

Alexandria Rayburn

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Education

- 2020-Present **Doctor of Philosophy in Information**, University of Michigan School of Information
Dissertation title: Women in Museum Computing: Implementing Transformative Data Practices in Collection Work
Committee chairs: Ricky Punzalan & Andrea Thomer
- 2018-2020 **Master of Science in Information**, University of Michigan School of Information
Concentration in Digital Curation, Graduate Certificate in Museum Studies
- 2013-2017 **Bachelor of Arts, Arts & Humanities**, *Cum Laude*, Michigan State University
Minors in Museum Studies and Geography

Funding and awards

- 2024 Rackham Fellowship for Doctoral Research in Museums
- 2024 Rackham Student Research Grant
- 2023, 2021 Rackham Travel Grant
- 2022 iConference 2022 Best Poster Award
- 2020-2021 University of Michigan School of Information Merit Fellowship
- 2019 Midwest Archives Conference 2019 Best Poster Award
- 2018-2020 University of Michigan School of Information Wallace J. Bonk Scholarship
- 2018-2020 University of Michigan School of Information Philip Berry Scholarship
- 2013-2017 Michigan State University Honors College

Publications

Journal articles

1. **Rayburn A**, Punzalan R, Thomer AK. (2024). Persisting through friction: growing a community-driven knowledge infrastructure. *Archival Science* (24): 61–82.
<https://doi.org/10.1007/s10502-023-09427-5>
2. Prosper S, **Rayburn A**, Ramirez Y, Punzalan RL. (2024). Indigenous Digital Projects: A Proposed Assessment Framework. *Journal of Information & Culture* 59(1): 66-96.
<https://doi.org/10.7560/IC59104>
3. Thomer AK, **Rayburn A**. (2023). “A Patchwork of Data Systems”: Quilting as an Analytic Lens and Stabilizing Practice for Knowledge Infrastructures. *Journal of Science, Technology, & Human Values*. <https://doi.org/10.1177/01622439231175535>

Book chapters

1. **Rayburn A**, Thomer, AK (2024). Reconstructing provenance in long-lived data systems: the challenge of paradata capture in memory institution collection databases. In: Huvila, I., Andersson, L., Sköld, O. (eds) *Perspectives on Paradata*.
https://doi.org/10.1007/978-3-031-53946-6_9

Refereed conference proceedings

1. Thomer AK, Starks JR, **Rayburn A**, Lenard M. (2022, November). Maintaining Repositories, Databases, and Digital Collections in Memory Institutions: An Integrative Review. Paper accepted for publication at *the 85th Annual Meeting of the Association for Information Science and Technology*. Pittsburgh, Pennsylvania. <https://doi.org/10.1002/pr2.755>
2. Thomer AK, **Rayburn A**, Tyler ARB. (2020, February). Three approaches to documenting database migrations. Presented at the *International Digital Curation Conference*. Dublin, Ireland. doi: 10.2218/ijdc.v15i1.726

Posters

1. Starks JR, **Rayburn A**, Lenard M, Thomer AK. (2022, March). What best practices exist to support database and digital collection migration? Poster presented at the Research Data Access and Preservation (RDAP) Association. Virtual. <https://osf.io/vxe3a/>
2. **Rayburn A**, Thomer AK. (2022, February). The Craft of Database Curation: Taking Cues from Quiltmaking. Poster presented in the *iConference proceedings 2022*. Virtual. <https://dx.doi.org/10.7302/4358>
3. **Rayburn A** (2021, October). Understanding the Role of Community Collaboration Within Indigenous Cultural Heritage Data Migrations. Poster presented at the *84th Annual Meeting of the Association for Information Science and Technology*. Salt Lake City, Utah. <https://doi.org/10.1002/pr2.571>
4. Tracey P, **Rayburn A**. (2021, October). Reddit as a Forum for Social Service Workers. Poster presented at the *84th Annual Meeting of the Association for Information Science and Technology*. Salt Lake City, UT. <https://doi.org/10.1002/pr2.58>
5. **Rayburn A**, Thomer AK. (2020, February). Reconstructing the development of legacy database platforms. Poster presented at the *International Digital Curation Conference*. Dublin, Ireland. <https://deepblue.lib.umich.edu/handle/2027.42/162598>
6. **Rayburn A**, Counts M, Sexton T, Patterson, R (2019, August). A Digital Look At Protest Culture In Ann Arbor, Michigan. Poster presented at the *83rd Annual Society of American Archivists Conference*. Austin, TX.
7. **Rayburn, A**, Counts, M, Sexton, T, Patterson, R (2019, April). A Historic Look at Protest Culture In Ann Arbor. Poster presented at the *Midwest Archives Conference*. Detroit, MI.

Workshop papers and doctoral colloquia

1. **Rayburn, A**. (2024, October). Women in Museum Computing: Implementing Transformative Data Practices in Collection Work. *87th Annual Meeting of the Association for Information Science and Technology*. Calgary, Alberta.

2. Thomer AK, **Rayburn A** (2022, May). Craft, data, and the material ethics of computing. Towards a Material Ethics of Computing Workshop. *ACM Conference on Human Factors in Computing Systems (CHI) 2022*. New Orleans, LA.
3. Thomer AK, Sciolla S, **Rayburn A**, Topham K, Lundering-Timpano M. (2019, June). Practical and meta-challenges in modeling database migrations: a case study of the MBGNA. Conceptual Models in Digital Libraries, Archives and Museums Workshop. *Annual Meeting of the Joint Conference of Digital Libraries*. Champaign, IL.
https://github.com/sig-cm/JCDL2019/blob/master/thomer_sigcm_19.pdf

Presentations and Panels

1. **Rayburn A** (2024, October). Women in museum computing: perspectives on transformative data. *Museum Computer Network (MCN) 2024*. Lawrence, KS.
2. **Rayburn A** (2024, October). Beyond data entry: women's contributions to museum knowledge work. *The Archival Education and Research Institute (AERI) 2024*. Abu Dhabi, UAE.
3. **Rayburn A** (2023, November). Challenges and coping strategies of museum data migrations: a multi-case study summary. *Museum Computer Network (MCN) 2023*. Philadelphia, PA.
4. **Rayburn A** (2023, June). Memory institutions as infrastructure: exploring the friction of maintenance. *The Archival Education and Research Institute (AERI) 2023*. Baton Rouge, LA.
5. **Rayburn, A** (2023, April). Innovative tech and invisible labor: lessons from early museum computing. *AI & Archives Symposium, Sussex Humanities Lab*. Sussex, UK.
6. Hodge C, Krmpotich C, Marsh D, Punzalan R, **Rayburn A**, Raymond S. (2021, November). A conversation on community-led databases: surveying methods of knowledge sovereignty. Roundtable at the *American Anthropological Association Annual Meeting (AAA)*. Baltimore, MD.
7. Tracey P, Huber L, Perry C, **Rayburn A** (2021, September). Theorizing care and the digital. Panel at the *34th Annual Meeting of the Society for Literature, Science and the Arts (SLSA2021)*. Ann Arbor, MI.

Teaching

- Fall 2024 **Lead Graduate Student Instructor**, University of Michigan School of Information
Introduction to Information Ethics: SI 302
- Winter 2024 **Graduate Student Instructor**, University of Michigan School of Information
Introduction to Information Ethics: SI 302
- Fall 2023 **Graduate Student Instructor**, University of Michigan School of Information
Winter 2023 Introduction to Information: SI 110
Fall 2022

Experience

- 2019-2022 **Graduate Student Research Assistant**, University of Michigan School of Information
Assisted Dr. Andrea Thomer on the Migrating Research Data Collection project (IMLS funded) developing best practices in data and database migration, specifically in museums and archives.
- 2021- 2022 **Archivist**, Graduate Employee Union (GEO) AFT Michigan 3550, AFL-CIO
Created a sustainable archival plan for this organization including arranging and classifying digital assets, creating procedures for a digital repository, and implementing a document retention schedule. Coordinated a record donation of analog material to a relevant archive.
- Summer 2019 **Research Assistant**, University of Michigan School of Information
Assisted Dr. Patricia Garcia on the project CompuGirls (IMLS and NSF funded), developing a culturally responsive model for teaching STEM in public libraries.
- Summer 2019 **Archive Intern**, Carhartt Corporate Archives
Reformatted thousands of metadata records. Processed accessions, which included rehousing and cataloging objects following a standardized protocol.
- 2018-2019 **Art Handler**, University of Michigan Museum of Art
Prepared, installed, and rehoused works of art for the use of visiting students and researchers of the museum.
- Fall 2018 **Reference Librarian**, Stephen S. Clark Library at the University of Michigan
Cataloged maps using Machine Readable Cataloging (MARC) standards along with assisting patrons.
- 2016-2018 **Collections Specialist**, Michigan State University Museum
Digitally archived material for The Quilt Index and the Michigan Stained Glass Census (NEH and IMLS funded).
- 2015-2016 **Library Conservation Technician**, Michigan State University Libraries
Prepared books in various states of distress under the supervision of the Special Collections conservation team.
- Summer 2015 **Research Intern**, Southern Food and Beverage Museum
Researched exhibit content and created permanent labels surrounding the cultural roots of southern food.

Service

- 2022-2024 Reviewer, iConference
2021 Reviewer, Computer Supported Cooperative Work (CSCW) 2022
2021 Reviewer, Archival Science
2020 Student Volunteer, International Conference on the History of Records and Archives
2019 Student Officer, Society of American Archivists University of Michigan Chapter