

5th Annual IP Data & Research Conference

March 23–24, 2022

5e conférence annuelle sur la recherche et les données de PI

23-24 mars 2022



Innovation, Science and
Economic Development Canada
Canadian Intellectual Property Office

Innovation, Sciences et
Développement économique Canada
Office de la propriété intellectuelle du Canada

Centre for International
Governance Innovation



Agenda

5th Annual IP Data & Research Conference

Via Zoom

Thursday, March 24, 2022

8:25 a.m. to 4:15 p.m. EDT

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| 8:25 a.m. to 8:30 a.m. | Greetings from the master of ceremonies <ul style="list-style-type: none">• Jeffrey Orser, Senior Director, Patent Services and Strategic Affairs, Patent Branch, Canadian Intellectual Property Office (CIPO) |
| 8:30 a.m. to 8:40 a.m. | Opening remarks <ul style="list-style-type: none">• Francis Bilodeau, Associate Deputy Minister, Innovation, Science and Economic Development Canada (ISED) |
| 8:40 a.m. to 9:40 a.m. | Session I: Keynote presentation <ul style="list-style-type: none">• Ruth L. Okediji, the Jeremiah Smith, Jr., Professor of Law at Harvard Law School; Co-Director of the Berkman Klein Center for Internet and Society at Harvard University Moderator <ul style="list-style-type: none">• Konstantinos Georgaras, Chief Executive Officer (interim), CIPO |
| 9:40 a.m. to 9:50 a.m. | Morning break |
| 9:50 a.m. to 10:55 a.m. | Session II: Diversity and inclusion in the IP and innovation ecosystem <p>Presentation: First Nations Data Sovereignty and the Intellectual Property Regime</p> <ul style="list-style-type: none">• Peigi Wilson, Research Manager, First Nations Information Governance Centre <p>Presentation: Women and IP: Promoting Inclusion in the Innovation Ecosystem</p> <ul style="list-style-type: none">• Lori DeGraw, VP, Partnerships and Member Engagement, Innovation Asset Collective (IAC)• Julia Culpeper, Program Manager – Education and Strategy, IAC <p>Presentation: The Awareness and Use of Intellectual Property by Underrepresented Groups in Canada: Insights from Survey and Administrative Data</p> <ul style="list-style-type: none">• Danny Leung, Director, Economic Analysis Division, Statistics Canada• Eric Rowe, Team Leader, Service Insights, CIPO Moderators <ul style="list-style-type: none">• Erin Campbell, Director of Patent Policy, Strategy and Innovation Policy Sector, ISED• Jeremy de Beer, Professor of Law, University of Ottawa; Director, Open African Innovation Research Network |



Agenda

10:55 a.m. to 12:00 p.m.

Session III: IP in a digital world and lessons from the COVID-19 pandemic

Presentation: Trademark Filings as Leading Indicators for the European Union Economy

- Carolina Arias Burgos, Economist, European Union Intellectual Property Office

Presentation: Textual Analysis of Trademark Activity During the COVID-19 Pandemic

- Gray Barski, Economist, Business Improvement Services, CIPO
- Alexander Lehmann, Junior Data Scientist, Business Improvement Services, CIPO

Presentation: Educating Students on Intellectual Property in Applied Research Settings: The Impact in Using an Interactive Module

- Nathalie Méthot, Director, Research and Innovation Office, La Cité
- Christina DeRoche, Research Manager, Canadore College
- Krista Holmes, Associate Vice-President, Research and Innovation, George Brown College

Presentation: Context Matters: How Foreign Direct Investment and Intellectual Property Interact in Canadian Innovation

- Faun Rice, Manager of Research and Knowledge Mobilization at Information and Communications Technology Council (ICTC)
- Mairead Matthews, Senior Research and Policy Analyst, ICTC

Moderators

- E. Richard Gold, Professor, Faculty of Law and Faculty of Medicine and Health Sciences, McGill University; Director, Centre for Intellectual Property Policy; Senior Fellow, Centre for International Governance Innovation (CIGI)
- Carsten Fink, Chief Economist, World Intellectual Property Organization

12:00 p.m. to 12:45 p.m.

Lunch

12:45 p.m. to 1:50 p.m.

Session IV: IP metrics

Presentation: Where do Canadians Patent? Implications for Canada's Patent Regime

- Joel Blit, Professor of Economics, University of Waterloo; Senior Fellow, CIGI

Presentation: Identifying Artificial Intelligence (AI) Invention: A Novel AI Patent Dataset

- Nicholas A. Pairolero, Economist, Office of the Chief Economist, United States Patent and Trademark Office (USPTO)
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Agenda

Presentation: Missions, Mandates and Metrics: What are the Right Metrics for Academic Technology Transfer?

- Darren Fast, Director, Partnerships and Innovation, University of Manitoba
- Mike Szarka, Director, Research Partnerships, University of Waterloo
- Natalie Raffoul, IP Lawyer; Registered Patent Agent; Co-Founder, Fortress.Legal; Managing Partner, Brion Raffoul LLP

Presentation: Ethnicity Profiles of UK Patenting: An Analysis of UK Inventorship

- Darnell Wilkinson, Assistant Economist, United Kingdom Intellectual Property Office (UKIPO)
- Connor Morgan-Matthews, Senior Research and Statistics Manager, UKIPO

Moderator

- Andrew A. Toole, Chief Economist, USPTO

1:50 p.m. to 3:00 p.m.

Session V: Clean technologies

Panel: Canada's IP Ownership: Trends and Challenges and the Role of a Collective on Addressing these Challenges

- Mike McLean, Chief Executive Officer, IAC
- Emma Start, Director of Intellectual Property, Taiga Motors
- Dan Herman, Founder, Go To Jupiter Productions; Special Advisor on the Establishment of a Centralized Resource Entity on Intellectual Property

Presentation: Clean Technologies: Economic Impact and Innovation

- Nicholas Johnston, Junior Policy Analyst, Strategy and Innovation Policy Sector, ISED
- Mazahir Bhagat, Data Scientist, Business Improvement Services, CIPO

Presentation: Patent Analytics on Hydrogen and Low Emission Technologies

- Catriona Bruce, Head, Patent Analytics Hub, IP Australia

Presentation: IP in Climate Transformative Technology Companies: The SDTC Approach

- Amber Batool, Vice-President and Chief of Staff, Sustainable Development Technology Canada

Moderators

- Joel Blit, Professor of Economics, University of Waterloo; Senior Fellow, CIGI
- Rich Corken, Deputy Director of Economics, Research and Evidence, UKIPO

3:00 p.m. to 3:15 p.m.

Afternoon break



Agenda

3:15 p.m. to 4:05 p.m.

Session VI: IP, data and digital platform governance

Presentation: Data Ecosystems: Intellectual Property & Standards

- Sean Martineau, Acting Director, Business Improvement Services, CIPO
- Keith Jansa, Executive Director, CIO Strategy Council

Panel: The Value of Data: Building Collaborative Data Ecosystems

- Evgueni Loukipoudis, Strategic Advisor, Digital Technology Supercluster
- Peter Cowan, Director and CEO Advisor, IAC; Principal Consultant, Northworks IP
- Karima Bawa, Strategic Advisor on Intellectual Property, Digital Technology Supercluster; Senior Fellow, CIGI

Moderator

- Michael Falk, Director, Office of the Chief Economist, IP Australia

4:05 p.m. to 4:15 p.m.

Closing remarks

- Christine Piché, Director General, Corporate Strategies and Services Branch, CIPO
 - Bob Fay, Managing Director Digital Economy Research, CIGI
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Housekeeping notes

- Please sign in a few minutes in advance of the event to test your connection, allowing time for troubleshooting.
 - If you have any technical difficulties getting connected, please email events@cigionline.org.
- This year's live and accessible event will be streamed with simultaneous interpretation into both official languages, as well as with Communication Access Realtime Translation (CART)* services.
 - Simultaneous interpretation is available in English and French. Simply select the interpretation tool (a globe icon) and choose the language that you would like to hear.
 - [English instructions](#)
 - [French instructions](#)
 - Please note: DO NOT mute the original audio or you will not hear the portions of the event that are already in your preferred language.
- CART for the event is offered in both official languages.
 - [CART in English](#)
 - [CART in French](#)
 - *CART is the live, word-for-word transcription of speech to text so that individuals can read what is being said on a laptop or a larger screen.
- All of the slide decks used in presentations will be [available for download](#) in English and French on the day of the conference.
- During the event, if you have any questions for the speaker or panel, please use the Q&A tool. The moderator and event staff will be monitoring the incoming questions and will raise as many as possible during the session.

Biographies of speakers

Master of ceremonies

Jeffrey Orser

**Senior Director, Patent Services and Strategic Affairs, Patent Branch,
Canadian Intellectual Property Office**

Social media

- Twitter: @JeffreyOrser
- LinkedIn: [linkedin.com/in/Jeffrey-orser-1b5457177](https://www.linkedin.com/in/Jeffrey-orser-1b5457177)



Jeffrey Orser is the Senior Director, Patent Services and Strategic Affairs, responsible for strategic and operational planning, training, information technology functions, quality management and operational functions within the Patent Branch. A Canadian Intellectual Property Office (CIPO) employee since 2003, he was most recently director general of the Services to Business Branch, responsible for the development and implementation of the CIPO's overall service strategy as well as leading the design and delivery of new products and services to improve the awareness and education of IP. He has also occupied numerous managerial positions with the Patent and Trademark Branches related to the delivery of high-quality and timely IP rights.

Before joining government, he worked as an integrated circuit designer for a small start-up that built rule-based network classification semiconductor devices.

Jeffrey holds a bachelors of applied science (electrical engineering) from the University of Ottawa.

Biographies of speakers

Opening remarks



Francis Bilodeau

Associate Deputy Minister, Innovation, Science and Economic Development Canada

Social media

- LinkedIn: [linkedin.com/in/francis-bilodeau-3aa37a147](https://www.linkedin.com/in/francis-bilodeau-3aa37a147)

Francis Bilodeau was appointed associate deputy minister of Innovation, Science and Economic Development Canada in January 2022.

Prior to his appointment, he held various executive positions across the public service, including chief information officer of the Government of Canada, assistant secretary of Digital Policy and Services at the Treasury Board of Canada Secretariat and founding assistant deputy minister for the Privy Council Office's Results and Delivery Unit.

Francis also held the position of executive director in the Treasury Board of Canada Secretariat's Government Operations Sector and worked in a number of senior roles at Infrastructure Canada, where he helped lead the development and implementation of multiple generations of federal infrastructure programming.

Francis holds a master's degree in business administration and a degree in mechanical engineering.

Biographies of speakers

Session I: Keynote presentation

Moderator



Konstantinos Georgaras

Chief Executive Officer (interim), Canadian Intellectual Property Office

Social media

- LinkedIn: [linkedin.com/in/k-georgaras/](https://www.linkedin.com/in/k-georgaras/)

Konstantinos Georgaras is the chief executive officer (interim) at the Canadian Intellectual Property Office (CIPO). In this role, Mr. Georgaras provides strategic direction and leadership to CIPO and ensures the provision of world-class IP services by granting IP rights and providing IP awareness and information. He also represents CIPO and Canada's interests, both nationally and internationally.

Konstantinos joined CIPO in 2010. As director general of Corporate Strategies and Services, he was responsible for legislative, regulatory, administrative and operational policy related to the IP framework that CIPO administers. He also provided expert advice on broader IP policy analysis, policy development and framework modernization. He led the Canadian delegation on various bilateral and multilateral initiatives, such as strategic World Intellectual Property Organization committees and the Asia-Pacific Economic Cooperation's IP committee, to develop and advance Canadian IP positions and interests internationally. Konstantinos led an extensive program of professional economic research and analysis to identify and evaluate national and international trends and developments, policies, strategies, plans and initiatives to support Canada's IP policy. He also led the development of strategic partnerships, financial services and human resources.

Konstantinos began his career in the public service in 1984 and has held strategic and executive positions within the departments of Innovation, Science and Economic Development Canada and Human Resources and Skills Development Canada and within the Science, Technology and Innovation Council. He has extensive experience spanning strategic, economic and legislative policy, with direct responsibilities for IP, innovation, insolvency and industrial and labour market policies.

Mr. Georgaras holds a master of arts in public administration from Carleton University and an executive certificate in public leadership from the John F. Kennedy School of Government at Harvard University.

Biographies of speakers

Presenter



Ruth L. Okediji

Jeremiah Smith, Jr., Professor of Law at Harvard Law School; Co-Director of the Berkman Klein Center for Internet and Society at Harvard University

Ruth L. Okediji is the Jeremiah Smith, Jr., Professor of Law at Harvard Law School and Co-Director of Harvard University's Berkman Klein Center for Internet and Society. Professor Okediji teaches contracts, international IP, patents, copyright and courses on biblical law. She has held distinguished visiting appointments and taught at many institutions including the University of Toronto Faculty of Law, Emory Law School, Duke University School of Law, the University of Hawai'i School of Law, University of Haifa Law School, Tel Aviv University and the University of Tilburg Law School. She has also held a professorial fellowship at the Thomas More Law School at the Australian Catholic University.

Professor Okediji's research and scholarship examine innovation policy, the digital economy and global knowledge governance. She advises governments and international organizations on a variety of issues at the intersection of IP, international economic law and human development. She has authored an extensive array of articles, commissioned papers and book chapters on the relationship between intellectual property, multilateral trade and human development. She is widely cited for her scholarship on the design and implementation of IP norms in developing and least-developed countries consistent with human welfare goals and work on legal regimes related to traditional knowledge. She has served as a policy advisor to many intergovernmental organizations, regional economic communities and national governments on the formulation of copyright and patent policies in the digital era and has advised governments on the design of legal frameworks for Indigenous peoples' knowledge.

Professor Okediji was a member of the United Nations High-Level Panel on Access to Medicines and served as lead expert and negotiator for the WIPO Marrakesh Treaty to Facilitate Access to Published Works. She was a member of the U.S. National Academies Board on Science, Technology and Policy Committee on the Impact of Copyright Policy on Innovation in the Digital Era, and in 2021, she completed service as co-chair of the National Academies' Board on Science, Technology and Economic Policy Committee on Advancing Commercialization from Federal Laboratories.

Over the course of her career, Professor Okediji has received many awards and distinctions for teaching, advising and mentoring. These include Professor Most Likely To Go Beyond the Call of Duty, the Regents Superior Teaching Award and the Student Bar Association's Outstanding Professor Award. She was also a two-time recipient of the Harvard Law School's Women's Law Association Shatter the Ceiling Award and was twice named an honoree of International Women's Law Day.

Professor Okediji has been named one of the 50 most influential figures in IP by Managing IP and received the 2019 Public Knowledge IP3 Award. Her latest book, *Traditional Knowledge and Modern Justice*, is forthcoming in 2023.



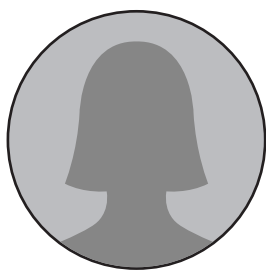
Session II: Diversity and inclusion in the IP and innovation ecosystem

Moderators

Erin Campbell

Director of Patent Policy, Strategy and Innovation Policy Sector, at Innovation, Science and Economic Development Canada

Since November 2018, Erin Campbell has been director of Patent Policy at Innovation, Science and Economic Development Canada (ISED), with responsibility for the IP strategy. She was previously program director with ISED's Post-Secondary Institutions Strategic Investment Fund, a program that supported research and innovation-oriented infrastructure projects at universities and colleges. Prior to joining ISED, she held positions in the Machinery of Government Secretariat at the Privy Council Office.



Jeremy de Beer

Professor of Law, University of Ottawa; Director, Open African Innovation Research Network

Social media

- Twitter: @jdebeer



Jeremy de Beer is a full professor at the University of Ottawa's Faculty of Law, where he creates and shapes ideas about technology innovation, intellectual property and global trade and development. He is also a faculty member of the Centre for Law, Technology and Society as well as a senior fellow at the Centre for International Governance Innovation and a senior research associate at the University of Cape Town's IP unit. Professor de Beer is a founding co-director of the Open African Innovation Research Network (Open AIR), and his current work helps solve global challenges related to innovation in the digital economy, life science industries and clean technology sector. As a practising lawyer and sought-after expert, he has argued over a dozen cases before the Supreme Court of Canada, advised businesses and law firms both large and small and consulted for agencies from national governments and the United Nations.

Biographies of speakers



Presenters

Peigi Wilson

Research Manager, First Nations Information Governance Centre

Social media

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- Facebook: @FNIGC
- LinkedIn: [linkedin.com/company/first-nations-information-governance-centre/](https://www.linkedin.com/company/first-nations-information-governance-centre/)



Peigi Wilson is a Métis lawyer, writer and policy analyst. She has worked at the juncture of trade, Indigenous rights and environmental protection for over 25 years for the United Nations Environment Program, the Assembly of First Nations, the Federation of Canadian Municipalities and, presently, the First Nations Information Governance Centre. Peigi has a master of laws from the University of Ottawa, a bachelor of laws from the University of Victoria and a double honours BA in history and political science from Western University.

Lori DeGraw

Vice-President, Partnerships and Member Engagement, Innovation Asset Collective

Social media

- LinkedIn: [linkedin.com/in/lori-degraw-icd-d-94204a194](https://www.linkedin.com/in/lori-degraw-icd-d-94204a194)
- Twitter: @DeGraw20
- Innovation Asset Collective: ipcollective.ca
- Innovation Asset Collective LinkedIn: [linkedin.com/company/innovation-asset-collective](https://www.linkedin.com/company/innovation-asset-collective)
- Innovation Asset Collective Twitter: @iac_canada



Lori DeGraw is VP of Partnerships and Member Engagement at Innovation Asset Collective, a pilot project funded by the Department of Innovation, Science and Economic Development Canada to help Canadian data-driven clean tech companies drive global scale. Lori brings 25 years' experience in several sectors, especially the broadcast, digital and entertainment industries. She held the role of VP media operations at Blue Ant Media for 10 years and, before that, various roles within the broadcaster and independent production communities, including as president, executive producer and director. She has extensive corporate governance experience, having served on numerous boards during her career, including as director and chair of the Governance and HR Committee for the Canada Media Fund and currently as vice-chair of the Governance and Ethics Committee on the Canadian Olympic Committee Board of Directors.

She holds a BA in political science from Western University and achieved the ICD.D corporate director designation via the Director Education Program (DEP), jointly developed by the Institute of Corporate Directors and University of Toronto Rotman School of Management in October 2019. She also completed the inaugural Innovation Governance Program (iGP) in 2020, presented by the Council of Canadian Innovators and focused on the growth and good governance in Canadian tech companies.

Biographies of speakers



Julia Culpeper

Program Manager – Education and Strategy, Innovation Asset Collective

Social media

- LinkedIn: [linkedin.com/in/julia-culpeper-92b6aa164](https://www.linkedin.com/in/julia-culpeper-92b6aa164)

Julia Culpeper is the program manager of Education and Strategy at Innovative Asset Collective (IAC). An experienced program manager and adult education professional, Julia is currently working with a diverse team of educators and IP professionals to build the IP education curriculum at IAC, developing dynamic and inclusive learning experiences for innovators needing specialized on-the-job training, support and access to networks. A decade of experience in arts administration and project and program management has led Julia through a number of industries, including the tech and innovation space, theatre, hospitality and higher education. She specializes in distilling strategy into action, team leadership and fostering inclusion, diversity and belonging in all her programs.

Julia holds an honours bachelor of arts in English, history and semiotics from the University of Toronto.



Danny Leung

Director, Economic Analysis Division, Statistics Canada

Social media/websites

- StatsCan Economic and Social Reports:
<https://www150.statcan.gc.ca/n1/pub/36-28-0001/index-eng.htm>

Danny Leung has been with the Economic Analysis Division of Statistics Canada since 2009. His research interests include self-employment, small-firm financing and firm growth. He has a PhD in economics from Western University.



Eric Rowe

Team Leader, Service Insights, Canadian Intellectual Property Office

After graduating with a degree in Economics in 2006, Eric has been a long-serving employee of the Canadian Intellectual Property Office. In his current role, he supervises the Service Insights team, which aims to bring actionable insights to the table through a variety of market research techniques, the preferred of which is survey research. His team influences decision making primarily in the areas of service improvement, strategy and policy.

Biographies of speakers



Session III: IP in a digital world and lessons from the COVID-19 pandemic

Moderators

E. Richard Gold

Professor, Faculty of Law and Faculty of Medicine and Health Sciences, McGill University; Director of the Centre for Intellectual Property Policy; Senior Fellow, Centre for International Governance Innovation

Social media

- Twitter: @IP_policy

E. Richard Gold is a McGill professor of intellectual property and innovation in the Faculty of Law and Faculty of Medicine and Health Sciences. He also serves as the director of the Centre for Intellectual Property Policy. He teaches in the area of intellectual property, international intellectual property, comparative intellectual property, innovation policy and intellectual property management. He is among the leaders of a Canadian effort called the Viral Interruption Medicines Initiative (VIMI), which strives to retool the drug discovery and development process to rapidly develop new open science medicines to address pandemics, antimicrobial resistance and rare and pediatric diseases.



Carsten Fink

Chief Economist, World Intellectual Property Organization

Social media

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Carsten Fink is the chief economist of the World Intellectual Property Organization (WIPO) based in Geneva. Before joining WIPO, he was a professor of international economics at the University of St. Gallen. He also held the positions of visiting professor at the Fondation nationale des sciences politiques (Sciences Po) in Paris and visiting senior fellow at the Groupe d'économie mondiale, a research institute at Sciences Po. Prior to his academic appointments, Carsten worked for more than 10 years at the World Bank. Among other positions, he was a senior economist in the International Trade Team of the World Bank Institute working out of the World Bank's office in Geneva and an economist in the Trade Division of the World Bank's research department, based in Washington, D.C. Carsten's research work—focused on intellectual property, innovation and international trade—has been published in academic journals and books. He holds a doctorate in economics from the University of Heidelberg in Germany and a master of science in economics from the University of Oregon in the United States.



Biographies of speakers



Presenters



Carolina Arias Burgos

Economist, European Union Intellectual Property Office

Social media

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- LinkedIn: linkedin.com/company/euipo

Carolina has been an economist at the Economics and Statistics Service of the Observatory on Infringements of Intellectual Property Rights (IPRs) department at the European Union Intellectual Property Office (EUIPO) since 2013.

She carries out economic studies about the contribution of IPRs to the EU economy, the impact of COVID-19 crisis in IPR-intensive industries, the use of trademarks as an economic indicator and the measurement of the economic importance of creative industries. She is also responsible for sectoral studies to quantify the economic impact of IPR infringement in several sectors. Before joining the EUIPO, she was a civil servant for more than 16 years working as a statistician in Spanish Statistical Offices and responsible for economic statistics and National Accounts.

She has been widely published on statistical and econometric techniques to estimate economic magnitudes following international methods, lately focused on the use of short-term statistics for monitoring economic indicators during crisis and recovery phases, the relationship between economic indicators and trademark filings and forecasting methods.



Gray Barski

Economist, Business Improvement Services, Canadian Intellectual Property Office

Gray Barski is an economist working within the economic research team at the Canadian Intellectual Property Office. After working as a student, Gray joined the team in early 2020, having completed his master's degree in statistics and an internship thereafter. Gray's research experience pertains to econometrics and time series analysis, working on topics related to risk-neutral densities, long memory processes and macroeconomic modelling. In addition to economic research, Gray's professional experience includes work within model risk management, data governance and budgetary forecasting in the federal government.

Biographies of speakers



Alexander Lehmann

Junior Data Scientist, Business Improvement Services, Canadian Intellectual Property Office

Alex Lehmann is a junior data scientist with Business Improvement Services at the Canadian Intellectual Property Office (CIPO). In this role, he uses cutting-edge methodologies from statistics, machine learning and artificial intelligence to drive innovation in CIPO products and services. Prior to joining CIPO, Alex was part of the Modern Statistical Methods and Data Science Branch at Statistics Canada.

In addition to his role in the public service, Alex is a graduate statistics researcher at Carleton University in Ottawa, Ontario. His research includes such topics as machine learning, natural language processing, nonparametric statistics and resampling. His work emphasizes interpretable and explainable methodologies and the democratization of data science.

Alex holds an honours bachelor of mathematics from Carleton University.



Nathalie Méthot

Director, Research and Innovation Office, La Cité

Social media

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Nathalie Méthot, director of Research and Innovation at La Cité, developed the applied research program in 4 strategic areas. With her colleague Olivier Chartrand, she developed courseware on responsible conduct of college research in both French and English.

Biographies of speakers



Christina DeRoche

Research Manager, Canadore College

Social media

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- LinkedIn: Canadore College

Christina DeRoche, a research manager at Canadore College, has worked in the community sector for over 10 years. She brings a wealth of experience in applied research with several projects completed with industry and community partners.



Krista Holmes

Associate Vice-President, Research and Innovation, George Brown College

Social media

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- Twitter: @GBCResearch @GBCFIRST
- Instagram: @gbcfirst
- LinkedIn: George Brown College

Krista Holmes, director of Research at George Brown College, has over 15 years of experience in the post-secondary education sector, including 8 years of leadership in applied research in a variety of fields, making George Brown one of the pioneer colleges in applied research in Ontario.

Biographies of speakers



Faun Rice

Manager of Research and Knowledge Mobilization, Information and Communications Technology Council

Social media

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- Twitter: @ICTC_CTIC
- Digital Think Tank by ICTC website: digitalthinktankictc.com

Faun Rice is an experienced social researcher who brings her interest in science, technology and society to her work with the Information and Communications Technology Council (ICTC). Faun holds an MA in anthropology and a BA with distinction in sociology and anthropology from the University of Alberta. Prior to joining ICTC, Faun worked in visitor experience museum research and organizational policy with the Smithsonian Institution's Organization and Audience Research team and as a research consultant on a knowledge synthesis project, funded by Canada's Social Sciences and Humanities Research Council, on endangered language revitalization with the University of Toronto and Sahtú Renewable Resources Board. With ICTC, Faun brings her perennial interest in human social organization to bear on the impact of emerging technologies on the labour market, career pathways and urban and rural life in Canada.



Mairead Matthews

Senior Research and Policy Analyst, Information and Communications Technology Council

Social media

- LinkedIn: [linkedin.com/in/maireadmatthews](https://www.linkedin.com/in/maireadmatthews)

Mairead brings her longstanding interest in Canadian policy and her background in public administration and political science to the conversation on technology and 21st century regulatory challenges. Mairead holds a joint honours BSocSc in public administration and political science from the University of Ottawa and previously worked as a legislative assistant at the Parliament of Canada. With ICTC, Mairead researches topics at the intersection of technology and policy, including innovation, the social and labour market impacts of new tech, federal and provincial privacy legislation and municipal procurement.

Biographies of speakers



Session IV: IP metrics

Moderator

Andrew A. Toole

Chief Economist, United States Patent and Trademark Office



Andrew Toole is the chief economist at the United States Patent and Trademark Office (USPTO) and a research associate at the Leibniz Centre for European Economic Research (ZEW). Andrew joined the USPTO with experience in the private sector, academia and government. While completing his PhD in economics at Michigan State University, Andrew was a senior economist for Laurits R. Christensen Associates, where he studied total factor productivity, cost and price analysis and competitive strategy. In 1998, he went to Stanford University as a postdoctoral student and went on to become a faculty member at Illinois State University and Rutgers University in New Jersey. As an academic researcher, Andrew was asked to advise on science and technology policy issues for institutions such as the U.S. National Academy of Sciences, the U.S. National Institutes of Health and the U.S. Department of Agriculture (USDA). In 2010, he joined the Science Policy Branch of the USDA's Economic Research Service. His research focuses on the economics of innovation, intellectual property and related science and technology policies. Andrew has published in the Journal of Law & Economics, The Review of Economics and Statistics, Research Policy, Management Science and many other peer-reviewed journals.

Biographies of speakers



Presenters

Joel Blit

Professor of Economics, University of Waterloo; Senior Fellow, Centre for International Governance Innovation

Social media

- Twitter: @joelblit



Joel Blit is a professor of economics at the University of Waterloo and a senior fellow at the Centre for International Governance Innovation. His research focuses on the economics of innovation and innovation policy. He has studied, among other things, the role that multi-location firms play in promoting the flow of knowledge across geographical space, the effect that patents have on innovation and whether skilled immigration can be leveraged to foster innovation. His most recent work, examining how COVID-19 is transforming the economy through automation and reallocation, has been featured by numerous media outlets, including The Economist, The Globe and Mail and the CBC.

Professor Blit regularly advises policy makers on innovation policy. As part of an expert roundtable, he advised the Minister of Foreign Affairs on Canada's optimal position on intellectual property for Canada-United States-Mexico Agreement trade negotiations. On the topic of automation and the future of work, he has briefed the G7 representatives and has been an invited speaker at a number of venues including the OECD Global Forum on Productivity.

Prior to joining the University of Waterloo, Joel was an assistant professor of economics and international affairs at George Washington University. He has also been a business consultant to financial services firms in Asia, Australia and North America. His consulting engagements included reorganizing the activities of a major bank and formulating the strategy for a US\$100 million start-up.

Biographies of speakers



Nicholas A. Pairolero

Economist, Office of the Chief Economist, United States Patent and Trademark Office

Social media

- Website: uspto.gov/ip-policy/economic-research
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Nicholas A. Pairolero is an economist in the Office of the Chief Economist at the United States Patent and Trademark Office. His interests are in evidence-based policy making, with research in the economics of innovation. His research has appeared in peer-reviewed academic journals, including Research Policy, and in 2019 and 2020, his work was used to inform discussions during the U.S. Senate hearing “Promoting the Useful Arts: How can Congress Prevent the Issuance of Poor Quality Patents?” and the U.S. House of Representatives hearing “Enhancing Patent Diversity for America’s Innovators.” In addition, his research has received professional and academic awards, including the U.S. Department of Commerce Gold Medal for Scientific and Engineering Achievement, and has been featured in the media (for example, Axios, VentureBeat and Forbes). Nicholas has a PhD and an MA in economics from Indiana University Bloomington and a BBA in economics and mathematics from the University of Wisconsin Eau Claire.



Darren Fast

Director, Partnerships and Innovation, University of Manitoba

Darren Fast joined the University of Manitoba in 2012. He leads a team that is responsible for assessing and moving research-based technologies into the private sector as well as facilitating collaborative research partnerships with industry partners. He is also the past chair of the Canadian Committee of AUTM. Previously, Darren was the senior intellectual property advisor at the Public Health Agency of Canada. He was also the president of Solalta Advisors, providing market and business development services for early stage, technology-based companies. Prior to Solalta, Darren was chief technology officer for the Western Life Sciences Venture Fund, where he created new companies based on licensed technologies. Darren has also served as manager, Product Planning and Development, at Viventia Biotech, where he was responsible for the development of several human therapeutic antibody projects. He has a PhD in biochemistry from the University of Alberta and an MSc in chemistry from the University of Manitoba.

Biographies of speakers



Mike Szarka

Director, Research Partnerships, University of Waterloo

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Mike Szarka is the director of Research Partnerships at the University of Waterloo. He has over 25 years of experience in academic research partnerships and technology transfer, including prior positions with GreenCentre Canada (Queen's University), Ontario Tech, the University of Toronto and the Ontario Centres of Innovation. Mike holds a PhD in physical chemistry from the University of Toronto and was the 2021 recipient of the AUTM Canadian Award for career contribution to the technology transfer profession.



Natalie Raffoul

IP Lawyer; Registered Patent Agent, Co-Founder, Fortress.Legal; Managing Partner, Brion Raffoul LLP

Natalie Raffoul is a world-renowned IP lawyer and the managing partner of Brion Raffoul LLP, a law firm specializing in IP law, which she co-founded in 2008. In 2020, she co-founded a software company and launched Fortress.Legal, a platform that helps innovative small- and medium-sized companies manage their IP, contracts and corporate data. Natalie has been consistently ranked among the world's leading patent practitioners in the IAM Patent 1000 publication annually since 2014 and was shortlisted as one of the most highly recommended patent prosecutors in Canada. In 2020 and again in 2021, she was recognized in the IAM Strategy 300: The World's Leading IP Strategists as a global leader in leading the way in the development and implementation of strategies that maximize the value of IP portfolios. In 2019, Natalie was appointed to Ontario's first expert panel on IP and, in 2020, was appointed as an advisor to the Joint Minister's Roundtable on the Ontario Health Data Platform, chaired by Queen's University dean of the Faculty of Health Sciences, Dr. Jane Philpott. In 2021, she led and taught train-the-trainer courses for the World Intellectual Property Office (WIPO) in Saudi Arabia and Ukraine and was also asked by WIPO to partake in a new pilot program to assess the IP strategy of green technology companies located in Brazil.

Biographies of speakers



Darnell Wilkinson

Assistant Economist, United Kingdom Intellectual Property Office

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Darnell Wilkinson is an economist at the United Kingdom Intellectual Property Office (UKIPO), where he has worked since September 2021. Darnell's responsibilities include engaging in research projects related to intellectual property and the economic implications of government policy as part of the Economic Research and Evidence team at the UKIPO. Darnell previously worked at the Office for National Statistics, where he produced economic analyses mainly on the COVID-19 pandemic.

Darnell has a BSc and an MSc in economics, which focused on labour economics.



Connor Morgan-Matthews

Senior Research and Statistics Manager, United Kingdom Intellectual Property Office

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Connor Morgan-Matthews is a senior research and statistics manager at the United Kingdom Intellectual Property Office (UKIPO), working within the Economics, Research and Evidence team since 2020. Connor is a data enthusiast, who works across the statistics, research and analysis functions of the team. His recent work involves publishing online copyright infringement statistics, counterfeit goods research and, more recently, ethnicity profiles in inventorship research. Prior to working at the UKIPO, Connor developed an expertise in online brand enforcement, analyzing data relating to online counterfeiting. Connor has a BSc in psychology and an MSc in neuroimaging, specializing in clinical neuropsychology.

Biographies of speakers



Session V: Clean technologies

Moderators

Joel Blit

**Professor of Economics, University of Waterloo; Senior Fellow,
Centre for International Governance Innovation**

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Joel Blit is a professor of economics at the University of Waterloo and a senior fellow at the Centre for International Governance Innovation. His research focuses on the economics of innovation and innovation policy. He has studied, among other things, the role that multi-location firms play in promoting the flow of knowledge across geographical space, the effect that patents have on innovation and whether skilled immigration can be leveraged to foster innovation. His most recent work, examining how COVID-19 is transforming the economy through automation and reallocation, has been featured by numerous media outlets, including The Economist, The Globe and Mail and the CBC.

Professor Blit regularly advises policy makers on innovation policy. As part of an expert roundtable, he advised the Minister of Foreign Affairs on Canada's optimal position on intellectual property for Canada-United States-Mexico Agreement trade negotiations. On the topic of automation and the future of work, he has briefed the G7 representatives and has been an invited speaker at a number of venues including the OECD Global Forum on Productivity.

Prior to joining the University of Waterloo, Joel was an assistant professor of economics and international affairs at George Washington University. He has also been a business consultant to financial services firms in Asia, Australia and North America. His consulting engagements included reorganizing the activities of a major bank and formulating the strategy for a US\$100 million start-up.

Biographies of speakers



Rich Corken

Deputy Director of Economics, Research and Evidence, United Kingdom Intellectual Property Office

Rich leads the United Kingdom Intellectual Property Office's program of work, which seeks to understand the relationship between IP and the wider economy. His team's work includes providing economic analysis for IP across government, an external research program where leading academics provide insights into all aspects of IP, world-leading IP analytics to make sure that the wealth of registered IP data can be used to provide useful insights and social research and statistics to ensure that we ask the right questions and use the right metrics. Rich sits on the cross-government Heads of Horizon Scanning Programme group and participates in OECD taskforces in IP statistics and counterfeit and illicit trade. He also peer reviews articles for conferences and journals such as World Patent Information.

Presenters



Mike McLean

Chief Executive Officer, Innovation Asset Collective

Mike McLean is CEO of the Innovation Asset Collective (IAC), an organization helping Canadian data-driven clean tech companies maximize the value of their intangible assets to provide leverage for the businesses to scale and to build capacity in the Canadian IP ecosystem. Before joining IAC, Mike was the senior vice-president of IP services at TechInsights, where he founded the patent development service and established a centre of excellence around patent portfolio management and patent assessments. His practice enables data-driven decision making and effective identification of patent assets for enforcement or sale, provides guidance on invention selection and patent acquisition programs and ensures the alignment of patent portfolios with intellectual property and business strategy. Mike has worked extensively with the technology practices of major law firms, in-house corporate counsel teams of global technology companies and external licensing agencies. Mike also holds a BSc in engineering (first-class honours) from Queen's University.

Biographies of speakers



Emma Start

Director of Intellectual Property, Taiga Motors

Emma Start is the director of IP at Taiga Motors. Based in Montreal, Emma is responsible for the identification and protection of intellectual property assets resulting from new product development and advanced research activities in the field of electric powersport vehicles. Emma is a seasoned IP practitioner. Before joining Taiga, Emma worked for Immersion Corporation, a global leader in the development and licensing of haptic technology. While there, she was responsible for rationalizing a foundational portfolio of patent assets to be focused on revenue opportunities and business objectives. During her time at Bombardier Aviation, she was instrumental in instilling a strong internal IP culture that ensured protection of both valuable confidential information and patentable inventions. Emma began her career as a patent agent for Smart & Biggar, Canada's largest intellectual property boutique law firm. Her practice focused on preparing and prosecuting patents in the fields of transportation, consumer products, medical devices and telecommunications systems.

Emma earned a bachelor of mechanical engineering from McGill University and is registered to practice before the Canadian Intellectual Property Office and the United States Patent and Trademark Office.



Dan Herman

Founder, Go To Jupiter Productions, and Special Advisor on the Establishment of a Centralized Resource Entity on Intellectual Property

Dan has spent the past 15 years at the intersection of policy and strategy with respect to Canada's economy. His previous roles include an appointment as the executive director of Innovation Policy for the Department of Innovation, Science and Economic Development for the Government of Canada. He was the strategy lead for the development of the Government's Innovation Agenda. Dan also designed and architected the creation of Innovation Canada, a new organization designed to simplify and coordinate how the Government of Canada provides support to innovative firms. Dan was also a member of the Government of Ontario's Expert Panel on Intellectual Property.

Previously, as the co-founder of the DEEP Centre, Dan's work on Canada's innovation ecosystem influenced the creation of the Government of Canada's Global Skills Strategy, the government's 2016 budget focus on performance measurement for business incubators and accelerators and the policy focus on scaling or high-growth potential firms, now present in both provincial and federal innovation policy. Dan led the strategy development for the creation of Lazaridis Institute for the Management of Technology Enterprises at Wilfrid Laurier University.

Dan holds a degree in business administration from Wilfrid Laurier University, a master's degree in development studies, focusing on trade and economic policy, from the Faculty of Economics at the London School of Economics and a PhD on the topic of North American innovation policy from the Balsillie School of International Affairs.



Biographies of speakers



Nicholas Johnston

Junior Policy Analyst, Strategy and Innovation Policy Sector, Innovation, Science and Economic Development Canada

Nicholas Johnston is a public servant who believes strongly in developing innovative, evidence-based policy. With a master's degree in public administration from the University of Waterloo, a graduate diploma in data analytics as well as a bachelor's degree in political science with a minor in economics, Nicholas is keen to learn and develop his abilities to use data to construct policy and become an effective analyst. Nicholas has worked in municipal government as a programs officer, in provincial government as a policy analyst and in the private sector as a project manager. He enjoys working in the federal public service due to the breadth of experience found within a single institution.



Mazahir Bhagat

Data Scientist, Business Improvement Services, Canadian Intellectual Property Office

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Mazahir has a master's degree in data analytics from the University of Waterloo and has been a part of the IP Analytics team at the Canadian Intellectual Property Office (CIPO) for more than three years now. Mazahir is well versed in working with data and has been instrumental in developing the team's data science infrastructure to support decision making. Prior to joining CIPO, Mazahir was part of the Master Data Management team at Walmart Labs, whose primary objective was to support the maintenance of high-quality data.



Catriona Bruce

Head, Patent Analytics Hub, IP Australia

Catriona leads the Patent Analytics Hub at IP Australia, providing information on innovation trends to support data-informed decision making across government and the research sector. With a background in biotechnology and a focus on research translation, Catriona has 14 years' experience across the Australian public service, including roles at the Department of the Prime Minister and Cabinet Office of the Gene Technology Regulator and Department of Education, Skills and Employment.

Biographies of speakers



Amber Batool

Vice-President and Chief of Staff, Sustainable Development Technology Canada

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As vice-president and chief of staff, Amber Batool leads Sustainable Development Technology Canada's (SDTC) strategic initiatives in areas spanning intellectual property, innovation and governance. In addition to her role as chief of staff, Amber leads the strategic initiative on intellectual property to ensure STDC continues to support more climate transformative technology companies to build robust intellectual property strategies. She also has lead responsibility for SDTC's governance framework.

In 2018, Amber joined STDC from North West Refining (NWR), where she held the position of vice-president, Government and Stakeholder Affairs. Prior to her time at NWR, she spent over 10 years working for the UK government in London. Her posts included chief of staff to ministers of state and speechwriter to multiple HM Treasury ministers (including during the financial crisis). Amber was also a member of the Prime Minister's Strategy Unit and, during her time at the Cabinet Office, supported No. 10 Downing Street on briefing the Prime Minister for question period. Amber has a law degree and a postgraduate diploma in law.

Biographies of speakers



Session VI: IP, data and digital platform governance

Moderator

Michael Falk

Director, Office of the Chief Economist, IP Australia

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Michael Falk leads IP Australia's program of economic research, advice and publications. Michael joined IP Australia in 2019 as an opportunity to shape policy thinking through evidence and help the government address challenges at the nexus of innovation, competition and trade.

Michael has over a decade of experience in research, strategy and communications roles across government, academia and industry. He has a PhD in the management of technological innovation from Melbourne Business School and a master's degree in publishing and communications from the University of Melbourne. Michael has regularly consulted for public and private sector organizations, applying research to high-pressure policy evaluation and planning cycles. For example, as digital technology upended traditional publishing and media models, Michael worked with the executive teams of first-mover digital media start-ups to devise entrepreneurial strategies.



Biographies of speakers



Presenters



Sean Martineau

Acting Director, Business Improvement Services, Canadian Intellectual Property Office

Sean Martineau is the acting director of Business Improvement Services and is the interim data steward at the Canadian Intellectual Property Office (CIPO). Sean has more than 15 years of experience in the federal government, having held positions at Innovation, Science and Economic Development Canada (ISED) as well as Public Works and Government Services Canada and Statistics Canada. Sean joined CIPO in 2011 and has played a lead role in building CIPO's IP analytics capacity. In his substantive position, Sean manages the data and analytics team in the Business Improvement Service directorate. Sean has dedicated much of his career to advancing the Office's efforts centred around its IP data and research agenda and, most recently, is co-chairing CIPO's Data Working Group. He also serves as the co-chair of ISED's Data Science Community of Practice with the aim of bringing together individuals from across ISED who have an interest in data science. Sean holds a master's degree in economics from the University of Ottawa and is a chartered professional account (CPA).



Keith Jansa

Executive Director, CIO Strategy Council

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Keith Jansa is the executive director of the CIO Strategy Council. Keith brings more than 15 years of public, private and not-for-profit experience leading diverse teams to generate successful business strategies and deliver client-focused solutions and meaningful results. Keith has particular subject matter expertise in the strategic application of standards for creating secure, privacy-preserving technologies. He works with Canada's most forward-thinking chief information officers and executive technology leaders to collectively accelerate the pace of digital transformation and advance Canada's position in the global digital economy. In his previous role as vice-president of Standards and Innovation at the Council, Keith provided executive leadership in the design and successful accreditation of the Council's standards-setting process to drive the creation of national standards to advance Canada's digital economy. Keith is also chair of Innovate Cities, an appointed member of the Ontario Health Data Council and chair of its strategic working group on data stewardship. Keith holds an honours bachelor of health sciences from the University of Ottawa. He is married to his university sweetheart, Kayla Jansa, and loves chasing after his 3 children.

Biographies of speakers



Evgueni Loukipoudis

Strategic Advisor, Digital Technology Supercluster

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Evgueni Loukipoudis is a strategic advisor to Canada's Digital Technology Supercluster and president and founder of Catalyx Technologies. Most recently, he was chief technology officer (CTO) of the Digital Technology Supercluster and, before that, CTO of McKesson Medical Imaging and then Change Healthcare. While a senior leader in Agfa Healthcare, Evgueni co-led that multinational's digital transformation and has been part of technology start-ups and participated in several open industry-wide and global standardization initiatives. He has extensive international experience, previously worked in Belgium, Germany and Brazil, and holds an MSc in mathematics and a PhD in computer science from the University of Sofia, Bulgaria. His interests include digital health, digital twins, blockchain, data commons, web3 data economy, linked open data and machine learning.



Peter Cowan

Director and CEO Advisor, Innovation Asset Collective; Principal Consultant, Northworks IP

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Peter Cowan is the principal consultant at Northworks IP and CEO advisor at Innovation Asset Collective (IAC). Northworks IP is an IP strategy advisory firm that was founded to help companies maximize value of their IP assets through a business-focused approach to IP. Peter has 20 years of experience in IP strategy, and for the past 7 years, has worked as a senior consultant for various SMEs, multinationals and venture firms around the globe to help them make improved strategic and licensing decisions about their IP assets and investments. He has deep technical experience and is a named inventor on at least 70 patents in the clean energy sector. He holds a BEng degree from the University of Victoria, an MBA (entrepreneurship) from the University of Victoria and an LLM (intellectual property) from York University.

Biographies of speakers



Karima Bawa

**Strategic Advisor on Intellectual Property, Digital Technology Supercluster;
Senior Fellow, Centre for International Governance Innovation**

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Karima Bawa, recognized in 2020 as one of the most influential women in the IP industry by World IP Review, is the co-author of *The Intellectual Property Guide: IP Literacy and Strategy Basics for Supporting Innovation*, strategic advisor on intellectual property at the Digital Technology Supercluster and a senior fellow at the Centre for International Governance Innovation. Karima has extensive experience in strategically developing, managing and leveraging intellectual property and has had the privilege of managing and directing diverse legal functions, including serving as the former general counsel and chief legal officer for BlackBerry as it grew its operations from North America to over 175 countries.

Biographies of speakers

Closing remarks



Christine Piché

Director General, Corporate Strategies and Services Branch, Canadian Intellectual Property Office

Christine became the director general of Corporate Strategies and Services at the Canadian Intellectual Property Office (CIPO) in December 2021. She leads the branch in the delivery of such essential functions as the budgeting process for CIPO, strategic planning and integrated reporting, international relations and policy development, data analysis and dissemination as well as facilities and security, among many others. Prior to her appointment, Christine occupied positions of senior director of the Patent Branch and director of Services to Business at CIPO.

Prior to joining CIPO, Christine worked for the National Research Council of Canada as director of the Business Support Team, where she led a team of intellectual property and contracting experts who worked to extract maximum value from the Council's intellectual property. She was also responsible for developing an IP strategy that supported the current and future needs of the organization and of Canada.

Christine holds a bachelor's degree in electrical engineering, an MBA and is registered as a Canadian patent agent.

Biographies of speakers



Bob Fay

Managing Director Digital Economy Research, Centre for International Governance Innovation

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Robert (Bob) Fay is the managing director of digital economy at the Centre for International Governance Innovation (CIGI). The research under his direction assesses and provides policy recommendations for the complex global governance issues arising from digital technologies. He brings to this position extensive experience in macro- and micro-economic research and policy analysis. He is also a member of the Information and Privacy Commissioner (IPC) of Ontario's 2020–2021 Ad Hoc Strategic Advisory Committee, providing feedback on the priorities the IPC will focus on over the next five years.

Prior to joining CIGI, Bob held several senior roles at the Bank of Canada, most recently as senior director overseeing work to assess developments and implications arising from the digitization of the Canadian economy. As deputy director of the International Department at the Bank's, he assessed global economic developments and their implications for Canada and investigated a wide variety of issues, including those related to the international monetary system and global financial architecture. He has also led the Bank's Canadian short-term forecasting team and set up and led its first research division related to structural analysis, focusing on labour markets, productivity and exchange rate analysis. Bob was also special assistant to Bank of Canada Governor Mark Carney, serving as the governor's chief of staff. Prior to joining the Bank, Bob was an economist at the OECD and worked on a range of economic and labour market issues.

Bob holds an MA in economics from Queen's University and an undergraduate degree in applied studies (economics) from the University of Waterloo.