of Missouri, as Course Instructor**

#### *Graduate Courses*

- Reference Sources and Services, ISLT 7314
- Information in the Disciplines, ISLT 9420
- Academic Libraries, ISLT 9443

## University of Missouri, as Graduate Teaching Assistant

### Graduate Courses

- Managing Collections and Access, ISLT 7313, with Dr. John M. Budd
- Foundations of Library and Information Science, ISLT 7350, with Dr. Linda Esser
- Seminar: Metadata, ISLT 9410, with Dr. Heather Moulaison
- Seminar Social Constructs of Information, ISLT 9410, with Dr. Melanie Brooks
- Information Storage and Retrieval, ISLT 9412, with Dr. Thomas Kochtanek
- Ethics and Information, ISLT 9423, with Dr. John M. Budd

### Guest Lectures

- "Geo-Spatial Mapping" in *Exploring and Analyzing ICTs: Methodological Approaches*, Dr. Jessalyn Vallade, Fall 2018.
- "Scholarly Communication" in *Proseminar in Communication*, Dr. Kelly McAninch, University of Kentucky, Fall 2017.
- "Peer Review" in *Proseminar in Communication*, Dr. Douglas Boyd, University of Kentucky, Fall 2017
- "Geo-Spatial Mapping" in *Exploring and Analyzing ICTs: Methodological Approaches*, Dr. Brandi N. Frisby, Fall 2016.
- "Secondary Qualitative Analysis" in *Proseminar in Communication*, Dr. Douglas Boyd, University of Kentucky, Fall 2016
- "Bibliometrics and Altmetrics" in *Publication Process and Ethics*, Dr. Charles W. Fox, University of Kentucky, Spring 2016
- "Megajournals and the State of Scholarly Publishing" in *Proseminar in Communication*, Dean Dan O'Hair and Dr. Douglas Boyd, University of Kentucky, Fall 2015
- "Social Media and Altmetrics" in *Publication Process and Ethics*, Dr. Charles W. Fox, University of Kentucky, Fall 2013
- "Emerging Technologies in Scholarly Communication" in *Emerging Technologies*, Dr. Heather Moulaison, University of Missouri, Fall 2011

## SERVICE

### Professional Associations

#### ALISE: Association for Library and Information Science Education

- Chair, Service to ALISE Award, 2020–2021
- Member, Service to ALISE Award, 2019–2020
- Member, Program Committee, 2019
- Member, ALISE / Norman Horrocks Leadership Award committee, 2017–2019
- Co-Chair, Juried Papers, 2016–2017
- Member, Program Committee (reviewer), 2016–2017
- Member, Nominating Committee, ALISE, 2015–2016
- Convener, Historical Perspectives SIG, ALISE, with Susan Rathbun-Grubb, 2015–2016
- Member, Nominating Committee, ALISE, 2014–2015
- Convener, Historical Perspectives SIG, ALISE, with Susan Rathbun-Grubb, 2014–2015



- Member, Centennial Celebration Committee, ALISE, 2013–2014
- Chair, Award for Professional Contribution to Library and Information Science, ALISE, 2013–2014
- Convener, Historical Perspectives SIG, ALISE, with Ellen M. Pozzi, 2013–2014
- Member, Award for Professional Contribution to Library and Information Science, ALISE, 2012–2013
- Convener, Historical Perspectives SIG, ALISE, with Ellen M. Pozzi, 2012–2013

#### **ASIS&T: Association for Information Science & Technology**

- Member, Program Committee, 2020
- Member, Program Committee, 2019
- Member, Program Committee, 2018
- Member, Program Committee, 2017
- Member, Thompson Reuters Doctoral Dissertation Proposal Scholarship, ASIS&T, 2015
- Membership Officer, SIG-MET, ASIS&T, 2013–2014
- Membership Officer, SIG-MET, ASIS&T, 2012–2013

#### **CAIS: Canadian Association for Information Science**

- Member, Program Committee, 2017

#### **SoLAR: Society for Learning Analytics Research**

- Member, LAK'19 Program Committee, 2018

#### **Journals**

##### **Editorial Board**

- *Publications*
- *Frontiers in Research Metrics and Analytics (Guest Associate Editor; Review Editor)*

##### **Reviewer (ad hoc), Journals and Funding Agencies**

- *Ecology and Evolution*
- *IMLS*
- *Information & Culture*
- *Journal of Documentation*
- *Journal of Education for Library and Information Science*
- *Journal of Gender Studies*
- *Journal of Information Science Theory and Practice*
- *Journal of the Medical Library Association*
- *PLOS ONE*
- *Proceedings of the Royal Society A*
- *Publications*
- *Scientometrics*
- *Systematic Reviews*

#### **University**

##### *University of Kentucky*

- Member, IT Advisor Council, 2020-2021
- Member, Research Enablement and Outreach Task Force, 2017

## **College**

### *University of Kentucky*

- Member, Faculty Council, 2015–2016
- Member, Work-life Task Force, 2015
- Member, Faculty Council, 2014–2015
- Member, Graduate Program Web Site *ad hoc* Committee, 2014–2015

## **School**

### *University of Kentucky*

- Member, SIS, Promotion and Tenure Committee, 2020-2021
- Convener, ICT, Curriculum, 2020–2021
- Member, ICT, Exam Committee, Fall 2020
- Convener, ICT Planning Committee, 2017--2019
- Member, ICT Search Committee, 2016–2017
- Member, ICT Search Committee, 2015–2016
- Member, ICT Search Committee, 2014–2015
- Convener, LIS Planning Committee, 2016–2017
- Member, LIS Exam Committee, Summer 2016
- Convener, LIS Planning Committee, 2015–2016
- Member, LIS Exam Committee, Summer 2015
- Member, LIS Exam Committee, Summer 2014
- Convener, LIS Data Science Program *ad hoc* Committee, 2014
- Member, LIS Planning Committee, 2013–2014
- Member, LIS, Search Committee, 2013

### *University of Missouri*

- Secretary and Web master, LISGSA, 2008–2009

## **AWARDS & HONORS**

### **Honor Societies**

Beta Phi Mu, 2014

### **Fellowships**

Eugene Garfield Doctoral Dissertation Fellowship, 2012

### **Awards**

#### *National/International*

RUSA Reference Service Press Award, 2016

ALISE/Norman Horrocks Leadership Award, 2016

#### *University of Kentucky*

Teacher Who Made a Difference, College of Education, 2020

Teacher Who Made a Difference, College of Education, 2019  
Teacher Who Made a Difference, College of Education, 2015

*University of Missouri*

TA Choice Award, Missouri Students Association, 2013