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Modernized Collaborations: Technologies Affecting Librarian Research Connections

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A light blue background with a network diagram consisting of black dots connected by thin black lines, forming a complex web of connections.

Modernized Collaborations: Technologies Affecting Librarian Research Connections

Ngoc-Yen Tran & Emily K. Chan
San José State University

January 26, 2018
Symposium on the Future of Libraries
ALA Midwinter

Who are we?



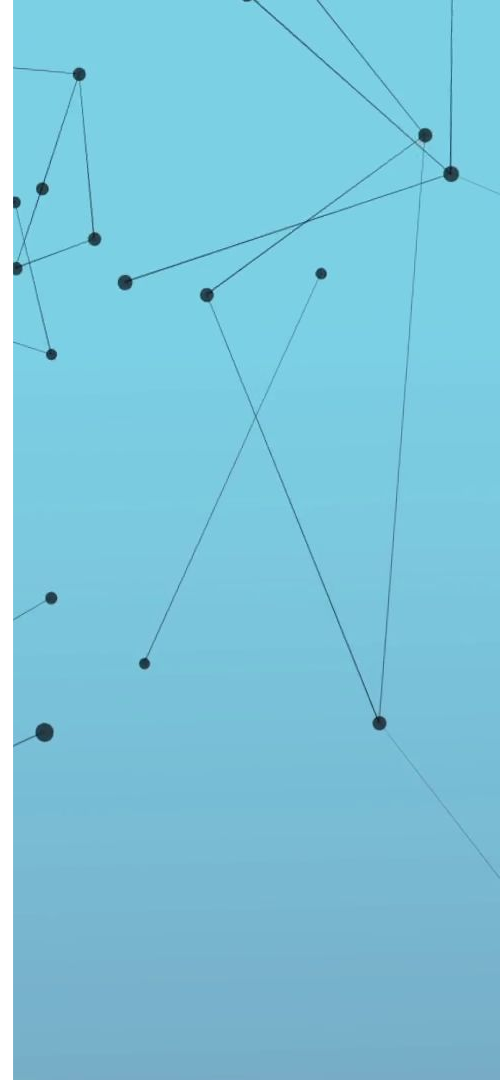
Ngoc-Yen Tran

Research Impact Librarian
San José State University



Emily K. Chan

Interim Associate Dean
for Research and Scholarship
San José State University





Agenda

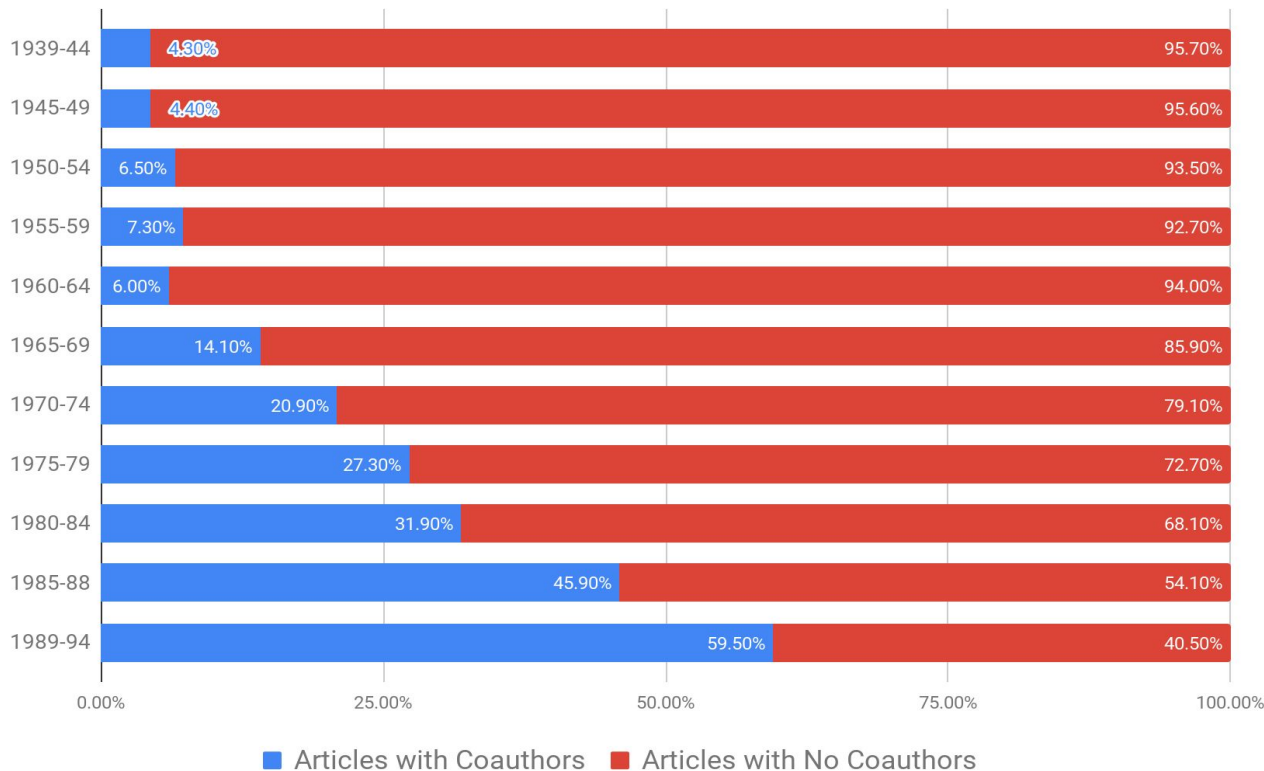
- Research collaborations in LIS
- Research findings
 - Monograph publishing
 - Library & Information Science Source database
 - Collaboration survey data
- Implications of research

A network diagram with black nodes and thin grey lines connecting them, set against a light blue background. The nodes are scattered across the frame, with some clusters and many long, thin connections.

**All disciplines have seen
increases in collaboration**

Authorship in College & Research Libraries

C&RL Article Authorship



Aggregate data from:

Gloria S. Cline (1982)

College & Research Libraries: Its First Forty Years
College & Research Libraries

James L Terry (1996)

Authorship in College & Research Libraries Revisited: Gender, Institutional Affiliation, Collaboration
College & Research Libraries



COLLEGE &
RESEARCH
LIBRARIES

Authorship in *The Journal of Academic Librarianship*

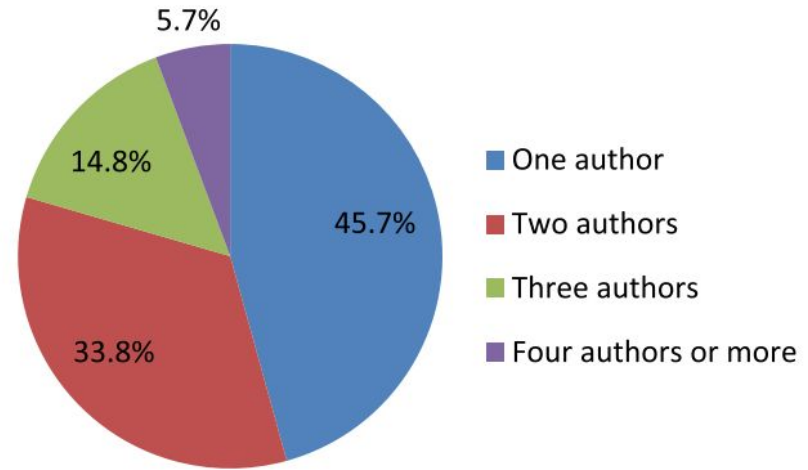


Fig. 1. Number of authors for the articles.

Lili Luo and Margaret McKinney (2015)
JAL in the Past Decade: A Comprehensive Analysis of
Academic Library Research
Journal of Academic Librarianship

Examples of journals included in study:

- Medical Reference Services Quarterly
- Journal of Interlibrary Loan
- Document Delivery & Electronic Reserve (formerly Journal of Interlibrary Loan, Document Delivery & Information Supply)
- Collection Building
- College & Undergraduate Libraries
- Internet Reference Services Quarterly
- New Library World
- portal: Libraries and the Academy
- Reference Librarian
- Serials Review

	2003–2012 (Ten Years)	2003–2007 (Five Years)	2008–2012 (Five Years)
Journals studied	41	41	39
Issues in journals studied	1,698	855	843
Number of refereed articles	10,575	5,038	5,537
Number of coauthored USAL articles	1,997	971	1,026
Percentage of USAL articles that were coauthored	51.04%	48.62%	53.55%

**Deborah D. Blecic, Stephen E. Wiberley Jr., Sandra L. De Groote, John Cullars, Mary Shultz, and Vivian Chan
(2017)**

Publication Patterns of U.S. Academic Librarians and
Libraries from 2003-2012
College & Research Libraries

Journals included in this study:

- College & Research Libraries
- Information Technology and Libraries
- Journal of Academic Librarianship
- Journal of Education for Library & Information
- Science
- Journal of Library Administration
- Journal of American Society for Information
- Science
- Libraries and Culture
- Library and Information Science Research
- Library Quarterly
- Library Resources & Technical Services
- Library Trends
- Public Library Quarterly
- RQ
- School Library Media Quarterly
- Serials Librarian
- Special Libraries

TABLE 1
DISTRIBUTION OF ARTICLES
BY NUMBER OF AUTHORS

Authors	No.	Articles %
No author indicated	198	11.48
Single author	1,045	60.58
Two authors	375	21.74
Three authors	78	4.52
Four authors	23	1.33
Five authors	6	.35
Total	1,725	100.00

Lois Buttlar (1991)

Analyzing the Library Periodical
Literature: Content and Authorship
College & Research Libraries

Table 1: Distribution of Number of Authors

Number of Authors	Number of Articles	Percentage
Single author	127	47.21
Two authors	95	35.32
Three authors	38	14.13
More than three	9	3.35
Total	269	100.00

**Paramjeet Kaur Walia &
Manpreet Kaur (2012)**

Authorship Pattern in Library and
Information Science Journal
Literature
Information Studies

US Journals

- Library Resources and Technical Services (LRTS)
- Library Trends (LT)
- The Library Quarterly (LQ)

UK Journals

- Journal of Documentation (JOD)
- Journal of Librarianship and Information Science (JOLIS)
- Library and Information Science Research (LISR)

India Journals

- Information Studies (IS)
- SRELS journal of Information Management (SJOIM)
- Annals of Library and Information Studies (ALIS)

Yu-Wei Chang (2016)

Characteristics of Articles
Coauthored by Researchers
and Practitioners in Library
and Information Science
Journals

*Journal of Academic
Librarianship*

Journals included in study:

- College & Research Libraries
- Information Technology and Libraries
- Library and Information Science Research
- Library Quarterly
- Library Resources and Technical Services
- Library Trends

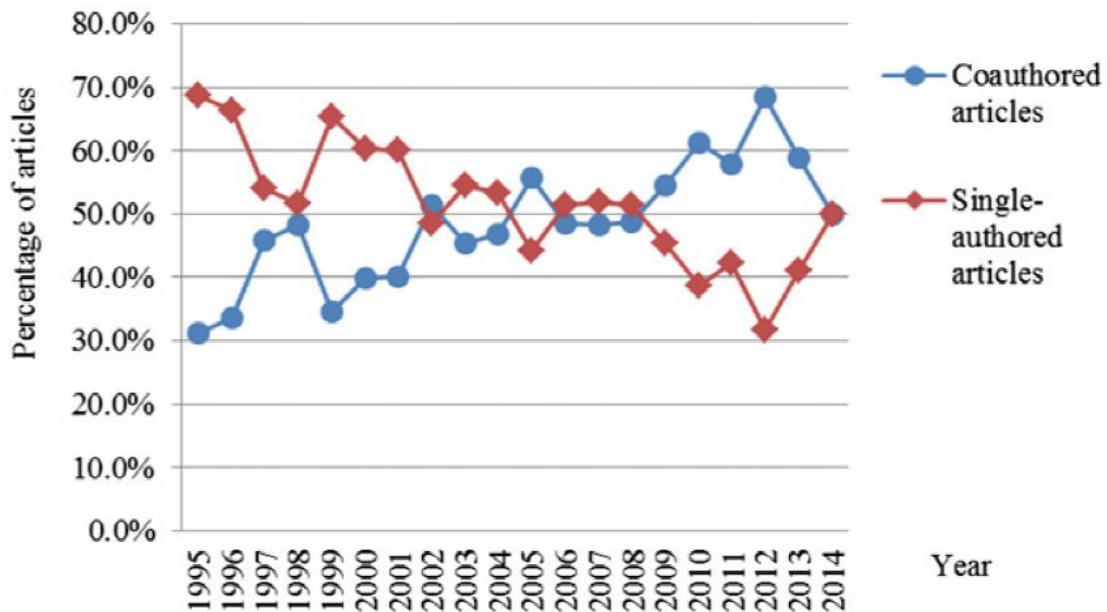


Fig. 1. Changes in annual percentages of single-authored and coauthored articles.

Authorship in Monograph Publishing



Shameless plug (sorry!): Join me and fellow researcher, Erin Nevius, at ACRL 2019 for our contributed paper presentation on gender in LIS monograph publishing.

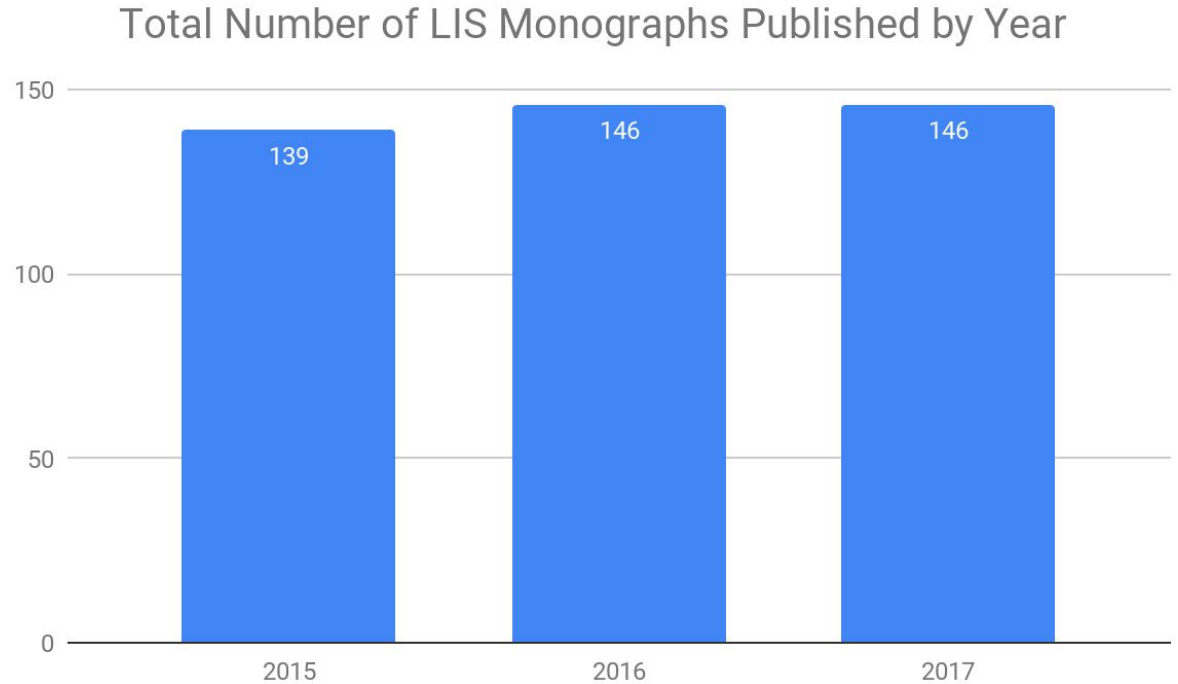
LIS Monograph Publishing Study

Publishers in study:

- ALA Editions
- ACRL
- Chandos
- Facet
- Library Juice
- Libraries Unlimited
- McFarland
- Rowman & Littlefield

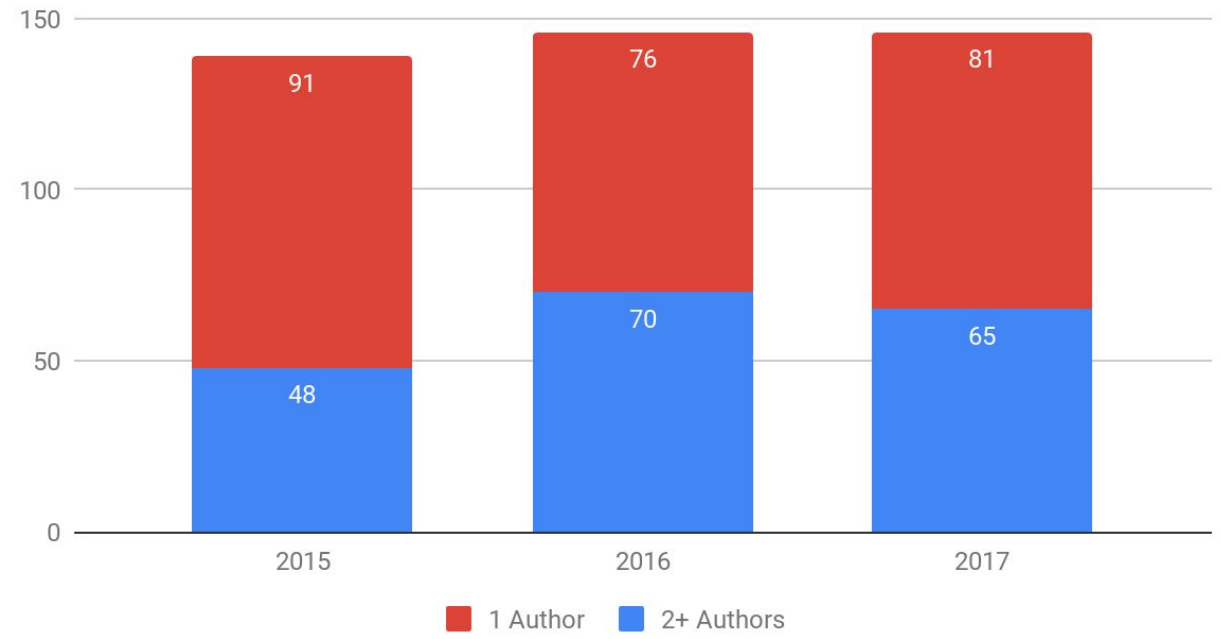
Years included in study:

- 2015
- 2016
- 2017



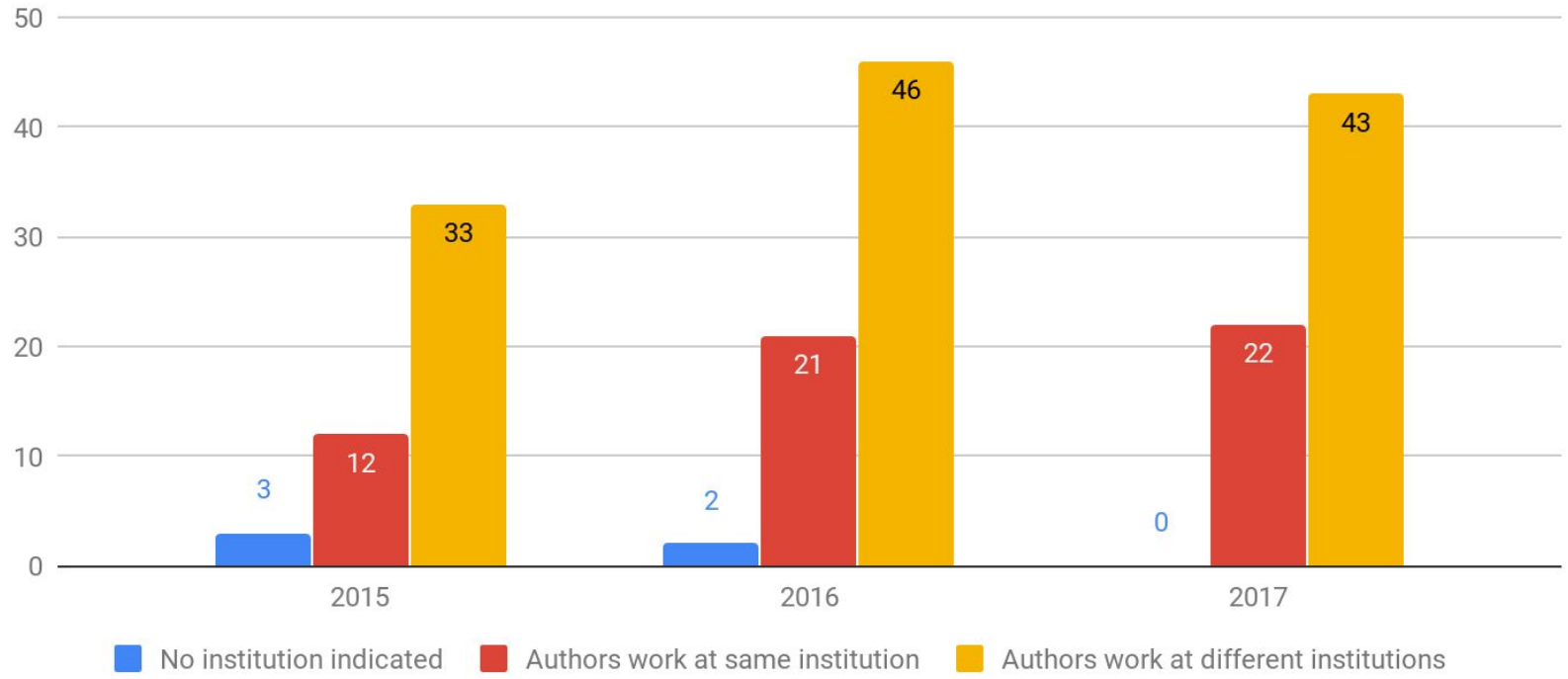
Authorship in LIS Monograph Publishing

Monograph Authorship by Number of Authors by Year



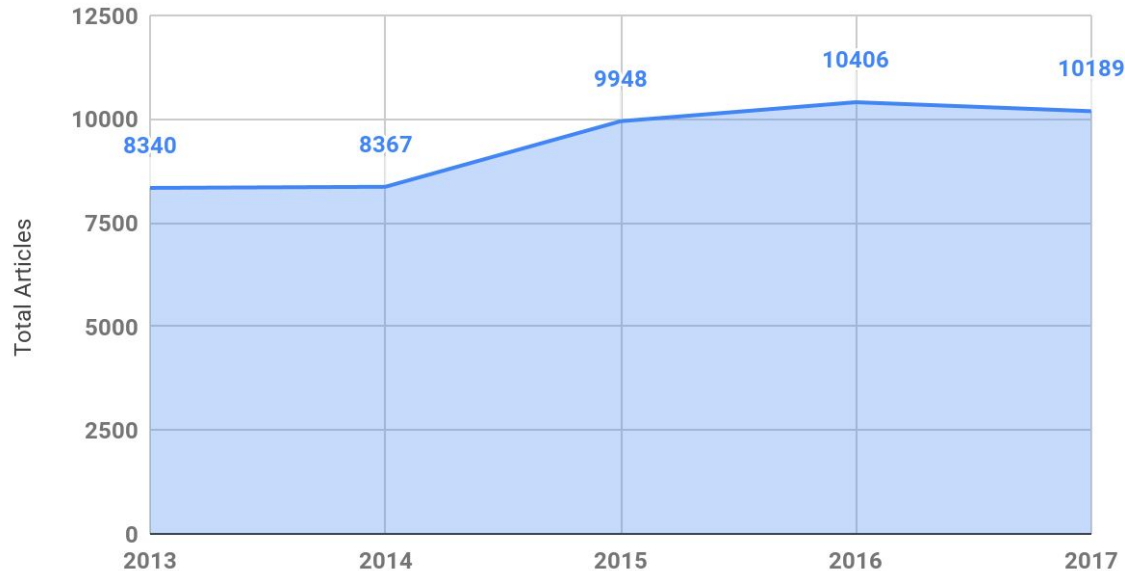
Author Affiliations in LIS Monograph Publishing

Author Affiliation in Monograph Publishing by Year



Library and Information Science Source (LISS) Study

Total Number of Articles by Year

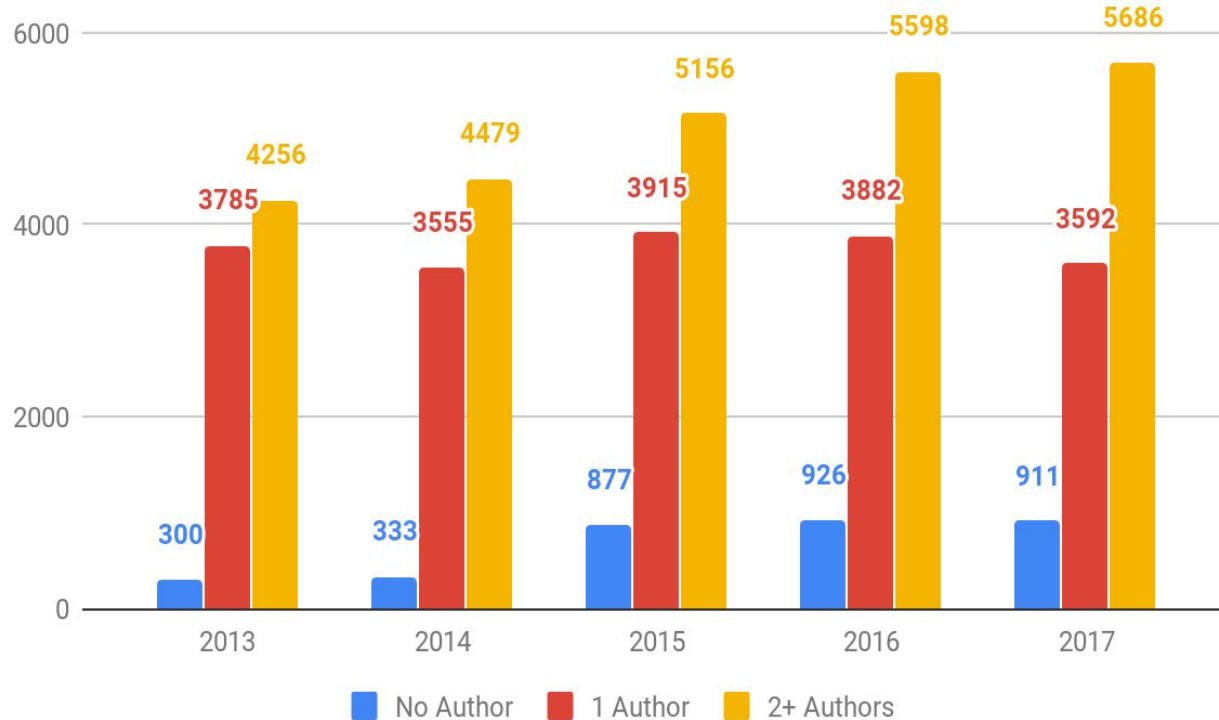


Article count in LISS for
years 2013-2017

All Years:
47,250 Articles

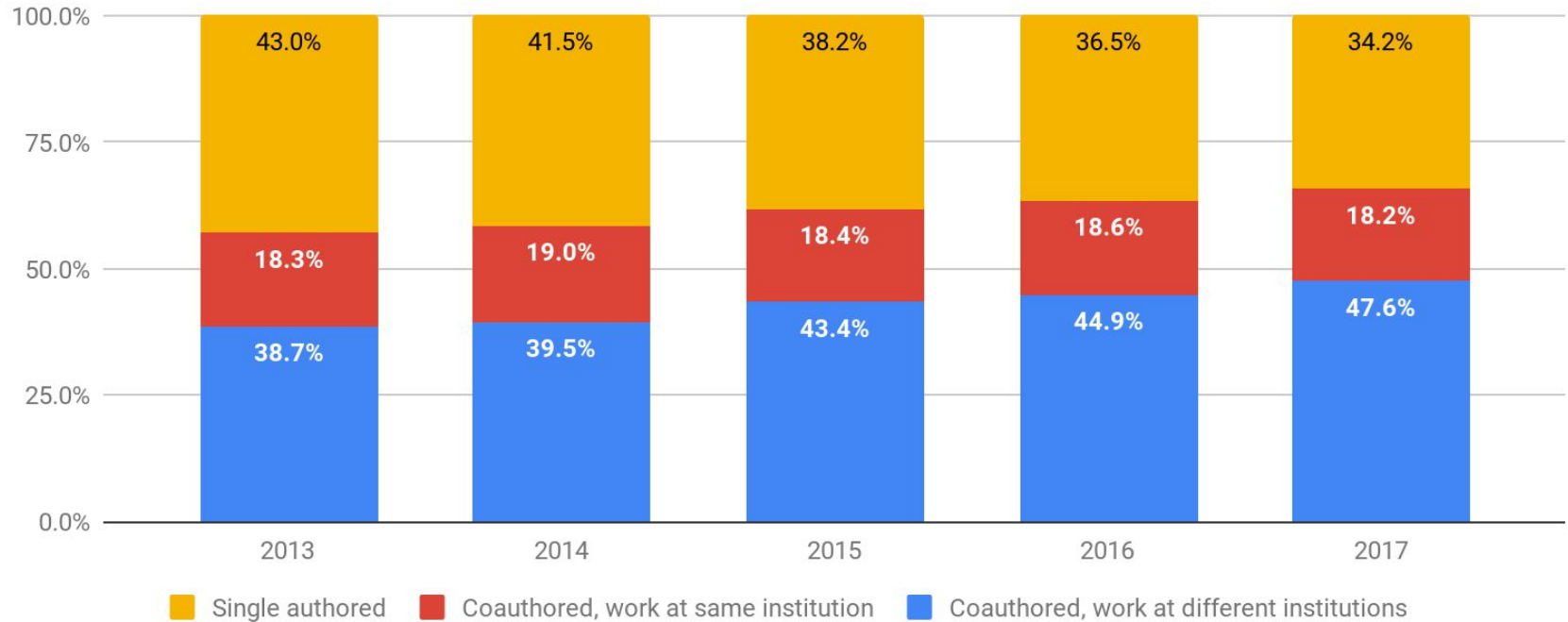
LISS Single and Co-Authored Articles

Articles Indexed in LISS by Number of Authors



LISS Collaboration in the Literature

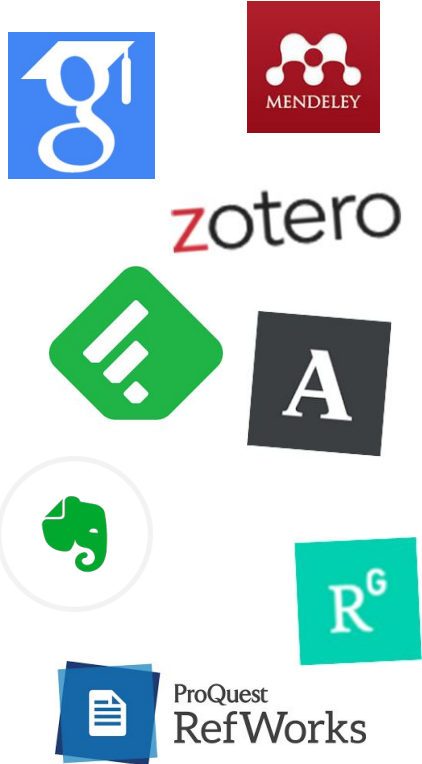
Percentage of Articles in LISS by Author and Affiliation Counts



A network diagram background consisting of a light blue gradient with a pattern of dark blue dots connected by thin, dark blue lines, forming a complex web of connections. The dots vary in size, and the lines are thin and dark blue.

Tell Us About Your
Collaborations

Capturing, Organizing & Storing Information



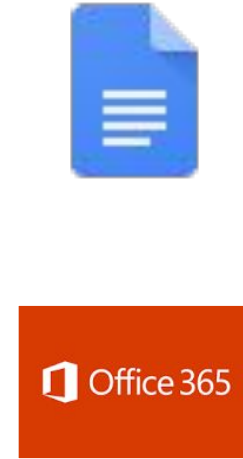
Collecting Data



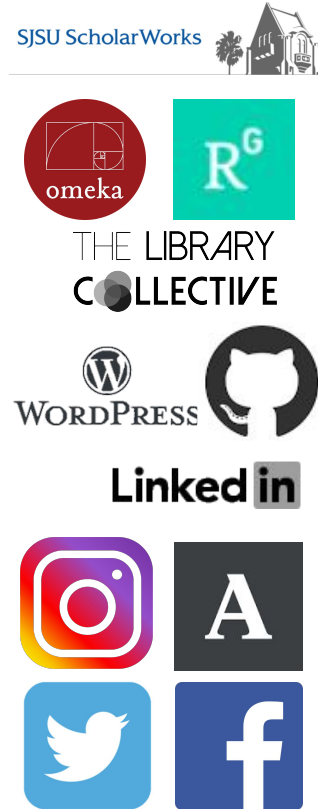
Communicating




Writing



Sharing & Distributing



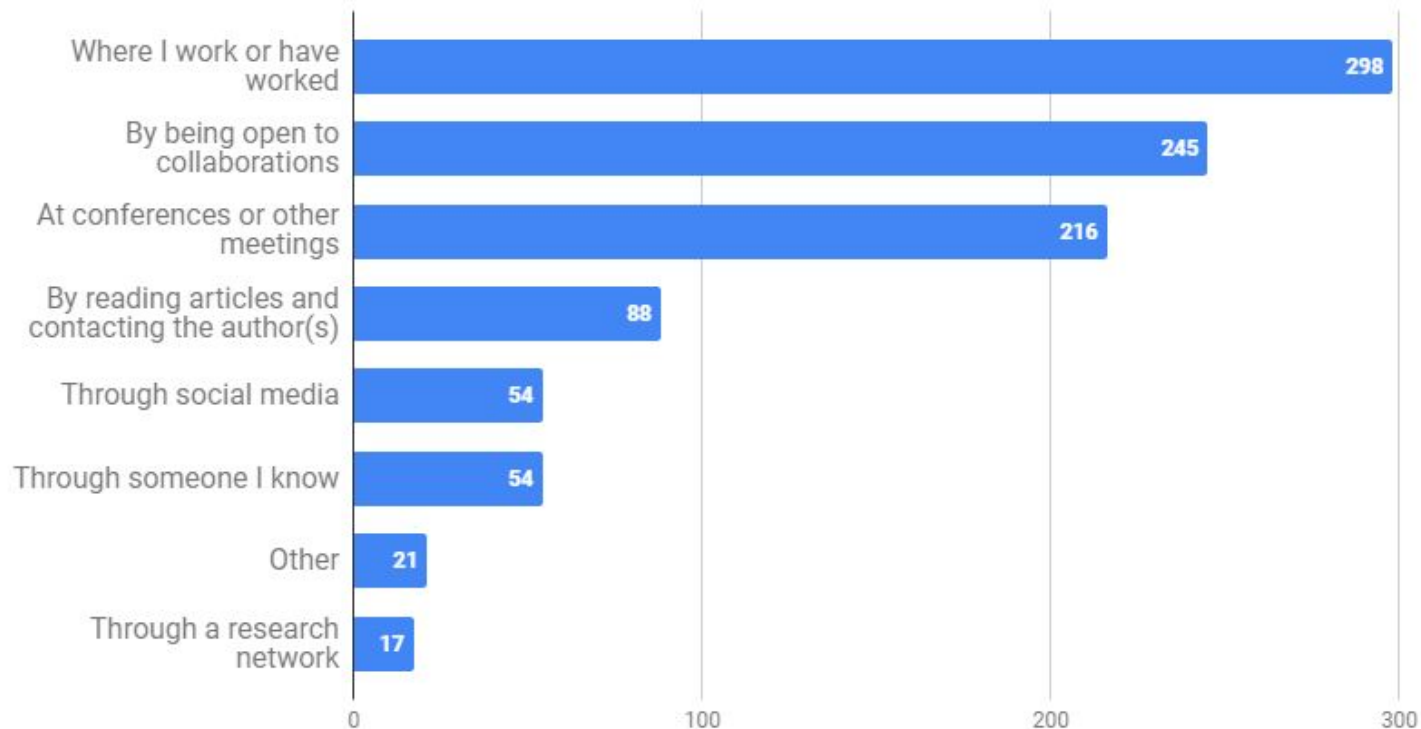
Technologies Supporting Research Collaborations

A network diagram consisting of numerous black dots (nodes) connected by thin, light blue lines (edges). The nodes are scattered across the frame, with some forming small clusters and others being isolated. The overall pattern suggests a complex, interconnected network.

Finding Research Collaborators Survey

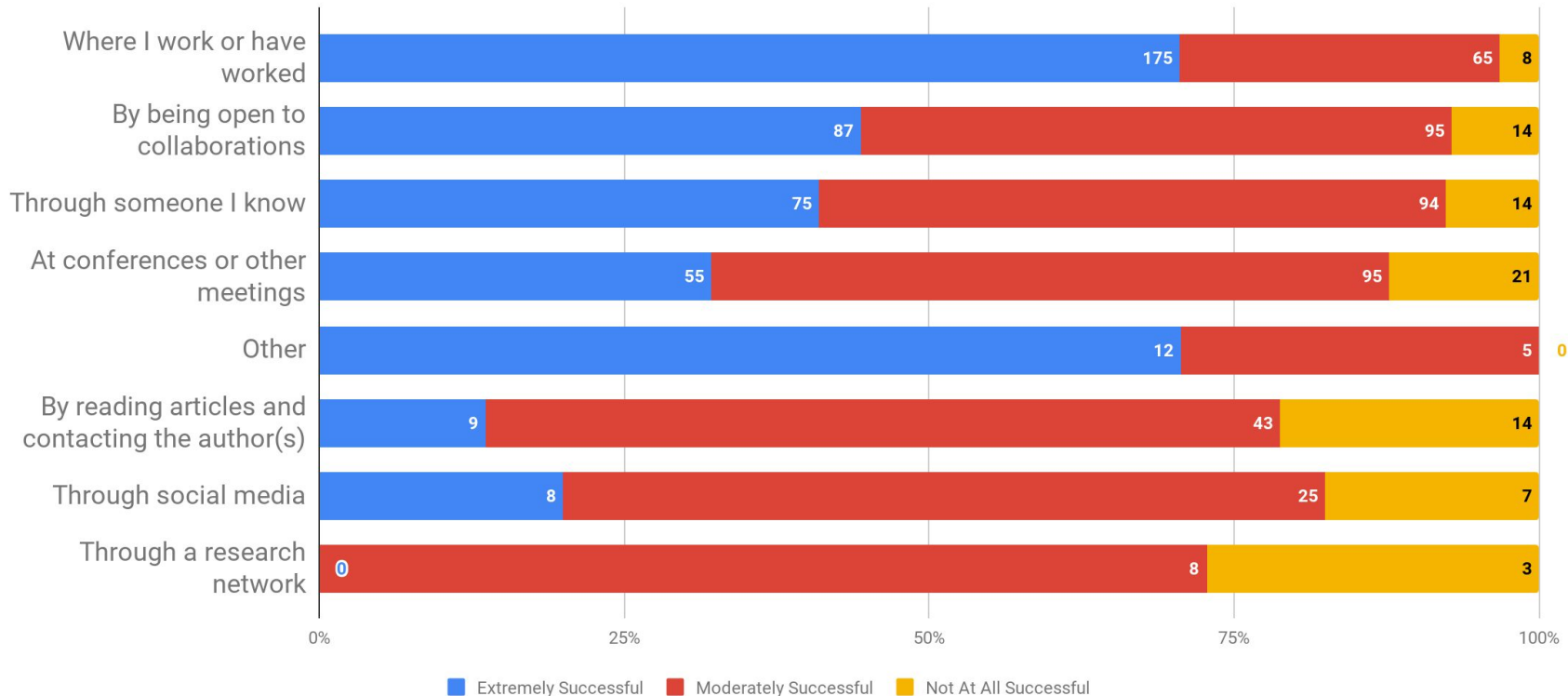
Collaboration Survey Findings - Strategies

Responses to "I look for and find research collaborator(s)..." (select all that apply)



Collaboration Survey Findings - Success

Levels of Success Among Collaboration Strategies



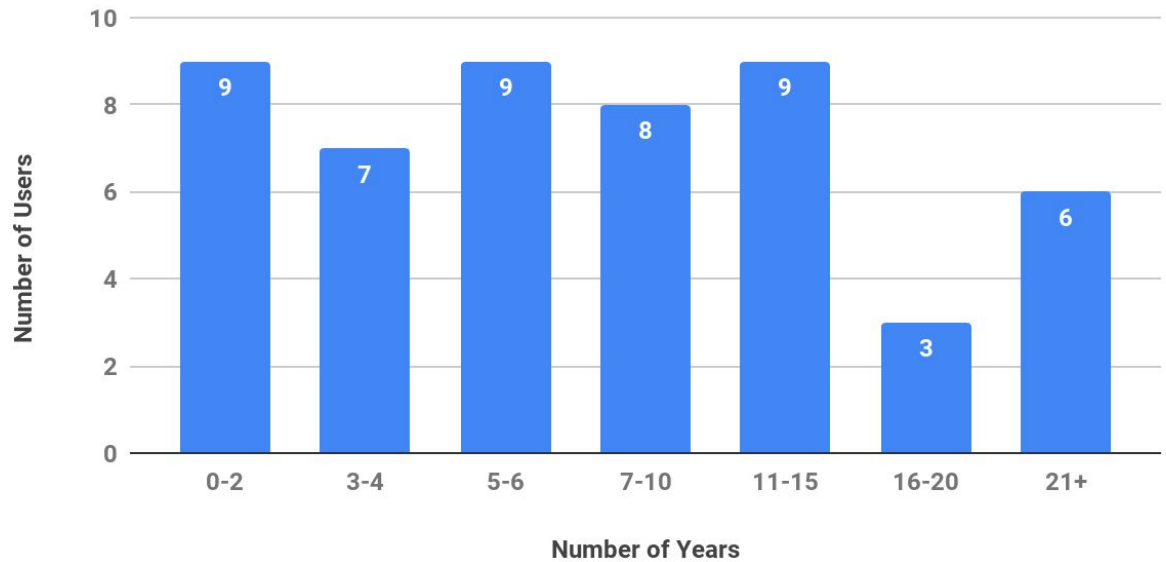


Other Strategies

- Professional associations and committee work
- Listservs
- Participation in cohort-based programs (IRDL, Immersion)
- Others seek you out
- Alumni networks
- Consortium/professional relationships

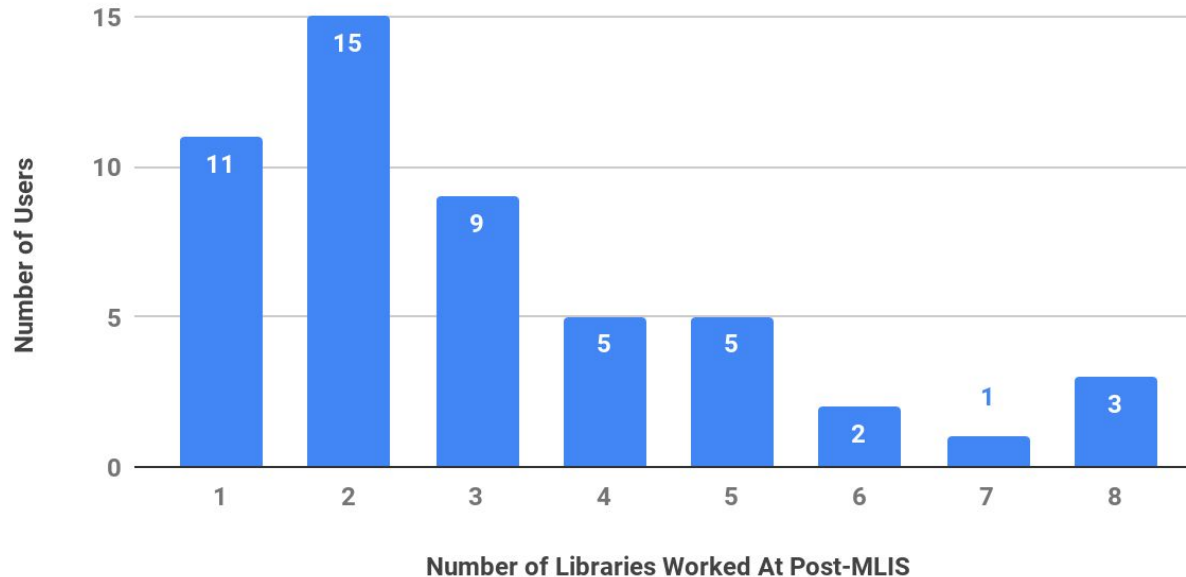
Collaboration Survey Findings - Social Media and Research Networks Users

Number of Years as a Professional Librarian Among Social Media and Research Network Users



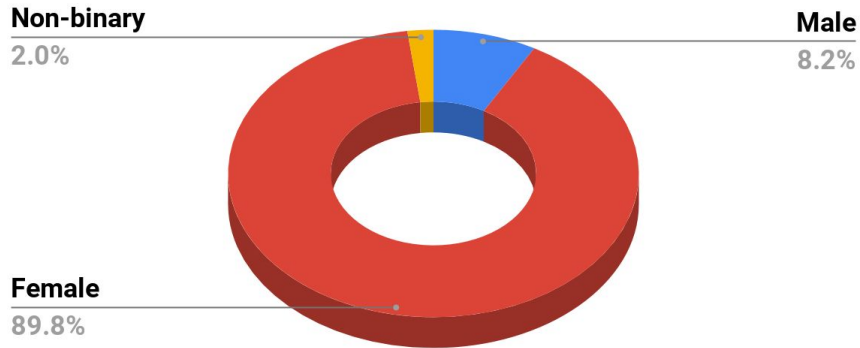
Collaboration Survey Findings - Social Media and Research Networks Users

Number of Libraries Worked At Post-MLIS Among Social Media and Research Network Users

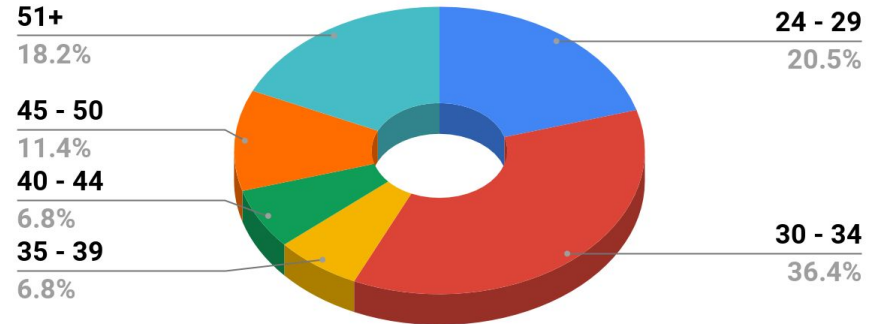


Collaboration Survey Findings - Social Media and Research Networks Users

Gender Distribution Among Social Media and Research Network Users



Age Distribution Among Social Media and Research Network Users



Takeaways

- Moderate to not at all successful for social media and research networks
- Comments indicated that these avenues were great for following thought leaders and staying engaged with the professional dialogue and trends
- These strategies will likely continue to grow in popularity as social media and research networks gain ground and become established as authoritative/legitimate avenues for professional dissemination
- The users skew toward early career librarians, a demographic that will continue to grow as more librarians retire

Takeaways from all research

- LIS literature is growing
- Collaboration / coauthorship is growing
- Coauthorship across multiple institutions is rising
- Digital and online tools help to facilitate easier collaborations
- Digital and online tools help to build trust among collaborators



**Near- and
Long-Term
Futures**

Easier to have
relationships
and/or not
establish
relationships

Networks are
easier to
create than
ever

Everyone
probably has
multiple
networks that
can be fruitful

Online Collaborative Networks

Online Presence



Digital/virtual presence may be used for vetting purposes

Curation of digital identity is all the more important

A network diagram with black dots connected by thin lines, set against a light blue background.

Questions?

Let's Connect!

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Presentation to dos:

- Look into ACRL roundtables and etc. regarding collaborations
- Programs that support librarians doing research (research methods as well as doing research in a collaborative setting)
- Trends in monograph publishing (Yen to ask Erin about sharing our data)

Presentation outline:

- Rise of research collaborations / literature review --- Yen
- Different tech or tools for research collaborations - who has what? --- Emily (CSUs, sample of institutions)
 - Capturing information - examples
 - Storing information
 - Communication
 - Writing
 - Sharing and distributing
- Our findings on how technology is helping to facilitate ppl seeking collaborators
 - LISS data: more than 1 author, same institution? --- Yen
 - Survey data --- Emily
 - Ask audience: Tools used to collaborate?
- Implications for librarians --- Yen and Emily

A good wrap-up or conclusion for your session can be to talk about the possible near- or long-term futures that might arise as your topic continues to develop. While these sessions are meant to be timely, attendees are also interested in the speculative futures that might arise from these trends and changes. Why might libraries be concerned for these futures? How might libraries play roles in these futures? Your knowledge and insight around these current trends can help attendees begin to prepare for productive futures.