Spectrum, Concordia University's Open Access Research Repository

Thirteenth Annual Report, 2022

April 2023

Overview

Concordia University's open access institutional repository, Spectrum, contains book chapters, articles, conference papers, datasets, videos, theses, graduate research projects, and other works authored or created by members of the Concordia community. EPrints (www.eprints.org) is the free and open-source software platform on which Spectrum is built.

During 2022, we continued to support the Concordia community's use of Spectrum through outreach on open access issues and direct consultation. These efforts continue to build on the 2010 Concordia Senate resolution,[1] encouraging Concordia researchers to deposit their peer-reviewed articles in Spectrum.

This thirteenth annual report summarizes progress and achievements from January 1, 2022 to December 31, 2022, and outlines developments for Spectrum's 14th year.

Growth and usage of content in Spectrum

Between January 1, 2022 and December 31, 2022, 965 deposits were made to Spectrum.

Deposit Type	Number Deposited	Percentage of Total Deposits
Thesis	791	82%
Article	124	12.9%
Non-Thesis Graduate Project	17	1.8%
Conference Paper	12	1.2%
Monograph & Book	10	1%
Monograph Chapter	7	0.7%
Dataset	2	0.2%
Video	2	0.2%
Total	965	100%

Table 1. Number of deposits added to Spectrum in 2022 by type and percentage of total.

[1] Concordia University Senate Resolution on Open Access, 2010, https://library.concordia.ca/research/open-access/SenateResolutiononOpenAccess.pdf

A total of 19,276 documents were deposited in Spectrum from September 1, 2009 to December 31, 2022. Deposits have averaged 892 per year over the last three years.

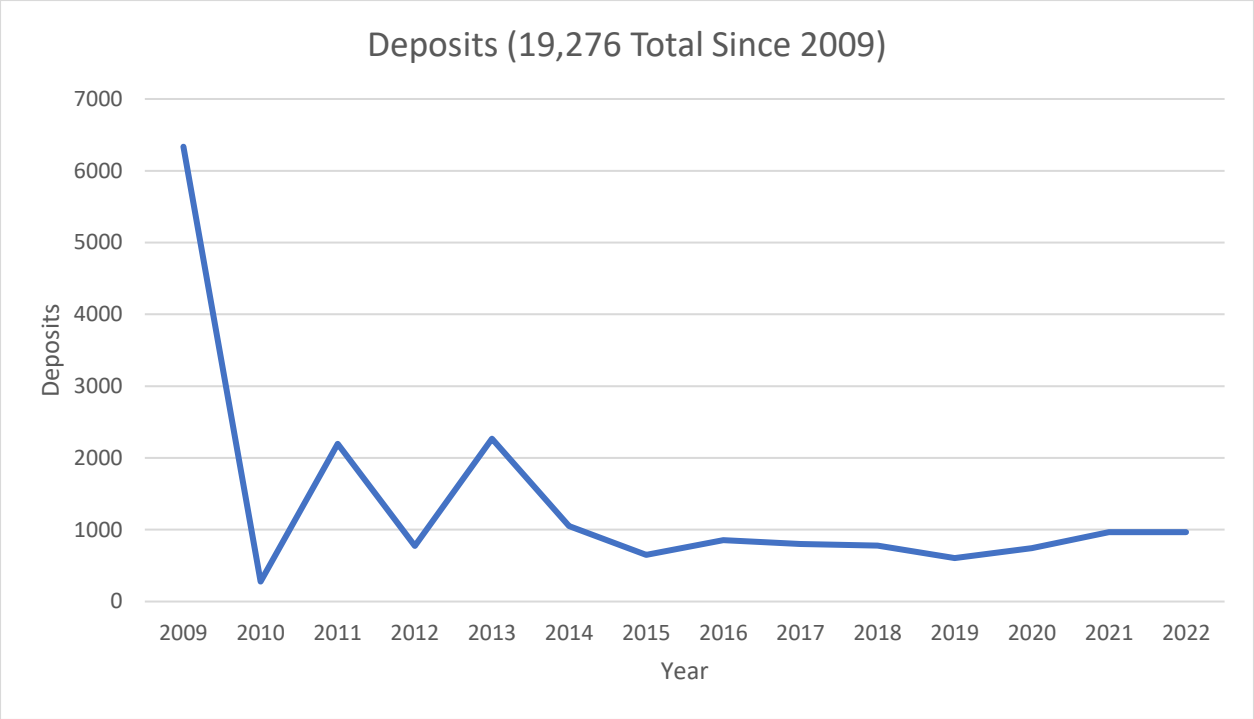

Figure 1. Number of deposits in Spectrum per year from 2009 to 2022.

Access to Spectrum's full text content between January 1, 2022 to December 31, 2022 was 499,015 downloads. Total or cumulative downloads of Spectrum materials from September 1, 2009 to December 31, 2022 was 6,784,702.

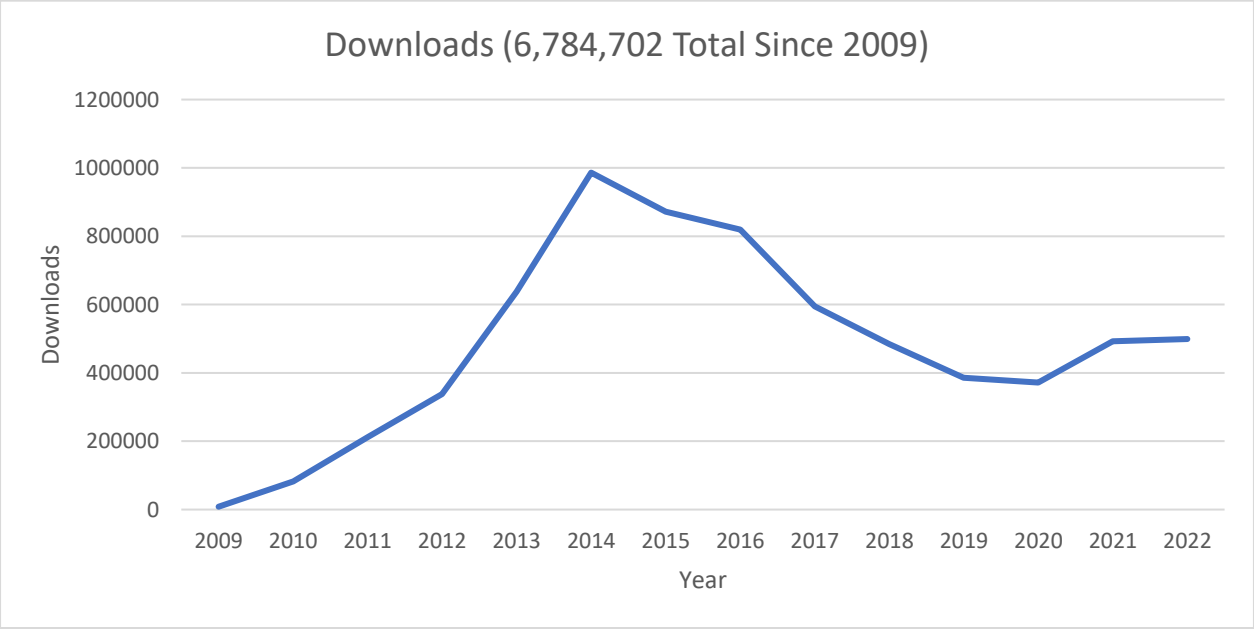

Figure 1. Number of downloads from Spectrum per year over a thirteen-year period.

Spectrum was accessed by users from across the globe.

The top ten countries represented by sessions for the year covered in this report are (in descending order).

1. China
2. Canada
3. United States
4. United Kingdom
5. India
6. Philippines
7. France
8. Germany
9. Australia
10. Iran

Spectrum's download statistics track information about individual authors and deposits. The works of the following authors were among the most downloaded in 2022:

Author	Department/Faculty	Downloads
Cicchetti, Umberto	Religion	12,435
Laroche, Michel	John Molson School of Business	4,357
Harrell, D. Fox	Computer Science & Artificial Intelligence Laboratory at MIT	3,767
Lewis, Jason Edward, et al.[2]	Design and Computation Arts	3,760
Valverde, Raul	John Molson School of Business	3,631
Ryder, Andrew G.	Psychology	3,568
Radomsky, Adam S.	Psychology	3,312
Zhang, Shuzhe	John Molson School of Business	2,896
Reilly, Rosemary C.	Applied Human Sciences	2,764
Okoli, Chitu	John Molson School of Business	2,493
Richard, Marie-Odile	John Molson School of Business	2,441

Table 2. Most downloaded Spectrum authors, 2022.

The following 10 documents in Spectrum received the most full-text downloads from January 1, 2022 to December 31, 2022.

Author	Document Type	Title	Downloads
Cicchetti, Umberto	PhD Thesis	Ibn Qutayba et l'islamisation de la science de l'interprétation des rêves en Islam; Suivi d'une traduction de l'oneirocriton d'Ibn Qutayba (m.276/889) et une présentation inédite du texte intégral arabe de l'oneirocriton	12,435

[2] The following co-authors all shared 4,897 downloads associated with the Indigenous Protocol and Artificial Intelligence Position Paper: Lewis, J.E., Abdilla, A., Arista, N., Baker, K., Benesiinaabandan, S., Brown, M., Cheung, M., Coleman, M., Cordes, A., Davison, J., Duncan, K., Garzon, S., Harrell, D. F., Jones, P., Kealiikanakaoleohaililani, K., Kelleher, M., Kite, S., Lagon, O., Leigh, J., Levesque, M., Mahelona, K. Moses, C., Nahuewai, I., Noe, K., Olson, D., Parker Jones, 'Ō., Running Wolf, C., Running Wolf, M., Silva, M., Fragnito, S., and Whaanga, H.

		attribué à Ibrāhīm B.'Abdullāh al-Kirmānī (m.184/800)	
Lewis, Jason Edward, Abdilla, Angie, Arista, Noelani, Baker, Kaipulaumakaniolono, Benesiinaabandan, Scott, Brown, Michelle, Cheung, Melanie, Coleman, Meredith, Cordes, Ashley, Davison, Joel, Duncan, Kūpono, Garzon, Sergio, Harrell, D. Fox, Jones, Peter-Lucas, Kealiikanakaoleohaililani, Kekuhi, Kelleher, Megan, Kite, Suzanne, Lagon, Olin, Leigh, Jason, Levesque, Maroussia, Mahelona, Keoni, Moses, Caleb, Nahuewai, Isaac ('Ika'aka), Noe, Kari, Olson, Danielle, Parker Jones, 'Ōiwi, Running Wolf, Caroline, Running Wolf, Michael, Silva, Marlee, Fragnito, Skawennati and Whaanga, Hēmi	Monograph (Project Report)	Indigenous Protocol and Artificial Intelligence Position Paper	3,712
Zhang, Shuzhe	MSc Thesis	Color associations with masculine and feminine brand personality among Chinese consumers	2,896
Okoli, Chitu and Pawlowski, Suzanne D.	Journal Article	The Delphi method as a research tool: an example, design considerations and applications	2,137
Laroche, Michel, Habibi, Mohammad Reza, Richard, Marie-Odile and Sankaranarayanan, Ramesh	Journal Article	The effects of social media based brand communities on brand community markers, value creation practices, brand trust and brand loyalty	1,994
Desai, Bipin C.	Book	An Introduction to Database Systems	1,665
Testa, Silvia, Doucerain, Marina M., Miglietta, Anna, Jurcik, Tomas, Ryder, Andrew G., Gattino, Silvia	Journal Article	The Vancouver Index of Acculturation (VIA): New evidence on dimensionality and measurement invariance across two cultural settings	1,476
Florence, Kathryn	MA Thesis	Tail/Tale/Tell: The Transformations of Sedna into an Icon of Survivance in the Visual Arts Through the Eyes of Four Contemporary Urban Inuit Artists	1,285

Byers-Heinlein, Krista	Book section	High amplitude sucking procedure	1,263
Hoebanx, Pauline	MA Thesis	Dating scripts on social media: A case study of Matthew Hussey's YouTube videos	1,161

Table 3. Most downloaded Spectrum documents, 2022.

Developments in 2022 and Goals for 2023

In 2022, we updated the text of the Spectrum Thesis Licence and improved the way in which the agreement to the licence is described in documentation and stored in the system. As a result of this change, thesis depositors no longer need to sign a separate paper copy of a license for Library and Archives Canada. This centralizes the location where masters and doctoral students agree to a single licence rather than the LAC and Spectrum terms as separate steps in the thesis submission process. Simplification supports clarity during thesis submission. It also simplifies the record-keeping workflows of the Thesis Office (formerly responsible for maintaining the LAC agreements signed by Ph.D. students) and individual departments (formerly expected to maintain the LAC agreements signed by MA students). We have worked with the Thesis Office to update our respective web pages to reflect the updated licence. We have also worked with the national library to restart the harvesting of Spectrum theses by Library and Archives Canada.

We collaborated with Érudit to ensure that Concordia University's theses in Spectrum are included in their centralized access to theses and dissertations of several Canadian universities.

As a part of the effort to improve the user experience, we added some additional email notifications sent to thesis depositors during the approval process by the Thesis Office. We also clarified key terminology around the deposit of scholarly articles, such as peer-review, publishing status, and the versioning. It is important that the deposits that are either a preprint/submitted version or postprint/accepted version are clearly identified as such. These updates make a difference in assessing the self-archiving policies of publishers in the mediated deposit process.

In 2022, Spectrum deployed an advanced ORCID integration in Spectrum, including authenticated ORCID IDs and the updating of ORCID records. Depositors can now import and export bibliographic metadata between Spectrum and ORCID. The integration of ORCID in Spectrum meant that we updated terminology and supporting documentation on the library's ORCID page as well as within the Spectrum site, including the FAQ, how-to pages, and pages that depositors interact with during the deposit process.

In 2022, we completed the development of the EPrints-Archivematica export plugin used to export digital objects from Spectrum to a dedicated Archivematica digital preservation system, as a part of an institutional effort to continually ensure that files are not lost or corrupted and sufficient information about the digital objects is collected to enable future preservation actions and access. We issued a public release of this plugin in the EPrints Bazaar, and presented our work at the International Conference on Digital Preservation. We used the plugin during 2022 to export the backlog of nearly 20,000 items in Spectrum. As a result of this work, all the deposits have been processed for preservation

with Archivematica and placed in archival storage. We have since configured the plugin so that all new deposits are automatically processed.

In 2023, we will continue to refine this digital preservation workflow. We are currently developing a set of guidelines for Spectrum depositors whose research involves creating complex digital objects such as software applications, 3D models, or websites. These guidelines will help depositors prepare their files in accordance with established preservation best practices to ensure that their research will remain accessible and usable in the long-term.

In 2023, we plan on participating in the ongoing review of security features for Spectrum. In addition, we plan on upgrading the database software version as well as optimizing workflows for mediated deposits.

Submitted by T. Neugebauer, R. Harris and S. Lake