RESEARCH TRAINING INSTITUTE 2024 Virtual Poster Presentations

Moderators

Emily Vardell, PhD, AHIP, Emporia State University (*RTI Faculty Lead*) **Susan Lessick**, MA, MLS, AHIP, FMLA, University of California, Irvine (*RTI Project Director*)

Presenters

Alla lansavitchene, London Health Sciences Centre, Canada Katie Pierce Farrier, National Library of Medicine Region 3, TX Hripsime Mantecon, University of North Texas, TX Jennifer Muse, Emporia State University, KS Sangeeta Narang, All India Institute of Medical Sciences, India Kelsey Sawyer, Brown University Library, RI Prashant Shrivastava, All India Institute of Medical Sciences, India

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Today's Agenda

- Welcome, Agenda, RTI Sponsors & Staff
- Fellow Poster Presentations (5-7 mins per presentation)
 - Studies that explore: Publishing Trends
 - Kelsey Sawyer
 - Katie Pierce Farrier
 - Jennifer Muse
 - Studies that explore: Library Practices
 - Alla lansavitchene
 - Prasant Shrivastava
 - Studies that explore: Understanding User Behavior
 - Hripsime Mantecon
 - Sangeeta Narang



Support from Partners & Donors

Support From Grant & Academic Partners

- IMLS funded two large grants and multiple scholarships for librarians (2018-2019, 2021-2022)
- AAHSL Association of Academic Health Sciences Libraries (2018 – 2022)
- University of Illinois at Chicago, Library of the Health Sciences-Chicago (2018-2019)
- University of North Texas (UNT) Master of Science in Information Science program (2021 - 2023)
- **Emporia State University** (ESU), School of Library and Information Management program. (2021-2023)

2023 Funding Support

- MLA Fellows
- MLA Chapters
 - Liberty
 - Mid-Continental
 - Midwest
 - Medical Library Group So Cal & Arizona (MLGSCA)
 - Pacific Northwest (PNC)
 - South Central
 - Southern
- NNLM

2023 Scholarships

- Donations: \$18,954 from MLA Fellows, 6 Chapters & NNLM
- 24 scholarships, including DEI scholarships; 5 declined support

Thank you RTI Partners and Donors!

RTI Program Staff, 2018-2024

Faculty (2018-present)

- Katherine Akers, Research Scientist in Evidence Synthesis, PRECISIONheor (Instructor, 2020-2024)
- Nina Exner, Research Data Librarian, Virginia Commonwealth University Libraries (2023-present)
- Sally Gore, Manager of Research and Scholarly Communication Services, Lamar Soutter Library, University of Massachusetts Medical School – Worcester (Instructor, 2018-2019)
- Karen Gutzman, Head of Research Assessment and Communications, Galter Health Sciences Library & Learning Center at Northwestern University (Instructor & Social Media Coordinator, 2021-present)
- Shanda Hunt, Public Health Librarian & Data Curation Specialist, Health Sciences Library, University of Minnesota - Twin Cities (Instructor, 2021-2024)
- Lorie Kloda, AHIP, Associate University Librarian, Concordia University, Montreal, QC, Canada (Co-Lead instructor, 2018-2020)
- Mark MacEachern, Informationist, Taubman Health Sciences Library, University of Michigan–Ann Arbor (Instructor, 2018-2023; Co-Lead Instructor, 2023-present)
- Jodi L. Philbrick, AHIP, Senior Lecturer, Department of Information Science, University of North Texas–Denton (Co-Lead instructor, 2018-2023)
- **Emily Vardell**, AHIP, Associate Professor, School of Library and Information Management, Emporia State University, Emporia, KS (Instructor, 2018-2020; Co-Lead Instructor, 2021-present)

Academic Coordinator (2021-present)

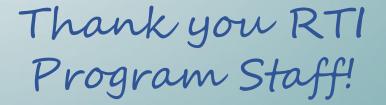
• Ana Cleveland, PhD, AHIP, FMLA, Regents Professor, Sarah Law Kennerly Endowed Professor, and Director of the Health Informatics Program, University of North Texas, Denton, TX

Peer Coaches (2023-2024)

- Andy Hickner
- Christi Piper
- Erin E. Reardon
- Valerie Vera
- Gwen Wilson

RTI Leadership Team (2018-2024)

- Susan Lessick, AHIP, FMLA, Librarian Emerita/RTI Project Director, University of California, Irvine
- Mary Langman, MLA Director of Information Issues & Policy
- Barry Grant, MLA Director of Education
- Debra Cavanaugh, MLA Director of Professional Development





Studies that explore Publishing Trends

Who is being counted and how? A systematized methods overview of bibliometric analyses examining representation, equity, and power in biomedical research

Kelsey Sawyer, MS, Brown University Library



References: https://bit.lv/30tpR3z

Background

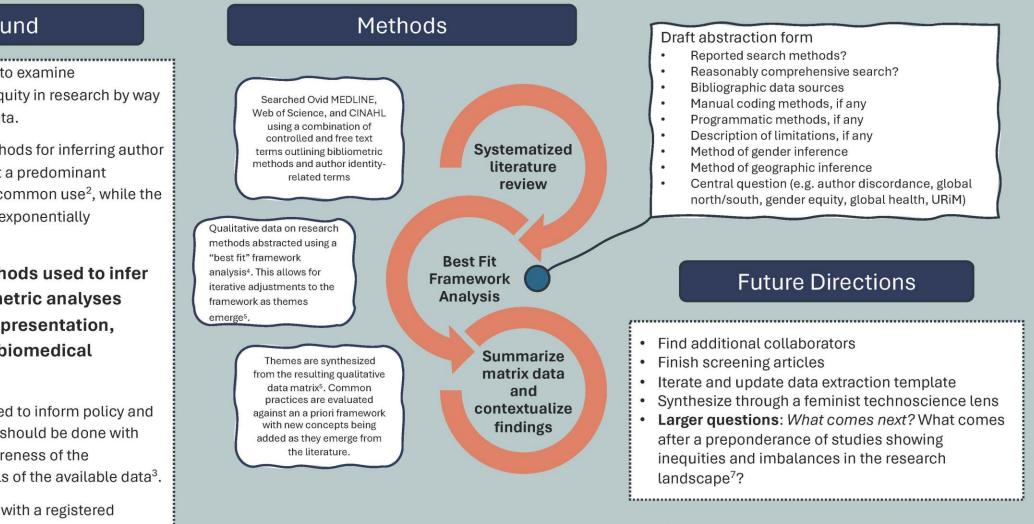
Bibliometric data can be used to examine participation, inclusion, and equity in research by way of authorship and affiliation data.

While there are published methods for inferring author identity¹ there is seemingly not a predominant framework or methodology in common use², while the use of bibliometric analysis is exponentially increasing^{2.}

This project surveys methods used to infer author identity in bibliometric analyses interrogating diversity, representation, resources, and power in biomedical research.

If bibliometric analyses are used to inform policy and administrative decisions, they should be done with care and nuance, with full awareness of the limitations and potential pitfalls of the available data³.

This project is still in progress, with a registered protocol located in the Open Science Framework: <u>https://osf.io/ba2rt</u>



Generative Al in Publishing

Katie Pierce Farrier Network of the National Library of Medicine, Region 3

Research Question

- 1. How are health science and medical journals addressing the use of AI for writing or creating content for scholarly article submissions?
- 2. What, if any, are the emerging commonalities?

37

Q1

Journal Distribution by Impact Factor

16

Q3

Q4

NA

23

Q2

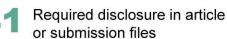
52% Of selected journal did **NOT** have an AI policy

| Category | Count |
|-----------------------------|-------|
| No Policy | 52 |
| Not allowed | 4 |
| Discouraged | 2 |
| Allowed, limited use | 13 |
| Allowed, some guidance | 21 |
| Allowed, extensive guidance | 6 |
| Unclear | 2 |

Methods

Using Journal Citation Reports, 100 journals from the Clinical Medicine category were selected for review. Journal websites and editorial policies were searched for the keywords "AI, A.I. artificial intelligence, ChatGPT, large language models, machine learning, generative". Policy language was then categorized and thematically analyzed.

Of the Journals with Policies...



- Stated AI cannot be an author
- Mentioned author responsibility or accountability
 - Cited COPE, WAME, or ICJME

Preliminary Results

The selected journals represented a wide range of impact factors, citation counts, across 19 countries. Initial results show that over half of the selected health science journals had no policy regarding AI generated content. Few policies provided in depth guidance on how to use or disclose use of AI in scholarly content.

Funding Statement

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THE UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER at FORT WORTH

Integration of traditional beliefs, complementary health care, and biomedicine: Creating an Indigenous healing scoping review

Future Health Science Librarian, Jennifer Muse

EMPORIA STATE U N I V E R S I T Y • School of LIBRARY AND INFORMATION MANAGEMENT

Scoping review process

Databases utilized: PubMed, Embase, Scopus, CINAHL, Google Scholar

Keywords: Indigenous, integrative, complementary, Western biomedicine, allopathic, healing, United States, Canada

Scoping review using the PRISMA-ScR methodology and checklist

Preliminary Findings

Indigenous Peoples are marginalized and underserved by the health care community.

There is a need to acknowledge & respect Indigenous healing practices.

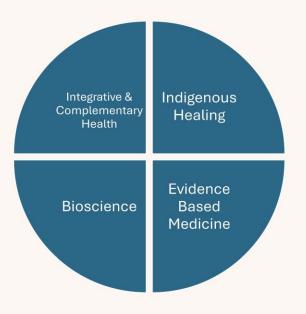
~Colonization, historical trauma, self-determinants need to be taken into consideration

Curriculum within medical schools needs to be inclusive of differing belief systems & historical repercussions

Research Question

Identifying and synthesizing strategies used to integrate Indigenous healing practices within primary health care in the United States and Canada.

How do Primary Care Practitioners acknowledge Indigenous healing practices?



Methodologies used

- Excel for article management
- Zotero citiation managment
- Covidence for data extracting and synthesizing relevant articles

Next Steps

- Continue extracting data and writing article
- Submit article to Journal of Integrative and Complementary Medicine for review and consideration

Selected references

Arksey, H., & O'Malley, L. (2005). Scoping studies: towards a methodological framework. *International Journal of Social Research Methodology*, 8(1), 19–32.

Dolson, M. (2010. On the possibility of a synergy between Indigenous knowledges of health and healing and western biomedicine: Toward a phenomenological understanding. *Platforum Journal of Graduate Students in Anthropology*, *11*, 38-50.

Joo-Castro, L., & Emerson, A. (2021). Understanding historical trauma for the holistic care of indigenous populations: A scoping review. *Journal of Holistic Nursing*, *39*(3), 285-305.

Shane, R. B. (2012). The Struggle for Integration of Traditional Native American Medicine and Allopathic Medicine.

Studies that explore Library Practices



Exploring Donor Relationship Management in Academic and Health Sciences Libraries: A Pilot Survey on Scale Purification

Alla lansavitchene, BSc, MLIS¹ Amanda Ross-White, MLIS, AHIP²

¹Corporate Academics, London Health Sciences Centre, London, ON, Canada ²Bracken Health Sciences Library, Queen's University, Kingston, ON, Canada

Background

Nonprofit libraries, particularly in academic and health sciences sectors, increasingly rely on philanthropic support for their operations. Despite this reliance, there's a lack of research on effective donor engagement strategies within these libraries. Drawing on established relationship measurement frameworks (Hon & Grunig, 1999; Jo et al., 2004; DeVellis, 2012), our study aims to explore how dimensions crucial to donor relationship management-trust, control mutuality, commitment, and satisfaction-are applied in the unique context of health sciences libraries.

Methods

Using the validated scales developed by Hon & Grunig, we are employing a meticulous judgmental approach to assess items for relevance, logic, and inclusiveness, within the field of academic and health sciences libraries. Through input from library conference attendees in both Canada and the United States (that's you!), we will pilot test the survey, using a method called scale purification

Guided by Moore and Benbasat's (1991) three-stage framework, our research progresses through the iterative processes of item pool creation, instrument development, and rigorous instrument testing. Collaborating with a diverse panel of experts, our research benefits from their valuable insights.

In alignment with Elangovan and Sundaravel's (2021) methodology, our experts ensure question clarity, understanding, and response efficacy, enriching the instrument development process. The goal is to develop a comprehensive and reliable tool for assessing donor relationships in academic and health sciences libraries.

Expert Validation

An item review of pilot survey instrument by judges/experts: n=34 questions comprising n=106 items

What was expected of them? Evaluate the survey using the Qualtrics survey link in conjunction with the Form for Expert Evaluation in a Word document

Scales provided:

O Essential, O Not Essential, O Modify

·Detailed remarks about problems/issues If any section/aspect was marked as "Modify," specifi recommendations for improvement were provided Any additional feedback, suggestions, or concerns that did not fit into the provided specific categories were invited

References:

- DeVellis, R. F. (2012). Scale development : theory and applications (3rd ed.). SAGE.
- Hon, L., & Grunig, J. (1999). Guidelines for Measuring Relationship in Public Relations
- 3. Jo, S., Childers Hon, L., & Brunner, B. R. (2004). Organisation-public relationships: Measurement validation in a university setting.
- Journal of Communication Management, 9(1), 14-27. 4. Moore G. C., & Benbasat I. (1991). Development of an instrument to measure the perceptions of adopting an information technology
- innovation. Information Systems Research, 2(3), 192-222
- Elangovan N., &Sundaravel E. (2021). Method of preparing a document for survey instrument validation by experts. MethodsX

Survey Design and Evaluation:

The pilot survey comprised four key sections, each evaluated by the expert panel:

1. Understanding Library Demography Characteristics (N=34 items, n=11 questions) Evaluations ranged from essential to modify, addressing key aspects of library demographics. 2. Understanding Library Donor Relationships and Contributions (N=40 items, n=13 questions)

Evaluation revealed essential modifications needed to refine understanding of donor relationships.

3. Long-term Relationship Building (N=13 items, n=4 questions)

Experts identified essential components crucial for fostering long-term donor relationships.

4. Challenges and Opportunities

(N=19 items, n=6 questions) Evaluation highlighted challenges and opportunities in donor relationship management

Results/Key Takeaways

 Section 1. Understanding Library Demography Characteristics Evaluation: Essential elements identified across all items.

with minor modifications suggested for improvement.

Section 2:

Understanding Library Donor Relationships and Contributions Evaluation: Essential aspects highlighted, with modifications suggested for clarity and relevance.

Section 3:

Long-term Relationship Building Evaluation: Essential components identified with minor modifications.

Section 4:

- Challenges and Opportunities
- · Evaluation: Essential challenges and opportunities identified, with some items requiring modification for clarity.



Our team of a diverse panel of experts: What areas of expertise they contributed

Giving Officer



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Librarian Emerita,

Director, RT

University of California, Irvine, & Founding Faculty, MLA

- Research Training Institute,
- Foundation Liaison, London Health Sciences Centre markmac@umich.edi
- Library Technician and Simona Dobransky Andy Hickner Senior Legacy Education and Outreach Librarian London Health Weill Cornell Sciences Foundatio Medicine alh4014@med.comell

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Acquisitions Librarian University of

Saskatchewar University Library

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Practice Points General Comments:

The expert panel's input enriched the survey instrument, enhancing its validity and relevance for future studies. Their diverse perspectives contributed to a comprehensive understanding of donor relationship management within library settings



Conclusion

- Our collaborative effort with our panel of experts resulted in a ٠ rigorous validation process, ensuring the integrity and effectiveness of our survey instrument. Their feedback and recommendations have been instrumental in refining the questionnaire for optimal data collection and analysis and capture nuanced insights into donor relationship management in academic and health sciences libraries
- The feedback provided valuable guidance for further research in this domain.

Next Steps

- Our study lays the groundwork for developing a comprehensive tool to assess donor relationships in academic and health sciences libraries. By understanding the nuances of donor engagement, library professionals, administrators, and stakeholders can optimize strategies for sustainable support, ensuring the continued fulfillment of library missions.
- Addressing specific issues raised by the experts and incorporating their suggestions will improve the questionnaire's clarity, relevance, and effectiveness

Acknowledgments: Special thanks to an Expert Panel who enerously provided their time and expertis

Sensitive research data management practices in top ranking world universities: an overview

Health Science Libraries preparedness

The following poster is the part of MLA's 2023 Research Training Institute, research project. (Research is currently in progress) **Prashant Shrivastava, BLISc, MLISc, MCA, Ph.D** Library and Information Officer, All India Institute of Medical Sciences, New Delhi, India Contact: drprashantshri@aiims.gov.in



Conclusion

The issue of regulatory compliance in Sensitive research data or human research data sharing is an evolving challenge due to the introduction of new regulations and the growing concerns surrounding individual privacy. The trust between research institutions and subjects plays a vital role in facilitating voluntary participation. To ensure continued participation and maintain trust, it is imperative to prioritize data sharing and usage that aligns with the subjects' preferences. Impact :

An effort to develop a standard repository for sensitive research data sharing compliance and tools.

Introduction:

Sensitive Research Data Identifiable personal, medical, or location data, commercially sensitive information, intellectual property, and data related to military or national security are all examples of sensitive data.

Objectives:

- Identify leading health science libraries.
- Tools and techniques to deal sensitive data.

Methods

Website investigation and Survey through online questionnaire. **Population**

- . Harvard University
- . University of Oxford
- 3. Johns Hopkins University
- 4. Stanford University
- Massachusetts Institute of Technology
- 6. University of Cambridge
- 7. Imperial College London
- 8. University of California, San Francisco
- 9. University College London
- 10. Karolinska Institute, Sweden

Source : QS World University Rankings by Subject 2024: Life Sciences & Medicine Top ten world ranking health science libraries are providing tools and techniques to deal Sensitive research data as:

De-identification & Anonymization Redaction - Erasing or expunging sensitive data from a record. Suppression - Removing data Blurring –

- Aggregation
- Generalization
- Pixilation

Masking –

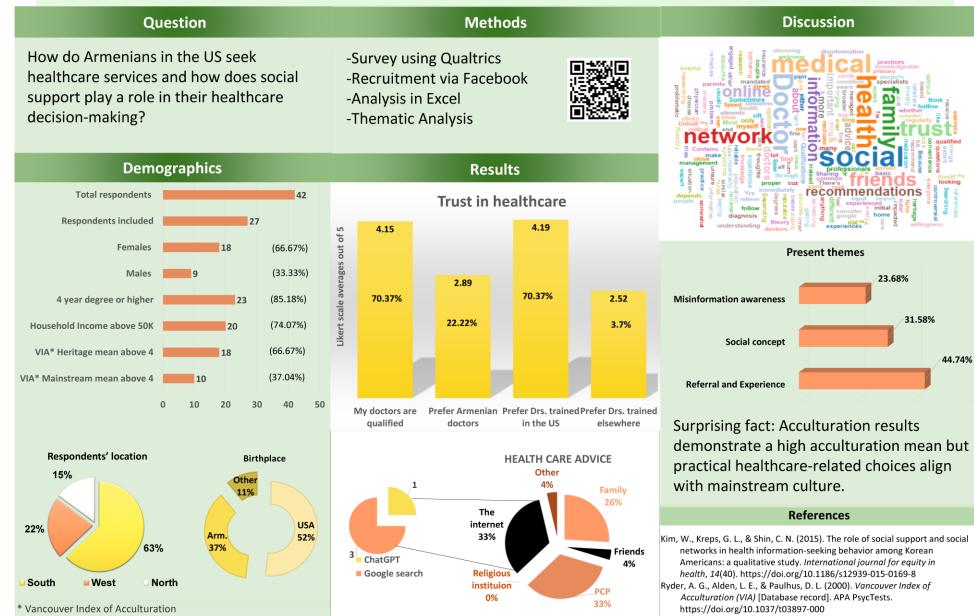
- Pseudonymization Coding
- Perturbation Randomization
- Swapping Shuffling
- Scrambling Encryption
- Noise Differential Privacy

Studies that explore Understanding User Behavior



How do Armenians in the U.S. look for healthcare services? A qualitative analysis of health information-seeking behavior.

by Hripsime Mantecon, MA, MS



Assessment of Research Tool Use for Scholarly Communication by Researchers at All India



Institute of Medical Sciences (AIIMS), New Delhi Sangeeta Narang, Librarian Selection Grade, JPNA Trauma Centre Library, AIIMS, New Delhi, INDIA



Richa Aggarwal, Professor, Critical and Intensive Care, JPNA Trauma Centre, AIIMS, New Delhi

Scholarly Communication is the system through which research and other scholarly writings are created, evaluated for quality, disseminated to the scholarly community, and preserved for future use. -*Association of College & Research Libraries, 2003*



- To investigate research tools used by researchers in their scholarly communication practices at AIIMS, New Delhi.
- To inform and familiarize researchers about various research tools available to them in scholarly communication discourses.

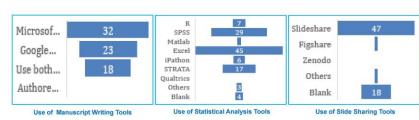
Methods

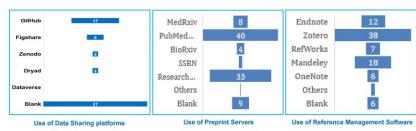
- This is a pilot study in which a Google form and a printed questionnaire were developed for the collection of data from researchers.
- Data was collected from January 20, 2024, to March 3, 2024, and was recorded in the Google Sheet.
- · Data was analyzed mostly for the percentages and frequencies.

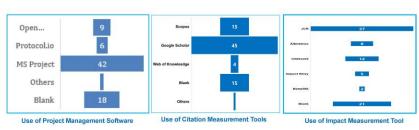
Results

- The analysis of demographic data on age, gender, research roles, and number of
 publications shows that the majority of young male residents in the age group of
 25-34 from various departments responded to the survey.
- The number of publications increased with experience. PubMed and Google Scholar were the most commonly utilized databases, with many researchers accessing subscribed resources through the institution's library.
- A small number of researchers maintained profiles on ORCID and Google Scholar, followed by ResearchGate, and Academia.edu.
- The preference for open-access publishing was high among all the researchers. However, awareness of open project management platforms was less and many questions on data management, and collaborative tools were low as well.
- Open-ended questions regarding the future of scholarly communications referred to the use of artificial intelligence (AI) influencing research and one researcher referred to the emergence of an AI-based Indian research database, alongside high aspirations for open access to scientific work and a recognition for peer reviewers.









| Profile of the participa | nts Sam | ple Size (N)=7 | 3 |
|------------------------------------|---------|----------------|---|
| Demographics | Value | s Percentages | |
| Gender | | | |
| Male | 53 | 72.60 | |
| Female | 20 | 27.39 | |
| Age | | | |
| 18-24 | 7 | 09.58 | |
| 25-34 | 59 | 80.82 | |
| 35-54 | 6 | 08.21 | |
| 45-54 | 1 | 01.36 | |
| Research Role | | | |
| Junior Resident | 16 | 21.9 | |
| Senior Resident | 32 | 43.83 | |
| Scientist | 03 | 41.09 | |
| Faculty | 03 | 41.09 | |
| Others | 19 | 26.02 | |
| Number of Publications | ; | | |
| Researchers having publications | 29 | 39.72 | |
| Researchers having | 44 | 60.27 | |



101 Innovations in Scholarly Communication



Librarians' Teaching Role in Scholarly Communication

Research Discipline Varied

Conclusion

no publication

- The findings underscore a heightened awareness on the use of scholarly tools by the researchers, however, some respondents left many survey questions unanswered. This highlights a need for training and awareness of academic tools to enhance research, scholarly writing, and communication among researchers.
- Medical libraries, in particular, are positioned to play a pivotal role in augmenting research productivity and impact among the scholarly communities at the institute.

Thank you to our presenters!

Reminder:

MLA '24 In-Person Poster Session Monday, May 20th, at 1:30 pm PT

