

BRANCHING OUT

BRIC 2023

CONFERENCE PROGRAM

June 7-8, 2023 • Pre-Conference June 6, 2023
St. Paul's University, Ottawa, Ontario

PROGRAM AT A GLANCE



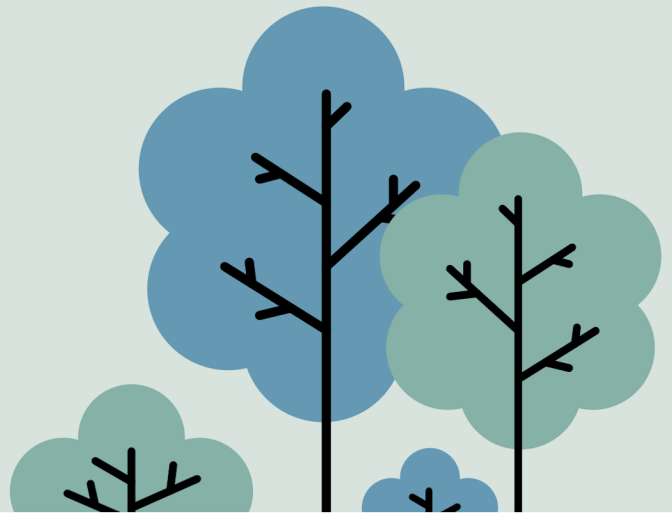
TUESDAY JUNE 6 **PRE-CONFERENCE**

- 8:30 - 12:00 PM** InCites Forum Canada
- 9:30 - 11:30 AM** Altmetrics and Dimensions
- 12:00 - 2:30 PM** Lunch
- 2:30 - 4:00 PM** SciVal
- 5:00 PM** Optional Outings

WEDNESDAY JUNE 7

- 8:55 - 9:00 AM** Kick-off
- 9:00 - 10:00 AM** Keynote: Philippe Mongeon
- 10:00 - 10:20 AM** Presentations
- 10:20 - 10:40 AM** Break (light refreshments)
- 10:40 - 11:00 AM** Welcome
- 10:40 - 12:00 PM** Presentations
- 12:00 - 1:30 PM** Lunch (included)
- 1:30 - 2:50 PM** Presentations
- 2:50 - 3:00 PM** Q & A
- 3:00 - 3:20 PM** Break (light refreshments)
- 3:20 - 3:40 PM** Presentations
- 3:40 - 4:40 PM** Visualizations that matter
- 4:40 - 4:45 PM** Daily wrap up
- 5:30 - 7:30 PM** Reception at National Arts Centre (NAC)

PROGRAM AT A GLANCE



THURSDAY JUNE 8

8:55 - 9:00 AM Kick-off

9:00 - 9:40 AM Keynote: Juan Pablo Alperin

9:40 - 10:20 AM Presentations

10:20 - 10:40 AM Break (light refreshments)

10:40 - 12:00 PM Presentations

12:00 - 1:30 PM Lunch (included)

1:30 - 2:50 PM Presentations

2:50 - 3:00 PM Q & A

3:00 - 3:20 PM Break (light refreshments)

3:20 - 4:20 PM Presentations

4:20 - 4:40 PM Conference Wrap-up

5:30 - 7:30 PM Optional outing at the Art
Gallery of Canada

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Tuesday June 6 PRE-CONFERENCE

TIME	AGENDA
8:30 AM	Annual InCites Forum Canada by Clarivate (Separate Registration Required) Location: Amphitheatre Schedule: 8:30 AM Light Breakfast 9AM - 12PM Forum 12PM - 1:30PM Networking Lunch
9:00 AM	
9:30 AM	
10:30 AM	
11:30 AM	
12:00 PM	
12:30 PM	
1:30 PM	
2:30 PM	SciVal Workshop: Analyzing Research Trends and Impact using SciVal with Tahseen Khanday from Elsevier (Separate Registration Required) Refreshments Included Location: Amphitheatre
3:30 PM	
4:00 PM	
5:00	Optional outings: See website for details.

Creating Visualizations Using Altmetric & Dimensions Data with Digital Science
(Separate Registration Required)

Location:
Amphitheatre

Schedule:
9:30 - 11:30 AM
Presentation

12:00 - 1:30 PM
Lunch

PROGRAM



Wednesday June 7
Location: Amphitheatre

TIME	AGENDA
8:55 - 9:00 AM	Kick-off
9:00 - 9:40 AM	<p>KEYNOTE ADDRESS: Breaking the silos: collaboration between practitioners and academics in the Canadian LIS community.</p> <p><i>Dr. Philippe Mongeon, Assistant Professor, School of Information Management, Dalhousie University</i></p> <p>Dr. Mongeon will present an open database of Canadian LIS research, a bibliometric analysis using this database, and discuss open data infrastructures and their impact on democratizing bibliometrics, supporting community building, and enhance our national bibliometrics capacity.</p>
10:00 - 10:20 AM	<p>An analysis of the mobility patterns of Canadian researchers in three research fields</p> <p><i>Ann Beynon, Lead Partnership Manager, Institute for Scientific Information, Clarivate</i></p> <p>The flow of ideas across geographies is essential for a healthy research ecosystem. Graduate students are vital to research universities, and often stay in their adopted country as postdocs and/or faculty. Where established researchers move to universities in other countries or establish joint appointments across borders. Both scenarios benefits research and innovation outcomes (1). With the fierce competition to attract and retain research talent, the impact of the COVID-19 pandemic, and geopolitical forces, the the flow of researchers has been recently alter. In this study, we examine the mobility of Canadian researchers using Web of Science Core Collection publication data representing over 21,000 international journals in three research fields- virology, finance, and environmental science- over a ten-year period (2012-2021). We analyzed the rate and locations of mobility for Canadian researchers versus other countries in these three fields. The data show there are field and country differences in mobility patterns. These data can help university leaders and government policy makers understand changes occurring in the Canadian research workforce and inform their funding and policy decisions to sustain and strengthen the national research system.</p> <p><small>1. Halevi, G., Moed, H. F. & Bar-Ilan, J. 2016. "Researchers' mobility, productivity and impact: Case of top producing authors in seven disciplines". <i>Publishing Research Quarterly</i>, 32, 22-37. https://doi.org/10.1007/s12109-015-9437-0</small></p>
10:20 - 10:40 AM	Break

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Wednesday June 7

TIME	AGENDA
10:40 - 11:00 AM	<p>Welcome & (a fun) Community Survey <i>Conference Organizing Committee</i> <i>Laura Bredahl, Jeffery Demaine, George Duimovich, Joanna Szurmak</i></p>
11:00 - 11:40	<p>Science-Metrix' methodology and tool to ease the creation of topic-specific publication data sets <i>David Campbell, Alexandre Bédard-Vallée, Danielle Dong, and Paul Khayat Elsevier</i></p> <p>The comprehensive retrieval of publications of high relevance to a specific research topic/discipline can be a daunting task for most users of bibliographic databases. The main challenges are: 1) defining the area of interest and converting it in bibliometric terms, i.e., in the form of a seed dataset of highly relevant publications, 2) defining a search query that enables retrieving highly relevant publications from the seed and beyond with a high recall rate of the seed, i.e., the share of seed publications effectively retrieved by the query, and 3) defining a search query that retrieves publications closely matching the chosen definition, i.e., keeping the precision rate, or the rate of true positives, high. The most difficult part is balancing the recall and precision rates. In this presentation, an approach and tool developed and refined over more than a decade to ease this process will be illustrated using quantum technologies as an example.</p>
11:40 - 12:00 PM	<p>Empowering Bibliometric Analysis with Python and API <i>Guanwen Zhanga, Thane Chambers, Joseph Marchand</i> <i>University of Alberta</i></p> <p>Bibliometrics plays essential roles in identifying research trends, discovering knowledge gaps, positioning contributions to the fields by researchers and research organizations, facilitating funding agencies' decision-making, improving organization's academic rankings. However, the work involved in performing bibliometric analysis is usually repetitive, manual, laborious and time-consuming. Finding innovative ways that can leverage state-of-the-art technologies and expertise of other information professionals to relieve librarians from some of the chores is essential. In this article, we would like to demonstrate that Python programming language could be combined with the Application Programming Interface (API) offered by data sources providers such as Scopus to automate parts of the bibliometric analysis process. We developed computer programs in Python, leveraging the Scopus API to generate publication, citation, collaboration, and open access metrics, as well as co-word and co-authorship analyses. As a case study, the computer programs were applied to a research network formed by researchers and leaders spanning across two social science departments - Sociology and Economics-within the Faculty of Arts at the University of Alberta. The research network, diversified with a mix of academic discipline, academic rank, gender and country of origin, has a research focus on Labor Markets and Work. It is demonstrated in this article the advantages and challenges of using API as a complimentary tool to the traditional approach of bibliometric analysis.</p>

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Wednesday June 7

TIME	AGENDA
12:00 - 1:30	Lunch Included
1:30 - 2:10	<p>Policy citations: promises, pitfalls and practical first steps <i>Euan Adie, Founder Overton</i></p> <p>A handful of new apps and databases - Dimensions, BMJ Impact Analytics and Overton - offer to find and index the links between policy documents and academic research. Could these policy citations be used to identify and evidence policy impact? How should we interpret this data? And what caveats, biases and limitations should we be aware of when using it? In this talk we'll introduce the datasets and share the learnings from working with policy documents at Overton from a bibliometrics point of view, including some surprising differences. We'll also discuss where policy citations may fit into research assessment, outlining what the promise of this new dataset might be - and what the pitfalls are too. Finally we'll share work from external bibliometrics groups who have been working with policy citation data and explain how to get access, either institutionally or as an individual for research purposes.</p>
2:10 - 2:50	<p>How do you Measure Real-world Impact? Toby Green, Director and Co-founder Coherent Digital</p> <p>If impact is the contribution that research makes to society, how likely is it that we're going to be able to measure real-world impact by counting citations and mentions of journal articles in publications and websites? Perhaps we're looking in the wrong direction. In 2008, an article in EMBO* looked at 'The Grand Impact of the Gates Foundation', noting that it had spent over \$7BN on combating HIV/AIDS and other diseases in Africa. What the article doesn't say is what prompted Gates to act so generously: a visit by someone from the World Bank bearing a copy of a report on AIDS in Africa. One copy of a printed research report given, in-person, resulted in billions of new dollars to fight disease in Africa. That's an example of real-world impact. In this session, based on my experience when setting up the OECD's impact evaluation team in 2018-2019 and my knowledge of working with other IGOs like World Bank and OHCHR, I will introduce the challenges of measuring and determining real-world research impact. Funders of IGOs are not interested in how often a particular publication is cited. They're not especially interested if a publication is featured 'above the fold' on newspaper front-pages (although it always makes them feel good!). What they really, really want to know is if their research dollars have led to change. This meant building an impact measurement system that branches out beyond today's bibliometrics and altmetrics. And that's not easy to do. *EMBO Rep. 2008 May; 9(5): 409-412. doi: 10.1038/embor.2008.52</p>

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Wednesday June 7

TIME	AGENDA
2:50-3:00 PM	Q & A <i>Moderators: Laura Bredahl, Jeff Demaine</i>
3:00 - 3:20 PM	Break
3:20 - 3:40 PM	Estimating the influence of federal knowledge products within and beyond academia <i>Christopher Manuel, Senior Analyst Women and Gender Equality Canada</i> <i>Women and Gender Equality Canada (WAGE) advances equality with respect to sex, sexual orientation, and gender identity or expression through the inclusion of people of all genders, including women, in Canada's economic, social, and political life. WAGE invests in research that is expected to inform decision-making toward improvements for people of all genders, including women. WAGE invests in research through: supporting projects resulting in new knowledge shared through knowledge products (KPs), undertaking contractual research projects, working with federal partners like Statistics Canada, and, undertaking knowledge creation activities internally. As a public funder of research, WAGE must report on the impacts of research investments to demonstrate value and to understand how knowledge is mobilized and "translated" into societal impacts. Therefore, WAGE's Impact team undertook a pilot project to assess an approach for monitoring the observable impact of WAGE-supported KPs. Modified from approaches explored by other research funders, this methodology is based on tracking observable influence - in other words, tracking where and when academic, and decision-making or policy documents directly refer to relevant KPs as a source of information used. The results of the pilot suggest that this could be a useful tool to identify initial influence - WAGE estimates that 59% of KPs examined were found to have at least one reference in either academic or decision-making documents.</i>
3:40 - 4:40 PM	Visualizations that Matter <i>Various conference participants</i> This will be a showcase of visualizations that inspire and allow the conference participants the opportunity to ask questions and go into the weeds of creating visualization with pizzazz. If you think you might have something you want to share reach out to the conference organizers.
4:40 - 4:45	Wrap-up
5:30 - 7:30	Reception at the National Art Centre Rossy Pavilion 1 Elgin St., Ottawa

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Thursday June 8

TIME	AGENDA
9:00 - 9:40 AM	<p>KEYNOTE ADDRESS: Beyond English: Seeing the global and diverse world of research and scholarship</p> <p><i>Dr. Juan Pablo Alperin, Associate Professor, School of Publishing, & Co-director of the Public Knowledge Project, Simon Fraser University.</i></p>
9:40 - 10:00 AM	<p>Not created equal: Towards comprehensive citation capture and classification at the US DOE Joint Genome Institute</p> <p><i>Neil Byers, Scientific Impact Analyst US DOE Joint Genome Institute, Lawrence Berkeley National Laboratory</i></p> <p>Citations and their implications are messy. A citation of a document or dataset may be deeply meaningful or merely a cursory reference. This discrepancy makes the interpretation of citation metrics difficult at best and completely meaningless as worst. This talk covers recent efforts at the US DOE Joint Genome Institute (JGI) to begin accommodating these caveats. A two-pronged approach will be presented. The first step is to capture all possible citations of the organization's research outputs. The citations of these outputs flow through a wide variety of metadata, from publications to URLs to persistent identifiers. Therefore, we need to first capture all identifiable institutional citations regardless of the product or type of product being cited. Secondly, citations are binned according to the level of institutional involvement indicated by a given citation. Using results from a combination of comparative searches and manual evaluation based on random samples, I propose a 'spectrum of JGI involvement' for citations of two large-scale JGI initiatives. Preliminary investigation of these results indicates that the majority of citations we can identify represent a relatively weak influence of JGI upon the citing articles, while instances of stronger, more tangible impact are relatively few and far between. This has broad implications for research assessment professionals. Applications to community initiatives and future opportunities will be discussed.</p>
10:00 - 10:20 AM	<p>Trends in Bibliometrics Tools and Technologies</p> <p><i>Laura Bredahl, Bibliometrics and Research Impact Librarian University of Waterloo</i></p> <p>The landscape of bibliometrics tools and technologies are continually evolving. This presentation will discuss a recent report for the American Library Association, Library Technology Reports by Laura Bredahl which reviews the landscape of current bibliometrics tools used in academia and some of future directions. The goal of the report was to present these tools at an entry level, in language that is accessible to not only practitioners but decision makers. The technical jargon is at a minimum and instead the focus is on guiding readers through the key features and functions of systems in order to shed light on the tools that might be best suited to your analytics needs. There are so many options out there, which tools best meet the existing skills sets and analytics needs at your institution?</p>

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TIME	AGENDA
10:20 - 10:40 AM	Break
10:40 - 11:20 AM	<p>A new “Lens” - Exploring new tools for research impact reporting <i>Emily Hart, Science Librarian, Research Impact Lead</i> <i>Stephanie McReynolds, Librarian for Business, Management and Entrepreneurship</i> <i>Syracuse University Libraries</i></p> <p>At Syracuse University (SU) Libraries, the Research Impact Team is building a collection of reporting tools to meet the growing needs of the campus community. Recently, SU Libraries subscribed to the Lens Institutional Toolkit (ITK), which is a fee-based set of reporting tools and includes scholarly literature searching and patent tools built on publicly available sources and indices like CrossRef and OpenAlex. This presentation will describe where ITK fits into the landscape of research impact related databases and reporting tools currently available to the SU Research Impact Team. Initial reactions, perceived benefits, building basic expertise to use cases for institutional support, and a brief live demo of key ITK features, will be presented. Our team is branching out by growing individual expertise and creating “champions” around specific reporting databases, creating outreach plans to connect those resources to the activity reporting needs of their subject liaison areas and interdisciplinary research institutes on campus.</p>
11:20 - 12:00 PM	<p>Bibliometric Coupling with R Bibliometrix and Biblioshiny <i>Jeffrey Demaine, Bibliometrics Librarian</i> <i>McMaster University</i> <i>George Duimovich, Collections Librarian</i> <i>Carleton University</i></p> <p>As one of the first techniques invented in the 1960s to leverage citation indexes, Bibliometric Coupling has long been a basic operation offered by bibliometric tools. Despite being commonplace, there has been a surge of interest in this fundamental technique in recent years such that publication and citation trends on this topic exhibit a Sleeping Beauty pattern. Why would a 60-year-old form of citation analysis have recaptured the interest of information scientists? This presentation will provide an overview of the concept of Bibliometric Coupling, highlighting significant papers that have examined its usefulness over the decades, clarifying the (confusing) similarities with statistical measures such as Salton’s cosine and Jaccard similarity, and culminating in the details of two new R packages for calculating Bibliometric Coupling. An exploration of the recent publications about Bibliometric Coupling will seek to explain the resurgence of interest in this form of citation analysis.</p>
12:00 - 1:30 PM	Lunch (Included)

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TIME	AGENDA
1:30 - 1:50 PM	<p>Bibliometrics and APCs: Monitoring the challenging landscape of article processing charges <i>Leigh-Ann Butler, Scholarly Communications Librarian University of Ottawa</i></p> <p>Since the early 2010s, more than half of peer-reviewed journal articles have been published by five large commercial publishers - Elsevier, Sage, Springer-Nature, Taylor & Francis and Wiley. As OA publishing increases, especially given the rise of funder OA mandates, these publishers are increasingly drawing revenue from open access journals. This talk will discuss findings and the methodological approach from a recent study that estimates the amount of article processing charges paid to the five large commercial publishers, by authors who acknowledge funding from the Canadian Tri-Agencies between 2015 and 2018. The study employs bibliometric methods using data from Web of Science, Unpaywall, open datasets of article processing charges, as well as list prices manually retrieved from the Internet Archive Wayback Machine. We estimate that during the four-year period analyzed, Tri-Agency authors paid \$USD 25.3 million (\$13.1 for gold and \$12.2 for hybrid) to the five large publishers. This talk will also raise for discussion the challenges of collecting APC data, and the value of this data especially as we see the emergence of new publishing models.</p>
1:50 - 2:30 PM	<p>Visualizing the Impact of Academic Misconduct in the Health Sciences: The Citation Networks of Retracted Papers. <i>Brett Williams, Senior Research Analyst, Ontario Medical Association</i></p> <p>Academic misconduct, ranging from mistakes in data collection to fraud is a major issue confronting the sciences and the social sciences. Building off of work previously done on visualizing searches and citation networks using Dimensions and VOSViewer, this paper looks at a single incident of academic misconduct and asks one question. What does academic misconduct look like in citation networks after the disclosure of the misconduct? Using the example of Dipak Das, who falsified data related to the heart protective effects of compounds derived from broccoli, this paper shows a range of techniques and tools to map the impact of academic misconduct within the citation network of a single author's retracted papers after the papers have been retracted.</p>

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TIME	AGENDA
2:30 - 2:50	<p>Digital Repositories: Fertile Ground for Tracking the Impact of Non-Traditional Research? <i>Christie Hurrell</i> <i>Libraries and Cultural Resources, University of Calgary</i></p> <p>Worldwide, an increasing number of institutions, funding agencies, and publishers have committed to supporting the Declaration on Research Assessment (DORA), which recommends improvements to researcher and scholarly research evaluations. One of DORA's recommendations is to consider all research outputs, not just peer-reviewed publications, and a broad range of impact measures in research assessment exercises. Academic libraries are well positioned to support the institutional adoption of DORA. Openly accessible digital repositories have the functionality to manage, preserve, and make available a wide variety of outputs, including grey literature, research data, and other "non traditional" outputs. Some repositories mint persistent identifiers (PIDS), and integrate usage metrics such as downloads and altmetrics, which have the potential to help capture a variety of research impacts beyond traditional citations. This presentation will share preliminary results from a research project that is collecting data from digital repositories at DORA signatory institutions. Data collected are information about technical features, personnel supports, and outreach and engagement strategies. Attendees will be encouraged to consider ways that research repositories can "branch out" to more actively support the collection and measurement of a wide range of research outputs.</p>
2:50 - 3:00 PM	<p>Q & A <i>Moderators: Laura Bredahl, Jeff Demaine</i></p>
3:00 - 3:20 PM	<p>Break</p>
3:20 - 3:40 PM	<p>'Responsible use of what?' Navigating US university governance to approve an institutional statement on the responsible use of metrics <i>Rachel Miles</i> <i>Virginia Tech University Libraries</i></p> <p>Despite the first international initiative on responsible research assessment, the 2012 Declaration on Research Assessment (DORA), beginning in the US, only one US university and four individual units within universities have signed. Furthermore, few US universities have their own institutional statements on the responsible use of research metrics. The lack of visible commitment to responsible research assessment in the US can be partly attributed to the decentralized governing and funding systems of US universities. Unlike the UK and other countries, each US university has its own governing and budget models, with state universities' funding at least partly reliant on the individual state, and its politics, where it resides. This presentation will discuss experiences and lessons learned from navigating one US university's governance structure to approve the university's first statement on the responsible use of research metrics.</p>

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TIME	AGENDA
3:40 - 4:20 PM	<p>CLOSING KEYNOTE: Evaluating the diversity of scientific discourse on twenty-one multilingual Wikipedias using citation analysis <i>Mike Taylor, Head of Data Insights Digital Science</i></p>
4:20 - 4:40 PM	<p>Wrap-up <i>Conference Planning Committee</i></p>