Emily Maemura
School of Information Sciences
University of Illinois Urbana-Champaign
614 E. Daniel St., Champaign IL 61820
Email: emaemura@illinois.edu

Academic Appointments

Assistant Professor, University of Illinois at Urbana Champaign, School of Information Sciences, 2022–Present

Librarian, Digital Strategy Research, Toronto Metropolitan University, 2020–2021

Librarian, Research Data Management Support and Liaison for the Faculty of Engineering and Architectural Science, Toronto Metropolitan University, 2019–2020

Teaching Assistant and Instructor, University of Toronto, Faculty of Information and Institute of Communication, Culture, Information and Technology, 2014–2021

Education

Ph.D., University of Toronto, Faculty of Information, 2021
Dissertation: *Data Here and There: Studying Web Archives Research Infrastructures in Danish and Canadian Settings*.
Committee: Patrick Keilty, Beth Coleman, Costis Dallas

Master of Information, University of Toronto, Faculty of Information, Specialization in Information Systems & Design, Collaborative Program in Knowledge Media Design, 2014

Bachelor of Architectural Studies, University of Waterloo, School of Architecture, 2007

Peer-reviewed Articles

Maemura, E. (2023). Sorting URLs out: Seeing the web through infrastructural inversion of archival crawling. *Internet Histories*, *7*(4), 386–401. doi:10.1080/24701475.2023.2258697

Maemura, E. (2023). All WARC and no playback: The materialities of data-centered web archives research. *Big Data & Society*, *10*(1), 20539517231163172. doi:10.1177/20539517231163172

Maemura, E. (2022). Towards an Infrastructural Description of Archived Web Data. *WARCnet Papers*.

Ogden, J., & Maemura, E. (2021). 'Go fish': Conceptualising the challenges of engaging national web archives for digital research. *International Journal of Digital Humanities*. doi:10.1007/s42803-021-00032-5.

Becker, C., Maemura, E., & Moles, N. (2020). The Design and Use of Assessment Frameworks in Digital Curation. *Journal of the Association for Information Science and Technology, 71*(1), 55–68.

Maemura, E., Worby, N., Milligan, I., & Becker, C. (2018). If These Crawls Could Talk: Studying and Documenting Web Archives Provenance. *Journal of the Association for Information Science and Technology, 69*(10), 1223–1233.

Maemura, E., Moles, N., & Becker, C. (2017). Organizational assessment frameworks for digital preservation: A literature review and mapping. *Journal of the Association for Information Science and Technology*, 68(7), 1619–1637.

Peer-reviewed Conference Proceedings (full paper reviewed)

Maemura, E. (2018). What's Cached is Prologue: Reviewing Web Archives Research Towards a Model for Scholarly Use. In *Proceedings of the 81st Annual Meeting of the Association for Information Science and Technology*, Vancouver, BC, November 2018.

Maemura, E., Becker, C., & Milligan, I. (2016). Understanding computational web archives research methods using research objects. In *Proceedings of the 2016 IEEE International Conference on Big Data (Big Data)*, Washington, DC, December 2016

Maemura, E., Moles, N., & Becker, C. (2015). A Survey of Organizational Assessment Frameworks in Digital Preservation. In *Proceedings of the 12th International Conference on Digital Preservation,* Chapel Hill, NC, November 2015.

Maemura, E., Turner, D., Perrie, J., Lyons, K., & Stroulia, E. (2014). GRAND Multidiciplinarity: The Way We Are. In *Proceedings of the 5th Annual Conference of the Graphics, Animation and New Media (GRAND) Network of Centres of Excellence*, Ottawa, ON, May 2014.

Refereed Abstract Presentations

Paßman, J., Gerzen, L., Schories, M., Ogden, J., Maemura, E. & Mackinnon, K. (2023). *Web Histories in the Making: Web Archives & the Logics of Practice*. Presentation at Association of Internet Researchers Conference, Philadelphia, PA, October 2023.

Maemura, E. & Byrne, H. (2023). *Describing Collections with Datasheets for Datasets*. Presentation at RESAW Conference, Marseille, France, June 2023.

Maemura, E. (2023). *Web archiving practices and the material logics of collection and discovery*. Presentation at RESAW Conference, Marseille, France, June 2023.

Maemura, E. (2022). *Developing Datasheets for Archived Web Datasets*. Presentation at WARCnet Closing Conference, Aarhus, Denmark, October 2022.

Mackinnon, K., Ogden, J., & Maemura, E. (2022). *'The promise of web archives': Reimagining web archiving for platform studies*. Participation in panel discussion at Reimagining Platforms, Edinburgh, UK, October 2022.

Maemura, E. (2021). *Data Practices And Sociotechnical Judgments Of Web Archives Infrastructures*. Presentation at 4S 2021, Toronto (online), October 2021.

Maemura, E. (2021). *Embracing Infrastructural Approaches in Web Archives Research*. Presentation at RESAW 2021, Luxembourg (online), June 2021.

Ogden, J., & Maemura, E. (2020). *A tale of two web archives: Challenges of engaging web archival infrastructures for research*. Presentation at DH2020, Ottawa, ON (online), July 2020.

Ogden, J., & Maemura, E. (2020). *A tale of two web archives: Challenges of engaging web archival infrastructures for research.* Presentation at Engaging with Web Archives: 'Opportunities, Challenges and Potentialities', (EWA20), Kildare, Ireland (online), September 2020.

Maemura, E., Worby, N., Becker, C., & Milligan, I. (2017). *Origin stories: Documentation for Web Archives Provenance*. Presented at the International Internet Preservation Consortium Web Archiving Conference, London, UK, June 2017.

Maemura, E. (2017). *How Web Archives are, are not, could be, and should be Archives*. Paper presented at the 9th annual Archival Education and Research Institute (AERI), Toronto, ON, July 2017.

Maemura, E., Price, M., Sands, A. (2017). *Challenges for Grassroots Web Archiving of Environmental Data*. Panel presentation at the Web Archiving and Digital Libraries Workshop at the ACM/IEEE Joint Conference on Digital Libraries, Toronto, ON, July 2017.

Maemura, E., Dearborn, D., Trimble, L., Gertler, M., & Becker, C. (2016). *Identifying RDM Drivers, Gaps and Opportunities: A Baseline Assessment*. Poster presented at the 11th International Digital Curation Conference (IDCC16), Amsterdam, the Netherlands.

Becker, C., Maemura, E., Duretec, K., Kulmukhametov, A., Rauber, A., Kulovits, H., Vieira, R., Cardoso, R., & Borbinha. J. (2015). *BenchmarkDP: Evidence for Digital Preservation*. Poster presented at the 10th International Digital Curation Conference, London, UK.

Invited Lectures

Co-presenter (with Helena Byrne, British Library) "AI ready library collections; the practicalities" JISC Webinar, February 2024.

Speaker, "Preserving and Analyzing Digital Texts." Online Symposium presented by the Andrew W. Mellon Society of Fellows in Critical Bibliography, Rare Book School, Charlottesville, VA (virtual), April 2023.

Speaker, "Researching Web Archives and the Materiality of Born-Networked Texts." Digital Humanities Brown Bag Lunch, Max Planck Institute for the History of Science (MPIWG), Berlin, Germany (virtual), April 2023.

Guest Lecturer, INFO6370: Records Management – Dalhousie University, School of Information Management, March 2022.

Keynote Speaker, "Towards an Infrastructural Description of Archived Web Data." WARCnet Meeting, Aarhus, Denmark (virtual), April 2021.

Panelist, "Making, Using, and Exploring Web Archives: Tales from Scholars & Practitioners." Web Archiving and Digital Libraries, a Virtual Workshop of the ACM/IEEE Joint Conference on Digital Libraries, Wuhan, Hubei, P.R. China, August 2020.

Speaker, "Doing Infrastructure Ethnography: exploring the logics and orders shaping web archives collections." iSchool, University of British Columbia, Vancouver BC, March 2019.

Guest Lecturer, CCT385H: An Introduction to Media Environments – University of Toronto, Institute of Communication, Culture, Information and Technology, February 2019.

Speaker, "Explorations of Netarkivet: Preliminary Findings." NetLab Forum, Aarhus University, Aarhus, Denmark, May 2018.

Speaker, "If These Crawls Could Talk: Studying and Documenting Web Archives Provenance." NetLab Forum, Aarhus University, Aarhus, Denmark, February 2018.

Speaker (with Christoph Becker & Ian Milligan) "How are Web Archives Made and Used? A Report and Discussion on Work in Progress at the Digital Curation Institute." Faculty of Information, University of Toronto, Toronto ON, February 2017.

Workshops and Colloquia

Co-organizer (with Helena Byrne, British Library) "Describing Collections with Datasheets for Datasets" Workshop at the IIPC Web Archiving Conference, Hilversum, the Netherlands, May 2023.

Participant, Collections as Data: State of the Field and Future Directions, Internet Archive Canada, Vancouver, BC, April 2023.

Participant, Early Career Colloquium at the iConference, Barcelona, Spain (virtual), March 2023.

Participant, Doctoral Colloquium at the Association for Information Science and Technology Annual Meeting, Vancouver, BC, November 2018.

Participant, Doctoral Colloquium at the Association of Internet Researchers Conference, Montreal, QC, October 2018.

Participant, McLuhan Centre PhD Summer Residency, Toronto, ON, July 2017.

Co-organizer (with Christoph Becker and Ian Milligan) "Data, process, and results: Connecting web archival research elements" workshop coordinated at the Researchers, Practitioners and the Archived Web Conference, University of London, London, UK, June 2017.

Participant, Archives Unleashed 4.0: Web Archives Datathon, British Library, London, UK, June 2017.

Co-organizer (with Dawn Walker) "Touring the Internet" workshop at the MidweSTS Graduate Student Workshop, Illinois Institute of Technology, Chicago, IL, September 2016.

Participant, Archives Unleashed 2.0: Web Archives Datathon, Library of Congress, Washington, D.C., June 2016.

Participant, Archives Unleashed Web Archives Datathon, University of Toronto, Toronto, ON, March 2016.

Participant, Digital Methods Initiative Summer School, University of Amsterdam, July 2015.

Advisory and Reference Groups

Expert Reference Group, BelgicaWeb Project, University of Ghent, 2023–2024

WARC School Development Working Group, Archiving the Black Web Project, Shift Collective
and The College of Wooster, October 2023–March 2024

Research Experience

Guest Researcher, NetLab, Aarhus University, Spring 2018
Conducted fieldwork for my doctoral dissertation hosted by NetLab and Dr. Niels Brügger.

Research Assistant, Digital Curation Institute, University of Toronto, 2014–2016
BenchmarkDP project (PI: Christoph Becker).

Research Assistant, GRAND Networks of Centres of Excellence, 2013–2014
Media Enabled Organizational Workflow (MEOW) project (supervised by Kelly Lyons).

Teaching

University of Illinois at Urbana-Champaign

Information Organization and Access, Spring 2024, Fall 2024
Online instruction, Required course for MSLIS graduate degree (average 40 students)

Digital Preservation, Fall 2023, Fall 2024
Online instruction, Elective course for MSLIS graduate degree (average 25 students)

Data Management, Curation and Reproducibility: Fall 2022, Spring 2023
*In-Person instruction, cross-listed undergraduate and graduate course, required for X+DS
undergraduate major (F22: 30 students; S23: 6 students)*

Independent Study, Fall 2022, Spring 2023
*Advised PhD student Yingying Han on the topic "Computational Approaches in Archives"
with the goal of producing an environmental scan*

University of Toronto

Course Instructor for Information Workshop "Research Data Curation" Winter 2021
Proposed and designed a new 6-week course; 2 sections of 25 master's students

Teaching Assistantships:
Online Information Retrieval (graduate course) Summer 2020
Information Systems, Services and Design (graduate course) Fall 2018, Summer 2019
Introduction to Information Systems (graduate course) Fall 2015
Data Modelling and Database Design (graduate course) Winter 2019
Digital Preservation and Curation (graduate course) Fall 2014, Fall 2017
Information Systems (undergraduate course) Winter 2019

PhD Student Supervision

Sydney Benning, Co-advisor (with Professor Emily Knox), 2023-Present
Chenyue Jiao, Committee Member for Field Exam, Fall 2022

Departmental Service at the University of Illinois at Urbana-Champaign

Member, Diversity Committee, 2024-25
Member, Doctoral Program Committee, 2023-24
Member, MSLIS/CAS Program Committee, 2022-23
Member, Data Science Task Force Member, 2022-23
Member, Digital Preservation Job Search Committee, 2022-23
Member, MSIM/Bioinformatics Program Committee, Spring 2022

Additional Service and Volunteer Activity

Member of Expert Reference Group, BelgicaWeb Project, University of Ghent, 2023–2024
Member of WARC School Development Working Group, Archiving the Black Web Project,
     Shift Collective and The College of Wooster, October 2023–August 2024
Mentor, AoIR Doctoral Colloquium 2023

Service in Conferences, Societies, and Councils

Member of the Program Committee, IIPC Web Archiving Conference, Oslo, Norway, 2025
Member of the Program Committee, RESAW Conference, Siegen, Netherlands, 2025
Member of the Program Committee, Born Digital Collections, Archives and Memory
       Conference, London, UK, 2025
Member of Scientific Committee, RESAW Conference, Marseille, France, 2023
Member of Scientific Committee, WARCnet Closing Conference, Aarhus, Denmark, 2022
Reviewer, Irish Research Council, Laureate Award 2022
Co-Chair Posters & Demos, ACM/IEEE Joint Conference on Digital Libraries, 2017
Doctoral Subcommittee, Archival Education and Research Institute, 2017

Editorial Service and Peer Review

Book Reviews Editor, *Internet Histories,* 2023–present
Peer reviewer for:
  Internet Histories: Digital Technology, Culture and Society
  Archives & Manuscripts (Journal of the Australian Society of Archivists)
  Journal of the Association for Information Science and Technology (JASIS&T)
  Archival Science: International Journal on Recorded Information
  iConference 2024, 2025
  Association of Internet Researchers Conference 2024

Grants

Social Science and Humanities Research Council of Canada Joseph-Armand Bombardier Canada Graduate Scholarship Doctoral Award, 2015–2018

Social Science and Humanities Research Council of Canada Michael Smith Foreign Study Supplement, 2018

University of Toronto Graduate Research Travel Grant, 2018

Awards & Honors

University of Toronto Faculty of Information Doctoral Completion Award, 2020

Beta Phi Mu Eugene Garfield Doctoral Dissertation Fellowship, 2019

Ontario Graduate Scholarship, 2014, 2018

ASIS&T Annual Meeting Mentorship Program Travel Award, 2018

IIPC Web Archiving Conference Student Travel Bursary, 2017

University of Toronto Faculty of Information PhD Conference Travel Award, 2017

Archives Unleashed Hackathon Travel Award, 2016

University of Toronto Faculty of Information PhD Conference Travel Award, 2015

University of Toronto Faculty of Information Fellowship, 2014–2018

Professional Affiliations

Association for Information Science and Technology (ASIS&T)

Association of Internet Researchers (AoIR)

Society for the Social Studies of Science (4S) (2020-2023)