

MEGAN SAPP NELSON

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EDUCATION

University of Illinois, Urbana-Champaign

Masters of Library Science 2003

University of Illinois, Urbana-Champaign

Bachelors of Liberal Arts 2001

Areas of Concentration: English Literature

AWARDS AND RECOGNITION

Library Instruction Roundtable, ALA “Top Twenty” Library Instruction Article 2013

*For Van Epps, Amy, & **Megan Sapp Nelson**. (2013). One-shot or embedded? Assessing different delivery timing for information resources relevant to assignments. Evidence Based Library and Information Practice, 8(1), 4–18.*

ASEE, Engineering Libraries Division, Best Publication Award 2012

*For Carlson, Jacob, Michael Fosmire, C.C. Miller, and **Megan Sapp Nelson**. “Determining Data Information Literacy Needs: A Study of Students and Research Faculty.” *portal: Libraries & the Academy* 11.2 (2011): 629-657.*

Purdue University Libraries, Dean’s Award for Team Achievement 2012

Data Management Plan Implementation Team

Library Instruction Roundtable, ALA “Top Twenty” Library Instruction Article 2011

*For Carlson, Jacob, Michael Fosmire, C.C. Miller, and **Megan Sapp Nelson**. “Determining Data Information Literacy Needs: A Study of Students and Research Faculty.” *portal: Libraries & the Academy* 11.2 (2011): 629-657.*

ASEE, Engineering Libraries Division, Best Publication Award 2008

*For **Sapp Nelson, Megan**. 2008. Initiating engineering outreach reference services: Background and practice. *Reference Services Review* 35(2): 265-284.*

Moriarty Award for Excellence in Library Service, Purdue University Libraries 2008

PROFESSIONAL EXPERIENCE

Purdue University, West Lafayette

Associate Professor of Library Sciences, Engineering Librarian**2010-present**

- Serve as liaison to eight departments in the Colleges of Engineering, Technology, and Science.
- Develop Information Literacy and Data Information Literacy curricula, both stand alone and in consultation with instructors of existing courses.
- Provide embedded instruction in project-based learning and/or informed learning curricula, including acting as instructor of record for a three credit course.
- Provide one-shot instruction and orientation in a variety of disciplines.
- Develop collections for eight departments.
- Oversee collection in Earth, Atmospheric, and Planetary Sciences Library (EAPS), including the map room.
- Provide data management consultations to researchers and students.
- Provide reference consultations for users.
- Participate in grant funded research projects.
- Provide input for accreditation processes.
- Educate faculty and students on issues of scholarly communication.

Assistant Professor of Library Sciences, Engineering Librarian**2004-2010**

- Serve as reference services coordinator in Siegesmund Engineering Library.
- Supervise 5-7 reference staff members.
- Develop and present professional development opportunities to staff and faculty.
- Perform digital reference and reference consultations.
- Develop instructional tools to further instruction in Colleges of Engineering and Technology, including the development of a grant funded expert system to support in-course instruction.
- Manage collections for reference and eight departments in Colleges of Engineering and Technology.
- Develop curricula for and embed in project-based learning and/or informed learning courses.
- Coordinate a successful outreach program into Computer Science and Electrical Engineering departments.

Indiana University-Purdue University, Fort Wayne

Assistant Professor of Library Sciences, Business and Engineering Librarian 2003-2004

- Served as liaison to Doermer School of Business and College of Engineering, Technology and Computer Science.
- Selected collections, advocated for purchase or licensing of electronic resources.
- Performed reference consultations.
- Helped redesign library web presence.

University of Illinois, Urbana-Champaign

Graduate Assistant, Grainger Engineering Library 2001-2003

- Mastered engineering and science scholarly, technical and grey literature in the disciplines of computer science and engineering.
- Provided reference assistance for 10 hours per week to users.
- Cataloged the William W. Hay Railroad Engineering Collection.

SELECTED INSTRUCTION

Purdue University, West Lafayette

SCI 360, Natural Hazards in Science and Society

Curriculum Developer and co-Instructor of Record 2011 – present

Undergraduate science communications course. Course objectives are focused around effective scientific communication with the public and data re-use, analysis, and management. Course materials available at: <http://1drv.ms/1I0xBxV>

EPICS 102-502, Engineering Projects in Community Service

Team Advisor [Section Instructor] and Consultant 2005 – present

Undergraduate service learning engineering design course. Course objectives are focused around project-based learning of the design lifecycle. Developed instruction in conducting interviews for information gathering and team role, Project Archivist that serves as data and documentation manager. Course materials available at: <http://1drv.ms/1EdD8TZ>

MET 102, Product Design and Specification

Curriculum Consultation and Instructional Tool Design 2005 – Present

Freshman level Mechanical Engineering Technology course. Course objectives are to learn to read and design project specifications, use standards, and identify product components as well as to use ironCAD and other design software. Received grant funding to design expert system to support Treasure Hunt assignment.

Redesigned standards instruction through active learning activities in consultation with new instructor. Course materials available:

<http://bit.ly/1CxVcoD>

ECE 694, ECE Graduate Seminar

Guest Lecturer

2011 – present

Graduate seminar course developing professional skills for electrical and computer engineering graduate students. Course objectives include interview skills, developing resumes and identifying course trajectory. Designed and present “Introduction to Scholarly Communication” for graduate students. Cover name authority, ORCHID ID, peer review, the scholarly communication cycle, open access, and data management at an introductory level. Course materials available: <http://guides.lib.purdue.edu/scholcom>

Selected RESEARCH

Data Information Literacy Case Studies Repository

Co-Editor

2015 – present

Developing online case study repository on bepress. Hosted by Purdue University Libraries E-Pubs. Online host for educational materials developed in the process of creating Data Information Literacy instruction. Co-editor with Jacob Carson, University of Michigan Libraries.

Resilient Communities: Strengthening Post-Disaster Recovery by Understanding Interdependent Social and Physical Networks.

Co-Investigator

2014 – 2015

Global Policy Research Institute (Purdue) funded grant investigating the use of social networks to overcome damage to physical networks in the aftermath of disaster. \$68,735. Percent credit: 11%

I am collecting interview data from disaster response specialists and performing qualitative analysis using Nvivo. Supervise ¼ time graduate research assistant.

Creating a Data Information Literacy Curriculum: Educating the New Generation of E-Researchers.

Co-Investigator

2011-2014

Institute of Museum and Library Services funded grant investigating the education competencies needed in order to effectively manage STEM data. \$249,391. Percent credit: 15%

An Expert System Multimedia Tutorial for Locating Technical Information.

Co-Principle Investigator

2006

Purdue University TLT Digital Content Grant to develop an expert system to support the course objectives of MET 102. \$14,520

SELECTED PUBLICATIONS

Refereed Articles

Zilinski, Lisa, **Megan Sapp Nelson** and Amy Van Epps. 2014. Developing professional skills in STEM students: Data Information Literacy. *Issues in Science and Technology Librarianship*. 77. DOI: 10.5062/F42V2D2Z

Van Epps, Amy, and **Megan Sapp Nelson**. 2013. One shot or embedded? Assessing different delivery timing for information resources relevant to assignments. *Evidence Based Library and Information Practice*. 8(1): 4-18. Named one of LIRT's Top Twenty Library Instruction Articles of 2013.

Carlson, Jacob, Michael Fosmire, CC Miller, and **Megan Sapp Nelson**. 2011. Determining data information literacy needs: A study of students and research faculty. *Portal: Libraries and the Academy* 11(2): 629-657.
Named ASEE Best Paper; LIRT Top Twenty Library Instruction Article of 2011.

Pre-tenure:

Sapp Nelson, Megan. 2009. Teaching interview skills to undergraduate engineers: An emerging area of library instruction. *Issues in Science and Technology Librarianship*. 58. DOI:10.5062/F4ZK5DMK

Sapp Nelson, Megan. 2009. Once upon a time in Zimbabwe. *New Library World* 109(9/10): 419-430.

Nelson, Megan. 2008. Initiating engineering outreach reference services: Background and practice. *Reference Services Review* 35(2): 265-284. **Named ASEE ELD Best Paper.**

Sapp, Megan, and Amy Van Epps. 2006. Equal Access: What does the digital revolution mean for library websites? *Science and Technology Libraries* 26(3/4): 157-173.

Submitted:

Sapp Nelson, Megan. Data management outreach to junior faculty members: A case study. Submitted to *Journal of Library Innovation* August 2014.

Pouchard, Line, **Megan Sapp Nelson** and Yung-Hsaing Lu. 2015. Comparing policies for open data from publicly accessible international sources. Accepted for publication in *LASSIST Quarterly*.

Refereed Conferences

Wertz, Ruth, Michael Fosmire, Senay Purzer, Austin Saragih, Amy Van Epps, **Megan Sapp Nelson**, and Brian Dillman. 2013. Work in Progress: Critical Thinking and Information Literacy: Assessing Student Performance. ASEE Annual Conference Proceedings. Atlanta, GA. Paper 6925.

Van Epps, Amy and **Megan Sapp Nelson**. 2012. Instruction: One Shot or Embedded? ASEE Annual Conference Proceedings. San Antonio, TX. Paper AC 2012-3077.

Sapp Nelson, Megan. 2011. Connecting with Data: First steps towards an emerging area of library science. ASEE Annual Conference Proceedings. Vancouver, BC Paper AC 2011-326.

Sapp Nelson, Megan, and Michael Fosmire. 2010. Engineering librarian participation in technology curricular redesign: lifelong learning, information literacy, and ABET criterion 3. ASEE Annual Conference Proceedings. Louisville, KY. Paper AC 2010-875.

Book Chapters

Carlson, Jake, Michael Fosmire, C.C. Miller, and **Megan Sapp Nelson**. 2015. "Determining Data Information Literacy Needs: A study of students and research faculty." In *Data Information Literacy: Librarians, Data, and the Education of a New Generation of Researchers*. West Lafayette, IN: Purdue University Press.

Carlson, Jake and **Megan Sapp Nelson**. 2015. "An Embedded Librarian Approach to Addressing Software Code as Data." In *Data Information Literacy: Librarians, Data, and the Education of a New Generation of Researchers*. West Lafayette, IN: Purdue University Press.

Sapp Nelson, Megan. 2015. "Where Do We Go From Here? Future developments for the Data Information Literacy Competencies." In *Data Information Literacy: Librarians, Data, and the Education of a New Generation of Researchers*. West Lafayette, IN: Purdue University Press.

Sapp Nelson, Megan. 2013. "Find the Real Need: Understanding the Task." In *Integrating Information into the Engineering Design Process*. West Lafayette, IN: Purdue University Press.

Sapp Nelson, Megan, Donna Ferullo, and Bonnie Osif. 2013. "Ethical Information Use and Engineering." In *Integrating Information into the Engineering Design Process*. West Lafayette, IN: Purdue University Press.

Invited Presentations

Sapp Nelson, Megan. 2013. Seeking Our Niche: Understanding the needs of research personnel to develop e-science services. NISO Webinar: Research Data Curation Part 1: E-Science Librarianship. Slides and Q& A available at <http://www.niso.org/news/events/2013/webinars/escience/>.

Sapp Nelson, Megan. Panel member. 2013. Libraries' Roles in Open Data. ASEE Annual Conference.

Sapp Nelson, Megan, Amy Van Epps, and Michael Fosmire. 2007. Next Generation of Tutorials: Finding Technical Information at Purdue. ASEE Global Colloquium. Istanbul, Turkey. *Invited to present annual conference paper as a poster at Global Colloquium.*

Presentations and Posters

Carlson, Jacob, Lisa Johnston, **Megan Sapp Nelson**, and Amy Koshoffer. 2015. Developing data literacy programs: Working with faculty, graduate students and undergraduates. Research Data Access and Preservation Summit, April 22-23, 2015. Minneapolis, MN.

Zilinski, Lisa and **Megan Sapp Nelson**. 2014. Thinking critically about data consumption: Creating the Data Credibility Checklist. 77th ASIS&T Annual Meeting, October 31-November 5th 2014. Seattle, Washington.

Carlson, Jacob, Camile Andrews, Michael Fosmire, Jon Jeffryes, Lisa Johnston, **Megan Sapp Nelson**, Marianne Stowell Bracke, and Sarah Wright. 2013. Data Information Literacy Symposium. A two-day symposium presented as a product of the IMLS National Leadership Grant.

Carlson, Jacob, **Megan Sapp Nelson**, Marianne Stowell Bracke, Brian Westra, and Sarah Wright. 2013. Creating the new normal: Fostering a culture of data sharing with researchers. Digital Libraries Federation Forum. Austin, TX.

Sapp Nelson, Megan. 2013. [*Data information literacy: Multiple paths to a single goal*](#). Lightning talk presented at IMLS WebWise. Baltimore, MD.

Fosmire, Michael, Jacob Carlson, C.C. Miller, and **Megan Sapp Nelson**. 2011. E-Science Information Literacy: What it is and how we can teach it. ACRL National Conference, Philadelphia, PA.

ENGAGEMENT

American Society for Engineering Education, Engineering Libraries Division

Treasurer/Program Chair/Chair/Past Chair 2012 – 2016

Scholarly Communication Committee. Chair 2009-2011

Liaison to ACRL STS Information Literacy Standards Revision Committee. 2010-2011.

Member

Association of College and Research Libraries

ASSIST

Geological Society of America. Geoinformation Science Society.

Atmospheric Sciences Librarians International

SELECTED UNIVERSITY/LIBRARY SERVICE

Research Council 2012-2014

Curriculum Committee 2011-2013

Data Education Working Group. Chair 2011-2012. 2011-2014

PROFESSIONAL DEVELOPMENT

Information Literacy and Curriculum Mapping 2014

Write Winning Grant Proposals	2014
Juggling All the Pieces: Project Management	2013
ACRL Immersion Teaching Track	2012

SELECTED EDUCATIONAL TOOLS DEVELOPED

Supporting Information for Data Services	2011
MET 102 Expert System	2006