

# IAN MILLIGAN

Professor of History · Fellow of the Royal Historical Society  
University of Waterloo

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## EDUCATION

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- 2012      **Doctor of Philosophy (History)**, York University  
2007      **Master of Arts in History**, York University  
2006      **Bachelor of Arts in History (Honours)**, Queen's University

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## ACADEMIC & ADMINISTRATIVE APPOINTMENTS

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- 2022–Present    **Associate Vice-President, Research Oversight & Integrity**, Office of Research, University of Waterloo. 80% administrative appointment; member of Executive Council. Responsible for campus-wide research integrity, ethics, and regulatory compliance.  
2022–Present    **Professor**, Department of History, University of Waterloo.  
2017–2022      **Associate Professor**, Department of History, University of Waterloo.  
2012–2017      **Assistant Professor**, Department of History, University of Waterloo.  
2012              **SSHRC Postdoctoral Fellow**, Department of History, Western University.

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## VISITING APPOINTMENTS

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- 2019              **Visiting International Scholar**, Lehrstuhl für Digital Humanities, University of Passau.  
2016–2017      **Marshall McLuhan Centenary Fellow**, Faculty of Information Studies, University of Toronto.

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## SCHOLARLY AWARDS

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- 2022              Elected Fellow of the Royal Historical Society.  
2021, 2014      Outstanding Performance Award, University of Waterloo.  
2020              Honourary Archivist Award, Association of Canadian Archivists.  
2019              Arts Excellence in Research Award, University of Waterloo.  
2016              Outstanding Early Career Award, Canadian Society for Digital Humanities.  
2015              *Rebel Youth* shortlisted for the Canadian Historical Association's Best Scholarly Book in Canadian History Prize.  
2013              "Mining the Internet Graveyard" awarded Best Article Prize, *Journal of the Canadian Historical Association*.

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## GRANTS

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\$2,861,294 CAD total; \$2,477,041 CAD as Principal Investigator.

**Social Sciences and Humanities Research Council (SSHRC)**, Insight Grant ("Digital Terror: The September 11th, 2001 Attacks Online"). PI: Ian Milligan. \$75,543 CAD. 2025–2029.

- SSHRC**, Connection Grant (“Building an Inter-Institutional and Cross-Functional Research Data Management Community: From Strategy to Implementation”). PI: Ian Milligan; Co-I: Alison Hitchens, Jennifer Abel. \$22,258 CAD. 2023–2024.
- Andrew W. Mellon Foundation** (“Integrating Archives Unleashed Cloud with Archive-It”). PI: Ian Milligan; Co-I: Jimmy Lin, Nick Ruest, Jefferson Bailey. \$1,084,087 CAD. 2020–2023.
- University of Waterloo AI Institute and Microsoft**, AI for Social Good Grant (“MANNERSS: Multilingual Adaptation for NER in the Social Sciences”). PI: Ian Milligan; Co-I: Jimmy Lin. \$25,000 CAD. 2020–2021.
- SSHRC**, Insight Grant (“Averting the Digital Dark Age: The Digital Preservation Movement, 1991–2001”). PI: Ian Milligan. \$97,602 CAD. 2020–2023.
- SSHRC**, Connection Grant (“Workshop on Quantitative Analysis and the Digital Turn in Historical Studies”). PI: Ian Milligan; Co-I: Chad Gaffield. \$11,779 CAD. 2018–2019.
- Institute of Museum and Library Services**, Laura Bush 21st Century Librarian Program (“Continuing Education to Advance Web Archiving”). PIs: Zhiwu Xie and Edward Fox; Partner: University of Waterloo Department of History. \$314,824 CAD. 2018–2020.
- Andrew W. Mellon Foundation** (“Archives Unleashed Project”). PI: Ian Milligan; Co-PIs: Nick Ruest and Jimmy Lin. \$610,625 CAD. 2017–2020.
- Microsoft Research**, Azure Research Award (“Web Archives for Longitudinal Knowledge”). PI: Ian Milligan. \$26,804 CAD. 2016–2017.
- Compute Canada**, Research Platforms and Portals (“Web Archives for Longitudinal Knowledge”). PI: Ian Milligan; Co-I: Nick Ruest. \$11,635 CAD. 2016–2019.
- Arts and Humanities Research Council (UK)** (“Born-Digital Data and Methods for History and the Humanities”). PI: Jane Winters; Partner: Ian Milligan. \$60,125 CAD. 2016–2017.
- SSHRC**, Connection Grant (“Unlock Your Web Archives Hackathon”). PI: Ian Milligan; Co-Is: Jimmy Lin, Matthew Weber, Nathalie Casemajor, Nicholas Worby. \$23,715 CAD. 2015–2016.
- SSHRC**, Insight Grant (“A Longitudinal Analysis of the Canadian World Wide Web as a Historical Resource, 1996–2014”). PI: Ian Milligan; Co-Is: Nick Ruest, William Turkel. \$257,541 CAD. 2015–2020.
- Ontario Ministry of Research and Innovation**, Early Researcher Award (“A Longitudinal Analysis of the Canadian World Wide Web as a Historical Resource, 1996–2014”). PI: Ian Milligan. \$150,000 CAD. 2015–2020.
- SSHRC**, Connection Grant (“New Directions in Active History: Institutions, Communication, and Technologies”). PI: Thomas Peace; Co-I: Ian Milligan et al.. \$19,304 CAD. 2015–2016.
- SSHRC**, Insight Development Grant (“An Infinite Archive?”). PI: Ian Milligan; Co-I: William Turkel. \$74,952 CAD. 2013–2015.
- University of Waterloo/SSHRC**, Institutional Seed Grant. PI: Ian Milligan. \$5,500 CAD. 2013–2015.

### Private-Sector Funding

- Start Smart Labs**, Gift Agreement to the Internet Archive, \$30,000 USD. Researchers: Jefferson Bailey, Ian Milligan, and Jimmy Lin. 2020–2023.
- Start Smart Labs**, Gift Agreement to the University of Waterloo, \$90,000 USD. Researchers: Ian Milligan and Jimmy Lin. 2018–2020.

## PUBLICATIONS

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*H-Index: 21; i10-Index: 38; 2,257 citations (Google Scholar, September 2025).*

### Books and Edited Collections

- Ian Milligan**, *Averting the Digital Dark Age: How Archivists, Librarians, and Technologists Built the Web a Memory*. Baltimore: Johns Hopkins University Press, 2024.
- Ian Milligan**, *The Transformation of Historical Research in the Digital Age*. Cambridge: Cambridge University Press, 2022. Cambridge Elements Historical Theory and Practice series.
- Ian Milligan**, *History in the Age of Abundance? How the Web is Transforming Historical Research*. Montreal & Kingston: McGill-Queen’s University Press, 2019.

*Subject of a roundtable in the American Historical Review (October 2020).*

Niels Brügger and **Ian Milligan**, eds. *SAGE Handbook of Web History*. London: SAGE, 2018.

Shawn Graham, **Ian Milligan**, and Scott Weingart, *Exploring Big Historical Data: The Historian's Macroscope*. London: Imperial College Press, 2016.

*Second edition released 2022 (World Scientific), with Kim Martin as additional author.*

**Ian Milligan**, *Rebel Youth: 1960s Labour Unrest, Young Workers, and New Leftists in English Canada*. Vancouver: UBC Press, 2014.

*Shortlisted for the 2015 CHA Best Scholarly Book in Canadian History Prize.*

### Peer-Reviewed Journal Articles

**Ian Milligan**. "From Policy to Practice: The Evolution of SSHRC Application Processes, 1979–Present," *Historical Studies in Education/Revue d'histoire De l'éducation* 36.1 (2024): 66–86.

Nick Ruest, Samantha Fritz, and **Ian Milligan**. "Creating Order from the Mess: Web Archive Derivative Datasets and Notebooks," *Archives and Records* vol. 43, no. 3 (2022): 316–331.

Esyllt W. Jones, Shelley Sweeney, **Ian Milligan**, Greg Bak, and Jo-Anne McCutcheon. "Remembering is a form of Honouring: Preserving the COVID-19 Archival Record," *FACETS* vol. 6, no. 1 (April 2021): 545–568.

Samantha Fritz, **Ian Milligan**, Nick Ruest, and Jimmy Lin. "Fostering Community Engagement through Datathon Events: The Archives Unleashed Experience," *Digital Humanities Quarterly* vol. 15, no. 1 (2021).

Nick Ruest, Samantha Fritz, Ryan Deschamps, Jimmy Lin, and **Ian Milligan**. "From Archive to Analysis: Accessing Web Archives at Scale through a Cloud-Based Interface," *International Journal of Digital Humanities* vol. 2 (2021): 5–24.

**Ian Milligan**. "We Are All Digital Now: Digital Photography and the Reshaping of Historical Practice," *Canadian Historical Review* vol. 101, no. 4 (December 2020): 602–621.

Samantha Fritz, **Ian Milligan**, Nick Ruest, and Jimmy Lin. "Building Community at a Distance: A Datathon During COVID-19," *Digital Library Perspectives* vol. 36, issue 4 (December 2020): 415–428.

Emily Maemura, Nicholas Worby, **Ian Milligan**, and Christoph Becker. "If These Crawls Could Talk: Studying and Documenting Web Archives Provenance," *Journal of the Association for Information Science and Technology* vol. 69, issue 10 (October 2018): 1223–1233.

Gabriel A. Devenyi, Rémi Emonet, Rayna M. Harris, Kate L. Hertweck, Damien Irving, **Ian Milligan**, Greg Wilson. "Ten Simple Rules for Collaborative Lesson Development," *PLOS Computational Biology* vol. 14, no. 3 (March 2018): e1005963.

Jimmy Lin, **Ian Milligan**, Jeremy Wiebe, and Alice Zhou. "Warcbase: Scalable Analytics Infrastructure for Exploring Web Archives," *ACM Journal of Computing and Cultural Heritage* vol. 10, issue 4 (July 2017): 22:1–22:30.

**Ian Milligan**. "Lost in the Infinite Archive: The Promise and Pitfalls of Web Archives," *International Journal of Humanities and Arts Computing* vol. 10, no. 1–2 (2016): 78–94.

**Ian Milligan**, Nick Ruest, and Anna St-Onge. "The Great WARC Adventure: Using SIPS, AIPS and DIPS to document SLAAPs," *Digital Studies / Le champ numérique* vol. 6 (2016).

**Ian Milligan**. "A Haven for Perverts, Criminals, and Goons?: Children and the Battle for and Against Canadian Internet Regulation, 1991–1999," *Histoire Sociale/Social History* vol. 47, no. 96 (May 2015): 245–274.

**Ian Milligan**. "Illusionary Order: Online Databases and the Changing Foundation of Canadian Historiography, 1997–2010," *Canadian Historical Review* vol. 94, no. 4 (December 2013): 540–569.

**Ian Milligan**. "Mining the 'Internet Graveyard': Rethinking the Historians' Toolkit," *Journal of the Canadian Historical Association* vol. 23, no. 2 (Spring/Summer 2013): 21–64.

*Winner of the 2013 JCHA Best Article Prize.*

**Ian Milligan**. "Coming off the Mountain: Forging an Outward Looking New Left at Simon Fraser University," *BC Studies: The British Columbian Quarterly* vol. 171 (Autumn 2011): 69–91.

**Ian Milligan**. "'This Board Has a Duty to Intervene,' Challenging the Spadina Expressway Through the Ontario Municipal Board, 1963–1971," *Urban History Review/Revue d'histoire urbaine* vol. 39, no. 2 (Spring 2011): 25–37.

**Ian Milligan**. "'The Force of All Our Numbers': New Leftists, Labour, and the 1973 Artistic Woodwork Strike," *Labour/Le Travail* 66 (Fall 2010): 37–71.

**Ian Milligan**. "Sedition in Wartime Ontario: The Trials and Imprisonment of Isaac Bainbridge, 1917–1918," *Ontario History* vol. 100, no. 2 (Autumn 2008): 150–177.

## Peer-Reviewed Conference Publications

- Helge Holzmann, Nick Ruest, Jefferson Bailey, Alex Dempsey, Samantha Fritz, Peggy Lee, and **Ian Milligan**. “ABCDEF: the 6 key features behind scalable, multi-tenant web archive processing with ARCH.” *Proceedings of the 22nd ACM/IEEE Joint Conference on Digital Libraries* (2022): 1–11.
- Nick Ruest, Jimmy Lin, **Ian Milligan**, and Samantha Fritz. “The Archives Unleashed Project: Technology, Process, and Community to Improve Scholarly Access to Web Archives.” *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries* (2020): 157–166.
- Jimmy Lin, **Ian Milligan**, Douglas W. Oard, Nick Ruest, and Katie Shilton. “We Could, but Should We? Ethical Considerations for Providing Access to GeoCities and Other Historical Digital Collections.” *Proceedings of the ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR)* (2020): 135–144.
- Ryan Deschamps, Samantha Fritz, Jimmy Lin, **Ian Milligan**, and Nick Ruest. “The Cost of a WARC: Analyzing Web Archives in the Cloud.” *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries* (2019): 261–264.
- Ian Milligan**, Nathalie Casemajor, Samantha Fritz, Jimmy Lin, Nick Ruest, Matthew S. Weber, and Nicholas Worry. “Building Community and Tools for Analyzing Web Archives through Datathons.” *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries* (2019): 265–268.
- Emily Maemura, Christoph Becker, and **Ian Milligan**. “Understanding Computational Web Archives Research Methods Using Research Objects,” *IEEE Big Data Workshop in Computational Archival Science* (December 2016): 3250–3259.
- Ian Milligan**, Nick Ruest, and Jimmy Lin. “Content Selection and Curation for Web Archiving: The Gatekeepers vs. the Masses,” *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries* (2016): 107–110.
- Andrew Jackson, Jimmy Lin, **Ian Milligan**, and Nick Ruest. “Desiderata for Exploratory Search Interfaces to Web Archives in Support of Scholarly Activities,” *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries* (2016): 103–106.

## Peer-Reviewed Book Chapters

- Ian Milligan**. “How to Use Digital Tools: Data Mining,” in *Adam Matthew Digital: Research Methods, Primary Sources* (Adam Matthew Digital, 2021). Online resource.
- Ian Milligan** and Tom J. Smyth. “Studying the Web in the Shadow of Uncle Sam: The Case of the .ca Domain,” in *The Historical Web and Digital Humanities*, eds. Niels Brügger and Ditte Laursen (London: Routledge, 2018): 45–63.
- Ian Milligan**. “Learning to ‘See’ the Past at Scale: Exploring Web Archives through Hundreds of Thousands of Images,” in *Seeing the Past with Computers*, eds. Kevin Kee and Timothy Compeau (Ann Arbor: University of Michigan Press, 2018): 116–136.
- Ian Milligan**. “Historiography and the Web,” in *SAGE Handbook of Web History*, eds. Niels Brügger and Ian Milligan (London: SAGE, 2018): 3–15.
- Ian Milligan**. “Exploring Web Archives in the Age of Abundance: The Case of GeoCities,” in *SAGE Handbook of Web History*, eds. Niels Brügger and Ian Milligan (London: SAGE, 2018): 344–358.
- Ian Milligan** and Robert Warren. “Big Data and the Coming Historical Revolution: From Black Boxes to Models,” in *Big Data in the Arts and Humanities*, eds. Giovanni and Daniela Carlucci (Boca Raton: CRC Press, 2018): 65–76.
- Ian Milligan**. “Welcome to the Web: The Online Community of GeoCities During the Early Years of the World Wide Web,” in *The Web as History*, eds. Niels Brügger and Ralph Schroeder (London: UCL Press, 2017): 137–158.
- William J. Turkel and **Ian Milligan**. “The Challenge of ‘High-Throughput’ Computational Methods,” in *From Big Bang to Global Civilization: A Big History Anthology*, eds. Barry Rodrigue, Leonid Grinin, and Andrey Korotayev (New Delhi: Primus Books, 2015): 145–157.

## Book and Software Reviews

- Review of Kevin Driscoll, *Modem World: A Prehistory of Social Media* (New Haven: Yale University Press, 2022) in *Technology and Culture* vol. 64, no. 3 (2023): 1000–1001.
- Review of Mauricio Tenorio-Trillo, trans. Mary Ellen Fieweger, *Clio’s Laws: On History and Language* (Austin: University of Texas Press) in *American Historical Review* vol. 127, issue 3 (September 2022): 1485–1486.
- “Taking Quantitative Social Science History Out of the Silo.” Featured Review of Adam Crymble, *Technology and the Historian: Transformations in the Digital Age* (Champaign: University of Illinois Press, 2021) in *American Historical Review* vol. 127, issue 1 (March 2022): 459–461.
- Review of Joel Belliveau, *In the Spirit of 68: Youth Culture, the New Left, and the Reimagining of Acadia*, trans. Käthe Roth (Vancouver: UBC Press, 2019) in *Journal of New Brunswick Studies* vol. 12 (2020).

- Review of Dennis G. Molinaro, *An Exceptional Law: Section 98 and the Emergency State, 1919–1936* (Toronto: University of Toronto Press, 2017) in *University of Toronto Quarterly* vol. 88, no. 3 (Summer 2019).
- Review of Lara Campbell, Dominique Clément, and Gregory S. Kealey, eds., *Debating Dissent: Canada and the Sixties* (Toronto: University of Toronto Press, 2012) in *Canadian Historical Review* vol. 94, no. 4 (December 2013).
- Review of Benjamin Isitt, *Militant Minority: British Columbia Workers and the Rise of a New Left, 1948–1972* (Toronto: University of Toronto Press, 2011) in *Histoire Sociale/Social History* vol. 46, no. 92 (November 2013).
- (With Shawn Graham) Review: “MACHINE Learning for Language Toolkit (MALLET),” in *Journal of Digital Humanities* vol. 2, no. 1 (Spring 2013).
- Review: “The Alberta Federation of Labour’s Centennial Website: A Fantastic Resource (if you can find it),” in *Oral History Forum/Forum d’histoire orale* 33 (2013).
- Review of Jefferson Cowie, *Stayin’ Alive: The 1970s and the Last Days of the Working Class* (New York: New Press, 2010) in *Labour/Le Travail* 69 (Spring 2012): 235–237.
- Review of Paul Mason, *Live Working or Die Fighting: How the Working Class Went Global* (Chicago: Haymarket Books, 2010) in *Labor History* 52.3 (September 2011): 361–363.
- Review of James Pitsula, *New World Dawning: The Sixties at Regina Campus* (Regina: Canadian Plains Research Centre, 2008) in *Canadian Historical Review* 90:4 (December 2009): 818–820.
- Review of Ian McKay, *Reasoning Otherwise: Leftists and the People’s Enlightenment in Canada, 1890–1920* (Toronto: Between the Lines, 2008), *H-Canada*. February 2009.

### Non-Peer-Reviewed Professional Contributions

- Ian Milligan.** “Elon Musk’s buyout of Twitter has placed its user-generated archives in danger,” *The Conversation*, November 2022.
- Ian Milligan.** “How Can We Be Ready to Study History in the Age of Abundance? A response,” *American Historical Review* vol. 125, issue 4 (October 2020): 1347–1349.
- Esyllt Jones, **Ian Milligan**, and Shelley Sweeney. “Will Covid-19 become the 21st century’s forgotten pandemic?” *Globe and Mail*, 5 October 2020.
- Ian Milligan.** “La historia en la era de la abundancia: archivos web e investigación histórica,” *Historia Y Memoria*, Special 10th Anniversary Edition, 2020.
- Ian Milligan.** “2020 is a year for the history books, but not without digital archives,” *The Conversation*, September 2020.
- Ian Milligan.** “Interdisciplinary scholarship needs to be normalized within professions,” *University Affairs*, August 2020.
- Ian Milligan.** “Don’t despair if your teen wants to major in history instead of science,” *The Conversation*, November 2019.
- Ian Milligan.** “Historians’ archival research looks quite different in the digital age,” *The Conversation*, August 2019.
- Ian Milligan.** “Getting Ready to Study the Age of Abundance,” *Canadian Issues/Thèmes Canadiens*, Fall/Winter 2018: 36–39.
- Ian Milligan.** “The Problem of History in the Age of Abundance,” *The Chronicle of Higher Education*, December 2016.
- Nick Ruest and **Ian Milligan.** “An Open-Source Strategy for Documenting Events: The Case Study of the 42nd Canadian Federal Election on Twitter,” *Code4Lib* 32 (April 2016).
- Ian Milligan.** “Open Data’s Potential for Political History,” *Canadian Parliamentary Review* vol. 37, no. 4 (2014).
- Shawn Graham, **Ian Milligan**, and Scott Weingart. “Writing The Historian’s Macroscopic in Public,” *Perspectives on History (American Historical Association)*, October 2014.
- Ian Milligan.** “Does History Matter?” *Literary Review of Canada*, May 2014.
- Ian Milligan.** “Exploring the Web Through the Programming Historian,” *Canadian Historical Association Bulletin*, October 2013.
- Ian Milligan.** “Archives: Preserve Our Digital Heritage,” *Nature* 497 (16 May 2013).

### INVITED KEYNOTES

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- 2025 “Exploring Digital Terror: Using the September 11 Digital Archive for Historical Research,” Real-Time History: Engaging with Living Archives and Temporal Multiplicities, Washington DC. March 2025.

- 2023 “Interpreting the Web: The Critical Role of Historical Context in Web Archival Research,” *Le Web: Source et Archive*, Lille, France. April 2023.
- 2022 “The Transformation of Historical Research in the Digital Age,” 5th Digital History in Sweden Conference, Lund, Sweden. November 2022.
- 2021 “Digitized Newspapers as Everyday Interdisciplinarity: The Transformation of Historical Scholarship,” NewsEye Conference, Paris, France. March 2021. (Delivered remotely)
- 2021 “The Transformation of History in the Digital Age,” Queen’s University Nugent Lecture, Kingston, ON. February 2021. (Delivered remotely)
- 2020 “You Shouldn’t Need to be a Web Historian to Use Web Archives,” WARCNet, Aarhus, Denmark. April 2020. (Delivered remotely)
- 2019 “Working with Cultural Heritage at Scale,” Featured Talk at LaTeCH-CLFL 2019 (part of NAACL 2019), Minneapolis, MN. June 2019.
- 2018 “From Archiving to Analysis: Current Trends and Future Developments in Web Archive Use,” *Archiving the Web?*, Hilversum, Netherlands. October 2018.
- 2018 “Web Archives and History,” Association of Canadian Archivists Annual Meeting, Edmonton, AB. June 2018.
- 2018 “Big Data and History,” SFU Library Love Your Data Week, Simon Fraser University, Burnaby, BC. February 2018.
- 2017 “Learning to Collaborate (or why you should hang out with librarians),” Digital Pedagogy Institute, Brock University, St. Catharines, ON. August 2017.
- 2016 “Archives Unleashed: Unlocking Born-Digital Sources through Interdisciplinary Collaboration,” Canadian Society for Digital Humanities, Calgary, AB. May 2016.
- 2015 “Lost in the Infinite Archive?,” Web Archives 2015, University of Michigan, Ann Arbor, MI. November 2015.
- 2013 “Preparing for the Infinite Archive: Social Historians and the Digital Deluge,” Tri-University History Conference, University of Guelph, Guelph, ON. March 2013.

## INVITED LECTURES AND WORKSHOPS

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- 2026 “AI and Historical Research: Evidence and Argument in the Age of Generated Text,” Canadian Historical Association Webinar. February 2026.
- 2025 “From Inbox to Archives: Reading 9/11’s Digital Traces,” Invited Lecture, UBC Department of Educational Studies. November 2025.
- 2024 “Learning and Researching with AI: Engaging Critically as Individuals and Society,” Enoch Turner Schoolhouse Foundation, Toronto. May 2024.
- 2022 “Historians and Data Management,” Nouvelle France Summer School, Rimouski, Quebec. June 2022.
- 2021 “From Archives to Servers: How the Internet has Transformed Historical Scholarship,” Oxford Internet Institute Weekly Wednesday Webinars, Oxford University. (Virtual) April 2021.
- 2021 “What Can We Do to Ensure Historians Do Not Fall into the Digital Dark Age,” “Big Data and the Historian’s Craft” Roundtable, Lingnan University, Seoul National University, and Columbia University. (Virtual) February 2021.
- 2021 “From Engagement to Retreat? Historians and Digital Preservation, 1968–2003,” UCLDH Seminar Series, University College London. (Virtual) January 2021.
- 2020 “The Archives Unleashed Project: Lowering Barriers to Access through Community and Infrastructure,” DHLunch@GS, University of Texas, Austin. (Virtual) November 2020.
- 2020 “La historia en la era de la abundancia,” “The Historiographical Experience,” Universidad Pedagógica y Tecnológica de Colombia. (Virtual) October 2020.
- 2020 “History in the Age of Abundance: Skills, Tools, and Methods for the 21st-Century Historian,” York University Department of History. January 2020.
- 2017 “Capturing the Web Today for Tomorrow,” (with Nick Ruest) York University Libraries, Toronto, ON. March 2017.

- 2017 “Web Scraping and Digital History,” AHA Getting Started in Digital History, Denver, CO. January 2017.
- 2016 “Making Sense of Web Archives,” Library of Congress, Washington, DC. June 2016.
- 2016 “Historians and the Impending Big Data Deluge,” National Endowment for the Humanities, Washington, DC. June 2016.
- 2016 “Walking the WALK,” (with Nick Ruest) University of Alberta, Edmonton, AB. June 2016.
- 2016 “Web Archives and are Reshaping Today’s Historical Record,” University of Saskatchewan, Saskatoon, SK. March 2016.
- 2016 “The Digital Humanities and Born-Digital Sources,” Georgetown University, Washington, DC. February 2016.
- 2016 “Big Data and History: Seeing the Past through a Macroscopic,” Danish Society for Research in Contemporary History, Copenhagen. January 2016.
- 2015 “Web Histories and Web Archives,” Government Information Day, Waterloo, ON. December 2015.
- 2015 “The Challenge of Digital Sources in the Web Age,” Digital Curation Institute, University of Toronto. October 2015.
- 2015 “Between Content and Metadata,” British Library, London. October 2015.
- 2015 “The Challenge of Digital Sources in the Web Age,” Digital History Seminar, Institute for Historical Research, London, UK. September 2015.
- 2015 “Welcome to the GeoHood,” Centre for Internet Studies, Aarhus, Denmark. September 2015.
- 2015 “Accessing Historical Data En Masse,” Massachusetts Institute of Technology, Cambridge, MA. January 2015.
- 2014 “Big Data and History,” Acadia Institute for Data Analytics, Acadia University, Wolfville, NS. November 2014.
- 2014 “Historians and the Web,” Big Data in the SSHRC Disciplines, Western University, London, ON. March 2014.
- 2014 “Historians and the Web: Challenges and Potentials,” DigiCafe Series, University of Guelph. March 2014.

## CONFERENCE PRESENTATIONS

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- 2025 “Mining Digital Terror: A Case Study in Using September 11 Web Archives as Data,” RESAW 2025, Siegen, Germany. May 2025.
- 2025 “A Digital History of 9/11: Expanding the Historiography of the September 11th Attacks through Born-Digital Records,” BDCAM25: Born-Digital Collections, Archives, and Memory, London, UK. April 2025.
- 2025 “AI and Research Integrity in Canada: Navigating New Frontiers,” AI-Academy: Canada Summit for Post-Secondary Education, Calgary, AB. March 2025.
- 2024 “Well Documented Terror: Navigating the Digital Records of the September 11th Attacks,” Computational Humanities 2024, Aarhus, Denmark. December 2024. Lightning talk.
- 2024 “Averting the ‘Digital Dark Age’: The Digital Preservation Moment and the Birth of Modern Web Archiving, 1994–1996,” IIPC Web Archiving Conference, Paris, France. April 2024.
- 2024 “Epistemic Virtues and the Shaping of Canadian Digital Humanities: The role of a Federal Funding Agency,” Exploring Epistemic Virtues and Vices Conference, Luxembourg. March 2024.
- 2023 “Web Archiving Comes of Age: Averting the Digital Dark Age of September 11th, 2001,” RESAW 2023: Exploring the Archived Web During a Highly Transformative Age, Marseille, France. June 2023.
- 2023 “Research Data Management and Historians,” Canadian Historical Association Annual Meeting, Toronto, ON. May 2023.
- 2022 “The Archives Unleashed Project,” Wanted: Social Media Data Conference. (Virtual) September 2022.
- 2022 Ian Milligan, Nick Ruest, and Samantha Fritz. “Build: The Archives Research Compute Hub from Idea to Platform,” International Internet Preservation Consortium. (Virtual) May 2022.

- 2021 “The National Library of Canada’s Electronic Publication Pilot Project and its Enduring Contribution to Web Archiving,” *Between Postwar and Present Day Canada*. (Virtual) May 2021.
- 2021 “We Are All Digital Now: The (Needed) Transformation of Historical Thinking,” *American Historical Association Webinar Series*. February 2021.
- 2020 “Integrating the Archives Unleashed Cloud with Archive-It,” *Archive-It Annual Partner Meeting*. (Virtual) October 2020.
- 2020 “Becoming a Desk(top) Profession: Digital Photography and the Changing Landscape of Archival Research,” *American Historical Association*, New York, NY. January 2020.
- 2019 Nick Ruest and Ian Milligan. “Lowering the Barrier to Access: The Archives Unleashed and Cloud Project,” *The Web that Was Conference*, Amsterdam, Netherlands. June 2019.
- 2019 Nick Ruest and Ian Milligan. “Web Archives Analysis at Scale with the Archives Unleashed Cloud,” *Coalition for Networked Information*, St. Louis, MO. April 2019.
- 2018 “Opening up WARC’s: The Archives Unleashed Toolkit and Cloud Projects,” *International Internet Preservation Consortium*, Wellington, New Zealand. November 2018.
- 2018 “The Ethics of Studying GeoCities,” *Ethics and the Archived Web*, New York, NY. February 2018.
- 2018 “Too Much Information: Transparency, Metadata, and Search in the Age of Web Archives,” *American Historical Association*, Washington, DC. January 2018.
- 2017 “Researcher Access for Web Archives: Our Experiences,” *Mid-Atlantic Regional Archives Conference*, Buffalo, NY. October 2017.
- 2017 Ziquan Wang, Borui Lin, Ian Milligan, and Jimmy Lin. “Topic Shifts Between Two US Presidential Administrations,” *Web Archives and Digital Libraries*, Toronto, ON. June 2017.
- 2017 Emily Maemura, Nicholas Worby, Christoph Becker, and Ian Milligan. “Origin Stories: Documentation for Web Archives Provenance,” *International Internet Preservation Consortium/RESAW*, London, England. June 2017.
- 2017 “Pages by Kids, for Kids’: Unlocking Childhood and Youth History through the GeoCities Web Archive,” *International Internet Preservation Consortium/RESAW*, London, England. June 2017.
- 2017 Nick Ruest and Ian Milligan. “Learning to WALK (Web Archives for Longitudinal Knowledge),” *International Internet Preservation Consortium/RESAW*, London, England. June 2017.
- 2017 Ian Milligan and Nick Ruest. “Building a National Web Archiving Collaborative Platform,” *Canadian Society for Digital Humanities*, Toronto, ON. May 2017.
- 2017 “Are we Ready to Write the History of the 1990s?” *Canadian Historical Association*, Toronto, ON. May 2017.
- 2017 “Collaborative Digital History: Working with Librarians and Computer Scientists,” *American Historical Association*, Denver, CO. January 2017.
- 2016 Ian Milligan, Jimmy Lin, Jeremy Wiebe, and Alice Zhou. “Exploring and Discovering Archive-It Collections with Warcbase,” *Digital Humanities 2016*, Krakow, Poland. July 2016.
- 2016 Ian Milligan and Nick Ruest. “Enabling Access to Canadian Archival Collections through WebArchives.ca,” *Canadian Society for Digital Humanities*, Calgary, AB. June 2016.
- 2016 Nick Ruest and Ian Milligan. “An exploratory look at 3,039,804 #elxn42 tweets,” *International Internet Preservation Consortium Web Archiving 2016*, Reykjavik, Iceland. April 2016.
- 2016 Matthew Weber and Ian Milligan. “Archives Unleashed: Hackathons as a Tool for Engaging Scholars with Web Archives,” *International Internet Preservation Consortium Web Archiving 2016*, Reykjavik, Iceland. April 2016.
- 2016 Nick Ruest and Ian Milligan. “Enabling Access to Old Wu-Tang Clan Fan Sites: Facilitating Interdisciplinary Web Archive Collaboration,” *Code4Lib 2016*, Philadelphia, PA. March 2016.
- 2016 “Making Sense of the Web: Finding Community in the GeoCities Web Archives,” *American Historical Association*, Atlanta, GA. January 2016.
- 2015 “Understanding early Web history through three case studies: methodological and technical challenges,” *Times and Temporalities of the Web conference*, Institut des sciences de la communication, Paris, France. December 2015.

- 2015 Ian Milligan, Jimmy Lin, and Jeremy Wiebe. “Between Metadata and Content: Exploring Canadian Political History with Archive-It’s Research Services,” Web Archives 2015: Capture, Curate, Analyze, University of Michigan, Ann Arbor, MI. November 2015.
- 2015 Jimmy Lin and Ian Milligan. “Warebase: Building a Scalable Platform on HBase and Hadoop,” Web Archiving Collaboration: New Tools and Methods, Columbia University, New York, NY. June 2015.
- 2015 “Welcome to the GeoHood: Using the GeoCities Web Archive to Explore Virtual Communities,” Web Archives as Scholarly Sources: Issues, Practices, and Perspectives, Aarhus, Denmark. June 2015.
- 2015 “WARCs, WATs, and wgets: Opportunity and Challenge for a Historian Amongst Three Types of Web Archives,” International Internet Preservation Committee, Palo Alto, CA. April 2015.
- 2015 “The Promise of WebARChive Files: Exploring the Internet Archive as a Historical Resource,” American Historical Association, New York City, NY. January 2015.
- 2014 “Clustering Search to Navigate A Case Study of the Canadian World Wide Web as a Historical Resource,” Digital Humanities 2014, Lausanne, Switzerland. July 2014.
- 2014 Ian Milligan and Nick Ruest. “The Great WARC Adventure: WARCs from Creation to Use,” Canadian Archivists Association, Victoria, BC. June 2014.
- 2014 “A Haven for Perverts, Criminals, and Goons?: Children and the Battle for Canadian Internet Regulation, 1991–1999,” Canadian Historical Association Annual Meeting, Brock University, St. Catharines, ON. May 2014.
- 2014 “An Infinite Archive? Developing ‘HistoryCrawler’ to Explore the Internet Archive as a Historical Resource,” International Internet Preservation Committee Annual Meeting, Paris, France. May 2014.
- 2013 “Rethinking the Archival Box,” (Digital) Humanities Revisited – Challenges and Opportunities in the Digital Age, Hanover, Germany. December 2013.
- 2013 “The Internet Archive and Social Historians: Challenge and Potential Amidst the WebARChive Files,” Canadian Historical Association Annual Meeting, University of Victoria, Victoria, BC. June 2013.
- 2012 “Public History and the University: Opportunities and Challenges,” Public History and the University Conference, York University, Toronto, ON. November 2012.
- 2012 “Mining the ‘Internet Graveyard’: Exploring Canada’s Digital Collections Projects,” Canadian Historical Association Annual Meeting, University of Waterloo and Wilfrid Laurier University, Waterloo, ON. May 2012.
- 2012 “Embracing the ‘Big History’ Shift: Social Historians and Digital History,” Cultural Historiography: Emergent Themes and Methods, University of Guelph, Guelph, ON. March 2012.
- 2011 “Youth Revolt: Class and Radicalism in English Canada’s Baby Boom Generation,” Society for the History of Children and Youth Biennial Meeting, Columbia University, New York City, NY. June 2011.
- 2011 “‘The Cry of Youth’: Class, Radicalism, and the Challenging of the Golden Age,” Canadian Historical Association Annual Meeting, University of New Brunswick, Fredericton, NB. May–June 2011.
- 2010 “Searching for Allies: The English-Canadian New Left and Broader Community Coalitions, 1968–1973,” Two Days of Canada Conference: ‘The Sixties: Canadian Style,’ Brock University, St. Catharines, ON. November 2010.
- 2010 “Towards a New Proletariat: Debating Class and Social Change Within the English-Canadian Student New Left,” Canadian History of Education Association Biannual Meeting, Toronto, ON. October 2010.
- 2010 “Growing Up on the Line: New Leftists, Youth, and Labour at the Artistic Woodwork Strike, 1973,” Canadian Historical Association Annual Meeting, Concordia University, Montreal, QC. June 2010.
- 2009 “From the Quad to the Picket Line: Towards a Labour History of the Long Sixties,” Writing the Sixties: A Practical Symposium, Carleton University, Ottawa, ON. November 2009.
- 2008 “No Firm Ground: The Canadian New Left and their Conceptions of Class, 1964–1968,” Canadian Historical Association Annual Meeting, University of British Columbia, Vancouver, BC. June 2008.
- 2008 “Sedition in Wartime Ontario: The Trials and Imprisonment of Isaac Bainbridge, 1918–1919,” New Frontiers in Graduate History Conference, York University, Toronto, ON. February 2008.
- 2007 “Towards a New Proletariat: The Canadian New Left and the Working Class,” Global Sixties: New World Coming Conference, Queen’s University, Kingston, ON. June 2007.

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## TEACHING & GRADUATE SUPERVISION

### Doctoral Supervision

2022–2023	Rachel Manes (withdrew to pursue an MLIS).
2022–Present	Vera Zoricic.
2020–2025	Eric Vero. Defended 2025. (Co-supervision with Jay Dolmage, English)
2018–2024	Rebecca MacAlpine. Defended.
2016–2020	Sarah McTavish. Defended.

### Doctoral Committees

2025	Derek Cameron (University of Saskatchewan), External Examiner.
2025	Michael LeBlanc (University of British Columbia), External Examiner.
2021	Michael Kurzmeier (Maynooth University), External Examiner.
2020–2023	Ryan D'Eon, Committee Member. Defended.
2019–2024	Thomas Littlewood, Committee Member. Defended.
2019–2022	Katherine MacKinnon (University of Toronto), Committee Member. Defended.
2018	Philip Miletic (English, Waterloo), Internal-External Examiner.
2016	Kimberly Martin (Western University), External Examiner.
2013–2017	Victoria Campbell, Committee Member. Defended.
2013	Jason Hawreliak (English, Waterloo), Internal-External Examiner.

### Doctoral Comprehensive Exam Fields

2023	Digital, Oral, and Public History Field.
2021	Global Field.
2019	Global Field.
2017–18	Canadian History Field.
2017	Global Field.

### Masters Supervision

2017	Eric Vero.
2017	Denée Renouf.
2016	Patrick O'Leary.
2016	Katie Mackinnon.
2015	David Hussey.

### Masters Committees

2021	David Menary.
2021	Krenare Recaj.
2021	Elaine Jones.
2018	Jake Harper.
2017	David Alexander.
2015	Danielle McDonald.
2014	Shelby Riddell.
2014	Matt Ferguson.
2014	Eric Reis.
2013	Matt Ferguson.
2013	Kira Burt.

## Formal Classroom Teaching

Since Winter 2022, formal classroom teaching has been paused due to the Associate Vice-President appointment. Selected courses taught prior:

2018–2021	HIST 216: A Long History of the Internet (multiple offerings; online format)
Winter 2021	HIST 640: Digital History (graduate)
Winter 2019	ARTS 490: Socio-Cultural Implications of Artificial Intelligence
2013–2017	HIST 303: Digital History (multiple offerings)
2013–2016	HIST 250: What is History? (multiple offerings)
Winter 2017	HIST 109: Ten Days that Shook the World
2013–2014	HIST 388: Modern Canada (multiple offerings)
2014–2015	HIST 403A/B: Canadian History Seminar
Fall 2012	HIST 255: History of Childhood and Youth in Canada
2016–2017	HIST 602: Canadian History Projects Course (graduate)

## SERVICE TO THE UNIVERSITY AND PROFESSION

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### Editorships

2016–Present	Co-Editor, <i>Internet Histories</i> (Academic Journal).
2017–2018	Special Issue Editor, <i>International Journal of Digital Libraries</i> .
2012–2018	Editor, <i>Programming Historian</i> .
2009–2015	Founding Co-Editor, Activehistory.ca Website.
2009–2011	Book Review Editor, <i>Left History</i> (Academic Journal), York University.

### Conferences and Events Organized (Selected)

2022–2023	Archives Unleashed Cohorts Events, Vancouver, BC.
2021	Co-Organizer, HistoInformatics 2021, JCDL Workshop. (Remote)
2016–2020	Principal organizer of eight “Archives Unleashed” datathons at institutions including Columbia University, George Washington University, Simon Fraser University, University of Toronto, Library of Congress, Internet Archive, and British Library.
2019	PI, “Workshop on Quantitative Analysis and the Digital Turn,” Fields Institute, Toronto, ON.
2017	Co-Program Chair, Joint Conference on Digital Libraries, Toronto, ON.
2016	Posters and Demo Chair, Joint Conference on Digital Libraries, Newark, NJ.

### Service to the Profession

2022–Present	Member, Canadian Commission for UNESCO Memory of the World Advisory Committee.
2020–2022	Research Data Management Working Group, New Digital Research Infrastructure Organization (NDRIO).
2019–2022	Steering Committee (Elected), ACM/IEEE Joint Conference on Digital Libraries.
2018–2023	Preservation and Access Committee, Canadian Research Knowledge Network. (Two terms)
2015–2022	Acquisitions Advisory Committee, Library and Archives Canada. (Two terms)
2020–2021	Selection Committee for Associate Professor in Digital Media History, Aarhus University.

### Editorial and Advisory Boards

2024–Present	Modern Endangered Archives Project.
2021–Present	Sourcery Project, University of Connecticut.
2021–2023	Archive of Tomorrow Project, National Library of Scotland.
2020–Present	<i>Journal of Digital History</i> .

- 2019–Present Computing Cultural Heritage in the Cloud, Library of Congress.  
 2018–Present Sherman Centre for Digital Scholarship, McMaster University.  
 2018–Present *International Journal of Digital Libraries*.  
 2016–Present *CA: Journal of Cultural Analytics*.

### Grant Selection Committees

- 2021–2023 SSHRC Insight Development Grant, History Committee Chair.  
 2020–2023 Awards to Scholarly Publications Program (ASPP), Publications Committee.  
 2020 Canada Foundation for Innovation, Expert Review Committee for Digital Libraries.  
 2020 SSHRC Insight Development Grant, History Committee.  
 2019 New Frontiers in Research Fund, Government of Canada (SSHRC/NSERC/CIHR).  
 2018–2019 Digital Edition Publishing Grants, National Historical Publications & Records Commission.  
 2018 Compute Canada Expert Review Committee for Research Portals and Platforms.

### University Service

*As Associate Vice-President, Research Oversight and Integrity at the University of Waterloo (80% service; 20% research), portfolios include research integrity, research ethics, animal care, health and safety, research security/safeguarding research, and research data management. Only formal committees are listed below.*

- 2025–Present Chair, Research Operations Council.  
 2024 Co-Chair, Task Force on Institutional Partnerships.  
 2023–2024 Member, Departmental T&P Committee, Sociology and Legal Studies.  
 2022–Present SSHRC Leader from the University of Waterloo.  
 2022–Present Chair, UW/SSHRC Grants Committee.  
 2022–Present Chair, Working Group on Bibliometrics.  
 2022–Present Co-Chair, Research Data Management Institutional Strategy Working Group.  
 2022–Present Member, Senate Graduate and Research Council.  
 2022–Present Member, Research Security Working Group.  
 2022–Present Member, University of Waterloo Executive Council.  
 2022–Present Member, Canada Research Council Internal Review Committee.  
 2020–2022 Elected Faculty Representative, University of Waterloo Board of Governors.  
 2018–2022 Senator, University of Waterloo Senate. (Two elected appointments)  
 2018–2021 Member, Faculty of Arts Tenure and Promotion Committee.  
 2019–2020 Member, University Honorary Degrees Committee.  
 2018 Member, Library Search Committee for two Associate University Librarian positions.  
 2018 Member, Library Search Committee for CLIR Postdoc.  
 2015 Member, Library Search Committee for Digital Archivist.  
 2014 Member, Arts Homecoming Committee.  
 2014 Member, Library Search Committee for Digital Initiatives Librarian.  
 2013 Member, Library Search Committee for Head, Special Collections and Archives.

### Departmental Service (Selected)

- 2013–14, Graduate Committee.  
 2018–21  
 2017–2018 Self-Study Committee.  
 2018 Department Advisory Committee on Appointments (DACA).  
 2014–16, Speaker Series Coordinator.  
 2018–21

## Peer Reviewing (Selected)

### Journal reviewing:

*American Historical Review*  
*Canadian Historical Review*  
*Digital Scholarship in the Humanities*  
*ACM Journal on Computing and Cultural Heritage*  
*Journal of Digital History*  
*Digital Humanities Quarterly*  
*Technology and Culture*  
*Archival Science*  
*Historical Methods*  
*International Journal of Digital Libraries*  
*Journal of Cultural Analytics*  
*Journal of the Canadian Historical Association*  
*Left History*  
*Humanities & Social Sciences Communications*  
*Quality & Quantity*  
*BC Studies*  
*Archivaria*  
*History Compass*  
*Frontiers in Digital History*  
*Post45*  
*JLIS.it*

### Grant reviewing:

SSHRC Insight  
NSERC Discovery  
New Frontiers in Research Fund (NFRF)  
Swiss National Science Foundation  
Leibniz Association  
Fonds National de la Recherche Luxembourg  
Netherlands eScience Center

### Book manuscript/proposal reviewing:

Cambridge University Press  
Stanford University Press  
Routledge  
Palgrave Macmillan  
Springer  
University of London Press  
Wilfrid Laurier University Press

*Tenure and promotion reviewer for multiple North American and European universities.*

### Professional Affiliations

American Historical Association (AHA)  
Association for Computers and the Humanities (ACH)  
Association for Computing Machinery (ACM)  
Canadian Historical Association (CHA)  
Canadian Society for Digital Humanities (CSDH)  
Royal Historical Society (RHS)