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Professional Society: Member of the Ordre des ingénieurs du Québec

Citizenship: Dual citizenship – Canada and United Kingdom

Languages: French (mother tongue), English (fluent), Spanish (intermediate)

A graduate in electrical engineering from Polytechnique Montreal and a graduate in economics from the University of Oxford (master's and doctorate), Catherine Beaudry is currently a full professor in the Department of Mathematics and Industrial Engineering at Polytechnique Montreal. Professor Beaudry also holds a Canada Research Chair (CRC) level 1 (senior) in management and economics of innovation in addition to leading the Partnership for the Organization of Innovation and New Technologies (4POINT0). She is a Fellow of the Academy of Social Sciences of the Royal Society of Canada.

Professor Beaudry specialises in the economics of innovation and its impact on business performance, as well as in the evaluation of research and the science and technology system. The first mandate of the CRC (on creation, development and commercialisation of innovation) focused on the steps leading to innovation as well as those allowing it to create value on the market, i.e. the development of science and technology until their realisation in the form of innovative products and services. The second mandate of the CRC that she currently holds aims to create multiple-level (organizations-ecosystem-society) models and indicators on which governance and public policies specific to innovation ecosystems can lean on. This multidisciplinary work aims to consider the science, technology and innovation system as a whole, and thus to breakdown the silos inherent to the innovation process.

Her main research interests are collaboration and support mechanisms for public and private organisations involved in knowledge and innovation ecosystems. In particular, her research focuses on the interaction between science and technology networks and industrial clusters, and how they influence the performance and survival of innovative organisations. 4POINT0 aims to develop new innovation indicators (derived from web mining) adapted to these ecosystems, so as to provide decision-makers with near-real time decision-making tools.

EDUCATION/TRAINING

1994-1999	D.Phil. in Economics Supervisor: Prof. Paul A. David	Trinity College, University of Oxford (Rhodes, SSHRC and FCAR scholar) Thesis: <i>Enterprise in Orbit: The Supply and Demand for Communication Satellites, 1964-92</i>
1994/06-1994/09	Honours in Space Business and Management	International Space University (ISU) in Barcelona
1992-1994	M.Phil. in Economics Supervisor: Prof. Sir James A. Mirrlees	Trinity College, University of Oxford, UK Thesis: <i>Competition and Bidding for Satellite Contracts in the World Space Industry</i>
1988-1992	B.Eng. in Electrical Engineering specialized in Space Technology	Polytechnique Montreal, Montreal, Canada (123/120 credits, 3.98/4.0 – best GPA of the 498 graduates of 1992).

PROFESSIONAL EXPERIENCE

Current academic appointments

2014/04-2028/03	Tier I Canada Research Chair	Department of Mathematics and Industrial Engineering, Polytechnique Montreal
2019/10-present	Principal researcher – Innovation	Centre for interuniversity research on analysis of organisations (CIRANO)
2014/06-present	Full Professor	Department of Mathematics and Industrial Engineering, Polytechnique Montreal
2013/05-present	Fellow	CIRANO
2008/05-present	Adjunct professor	Department of management of technology, University of Québec in Montreal (UQAM)
2007/11-present	Member	Centre for interuniversity research on science and technology (CIRST)

Past academic appointments

2018/01-2018/08	Invited Academic	Innovation, Science and Economic Development Canada (ISED)
2017/09-2018/01	Invited professor	Stellenbosch University, South Africa
2011/01-2011/06	Invited professor	Telfer School of Management, Ottawa
2010/01-2010/06	Invited professor	Telfer School of Management, Ottawa
2009/06-2014/05	Associate Professor	Department of mathematics and industrial engineering, Polytechnique Montreal
2009/04-2010/03	Tom Symons Fellow	Statistics Canada
2002/08-2013/05	Researcher	Centre for interuniversity research on analysis of organisations (CIRANO)
2002/07-2009/06	Assistant Professor	Department of mathematics and industrial engineering, Polytechnique Montreal
1999-2002	Leverhulme Special Research Fellow	Business economics, Manchester Business School, Manchester, UK
1997-1999	Research Associate	Business economics, Manchester Business School, Manchester, UK

1995-1996	Tutor in Economics	Wadham College, University of Oxford, UK
1995/03	Visiting researcher	Department of economics, Institut d'Economie Industrielle (IDEI), Toulouse, France
1994-1995	Tutor in Econometrics	Nuffield College, University of Oxford, UK
1992/05-1992/08	Electromagnetic Development Engineer	Spar Aerospace Ltd, Ste-Anne-de-Bellevue
1991-1992	Researcher in High Frequencies	Department of electrical engineering, Polytechnique Montreal
1991/05-1991/09	Electromagnetic Development Trainee	Spar Aerospace Ltd., Sainte-Anne-de-Bellevue
1991/01-1991/04	Researcher in	Department of electrical engineering, Polytechnique Montreal
1990/05-1990/08	Telecommunications	

HONOURS, AWARDS AND SCHOLARSHIPS

2021/09	Election to the Academy of social sciences of the Royal society of Canada (RSC)
2021/05	Nominee for the award "I adapt to the needs of my students", Polytechnique (one of six nominees) – https://www.polymtl.ca/carrefour-actualite/nouvelles/gala-idees-de-genie-2021-des-membres-du-personnel-enseignant-de-polytechnique-montreal-recompenses
2017/03	Nominee for best industrial engineering undergraduate studies teacher – Polytechnique Montreal (one of three nominees)
2016/03	Nominee for best industrial engineering undergraduate studies teacher – Polytechnique Montreal (one of three nominees)
2010/03	Best industrial engineering graduate studies teacher – Polytechnique Montreal
2009/05	Outstanding Young Scientist – InterAcademy Panel (IAP)
2009/04-2010/03	Tom Symons Fellowship, Statistics Canada
1999-2002	Leverhulme Special Research Fellowship
1995-1996	IODE scholarship (12,500 \$)
1994-1997	SSHRC Scholarship for doctoral studies FCAR Foundation Scholarship for doctoral studies
1994/06-1994/09	CFISU Scholarship for the International Space University
1992-1995	RHODES Scholarship
1992-1996	NSERC 1967 Graduate Scholarship – declined to pursue a masters' in Economics
1992	Arthur Surveyer's Gold Medal (best GPA of Polytechnique Montreal)
1992/05-1992/08	NSERC Industrial Scholarship (Spar Aerospace Ltd.)
1991-1992	Nova Corporation Award (1,000 \$) Sciex Inc. Award (1,000 \$) John H. Chapman Award (1500 \$) Polytechnique Montreal/McGill Commemorative Award UPIR Scholarship (Polytechnique Montreal)
1991/05-1991/08	NSERC Industrial Scholarship (Spar Aerospace Ltd)
1990-1991	Desjardins Foundation Scholarship (500 \$) Marconi Company Scholarship (1500 \$)

	Cyanamid Company Scholarship (750 \$)
1991/01-1991/04	UPIR Scholarship (Polytechnique Montreal)
1990/05-1990/08	NSERC University Scholarship (Polytechnique Montreal)
1989-1990	Desjardins Foundation Scholarship (500 \$)
1989-1990	Interprovincial Pipeline Scholarship (500 \$)
1989-1990	Hewlett Packard Award (350 \$)
1988-1992	Canada Scholarship (2,000 \$ per annum)
1988-1989	Polytechnique Montreal Scholarship (1,000 \$)
1985-1986	Canada's Governor General Academic Medal

COMMITTEE MEMBERSHIP

Academia

2021-12-present	<i>Editorial Board, Journal of Evolutionary Economics</i>
2021-10-present	Advisory Editor, journal <i>Research Policy</i>
2019-04-2023/12	Expert Panel on Clean Growth, Canadian Institute for Climate Choices (CICC)
2019/01-present	Canada Research Chair Equity, Diversity and Inclusion (EDI) Review Panel
2019/06-present	Advisory panel on “innovation and knowledge mobilisation, for and by users” (Institut TransMedTech)
2018/10-present	Committee on Gender, Equity, and Inclusion , <i>Fédération québécoise des professeures et professeurs d'université (FQPPU)</i>
2018/10-2019/06	Chair of the Committee on Gender, Equity, and Inclusion , <i>Fédération québécoise des professeures et professeurs d'université (FQPPU)</i>
2018/06-2021/05	Vice-president , <i>Association des Professeurs de l'École Polytechnique de Montréal (APEP – Union of the professors of Polytechnique Montreal)</i>
2007/06-2021/05	Conseil de direction (equivalent to a Management Board), APEP [2006/06-2007/10 ; 2013/06-2017/05 ; 2018/06-2021/05]
2016/08-2018/04	Expert panel on the State of Science and Technologies and Industrial Research and Development in Canada, Council of Canadian Academies (CCA)
2016/06-2017/04	Consultative Group – Queen Elizabeth Scholarship – advanced scholars
2016/09-2016/11	Negotiating Committee for the collective agreement between Polytechnique Montreal and APEP
2014/11-present	Canvassing Committee to Enhance Global Recognition for Canadian Research Excellence, initially chaired by the Governor General of Canada , now chaired by Howard Alper, Distinguished University Professor, University of Ottawa, since September 2017
2014/06-2016/09	Executive Board, Center for Interuniversity Research on Science and Technology (CIRST), Montreal
2014/06-2016/09	Research Group Leader – Innovation, CIRST, Montreal
2013/12-2015/01	Working Group Leader – Global State of Young Scientists Working Group, Global Young Academy (GYA), Berlin Germany
2013/10-2017/06	University Funding Committee, FQPPU
2013/06-2017/05	Treasurer , APEP

- 2011-2012 **Royal Society of Canada's** Task Force on a "Young Academy" that led to the creation of the **College of new scholars, artists and scientists** of the Royal Society of Canada
- 2010/01-2016/03 Executive Board, Ne³LS Network
- 2010/01-2016/03 Scientific Board, Ne³LS Network
- 2010/01-2016/03 Research Group Leader – Governance, Ne³LS Network
- 2010/02-2014/12 Founding Member, **Global Young Academy (GYA)**
- 2010/06-2014/07 Board of Management of the International Schumpeter Society (I.S.S.)

Government

- 2021/03- **Advisory Board** to the OECD Committee for Scientific and Technological Policy (CSTP)
- 2019/06- **Deputy Minister Steering Committee** for Policy Horizons Canada
- 2019/11-2021/03 **Board of Directors** of QuebecInnove
- 2019/04-2021/03 **External Advisory Committee** on Regulatory Competitiveness, Treasury Board Secretariat
- 2019/02-2019/05 **Expert Panel**, Communauté Métropolitaine de Montréal – Portrait and Diagnosis of the Greater Montréal Innovation Ecosystem
- 2018/12-2019/02 **Strategic Planning Committee** 2018-2021, QuébecInnove
- 2018/06-2023/03 **Governing Council**, Social Science and Humanities Research Council (SSHRC)
- 2016/05 **Selection Committee** for the Prix du Québec – Prix Léon-Gérin
- 2010/05-2014/06 **Consulting committee** on Science, Technology and Innovation, Quebec Statistics Institute

Private sector

- 2019/12-2021/10 Aero-Montreal: Selection committee for the Gilles Demers prize (Best SME in 2017/12-2018/03 Aerospace in Quebec)

International scholarship selection

- 2012-2014 Global Young Academy (GYA) selection committee
- 2009/01-2009/02 **Vanier** adjudication committee (Social Sciences and Humanities Research Council)
- 2007-2011 **Rhodes Scholarship Selection Committee** for Quebec
- 2003/03-2004/04 Selection Committee for the *Profil de Vinci* laureates, Polytechnique Montréal

Others

- 2002- Ordre des ingénieurs du Québec
- 1992- Canadian Association of Rhodes Scholars

HIGHLY QUALIFIED PERSONNEL

HQP categories <i>Complete details are provided in Appendix A</i>	Current team	Graduates of the past seven years and RAs	Over all
Students – Undergraduates	0	3	18
Students – Master's	2	22	47
Students – Doctorate	10	9 (+ 1 doctoral intern)	23 (+ 1)
Postdoctoral researchers	2	5	7
Research associates (RA)	3	3	6
Total	17	42 (+ 1)	101 (+ 1)

Note: *Several factors slowed recruitment in 2020-2021: the COVID-19 pandemic, the 4POINT0 mid-term evaluation, the renewal of the Tier 1 Canada Research Chair. HQP recruiting should be back on track shortly.

STUDENT EVALUATION

Catherine Beaudry works closely with other academics to help train the next generation of researchers. To this end, since becoming a professor, she has held several positions on committees for thesis defense, comprehensive examinations, and evaluations of master's reports, including:

<i>Complete details are provided in Appendix B</i>		Role:	President	Member
Doctorate	Committees for doctoral thesis defence		3	4
	Committees for comprehensive doctoral examination		13	2
	Representative of the director of graduate studies at doctoral thesis defence		N/A	2
Master's	Committees for master's thesis defence		11	3
	Second reader for master's report evaluation		N/A	13

TEACHING EXPERIENCE AND RELATED RESPONSIBILITIES

Polytechnique Montréal

- 2014/06-present Team leader of the master program in innovation and technology management
- 2011/06-2014/05 Team leader of the master program in technology management
- 2009/06-2013/05 Co-organiser of a new joint MBA for engineers with HEC Montreal
- 2009/06-2017/05 Member of the committee overseeing the development of a complementary programme on personal and business development for doctoral students at Polytechnique Montreal.
- 2008/04-2015 Team leader of the final year program on technological innovation (*Orientation thématique Innovation technologique*)
- 2007/08-present Innovation management (*Gestion de l'innovation*) – (graduate level)
- 2007/08-present Engineering economics (*Analyse de rentabilité pour ingénieur*) – (undergraduate level)
- 2007/06-2008/04 Co-instigator, designer and team leader of the final year program on management tools for engineers (*Orientation thématique Outils de gestion*)
- 2007/01-present Technology strategy (*Stratégies technologiques*) – (graduate level)
- 2002/09-2008/05 Engineering economics (*Économie de l'ingénieur*) – (undergraduate level)

Manchester Business School, UK

- 2000/01-2001/06 Microeconomics for engineers (undergraduate level)
- 2000/01-2001/06 Microeconomics for engineers (undergraduate level)
- 2000/10-2000/11 Microeconomics – Classes for MBA (graduate level)

University of Oxford, UK

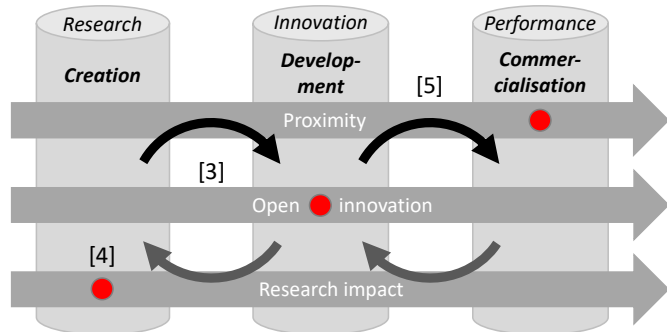
- 1995-1996 Economics – Tutor (undergraduate level, first year PPE)
- 1994-1995 Econometrics – Classes (graduate level, first year M.Phil.)

MOST IMPORTANT CONTRIBUTIONS

The first three most important contributions are particularly representative of the multidisciplinary nature that guides Prof Beaudry's research, i.e. integrating the evaluation of the research, science and technology system with the economics of innovation. The fourth and fifth contributions are more specific to each of the two major disciplinary fields.

1. Research on the integration of the innovation process: from science and technology (upstream), to commercialisation and innovation outcomes (downstream) [2014-2021]

The Canada Research Chair (Tier 1) on the creation, development and commercialization of innovation (Chair-Innovation – 2014/04 to 2021/03) was established in recognition of the importance of an ecosystem approach that considers the innovation process as a whole, from research to the commercialization of science, technology and innovation (STI). The Chair-Innovation was set up to integrate three strands of work, previously distinct in their approaches, from the work of Dr Beaudry on university-business collaboration and open innovation [3], factors influencing the performance and impact of funded research [4], and factors influencing the performance and survival of companies, including geographical proximity [5]. These themes are represented by three red dots in the figure opposite and described in points 3 to 5 below. Firmly anchored in an empirical approach, the research of the Chair has led to new innovation indicators being developed and validated. This is a major advance (see the most recent publication on this [A8]), being the first time that web-based indicators have been developed and validated using data obtained by state-of-the-art social science methods (i.e. administrative data and traditional survey questionnaires). Knowledge transfer and exchange with key partners and end users has occurred throughout. For example, the developed methodology was first presented at a high-level conference at Statistics Canada in 2015, and the first preliminary results were presented at the prestigious Blue Sky Forum III organized by the OECD in 2016.



[A8] Héroux-Vaillancourt, M., & Beaudry, C., & Rietsch, C. (2020). Using web content analysis to create innovation indicators - What do we really measure? *Quantitative Science Studies*, 1(4), 1601-1637.

Impact: Dr. Beaudry's research on web-based indicators allows the measurement of the impact of public policies in quasi-real time. For this reason, Dr Beaudry has been invited to be a member of the Advisory Board of the OECD Committee for Science and Technology Policy (CSTP). This committee aims to improve the resilience and responsiveness of science and innovation systems to all types of global emergencies through state-of-the-art analysis, policy and operational guidance to enable governments to adapt to systemic shocks to science, technology and innovation (STI) systems.

The work of the Innovation Chair on the integration of practices and policies (ecosystem approach) and the impact of different STI support mechanisms along the innovation chain directly responds to those needs identified by the Council of Canadian Academies' (CCA) expert panel on the state of science and technology (S&T) and industrial research and development (R&D) in Canada. In particular, Prof Beaudry helped the committee understand the importance of measuring impacts and the limitations of current data, especially with respect to multidisciplinary and cross-sectoral innovation that is difficult to attribute to a single industry.

Her research results on the techno-economic impact of public STI policies are also directly transferred to the federal government through the Policy Horizons Canada Deputy Minister Steering Committee, in which she participates. Her contribution consists of weaving together the different mandates of departments and agencies in the area of cross-cutting technologies and innovations.

The multidisciplinary nature of the Chair's work means that Dr. Beaudry participates in numerous projects, grants and research institutes related to her fields of expertise (e.g., Smart prosperity institute, Canadian Institute for Climate Change Options' expert committee on clean growth, ICSRD). It enables them to put in place best practices in supporting innovation.

2. Building and leading the Partnership for the organization of innovation and new technologies (4POINT0), and its data and text mining infrastructure [2018-2024]

Dr. Beaudry heads 4POINT0, a partnership that brings together more than 40 researchers from Canada, the United States, France, Italy and England, and more than 40 public and private partner organisations. 4POINT0 develops the concepts and analyses the model described in the figure above, as an innovation and business ecosystem. The research considers informal relationships and activities as well as the impact on

society. By this approach the 4POINT0 team seeks to understand how Quebec and Canada can take advantage of their strength in science and technology, build dynamic innovation ecosystems to take advantage of disruptive new technologies and contribute to strong economic growth. This requires designing new collaborative processes and practices, public policies and targeted innovation support mechanisms to improve the innovation performance of companies. To support 4POINT0, Dr. Beaudry has built and manages a powerful, avant-garde text and data mining infrastructure, which brings together under one roof all the data relevant to the measurement and economic impact of science, technology and innovation. The infrastructure allows the development of new innovation indicators adapted to the reality of new disruptive technologies. The close relationship between researchers, collaborators and partners is used to test and validate these new indicators which, in time, will be implemented in some partner organizations. Co-creation is therefore at the heart of 4POINT0. This partnership is supported by three major research grants of which Dr. Beaudry is the principal investigator: SSHRC – \$2.5M; FRQSC – \$603,740; and CFI John R. Evans Leaders Fund – \$500,000. Since its launch in September 2018, 4POINT0 already has 18 projects, 6 postdoctoral fellows, and supports the dissertations and theses of 51 students. A first peer-reviewed publication [A7] on public policies explains in detail the innovation ecosystem concept and suggests ways to measure its impact.

[A7] **Beaudry, C., & Solar-Pelletier, L.** (2020). The supercluster initiative: an opportunity to reinforce innovation ecosystems. *IRPP Study No. 79*. Montréal: Institute for Research on Public Policy.

Impact: As soon as 4POINT0 activities were launched, Dr. Beaudry was asked by the **Communauté Métropolitaine de Montréal** and **QuébecInnove** to help them coordinate the Montreal and Quebec innovation ecosystems respectively (she later joined the **Board of Directors of QuébecInnove**). Her current and past work on ecosystem collaboration on collaborative networks (see point 3 below) and industry clusters (see point 5 below) has allowed her to provide specific advice on which innovation support mechanisms to favour. For example, more than half of the “opportunities and threats” considered in QuébecInnove’s 2019-2024 strategic plan are barriers to or facilitators of innovation demonstrated in Beaudry’s research.

Dr. Beaudry has proposed a business model for innovation ecosystems (their governance) based on the triad of government support-intellectual property-regulation and standards. This model was noticed by the **Treasury Board Secretariat** and she was invited to contribute to the work of the External Advisory Committee on Regulatory Competitiveness (EACRC). The results of her work on the complementary and cumulative effect of barriers to innovation, including a cumbersome and complex regulatory process, were directly taken into account by the Bureau. Among the solutions it proposed, collaboration between different economic sectors as well as between different government agencies is at the heart of the mechanisms put in place by the secretariat (see the annual report: <https://www.canada.ca/en/treasury-board-secretariat/corporate/reports/annual-report-2020-2021-fiscal-year-federal-regulatory-management-initiatives.html>).

3. Partnership on Open Innovation in New Technologies (POINT – 2013-2017) and research on university-industry collaboration [2006-...]

These projects bridge the gap between Dr. Beaudry’s research on the impact of funded research and co-publication and co-invention networks (see publications [A6, A9-15, A18, A20-24]). As the literature in academic journals generally focuses on the influence of funding on scientific productivity, few studies have explored in detail the joint influence of funding and collaboration on academic innovation. To fill this gap, Beaudry & Kananian [A33] have developed the concept of “innovation loops” which follow the research investment of companies granting contracts to university researchers, who publish and appear as inventors on the patents of these same companies. These innovation loops have a positive effect on the quality of university inventions, which is facilitated by this proximity to the private sector.

[A33] **Beaudry, C., & Kananian, T. S. R.** (2013). Follow the (industry) money – The impact of science networks and industry-to-university contracts on academic patenting in nanotechnology and biotechnology, *Industry and Innovation*, 20(3), 241-260. (Impact Factor: 3.424)

This part of Dr. Beaudry’s work paved the way for the integration of her research on science and technology and that on the impact of innovation. Several pioneering articles by Dr. Beaudry have also demonstrated the complementary influence of a central position in collaborative networks, greater openness of innovation and significant funding. Tahmooresnejad and Beaudry [A13] have broadened the scope of patent

research by demonstrating that the position of a researcher and the structure of collaborative teams are effective means to enable university researchers to improve their technological output. This is the first study to demonstrate that diminishing technological returns to research funding cannot be offset by a better position within co-publication (science) and co-invention (technology) networks in the field of nanotechnology research in Canada and the United States. The political implication of these findings suggests that governments should allocate various smaller grants to researchers in order to improve research outcomes. This research work and the establishment of the Partnership on Open Innovation in New Technologies (POINT [2013-2017]) was funded by several team grants: FRQSC – \$416,416; SSHRC – \$199,950; and numerous grants from the Partnership Development, Insight, and Insight Development programs.

Impact: As a result of her work on co-invention networks, Dr. Beaudry presented her findings on the local and regional impact of university-firm collaboration leading to patents as an expert witness to the **Government of Canada’s Standing Committee on Industry, Science and Technology** for its study of Canada’s intellectual property regime. She was also asked by **Innovation, Science and Economic Development Canada (ISED)** to contribute to their analysis of the effectiveness of the Canadian patent system. In addition to her research on the commercialisation of university S&T, her contribution was also important for access to innovative knowledge (see CIPO’s Business Strategy - 2013: <https://www.competitionbureau.gc.ca/eic/site/cipolInternet-Internetopic.nsf/fra/wr03663.html>).

Invitations to present her research results on the impact of innovation support programs (Treasury Board Secretariat, Privy Council Office) stem directly from his research projects and his keen understanding of collaborative networks. In Quebec, her expertise has been put to good use in the Advisory Committee on Science, Technology and Innovation, **Institut de la statistique du Québec**.

She is also regularly consulted by funding agencies (Mitacs, SSHRC, NSERC, CFI, etc., and is a **member of SSHRC’s Council**). Her research on the impact of different programs, including the size of grants and teams, and the biases of performance indicators, helps them improve and define the mechanisms for supporting science and technology (S&T) in their strategic planning so as to maximize their influence in the knowledge ecosystem.

4. Research on factors that influence scientific impact and performance (e.g. funding, age and gender) across the world [2007-...]

From 2007 to 2010, Dr. Beaudry actively participated in the ‘*Capturing the impacts*’ of research initiative of the President of the Social Sciences and Humanities Research Council of Canada (SSHRC), Chad Gaffield at the time, being one of the researchers funded, organizing workshops, and producing several articles and discussion papers for the granting agency. For example, Beaudry and Allaoui [A37] exhaustively examine the influence of public and private funding of university research on researchers’ scientific output. The results show that industrial contracts do not have a negative effect and that, like other studies suggest, patenting positively influences scientific production. Moreover, the authors were the first to demonstrate that a greater integration of researchers’ collaborative networks eventually leads to diminishing returns of their scientific output.

[A37] **Beaudry, C., & Allaoui, S.** (2012). Impact of public and private research funding scientific production: The case of nanotechnology, *Research Policy*, 41(9), 1589-1606. (5-year impact factor: 8.110)

Impact: In September 2009, Dr. Beaudry was invited to the World Economic Forum Summer Davos in Dalian, China as an Outstanding Young Scientist selected by the Royal Society of Canada (RSC) and subsequently by the Interacademy Panel (IAP). Following the Forum, she was one of the young scientists who founded the Global Young Academy (GYA). The creation of the GYA was the spark that accelerated the creation of multiple National Young Academies around the world, which now number over fifty. Following this global movement, she contributed through a RSC working committee to the establishment of the RSC “College of New Researchers and Creators in Art and Science”.

Her expertise on the impact of funded research was also brought to bear when she led the pilot study on “The Global state of Young Scientists (GloSYS)” around the world (funded by the German Federal Ministry Education and Research –BMBF– \$145,350), and then co-directed the GloSYS-ASEAN study on factors that influence the career development, productivity, creativity and innovation of young scientists in South East Asia (funded by BMBF and Thailand National Science and Technology Development Agency –NSTDA–

\$120,000) on behalf of GYA. Drawing on the results of these two studies, she then conducted the biggest research project to date on the state of young researchers in Africa in collaboration with researchers from the University of Stellenbosch in South Africa (funded by the International Development Research Center – IDRC– \$538,000, and the Bosch Foundation – \$434,460). The first major publication of this project was the book [L1], which can be downloaded free of charge in pdf format in order to facilitate access to African decision-makers and researchers.

[L1] **Beaudry, C.**, Mouton, J. & Prozesky, H. (2018). *The next generation of scientists in Africa*, African Minds, Somerset West: South Africa.

This research has enabled her to identify and measure the extent of gender bias in different science systems around the world. What she has also demonstrated for Quebec [A20] is thus valid elsewhere: by controlling the impact factor of scholarly journals, the greater the proportion of women authors of an article, the less likely the article is to be quoted. This was the first time this important bias in science systems had been demonstrated.

[A20] **Beaudry, C.**, & Larivière, V. (2016). Which gender gap? Factors affecting researchers' scientific impact in science and medicine, *Research Policy*, 45(9), 1790-1817. (5-year impact factor: 8.110)

Outcomes: Going beyond the dominant discourse that women perform less well than men in science, this research measures the complementarities between several factors influencing scientific careers (presented notably at the Gender Summit and the Alexander von Humboldt Foundation). Dr. Beaudry's work makes it possible to distinguish the choices of researchers from the biases of the science system and thus to better target actions to correct these biases, in particular with regard to the early career of young women. Her contribution to the **Equity-Diversity-Inclusion Review Committee (EDI)** of the Canada Research Chairs Program and to the Equity-Diversity-Inclusion Committee (EDI) of the FQPPU is based on her econometric studies of the subject.

5. Research on industrial clusters and geographic proximity in general [1997-...]

After several years of studies on the impact of geographic proximity on business performance, Dr. Beaudry published an important meta-analysis of the literature on indicators used for empirical measurement of the impact of industrial clusters [A46]. This study constitutes a major contribution to the debate on the influence of externalities due to localization and urbanization on growth, productivity and innovation. The great variety of results observed in the literature does not seem to be explained by a difference in the agglomeration forces among industries, countries and periods, but rather by the level of industrial and geographic aggregation combined with the type of performance measure examined. When studies use a relatively detailed (three-digit) industry classification, for example, it is very difficult to distinguish between Marshall-Arrow-Romer (specialization) and Jacobs (diversity) externalities. From this emanates her interest in performance and innovation indicators, and the importance of using the right measure in order to adequately inform decision-makers (see points 1 and 2 above).

[A46] **Beaudry, C.**, Schiffauerova, A. (2009). Who's right, Marshall or Jacobs? The localisation versus urbanisation debate, *Research Policy*, 38(2), 318-337.

(> 1,140 citations, 5-year impact factor: 8.110)

Impact: Having started her research career on industrial clusters, Prof. Beaudry has been consulted on numerous occasions by companies on how to build a cluster (PricewaterhouseCoopers contract in 2008) or an innovation zone (information still confidential), the collaboration and intellectual property sharing mechanisms to be put in place.

PUBLICATIONS

The names of students and postdoctoral researchers are underlined

Refereed journal articles (published or accepted) [A]

[A1] Aksoy, A. Y., Pulizzotto, D., & Beaudry, C. (2022). University-Industry partnerships in the smart specialisation era. *Technological Forecasting and Social Change*, 176, 121438. [CRC]

[A2] Aksoy, A. & Beaudry, C. (2020). Empirical evidence of company size's effect on royalty, fixed fees and equity income during university research commercialisation through licensing. *Journal of Technology Transfer*, 46(6), 2051-2121. [CRC]

- [A3] Beaudry, C., Burger-Helmchen, T., & Cohendet, P. (2021). Editorial: Innovation policies and practices within innovation ecosystems. *Industry and Innovation*, 28(5), 535-544. [SSHRC]
- [A4] Ghiasi, G., Beaudry, C., Larivière, V., St-Pierre, C., Schifffauerova, A., & Harsh, M. (2021). What factors are associated with gender equity in Canadian nanotechnology? Implications for responsible innovation. *Scientometrics*, 126, 7937–7991. <https://doi.org/10.1007/s11192-021-04022-w>. [SSHRC]
- [A5] Mirnezami, S. R., & Beaudry, C. (2020). Does experiencing international research collaboration permanently affect the impact of scientific production? Evidence from Africa. *Journal of African Economies* (published online 2021-05-04). [IDRC]
- [A6] Tahmooresnejad, L., Beaudry, C., & Mirnezami, S. R. (2021). The study of network effects on research impact in Africa. *Science and Public Policy* (published online 2021-04-08). [IDRC] <https://doi.org/10.1093/scipol/scab030>.
- [A7] Beaudry, C. & Solar-Pelletier, L. (2020). The supercluster initiative : an opportunity to reinforce innovation ecosystems. *IRPP Study* No. 79. Montreal: Institute for Research on Public Policy. [SSHRC]
- [A8] Héroux-Vaillancourt, M., & Beaudry, C. (2020). Using web content analysis to create innovation indicators - What do we really measure? *Quantitative Science Studies*, 1(4), 1601-1637. [CRC, SSHRC]
- [A9] Mirnezami, S. R., Beaudry, C., & Tahmooresnejad, L. (2020). The effect of collaboration with top-funded scholars on scientific production. *Science and Public Policy*, 47(2), 219-234. [CRC, IDRC]
- [A10] Prozesky, H., & Beaudry, C. (2019). Mobility, gender and career development in higher education: Results of a multi-country survey of African academic scientists. *Social Sciences*, 8(6), 188, 1-14. [IDRC, Bosch Foundation]
- [A11] Tahmooresnejad, L., & Beaudry, C. (2019). Capturing the economic value of triadic patents. *Scientometrics*, 118(1), 127-157. [SSHRC, CRC]
- [A12] Tahmooresnejad, L., & Beaudry, C. (2019). Citation impact of public and private funding on nanotechnology research quality. *International Journal of Technology Management*, 79(1), 21-59. [SSHRC, CRC]
- [A13] Tahmooresnejad, L., & Beaudry, C. (2019). Collaboration or funding: lessons from a study of nanotechnology patenting in Canada and the United States. *The Journal of Technology Transfer*, 44(3), 741-777. [SSHRC]
- [A14] Tahmooresnejad, L., & Beaudry, C. (2018). Do patents of academic funded researchers enjoy a longer life? A study of patent renewal decisions. *PlosONE*, 13(8), e0202643. [CRC] <https://doi.org/10.1371/journal.pone.0202643>.
- [A15] Tahmooresnejad, L., & Beaudry, C. (2018). The importance of collaborative networks in Canadian scientific research. *Industry and Innovation*. 25(10), 990-1029. [SSHRC]
- [A16] Appio, F. P., Achiche, S., Martini, A., & Beaudry, C. (2017). On designers use of biomimicry tools during the new product development process: An empirical investigation. *Technology Analysis & Strategic Management*, 29(7), 775-789. [CRC]
- [A17] Armellini, F., Beaudry, C., & Kaminski, P. C. (2017). Open within a box: An analysis of open innovation patterns within Canadian Aerospace companies. *Sinergie*, 34(101), 15-36. [SSHRC, FRQSC]
- [A18] Barirani, A., Beaudry, C., & Agard, B. (2017). Can universities profit from general purpose inventions? The case of Canadian nanotechnology patents. *Technological Forecasting and Social Change*, 120(Supplement C), 271-283. [CRC]
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- [A20] Beaudry, C., & Larivière, V. (2016). Which gender gap? Factors affecting researchers' scientific impact in science and medicine. *Research Policy*, 45(9), 1790-1817. [CRC]
- [A21] Mongeon, P., Brodeur, C., Beaudry, C., & Larivière, V. (2016). Concentration of research funding leads to decreasing marginal returns. *Research Evaluation*, 25(4), 396–404. [CRC]
- [A22] Mirnezami, S. R. & Beaudry, C. (2016). The effect of holding a research chair on scientists' productivity. *Scientometrics*, 107(2), 399-454. [CRC]

- [A23] Mirnezami, S. R., Beaudry, C., & Larivière, V. (2016). What determines researchers' scientific impact? A case study of Quebec researchers. *Science and Public Policy*, 43(2), 262-274. [FRQSC, SSHRC]
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- [A32] Barirani, A., Agard, B., & Beaudry, C. (2013). Discovering and assessing fields of expertise in nanomedicine: a patent co-citation network perspective. *Scientometrics*, 94(3), 1111-1136. [CIHR, NSERC]
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- [A36] Barirani, A., Beaudry, C., & Agard, B. (2012). Analyse exploratoire de réseaux d'inventeurs: l'impact de la collaboration sur la valeur des brevets canadiens en nanotechnologie. *Journal Européen des Systèmes Automatisés*, 46(8), 855-875. [CIHR, NSERC]
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- [A38] Martin, A., Sullivan, P., Beaudry, C., Kuyumjian, R., & Comtois, J.-M. (2012). Space medicine innovation and telehealth concept implementation for medical care during exploration-class missions. *Acta Astronautica*, 81(1), 30-33. [FQRSC]
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- [A45] Schiffauerova, A., & Beaudry, C. (2011). Star scientists and their positions in the Canadian biotechnology network. *Economics of Innovation and New Technology*, 20(4), 343-366. [CIRANO, SSHRC]
- [A46] Beaudry, C., & Schiffauerova, A. (2009). Who's right, Marshall or Jacobs? The localisation versus urbanisation debate. *Research Policy*, 38(2), 318-337. [SSHRC]
- [A47] Beaudry, C., & Swann, G. M. P. (2009). Firm-level growth in industrial clusters of the United Kingdom. *Small Business Economics*, 32(4), 409-424. [Stanford University, SIEPR]
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- [A49] Schiffauerova, A., & Beaudry, C. (2009). Canadian nanotechnology innovation networks: intra-cluster, inter-cluster and foreign collaboration. *Journal of Innovation Economics*, 2(2), 119-146. [SSHRC]
- [A50] Marinova, M., Beaudry, C., Taoussi, A., Trépanier, M., & Paris, J. (2008). Economic assessment of rural district heating by bio-steam supplied by a paper mill in Canada. *Bulletin of Science, Technology & Society*, 28(2), 159-173. [NSERC]
- [A51] Beaudry, C. (2006). Enterprise in orbit: The supply of communication satellites. *Economics of Innovation and New Technology*, 15(7), 679-700. [Rhodes Trust, SSHRC, FCAR]
- [A52] Beaudry, C., & Breschi, S. (2003). Are firms in clusters really more innovative? *Economics of Innovation and New Technology*, 12(4), 325-42. [European Community TSER program]
- [A53] Beaudry, C. (2001). Entry, growth and patenting in industrial clusters: A study of the aerospace industry in the UK. *International Journal of the Economics of Business*, 8(3), 405-436. [European Community TSER program]

Books (published) [B]

- [B1] Beaudry, C., Mouton, J. & Prozesky, H. (2018). *The next generation of scientists in Africa*, African Minds, Somerset West: South Africa. [IDRC, Bosch Foundation]
- [B2] Council of Canadian Academies (2018). *Competing in a Global Innovation Economy: The Current State of R&D in Canada*. Ottawa (ON): Expert panel on the State of Science and Technologies and Industrial Research and Development in Canada, Council of Canadian Academies, 244 p. [CCA]
- [B3] Aubert, B., Beaudry, C., Hong, C., Lachance, J., de Marcellis-Warin, N., Pineau, P.-O., Rivard, S. Sloomakers, V., & Van Assche, A. (2010). *Le Québec à l'heure de la mondialisation*, CIRANO, Montréal, 149 p. [CIRANO]

Book chapters (published) [C]

- [C1] **Beaudry, C.** (2022). Comment la collaboration, le mentorat, le réseautage et une bonne dose d'audace permettent de naviguer sur une mer dominée par les hommes, in S. Allaire, & S. Deschenaux (éd.), *Récits de professeurs d'université à mi-carrière – Si c'était à refaire...* (chapter 16, pp. 177-186), Presses de l'Université du Québec (accepted 2020/12/08).
- [C2] Beaudry, C., Solar-Pelletier, L., St-Pierre, C. (forthcoming). Gender pay gap in Canadian Universities - A comprehensive analysis of the factors that influence its persistence, in Johnston, R., Momani, B., *Gender in the Academy* (chapitre 7). UBC Press (accepted 2020-09-30)

- [C3] Scrimin, L., Armellini, F., Brun, A., Solar-Pelletier, L., & Beaudry, C. (2021). Towards a framework for assessing the maturity of manufacturing companies in Industry 4.0 adoption, in Information Resources Management Association (Ed.), *Research Anthology on Cross-Industry Challenges of Industry 4.0*, (chapter 45, pp. 895-925). Hershey, PA, USA, IGI Global.
- [C4] Armellini, F., Beaudry, C., Bourgault, M., Cohendet, P., Simon, L., Solar-Pelletier, L., Sultana, N., Turkina, É. (2020). L'aérospatiale numérique au Québec : un écosystème innovant au cœur des enjeux de la société, in De-Marcellis, N., & Dostie, B., (eds.), *Le Québec économique 9 : Perspectives et défis de la transformation numérique* (chapter 18, pp. 457-470). Québec: Presses de l'Université Laval.
- [C5] Beaudry, C., Solar-Pelletier, L., Hage, G., Piantoni, G. (2020). Les technologies et les politiques en appui à l'essor de l'intelligence artificielle, in De-Marcellis, N., & Dostie, B., (eds.), *Le Québec économique 9 : Perspectives et défis de la transformation numérique* (chapter 4, pp. 113-147). Québec: Presses de l'Université Laval.
- [C6] Solar-Pelletier, L., Beaudry, C., Zhegu, M. (2020). Collaboration et innovation : comment la transformation numérique change la donne, in De-Marcellis, N., & Dostie, B., (eds.), *Le Québec économique 9 : Perspectives et défis de la transformation numérique* (chapter 6, pp. 171-201). Québec: Presses de l'Université Laval.
- [C7] Beaudry, C., & St-Pierre, C. (2019). How young scholars in four ASEAN countries forged successful research careers. In R. Arvanitis & D. O'Brien (Eds.), *The Transformation of Research in the South. Policies and Outcomes* (pp. 55-60). France: Editions des archives contemporaines.
- [C8] Armellini, F., Beaudry, C., & Mahon, M. (2018). The influence of the NIH and NSH syndromes for the adoption of open innovation in the Canadian aerospace sector. In U. Gråsjö, C. Karlsson, & I. Bernhard (Eds.), *Geography, Open Innovation and Entrepreneurship* (chapter 5, pp. 108-139). Cheltenham, UK: Edward Elgar Publishing.
- [C9] Héroux-Vaillancourt, M., & Beaudry, C. (2018). Are the most innovative Canadian nanotechnology-related firms also the most open. In U. Gråsjö, C. Karlsson, & I. Bernhard (Eds.), *Geography, Open Innovation and Entrepreneurship* (chapter 6, pp. 140-189). Cheltenham, UK: Edward Elgar Publishing.
- [C10] Scrimin, L., Armellini, F., Brun, A., Solar-Pelletier, L., & Beaudry, C. (2018). Towards a framework to assess the maturity for Industry 4.0 adoption in manufacturing companies. In R. Brunet-Thornton, F. Martínez (Eds.), *Analysing the Impacts of Industry 4.0 in Modern Business Environments* (chapter 12, pp. 224-255). Hershey, PA: IGI Global.
- [C11] Beaudry, C. (2016). Is collaboration important at all stages of the biotechnology product development process? In T. Bas, & J. Zhao (Eds.), *Comparative Approaches to Biotechnology Development and Use in Developed and Emerging Nations* (chapter 5, pp. 130-176). Hershey, PA: IGI Global.
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- [C15] Beaudry, C., & Larivière, V. (2015). Femmes et sciences. In J. Prud'homme, P. Doray, & F. Bouchard (Eds.), *Sciences, technologies et sociétés de A à Z* (pp. 106-109). Montréal: Presses de l'Université de Montréal.
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- [C17] Beaudry, C., & Tamooresnejad, L. (2013). Impact du financement public et privé sur le développement des nanotechnologies – Une étude sur la productivité de recherche au Québec, *Compendium de l'Institut de la Statistique du Québec*, Gouvernement du Québec, 51-76. [Ne³LS]
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- [C20] Schiffauerova, A., & Beaudry, C. (2009). Geographical aspects of collaborative networks in Canadian biotechnology clusters. In T.P. Nolin (Ed.), *Handbook of Regional Economics* (Chapter 8, pp. 193-221). Hauppauge, NY: Nova Publishers. [SSHRC]
- [C21] Beaudry, C., & de Marcellis-Warin, N. (2008). Sommes-nous prêts à faire face à la mondialisation de l'innovation? Les enjeux de la collaboration nécessaire à l'innovation au Québec et au Canada, in B. Aubert, C. Beaudry, C. Hong, J. Lachance, N. de Marcellis-Warin, P.-O. Pineau, S. Rivard, V. Sloomakers, A. Van Assche, *Le Québec à l'heure de la mondialisation*, CIRANO, pp. 101-138. [CIRANO]
- [C22] Beaudry, C., Breschi, S., & Swann, G. M. P. (2001). Clusters, innovation and growth: A comparative study of European countries, in J. Dunning and J.L. Mucchielli (eds), *Multinational Firms: The Global and Local Dilemma*. London, UK: Routledge, 190-213. [European Community TSER program]

Articles in conference proceedings (peer-reviewed complete articles) [CP]

(this kind of publication is quite rare in economics and management)

- [CP1] Aksoy, A., & Beaudry, C., & Pulizzotto, D. (2021). Aksoy, A., & Beaudry, C. (2021). The effects of patent portfolio diversification on university startup creation. *Danish Research Unit for Industrial Dynamics (DRUID) Conference*, Copenhagen, Denmark, 19-20 October.
- [CP2] Aksoy, A., & Beaudry, C. (2019). The effects of exclusivity and company size on university research commercialisation. *Danish Research Unit for Industrial Dynamics (DRUID) Conference*, Copenhagen, Denmark, 19-21 June.
- [CP3] Beaudry, C., & Prozesky, H. (2017). Factors that affect scientific production in Africa: a gender analysis, *Science, Technology and Innovation Indicators Conference - Open indicators: innovation, participation and actor-based STI indicators*, Paris, France, 6-8 September. [CRDI, Bosch Foundation]
- [CP4] Diagne, B., Beaudry, C., & St-Pierre, C. (2017). Impact of mobility and collaboration on scientific output in Africa: first lessons from a pan-African survey, *Science, Technology and Innovation Indicators Conference - Open indicators: innovation, participation and actor-based STI indicators*, Paris, France, 6-8 September. [CRDI, Bosch Foundation]
- [CP5] Ghiasi, G., Larivière, V., & Beaudry, C. (2017). Women in the Shadow of Big Men: The Case of Canada Excellence Research Chairs, *Science, Technology and Innovation Indicators Conference - Open indicators: innovation, participation and actor-based STI indicators*, Paris, France, 6-8 September. [SSHRC]
- [CP6] Prozesky, H., & Beaudry, C. (2017). Gender differences in African science, *Science, Technology and Innovation Indicators Conference - Open indicators: innovation, participation and actor-based STI indicators*, Paris, France, 6-8 September. [CRDI, Bosch Foundation]
- [CP7] Beaudry, C., & St-Pierre, C. (2016). What factors influence scientific and technological output: A comparison of Thailand and Malaysia, Conference Proceedings of the 21st International Conference on Science and Technology Indicators on *Peripheries, Frontiers and Beyond*, València, Spain, 14-16 September, chapter 10, pp. 819-831. [Thailand National Science, Technology and Innovation Policy Office (STI) and German Federal Ministry of Education and Research (BMBF)]
- [CP8] Beaudry, C., & Mirnezami, S. R. (2016). The effect of holding a research chair on scientists' impact, Conference Proceedings of the 21st International Conference on Science and Technology Indicators

- on *Peripheries, Frontiers and Beyond*, València, Spain, 14-16 September, chapter 9, pp. 718-732. [CRC]
- [CP9] Beaudry, C., & Naserbakht, N. (2015). Impact of patent-paper pairs on the quality of biotechnology and nanotechnology patents in Quebec, *Danish Research Unit for Industrial Dynamics (DRUID) Conference*, Rome, Italy, 15-17 June. [SSHRC]
- [CP10] Beaudry, C. (2014). Impact of research funding and scientific production on scientific impact: Are Quebec academic women really lagging behind? *8th Forum on the Internationalization of Sciences and Humanities: Beyond Bibliometrics – Identifying the Best*, Alexander von Humboldt Foundation, Berlin, Germany, 6-7 November, pp. 22-23. [SSHRC]
- [CP11] Beaudry, C. (2014). Impact of research funding and scientific production on scientific impact: Are Quebec academic women really lagging behind? *Danish Research Unit for Industrial Dynamics (DRUID) Conference*, Copenhagen, Denmark, 18-20 June, 41 p. [FRQSC, SSHRC]
- [CP12] Beaudry, C., & Kananian, R. (2012). Impact of university-industry contracts resulting in patents on the quality of patenting in biotechnology, *Danish Research Unit for Industrial Dynamics (DRUID) Conference*, Copenhagen, Denmark, 19-21 June, 31 p. (The paper was accepted for the conference but I could not attend for personal reasons and the paper was withdrawn.) [CIHR, SSHRC]
- [CP13] Martin, A., Beaudry, C., Sullivan, O., Kuyumjian, R., & Comtois, J.-M. (2012). Benefits of Space Medicine R&D for Space Exploration. *Proceedings Global Space Exploration Conference*, Washington USA, 22-24 May. [FQRSC]
- [CP14] Beaudry, C., & Allaoui, S. (2011). Impact of research funding on nanobiotechnology scientific production: Does concentration in a few universities make sense? *Atlanta Conference on Science and Innovation Policy: Building Capacity for Scientific Innovation and Outcomes*, ACSIP 2011 IEEE Computer Society (DOI: 10.1109/ACSIP.2011.6064461). [CIHR, SSHRC]
- [CP15] Beaudry, C., & Levasseur, J. (2011). What influences the survival of Canadian biotechnology firms, *Danish Research Unit for Industrial Dynamics (DRUID) Conference*, Copenhagen, Denmark, 15-17 June, 23 p. [SSHRC, Quebec Ministry of finance]
- [CP16] Endo, C.-A., Émond, C., Battista, R., Parizeau, M.-H., & Beaudry, C. (2011). The Ne³LS Network, Québec's initiative to evaluate the impact and promote a responsible and sustainable development of nanotechnology, *Nanosafe 2010: International Conference on Safe Production and Use of Nanomaterials, Journal of Physics: Conference Series 304 012090* (DOI:10.1088/1742-6596/304/1/012090). [Ne³ls Network]
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INVITED PANNELIST OR SPEAKER [IP]**Academia [66 invited presentations]**

- [IP1] Invited panelist (2021/12/10): Medicine by Design Annual Symposium (University of Toronto) – A systems approach to regenerative medicine: Strengthening our Innovation Ecosystem.
- [IP2] Invited seminar (2021/11/29): Manchester Institute Of Innovation Research Seminar Series (Alliance Manchester Business School, United Kingdom): *How Canadian firms mitigate innovation barriers to (try to) remain innovative.*
- [IP3] Invited panelist (2021/11/05): The Convergent Innovation Webinar Series (McGill University): *Addressing the wicked problems of health and access to affordable food/medicine/healthcare/through open science partnerships.*
- [IP4] Keynote speaker (2021/10/25): **Mitacs Research Council Meeting: Support for the effective functioning of innovation ecosystems in Canada that go beyond funding for R&D.**
- [IP5] Invited panelist (2021/09/03): Closing Grand Panel – CIRST Conference on Economy of promises: *Industry 4.0 and other technological promises.*
- [IP6] Invited speaker (2021/04/09): University of Gothenburg network for Knowledge-intensive Innovative Ecosystems (U-GOT KIES) Workshop on New data sources and methods: *The exploration of new data sources and methods – New innovation indicators appropriate to measure the performance and impact within/of innovation ecosystems.*
- [IP7] Invited panelist (2020/11/24): Book launch conference: Le Québec économique 9 : Perspectives et défis de la transformation numérique – Table ronde 1 – Les écosystèmes, l'état et les entreprises face à la transformation numérique : *Les technologies et les politiques publiques en appui à l'essor de l'intelligence artificielle.*
- [IP8] Invited speaker (2020/11/05): L'École d'automne en management de la créativité – Créativité des organisations et transitions : *La transition vers l'innovation durable: de l'utopie à la réalité.*
- [IP9] Invited panelist (2020/06/15): Sommet de l'innovation durable du CIRODD – *Comment s'assurer que l'innovation soit toujours durable?*

- [IP10] Invited panelist (2020/07/16): Munk School of Global Affairs – Innovation Policy Lab Webinar focused on *Exploring the short and long term impacts of the COVID-19 pandemic on innovation and entrepreneurial ecosystems*. (<https://www.youtube.com/watch?v=72tQldS-X0Y>)
- [IP11] Invited panelist (2020/06/17): Inaugural Webinar of the Centre interuniversitaire de recherche en opérationnalisation du développement durable (CIRODD) : *L'innovation durable en soutien à la résilience sociétale*. (<https://cloud.cirodd.org/index.php/s/KrZoXg05z6AgjOv/download>)
- [IP12] Invited seminar (2020/03/11): Seminar series of the course Precision Retailing: Decision Making Science for Convergence Insights, Analytics, and Innovation, McGill University, Montreal, Canada: *The Open Innovation Journey: A Comparative Analysis of the Quebec and São Paulo Aerospace Industry*.
- [IP13] Invited panelist (2019/11/04): Entretiens Jacques Cartier – Atteindre les ODD en combinant leviers technologiques et computationnels, économie circulaire et transdisciplinarité. Mission impossible ? Montréal, Canada : *Transdisciplinarité et Innovation : Transformation numérique de la mobilité du capital humain au service de l'innovation et de la productivité – rêvons un peu!*
- [IP14] Invited panelist (2019/11/04): Entretiens Jacques Cartier – Les écosystèmes d'innovation ouverte favorisant la recherche collaborative en technologies médicales et leur intégration, Montréal, Canada : *Écosystèmes d'innovation en santé : une synthèse de leurs composantes*.
- [IP15] Invited panelist and chair (2019/05/15): AERO19 – Annual Conference from the Canadian Aeronautics and Space Institute, Laval, Canada: *Industry 4.0 – Results from the Survey of Advanced Technology 2014*.
- [IP16] Invited speaker (2019/05/09): Round table of the Institut TransMedTech: *Comment miser sur les écosystèmes d'innovation ?*
- [IP17] Invited seminar (2019/05/02): Max Planck Institute of Economics and Friedrich Schiller University, Jena, Germany: *Beyond the innovation obstacle paradox – The role of government support in helping firms overcome these obstacles and innovate*. (500th anniversary of the death of Leonardo da Vinci)
- [IP18] Invited panelist (2019/04/25): CIRANO 25 Years Conference – 25 Years of Public Policy in Quebec, Montréal, Canada: *Les programmes gouvernementaux aident-ils les entreprises à surmonter les obstacles à l'innovation*.
- [IP19] Invited speaker (2018/11/08-09): SciSTIP Planning roundtable – Science and higher education in Africa: A research agenda for the future, Stellenbosch, South Africa – Session 3: Human resources for S&T: Scientists, researchers and doctoral students: *Gender issues in science*.
- [IP20] Invited debater (2018/06/11-13): DRUID Conference, Copenhagen, Denmark: Arguing against the motion: *The focus on 'star scientists' in science and innovation policy is misplaced, and detrimental to development of effective policies for economic development*.
- [IP21] Invited speaker (2018/06/10): Workshop on the Geographical and Organizational Mobility of Scientists, Copenhagen, Denmark: *African scientists' mobility*.
- [IP22] Invited panellist (2018/06/01-03): 52nd Conference of the Canadian Economic Association, Montreal, Canada:
- 1st panel (IRPP): *Innovation Policies in the Wake of the 4th Industrial Revolution*;
- [IP23] - 2nd panel (CIRANO-Phelps-RIIB Panel on Competition and Innovation): *The role of government support in helping firms overcome IP, regulation and competition policy obstacles to innovation*;
- [IP24] - 3rd panel (CSLS-Productivity Partnership Panel on Explaining Canada's Post-2000 Productivity Performance): *Explaining Canada's post-2000 productivity performance III: Can the productivity slowdown be reversed and if so, how?*
- [IP25] Invited speaker (2018/04/25-27): Fifth Annual Creating Digital Opportunity (CDO) Partnership Network Conference, Vancouver, Canada: *Competing in a global innovation economy: The current state of R&D in Canada, Presentation of the CCA report from the Expert Panel on the State of Science and Technology and Industrial Research and Development in Canada*.
- [IP26] Invited speaker (2018/03/01-02): Economics and Environmental Policy Research Network (EEPRN) Research Symposium, Ottawa, Canada: *Public institutions and governance models for a low carbon economy*.

- [IP27] Invited speaker (2018/01/30): Réseau de recherche en interventions en sciences infirmières du Québec (RRISIQ), Montreal, Canada: *Discrimination envers les femmes scientifiques en santé: moins citées et moins payées.*
- [IP28] Invited speaker (2017/11/07-09): CREST-CWTS Bilateral Seminar, Stellenbosch, South Africa: *Salary inequalities between university professors in Canada - Gender and other related issues.*
- [IP29] Invited panellist (2017/11/06-08) [replaced by Pauline Huet, co-author as I was on sabbatical leave in South Africa]: **Gender Summit – Embracing pluralism and thriving through diversity – Shaping science and innovation**, Montreal, Canada: *Unions and the gender pay gap among university professors in Canada. Preliminary results from a recent data collection.*
- [IP30] Invited speaker (2017/10/20) [replaced by Pauline Huet, co-author] Annual General Meeting of the Fédération québécoise des professeures et professeurs d’université (FQPPU), Montréal: *Inégalités de salaires parmi les professeurs d’université au Canada – Résultats préliminaires.*
- [IP31] Invited speaker (2017/06/18-21): Canadian Agricultural Economic Society (CAES) Annual Meeting, Montreal, Canada, Montreal, Canada: *Analytical work in agriculture and agri-food innovations – Database solutions to farming.*
- [IP32] Invited panellist (2017/05/11-12): Assises du CIRODD – Innover pour une santé durable – Innovation sociale et innovation technologique alliées pour le bien commun, Montreal, Canada: *Innover pour une santé durable – Innovations technologiques et autres.*
- [IP33] Invited expert (2017/03/24): **Innovation, Science and Economic Development Canada 2017 Symposium on the effectiveness of the Canadian patent system**, Ottawa, Canada: *Open, collaborative, and user innovation.*
- [IP34] Invited speaker (2017/03/07): Journée des femmes en sciences, UQAM, Montréal: *Quel biais de genre ? Les facteurs influençant l’impact scientifique en science et en médecine.*
- [IP35] Invited speaker (2016/11/28): 2^{ème} Forum d’échange sur les Prix internationaux – Un essor à la reconnaissance scientifique, Palais des congrès, Montreal. [Presentation of the Governor General’s initiative to enhance global recognition for Canadian research excellence]: *Mise à jour des travaux du groupe de travail du Gouverneur général du Canada.*
- [IP36] Invited speaker (2016/05/09-12): ACFAS Conference – Les sciences sociales et humaines au cœur de l’innovation, Montreal, Canada : *Collaboration interorganisationnelle – intrasectorielle et intersectorielle – Réflexions basées sur un atelier de cocréation et sur les enquêtes de POINT.*
- [IP37] Invited speaker (2016/01/21-22): IDRC-IRD-OECD-IFRIS International conference on The transformation of research in the south: policies and outcomes, Paris, France: *Taking a leap of faith: How young scholars in four ASEAN countries forge ahead for successful research career.*
- [IP38] Invited panellist (2015/11/25-27): Canadian Science Policy Conference, Ottawa, Canada: *Insights into ICT hardware networks in Canada: A focus on collaboration.*
- [IP39] Invited speaker (2015/04/17): Forum de la FQPPU sur les services à la collectivité, Montréal, Canada : De la collégialité à l’individualisme : *Comment la pression des comités de pairs change nos universités.*
- [IP40] Invited debater (2015/03/31-2015/04/01): 14th Annual ReSearch Money Conference, Ottawa, Canada: *Canadian innovation policy is too narrowly focused on R&D.*
- [IP41] Invited speaker (2014/11/06-2014/11/07): 8th Forum on the Internationalization of Sciences and Humanities: Beyond Bibliometrics – Identifying the Best, **Alexander von Humboldt Foundation, Berlin, Germany**: *Impact of Research Funding and Scientific Production on Scientific Impact: Are Quebec Academic Women Really Lagging Behind?*
- [IP42] Invited panelist (2014/11/03): Colloque à l’occasion du 5^{ème} anniversaire du Québec économique : « Vers une gestion publique influencée par les résultats de la recherche sur les politiques publiques », CIRANO, Montreal: *Growth and public policy.*
- [IP43] Invited speaker (2014/09/17): 50th Anniversary of the Fonds de recherche du Québec – Santé: La recherche intersectorielle pour la santé de demain – de l’infiniment grand à l’infiniment petit, Montréal, Canada: *“The Global State of Young Scientists (GloSYS)” – Résultats de l’enquête préliminaire.*

- [IP44] Invited speaker (2014/06/21-26): EuroScience Open Forum: Science Building/Bridges, Copenhagen, Denmark: *What environment is required to fulfill the role of a scientist?*
- [IP45] Invited speaker (2014/04/30-2014/05/01): Journées du CIRST, Montreal, Canada: *L'état des jeunes scientifiques dans le monde : Constats méthodologiques de l'étude de la "Global Young Academy"*.
- [IP46] Invited speaker (2014/04/22): Institut National de la Recherche Scientifique (INRS), Varenne, Canada: *Impact du financement public et privé sur les nanosciences et les nanotechnologies*.
- [IP47] Invited speaker (2014/01/21): Berlin Brandenburg Academy of Sciences and Humanities – Launch of the GloSYS report and Press conference, Berlin, Germany: *Main results of the Global State of Young Scientists*.
- [IP48] Invited speaker (2013/05/13-15): Global State of Young Scientists (GloSYS) Workshop, Hanover, Germany: *The impact of women scientists in biotechnology*.
- [IP49] Invited round table speaker (2012/05/21-23) [organised by CIRANO]: Proximity Days 7th Edition, Montréal, Canada: *Quantitative methods and proximity*.
- [IP50] Invited speaker (2012/02/16-21): **American Association for the Advancement of Science (AAAS)** Annual meeting: Flattening the World – Building a global Knowledge Society, Vancouver, Canada: *Is youth wasted on the young ... scientists*.
- [IP51] Invited panellist (2011/11/16-18): Canadian Science Policy Conference, Ottawa, Canada: *Challenges for Young Researchers: Insights from the 2011 PAGSE Symposium*.
- [IP52] Invited seminar (2011/02/28): Telfer School of Business, Ottawa, Canada: *Is biotechnology losing ground? A study of the survival and growth factors of Canadian biotechnology firms*.
- [IP53] Invited speaker (2011/02/18-19): Atelier DIME – The organization, Economics and Policy of Scientific Research, Turin, Italy: *Impact of research funding on nanobiotechnology scientific production: does concentration in a few universities make sense?*
- [IP54] Invited speaker (2010/03/24-26): Transatlantic Workshop on Nanotechnology Innovation and Policy, Atlanta, GA, USA: *Is Canadian intellectual property leaving Canada? The study of nanotechnology patenting*.
- [IP55] Invited Young Scientist (2010/02/14-16): *Global Young Scientists Academy Conference*, Berlin, Germany. [One of two Canadian scientists selected]
- [IP56] Invited seminar (2010/02/08): Telfer School of Business, Ottawa, Canada: *Knowledge intensive business services: Innovation and cooperation activities*.
- [IP57] Invited speaker (2009/06): Association Internationale de Management Stratégique (AIMS), Grenoble, France: *Localisation des activités de R&D dans un champ en émergence. Le cas des nanotechnologies*.
- [IP58] Invited speaker (2008/05/03): Nanobank Research Conference, Boston, MA, USA: *Geographical aspects of collaboration in Canadian nanotechnology innovation*.
- [IP59] Invited speaker (2008/05/01-02): National Bureau of Economic Research (NBER) Conference – Emerging Industries: Nanotechnology and NanoIndicators, Boston, MA, USA: *Collaboration and network indicators in Canadian nanotechnology*.
- [IP60] Invited panelist (2007/12/03-04): Entretiens Jacques Cartier: Workshop Nanosciences et nanotechnologies: quelles ruptures, Grenoble, France:
- 1st Panel: *De l'idée au brevet – espaces géographiques et technologiques ;*
- [IP61] - 2nd Panel: *Le modèle d'affaires des industries sera-t-il modifié avec les nanotechnologies*.
- [IP62] Invited seminar (2001/02/22): CIRANO, Montreal, Canada: *Cluster, innovation and growth: A study of European Countries*.
- [IP63] Invited seminar (1999/09): European Summer School on Industrial Dynamics, Cargèse, France: *Enterprise in Orbit: The Supply of Communication Satellites, 1964-92*.
- [IP64] Invited seminar (1999/02/24): School of Management, University of Manchester Institute of Science and Technology (UMIST), Manchester, United Kingdom: *Enterprise in Orbit: The Supply of Communication Satellites, 1964-92*.

[IP65] Invited seminar (1998/11/26): Policy Research on Engineering, Science and Technology (PREST), University of Manchester, Manchester, United Kingdom: *Cluster, growth and the age of firms: A study of seven European Countries*.

[IP66] Invited seminar (1995/03): Institut d'Économie Industrielle, Toulouse, France: *Bidding for Satellite Contracts*.

Government [34 invited presentations]

[IP67] Invited panelist (2021/10/19): Innovation+ (Centre hospitalier de l'Université de Montréal – CHUM): *Les communautés et écosystème amplifiant les innovations*.

[IP68] Invited panellist (2021/06/09): **Policy Horizon Canada – Futures Week** : *The future of value in the next digital economy*.

[IP69] Invited panellist (2020/12/09): **OCDE Working party on Technology and Innovation Policy (TIP)** : What role for science, technology and innovation un building resilience : *How can STI systems help prepare for future shocks*.

[IP70] **Invited expert witness** (2019/11/17): **Council of Canadian Academies** – Scientific Advisory Committee – Subcommittee on S&T Methods: *The importance of validating new data and methods for accurate STI measurement*.

[IP71] Invited seminar (2019/04/15): Economic Statistics Forum (Statistics Canada's monthly seminar series)

- 1st panel (with Georges Hage): *The adoption patterns of advanced technology in Canada*;

[IP72] - 2nd panel (with Mikaël Héroux-Vaillancourt): *Using the web as a data source for measuring firm-level innovation*.

[IP73] Invited panellist (2019/04/11): International Development Research Center (IDRC), Ottawa, Canada: *Breaking glass ceilings in science and research in the Global South*.

[IP74] Invited speaker (2019/03/12): The 5 à 7 events, hosted by the Institute for Research on Public Policy (IRPP), Montréal : *Comment miser sur les écosystèmes d'innovation?*

[IP75] Invited speaker (2018/11/05-2018/11-09): **The Science Granting Councils Initiative in Sub-Saharan Africa Annual Forum, Global Research Council Africa Regional Meeting/Partnership for Impact Dialogue: Investing in Research and Innovation in Africa**, Abidjan, Ivory Coast – Session 3: Challenges Facing Young Scientists and How to Respond: *Challenges facing young scientists in Africa: What over 7,000 of them say – key findings and recommendations*.

[IP76] Invited speaker (2018/06/28-2018/06/29): 3rd OECD Annual Conference of the Global Forum on Productivity – Firms, Workers and Disruptive Technologies: Ensuring Sustainable and Inclusive Growth, Ottawa, Canada: *From clusters to innovation ecosystems - How technology can help us better measure their impact*.

[IP77] Invited panellist (2018/06/27): Health Canada – Health Products Stakeholder Engagement Session, Ottawa, Canada: *The Evolving Role of the Regulator*.

[IP78] Invited speaker (2018/06/04): Atelier sur l'enquête sur l'innovation et les stratégies d'entreprise de Statistique Canada:

- 1st panel: *Beyond the innovation obstacle paradox – The role of government support in helping firms overcome these obstacles and innovate*;

[IP79] - 2nd panel: (with Charles Bérubé): *Does opening innovation increase the performance of firms*.

[IP80] Invited speaker (2018/05/17-2018/05/18): Institute for Research on Public Policy (IRPP) Symposium on A New Take on Innovation in Canada, Ottawa, Canada: *Boosting the Demand Side: From clusters and networks to innovation ecosystems*.

[IP81] Invited speaker (2018/03/01): Workshop of international experts on *Using Econometric Approaches to Evaluate Business Support*, **Treasury Board of Canada Secretariate, Canadian Government**, Ottawa, Canada:

- 1st panel: *Impact assessment – Using econometric approach to evaluate business support*;

[IP82] - 2nd panel: *Lessons learned from econometric program assessment*.

[IP83] Invited panellist (2018/02/02): Joint inclusive growth and economic trends and policies roundtable discussion on the socioeconomic impacts of disruptive technologies, **Privy Council Office, Canadian**

- Government**, Ottawa, Canada:
- 1st panel: *Improving support for innovation and technological adoption*;
- [IP84] - 2nd panel: *Legal stress points and barriers to innovation*.
- [IP85] Invited seminar (2018/01/31): International Development Research Center (IDRC), Ottawa, Canada: *Young scientists in Africa - Headline results from the web-based survey and the bibliometric analysis*.
- [IP86] Invited speaker and discussion leader (2017/03/24): 2017 Symposium on the Effectiveness of the Canadian Patent System – Problem solving breakout session. Innovation, Sciences and Economic Development Canada (ISED), Ottawa: *Open, collaborative, and user innovation*.
- [IP87] Invited speaker (2016/09/19-21): **3rd OECD Blue Sky Conference** on Informing Science and Innovation Policies – Towards the Next Generation of Data and Indicators, Ghent, Belgium: *Validation of a web mining technique to measure innovation in the Canadian nanotechnology-related community*.
- [IP88] Invited speaker (2015/10/22-23): Statistics Canada research workshop on Identifying and closing gaps in measuring innovation, Ottawa, Canada:
- 1st panel: *Open innovation and open business models in the Canadian Aerospace Industry*;
- [IP89] - 2nd panel: *Commercialising nanotechnology – information from scraping the web*.
- [IP90] Invited focus group participant (2014/07/23): Modernisation of the thematic network program of the Fonds de recherche du Québec – Santé (FRQS).
- [IP91] Invited seminar (2014/05/07): International Development Research Center (IDRC), Ottawa, Canada: *The Global State of Young Scientists (GloSYS) Presentation of the main results from the precursor survey*.
- [IP92] Invited speaker (2014/02/28): Statistics Canada workshop on Innovation indicators – data gaps, requirements and directions, Ottawa, Canada: *Innovation or the commercialisation of research results: How are data collection and analysis to adapt to new open business models and innovation?*
- [IP93] Invited seminar (2013/12/03): Science Policy Research Unit (SPRU), University of Sussex, United Kingdom (with Seyed Reza Mirnezami): *Revisiting the determinants of scientific publication citation*.
- [IP94] Invited seminar (2013/11/27): Max Planck Institute of Economics and Friedrich Schiller University, Jena, Germany: *What influences scientific productivity and quality – Exploring the performance of Quebec scientists*.
- [IP95] Invited seminar (2012/11/29): Social sciences and humanities research council (SSHRC), Ottawa, Canada: *“Capturing the Impacts” of Research*.
- [IP96] Invited expert witness (2012/05/17): Presentation to the **Standing Committee on Industry, Science and Technology of the Government of Canada** for their study of the Intellectual property regime in Canada: *Intellectual property system in Canada*.
- [IP97] Invited seminar (2011/12/01): Institut de la statistique du Québec, Montreal, Canada: *Étude économétrique sur les facteurs de survie, de croissance et d’innovation des entreprises de biotechnologie*.
- [IP98] Invited seminar (2011/09/27): Industry Canada, Ottawa, Canada: *Description of the Partnership for Open Innovation in the New Technologies*.
- [IP99] Invited seminar (2009/05/29): Institut de la Statistique du Québec, Quebec, Canada (with D. Doloreux, with N. Amara, R. Landry, R. Shearmur, P. Therrien): *Services à forte intensité de connaissance: innovation et géographie*.
- [IP100] Invited seminar (2000/11/29): United Kingdom Radio-communication Agency, London, United Kingdom: *Economics of communication satellites, 1964-1992*.

Private sector [9 invited presentations]

- [IP101] Invited panelist (2020/11/25): **C.D. Howe Institute** Webinar with with Dr. Catherine Beaudry, Daniel Herman and John Knubley: *Reviewing the Innovation Superclusters Initiative: Success or Failure?*
- [IP102] Invited speaker (2020/12/09): Healthtech webinar – International mission Paraná-Québec : *Innovation ecosystems*.

- [IP103] Invited speaker (2020/05/21): **Chamber of Commerce of Metropolitan Montreal**: Strategic Analysis Committee: Innovation & Disruptive Technologies, Montreal : *Commercialisation de l'innovation : obstacles, adoption et écosystèmes*.
- [IP104] Invited panellist (2019/11/13-15): 4.0 au féminin – Sommet mondial des femmes dans l'industrie manufacturière, Montréal Canada: *Opening panel on innovation 4.0 – Transformation numérique ? L'histoire nous dit que les femmes relèveront le défi*.
- [IP105] Invited speaker (2019/06/04-06): Movin'On Summit: *Human capital mobility – A crucial contribution to innovation*.
- [IP106] Invited panellist (2017/05/17-18): Congrès de l'Association des économistes Québécois (ASDEQ) sur les Technologies perturbatrices – des opportunités à saisir, des défis à relever, Gatineau, Canada: *Concurrence internationale et course à l'innovation – Les nouvelles conditions de la concurrence industrielle*.
- [IP107] Invited Young Scientist (2009/09/09-13): **World Economic Forum** – Annual meeting of the new champions 2009 and 2nd IAP/WEF Young Scientist Conference, Dalian, China. [One of two Canadian scientists selected by the Royal Society of Canada and then chosen as one of the 60 **Outstanding Young Scientists** selected by the InterAcademy Panel]
- [IP108] Invited panelist (2009/09/11): **World Economic Forum** – Annual Meeting of the New Champions, Dalian, People's Republic of China: *Groundbreaking ideas for social change*. (<https://members.weforum.org/pdf/AMNC09/socialchange.pdf>)
- [IP109] Invited speaker (2009/10/29): 7th Forum of the Chemical Industry, Boucherville, Canada: *Collaboration et réseaux d'innovation de biotechnologie : État des lieux, risques et opportunités*.

CONFERENCE PRESENTATIONS (OTHER THAN INVITED) [P]

The names of students and postdoctoral researchers are underlined

2021 [Most conferences pivoted online due to the COVID-19 pandemic]

- [P1] Beaudry, C. (2021). The State of Young Scholars and Scientists in Africa – New Insights on the mobility, scientific performance and research impact of African scientists, IDRC Webinar – *The State of Young Scholars and Scientists in Africa – New Insights*, online, 9 June.
- [P2] Diagne, B., & Beaudry, C. (2021). Beaudry, C. (2021). Scientific mobility performance in a multi-country survey of african academic scientists, IDRC Webinar – *The State of Young Scholars and Scientists in Africa – New Insights*, online, 9 June.
- [P3] Mirnezami, S. R., & Beaudry, C. (2021). Does experiencing international research collaboration permanently affect the impact of scientific production? Evidence from Africa, IDRC Webinar – *The State of Young Scholars and Scientists in Africa – New Insights*, online, 9 June.
- [P4] Tahmooresnejad, L., Beaudry, C., & Mirnezami, S. R. (2021). The study of network effects on research impact in Africa, IDRC Webinar – *The State of Young Scholars and Scientists in Africa – New Insights*, online, 9 June.
- [P5] Rad, M., Sarencheh, S., Schiffauerova, A., & Beaudry, C. (2021). Effect of social and personal characteristics of innovators on the economic performance: The study of patent commercialization in Canadian nanotechnology innovation ecosystem, First 4POINTO Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems* (P4IE), online, 11-13 May.
- [P6] Da Silva, R. H., Balieiro, F., Armellini, F., Beaudry, C., & Kaminski, P. C. (2021). Using text mining tools to extract relevant information on sustainable mobility, First 4POINTO Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems* (P4IE), online, 11-13 May.
- [P7] Mahecha, D., Beaudry, C., Aubin, C. É., & Armellini, F. (2021). Numerical transformation in the “health ecosystem” – A bibliometric analysis, 1994-2021, First 4POINTO Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems* (P4IE), online, 11-13 May.
- [P8] Ramdani, A., Beaudry, C., & Bourgault, M. (2021). Collaborative network in Canada's 5G innovation ecosystem, First 4POINTO Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems* (P4IE), online, 11-13 May.

- [P9] Taherizadeh, A., Beaudry, C., Syal, G., & Rabearivelo, H. (2021). Bridging the gap in digital transformation dialogue: Business and technology sides, First 4POINTO Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems* (P4IE), online, 11-13 May.
- [P10] Mahecha, D., Beaudry, C., & Molaret, P. (2021). The industry productivity and the link with the adoption of advanced technologies – A case study in Quebec, First 4POINTO Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems* (P4IE), online, 11-13 May.
- [P11] Da Silva, R. H., Armellini, F., Beaudry, C., & Kaminski, P. C. (2021). Using text mining to extract information about sustainable mobility initiatives by automakers, Gerpisa International Colloquium on *The Transformations of the Global Auto Industry: Digitalisation, Ecological Transition and the Impact of the COVID-19 Crisis*, online, 14-18 June.
- 2020 [Most conferences have been postponed due to the COVID-19 pandemic]**
- [P12] Mahecha, D., **Beaudry, C.**, Aubin, C. E., & Armellini, F. (2020) Que peuvent nous dire les publications sur les écosystèmes d'innovation en santé?, Proceedings of the 35^e Congrès de la recherche du CHU Sainte-Justine, Montréal, QC, 20 November.
- [P13] Mahecha, D., **Beaudry, C.**, Armellini, F. & Aubin, C.-É. (2020). What can latent dirichlet allocation topic modeling say about ecosystems, *3rd International Conference on Advanced Research Methods and Analytics* [CARMA 2020], València, Spain, 8-9 July.
- 2019**
- [P14] Hage, G., Beaudry, C., & Therrien, P. (2019). Advanced technology adoption and its impact on innovation performance, *9th Global TechMining Conference*, Atlanta, USA, 17 October. [CRC, SSHRC]
- [P15] Héroux-Vaillancourt, M., Beaudry, C., & Dalziel, M. (2019). Could the organisation's websites be a valid data source for research? An analysis of the complementary nature between web-based indicators and traditional indicators in innovation studies, *9th Global TechMining Conference*, Atlanta, USA, 17 October. [CRC, SSHRC]
- [P16] Aksoy, A., & Beaudry, C. (2019). How does exclusivity affect company behaviour toward university research commercialisation? *Atlanta Conference on Science and Innovation Policy*, Atlanta, USA, 14-16 October. [CRC]
- [P17] Hage, G., Beaudry, C., & Therrien, P. (2019). Advanced technology adoption and its impact on innovation performance, *Atlanta Conference on Science and Innovation Policy*, Atlanta, USA, 14-16 October. [CRC, SSHRC]
- [P18] Mahecha, D., Beaudry, C., & Armellini, F. (2019). Development of open business models and innovation in the Canadian aerospace sector, *Atlanta Conference on Science and Innovation Policy*, Atlanta, États-Unis, 14-16 octobre. [CRC, SSHRC]
- [P19] Tahmooresnejad, L., & Beaudry, C. (2019). The importance of dynamic scientific networks in science policy of Africa, *Atlanta Conference on Science and Innovation Policy*, Atlanta, USA, 14-16 October. [IDRC]
- [P20] Tahmooresnejad, L., Prozesky, Heidi, & Beaudry, C. (2019). Scientific production and impact in Africa: Does collaboration mitigate the gender bias? *Atlanta Conference on Science and Innovation Policy*, Atlanta, USA, 14-16 October. [IDRC]
- [P21] Beaudry, C., & Bérubé, C. (2019). Does governmental support help Canadian firms surmount obstacles to innovation and be more innovative? *2019 Technology Transfer Society Annual Conference*, Toronto, Canada, 26-28 September. [CRC, SSHRC]
- [P22] Hage, G., Beaudry, C., & Therrien, P. (2019). The adoption patterns of advanced and digital technologies in Canada, *2019 Technology Transfer Society Annual Conference*, Toronto, Canada, 26-28 September. [CRC, SSHRC]
- [P23] Tahmooresnejad, L., Beaudry, C. (2019). The role of research funding in African innovation policy, *2019 Technology Transfer Society Annual Conference*, Toronto, Canada, 26-28 September. [IDRC]
- [P24] Hage, B., Beaudry, C., & Therrien, P. (2019). The adoption patterns of business intelligence technologies in Canada. *EU-SPRI Conference on Science Technology and Innovation Policies for Sustainable Development Goals – Actors, Instruments and Evaluation*, Rome, Italy, 5-7 June.

- [P25] Lawrence, C. & Beaudry, C. (2019). QES-AS research project overview and preliminary results. Queen Elizabeth Advanced Scholars (QES-AS) Projects Workshop – *Strengthening partnerships and collaboration across QES-AS projects*, Toronto, 22-23 May. [IDRC, Universities Canada]
- [P26] Beaudry, C. (2019). Impacts of ICT's Research Intermediaries on Quebec's Innovation Ecosystem: Final results, *Sixth Annual Creative Digital Opportunity (CDO) Partnership Network Conference*, Toronto, 29 April-1 May. [SSHRC]
- [P27] Hage, G., Beaudry, C., & Therrien, P. (2019). Adoption of Digital and Advanced Technologies in Canada, *Sixth Annual Creative Digital Opportunity (CDO) Partnership Network Conference*, Toronto, Canada, 29 April-1 May. [SSHRC]

2018

- [P28] Blanco, C. M. R., Beaudry, C., & Armellini, F. (2018). Towards a Definition and Taxonomy of Big Science for Public Funding and Evaluation, *EU-SPRI Early Career Researcher Conference (ECC)*, Rome, Italy, 26-28 September. [Science without Borders]
- [P29] Dauphin-Pierre, S., & nBeaudry, C. (2018). Quebec's industry-university partnership model and its impact on the regional and national ecosystems, *Triple Helix Conference*, Manchester, United-Kingdom, 5-8 September. [CRC]
- [P30] Hage, G., & Beaudry, C. (2018). Open innovation and digital technology as a business strategy in a large Canadian ICT firm, *Triple Helix Conference*, Manchester, United-Kingdom, 5-8 September. [SSHRC]
- [P31] Héroux-Vaillancourt, M., & Beaudry, C. (2018). Using a multi-trait multi-method matrix to validate innovation indicators build from firms' websites, *Triple Helix Conference*, Manchester, United-Kingdom, 5-8 September. [CRC]
- [P32] Mirnezami, S.R., & Beaudry, C. (2018). The effect of holding a research chair on scientists' research impact, *Triple Helix Conference*, Manchester, United-Kingdom, 5-8 September. [CRC]
- [P33] Tahmoouresnejad, L., & Beaudry, C. (2018). Insights into different economic value determinants of patents, *Triple Helix Conference*, Manchester, United-Kingdom, 5-8 September. [CRC]
- [P34] Blanco, C. M. R., Beaudry, C., & Armellini, F. (2018). Big Science Beyond National Laboratories: A Government Perspective, *National Laboratory History 11 Meeting*, Los Alamos, USA, 14-16 July. [Science without Borders]
- [P35] Héroux-Vaillancourt, M., & Beaudry, C. (2018). Validation of innovation indicators from companies' websites, *2nd International Conference on Advanced Research Methods and Analytics*, Valencia, Spain, 6-7 July. (DOI: 10.4995/CARMA2018.2018.833) [CRC, SSHRC]
- [P36] Hage, G., & Beaudry, C. (2018). The adoption of inside-out open innovation in a large Canadian ICT firm, *R&D Management*, Milan, Italy, 2-4 July. [SSHRC]
- [P37] Beaudry, C., & Bérubé, C. (2018). Beyond the innovation obstacle paradox - The role of government support in helping firms overcome these obstacles and innovate. *52nd Conference of the Canadian Economic Association*, Montreal, Canada, 1-3 June. [SSHRC]
- [P38] Hage, G., Beaudry, C., & Therrien, P. (2018). Digital technologies, open innovation and their impact on survivability of Canadian firms, *52nd Conference of the Canadian Economic Association*, Montreal, Canada, 1-3 June. [SSHRC]
- [P39] Héroux-Vaillancourt, M., & Beaudry, C. (2018). How innovation culture can impact technological performance? *52nd Conference of the Canadian Economic Association*, Montreal, Canada, 1-3 June. [CRC, SSHRC]
- [P40] Héroux-Vaillancourt, M., & Beaudry, C. (2018). Comment mesurer l'impact de la culture sur la performance d'innovation? *58^ème Congrès de la Société Canadienne de Sciences Économiques*, Montreal, Canada, 9-11 May. [CRC, SSHRC]
- [P41] Dauphin-Pierre, S., & Beaudry, C. (2018). A look at the impact of the research intermediary operating in the ICT industry of the province of Quebec, *5th Creating Digital Opportunity (CDO) Annual Partnership Network Conference*, Vancouver, Canada, 25-27 April. [SSHRC]
- [P42] Hage, G., Beaudry, C., & Therrien, P. (2018). The local context of advanced and digital technology, and the impact of its use on firm performance, *Fifth Annual Creating Digital Opportunity (CDO) Partnership Network Conference*, Vancouver, Canada, 25-27 April. [SSHRC]

[P43] Blanco, C. M. R., Beaudry, C., & Armellini, F. (2018). Assessing and Structuring the Decision-Making Process on Big Science Projects, *LUNBISS doctoral students network inaugural meeting and workshop*, Lund, Sweden, 10-11 January. [Science without Borders]

2017 (sabbatical leave in South Africa)

[P44] Huet, P., & Beaudry, C. (2017). Unions and the gender pay gap among university professors in Canada – Preliminary results from a recent data collection, *Gender Summit – Embracing pluralism and thriving through diversity – Shaping science and innovation*, Montreal, 6-8 November. [FQPPU]

[P45] Mirnezami, S. R., & Beaudry, C. (2017). The Effect of Holding a Research Chair on Scientists' Impact, *Atlanta Conference on Science and Innovation Policy 2017*, Atlanta, Georgia, USA, 9-11 October. [CRC]

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[P47] Beaudry, C., & Mouton, J. (2017). Headline results from the web-based survey, *Young Scientists in Africa Mid-Term Workshop*, Paris, France, 5 September. [IDRC, Bosch Foundation]

[P48] Barirani, A., Beaudry, C., & Agard, B. (2017). Can universities profit from general purpose inventions? The case of Canadian nanotechnology patents, *Academy of Management Meeting*, Atlanta, USA, 4-8 August.

[P49] Beaudry, C. (2017). ICT networks and clusters in Quebec, *Fourth Annual Creative Digital Opportunity (CDO) Partnership Network Conference*, Montreal, Canada, 1-3 May. [SSHRC]

2016

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[P51] Mahecha Capacho, D. R., Beaudry, C., & Armellini, F. (2016). Management of innovation process and intellectual property in the Canadian aerospace sector – poster, *16th Congress of the International Schumpeter Society – Building Bridges*, Montreal, Canada, 6-8 July. [SSHRC]

[P52] Hage, G., Bouhadra, M., & Beaudry, C. (2016). Collaboration networks and innovation in Quebec's ICT hardware cluster – poster, *16th Congress of the International Schumpeter Society – Building Bridges*, Montreal, Canada, 6-8 July. [SSHRC]

[P53] Mirnezami, S. R., & Beaudry, C. (2016). The Effect of Holding a Research Chair on Scientists' Impact – poster, *16th Congress of the International Schumpeter Society – Building Bridges*, Montreal, Canada, 6-8 July. [SSHRC]

[P54] Naserbakht, N., & Beaudry, C. (2016). Impact of University-Industry linkages on the quality of biotechnology and nanotechnology patents in Quebec – poster, *16th Congress of the International Schumpeter Society – Building Bridges*, Montreal, Canada, 6-8 July. [SSHRC]

[P55] Beaudry, C., & Bérubé, C. (2016). Canadian firms that benefit from governmental support are more innovative, *16th Congress of the International Schumpeter Society – Building Bridges*, Montreal, Canada, 6-8 July. [SSHRC]

[P56] Armellini, F., & Beaudry, C. (2016). Corporate culture barriers for the adoption of open innovation: The Canadian aerospace cluster perspective, *19th Uddevalla Symposium 2016 on Geography, Open Innovation, Diversity and Entrepreneurship*, London, UK, 30 June-2 July. [CRC, FRQSC, SSHRC]

[P57] Beaudry, C., Dorseuil, A., & Armellini, F. (2016). Open innovation, inter-organizational collaboration and innovation performance in the Canadian Aerospace industry, *19th Uddevalla Symposium 2016 on Geography, Open Innovation, Diversity and Entrepreneurship*, London, UK, 30 June-2 July. [CRC, FRQSC, SSHRC]

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Symposium 2016 on Geography, Open Innovation, Diversity and Entrepreneurship, London, UK, 30 June-2 July. [CRC, SSHRC]

- [P60] Héroux-Vaillancourt, M., & Beaudry, C. (2016). Are the most innovative Canadian nanotechnology-related firms also the most open?, *19th Uddevalla Symposium 2016 on Geography, Open Innovation, Diversity and Entrepreneurship*, London, UK, 30 June-2 July. [CRC, FRQSC, SSHRC]
- [P61] Mahecha Capacho, D. R., Beaudry, C., & Armellini, F. (2016). Open business models and innovation in the Canadian aerospace sector, *19th Uddevalla Symposium 2016 on Geography, Open Innovation, Diversity and Entrepreneurship*, London, UK, 30 June-2 July. [CRC, FRQSC, SSHRC]
- [P62] Bérubé, C., & Beaudry, C. (2016). Canadian firms that benefit from governmental support are more innovative, *56^{ème} Congrès de la Société Canadienne de Science Économique*, Québec, 11-13 May. [SSHRC]
- [P63] Beaudry, C. (2016). Collaboration networks and innovation in Quebec's ICT hardware cluster: a deeper understanding of the ecosystem, *Third Annual Creating Digital Opportunity (CDO) Partnership Network Conference*, Saskatoon, 25-27 April. [SSHRC]
- [P64] Beaudry, C. (2016). Taking a leap of faith: How young scholars in four ASEAN countries forge ahead for successful research careers, *Joint International Development Research Center (IDRC), Canada, and Institut de Recherche pour le Développement (IRD), France, Conference on The Transformation of Research in the South: Policies and Outcomes*, OECD Headquarters, Paris, France, 21-22 January. [Thailand National Science, Technology and Innovation Policy Office (STI) and German Federal Ministry of Education and Research (BMBF)]

2015

- [P65] Mirnezami, S. R., & Beaudry, C. (2015). The effect of holding a research chair on scientists' productivity, Society for Social Studies of Science (4S) 40th Annual Meeting, Denver, USA, 11-14 November. [SSHRC]
- [P66] Beaudry, C., & Héroux-Vaillancourt, M. (2015). Understanding open innovation practices of Canadian nanotechnology-related firms, S.Net Conference – From nanotechnologies to emerging technologies: towards a global responsibility, Montreal, Canada, 19-21 October. [SSHRC]
- [P67] Beaudry, C., & Rietsch, C. (2015). Using web-mining techniques to study nanotechnology commercialisation in Canada, S.Net Conference – From nanotechnologies to emerging technologies: towards a global responsibility, Montreal, Canada, 19-21 October. [SSHRC]
- [P68] Beaudry, C., & Tahmooresnejad, L. (2015). Do patents from funded researchers have higher patent value? Evidence from nanotechnology patents in Canada, S.Net Conference – From nanotechnologies to emerging technologies: towards a global responsibility, Montreal, Canada, 19-21 October. [SSHRC]
- [P69] Armellini, F., Beaudry, C., & Kaminski, P. C. (2015). Open within a box: an analysis of open innovation patterns within Canadian aerospace companies, R&D Management Conference, Pisa, Italy, 23-26 June. [SSHRC]
- [P70] Beaudry, C., & Bérubé, C. (2015). Are firms that adopt more open strategies more innovative? 49th Conference of the Canadian Economic Association, Ottawa, Canada, 29-31 May. [SSHRC]
- [P71] Bérubé, C., & Beaudry, C. (2015). Government role and success in mitigating firm's obstacles to innovation, 49th Conference of the Canadian Economic Association, Ottawa, Canada, 29-31 May. [SSHRC]
- [P72] Mirnezami, S. R., & Beaudry, C. (2015). The effect of collaboration with star scientists on scientists' performance, 49th Conference of the Canadian Economic Association, Ottawa, Canada, 29-31 May. [CRC]
- [P73] Beaudry, C. (2015). Insights into ICT hardware networks in Quebec: A focus on university-industry networks and their location, Second Annual Creating Digital Opportunity (CDO) Partnership Network Conference, Ottawa, 29-30 April. [SSHRC]

2014

- [P74] Tahmooresnejad, L., & Beaudry, C. (2014). Does government funding have the same impact on academic publications and patents? *2014 ISPIM Americas Innovation Forum*, Montreal, Canada, 5-8 October. [SSHRC] **BEST STUDENT PAPER AWARD**

- [P75] Mirnezami, S. R., & Beaudry, C. (2014). Revisiting the determinants of citation counts in scientific publication, *2014 ISPIAM Americas Innovation Forum*, Montreal, Canada, 5-8 October. [SSHRC]
- [P76] Martin, A., & Beaudry, C. (2014). Measuring collaboration mechanisms in the Canadian space sector, *65th International Astronautical Congress 2014*, Toronto, Canada, 29 September-3 October. [Canadian Space Agency]
- [P77] Beaudry, C., & Bérubé, C. (2014). Does opening up innovation increase the performance of firms?, *15th International Schumpeter Society Conference (ISS)*, Jena, Germany, 27-30 July. [FRQSC, SSHRC]
- [P78] Beaudry, C., & Larivière, V. (2014). Impact of research funding and scientific production on scientific impact: Are Quebec academic women really lagging behind? *2014 EU-SPRI Conference on Science and Innovation Policy: Dynamics, Challenges, Responsibility and Practice*, Manchester, United-Kingdom, 18-20 June. [FRQSC, SSHRC]
- [P79] Beaudry, C., & Bérubé, C. (2014). L'innovation ouverte au Canada favorise-t-elle une performance accrue des entreprises?, *54^{ème} Congrès de la Société canadienne de science économique*, Ottawa, 14-16 May.
- [P80] Dauphin-Pierre, S., & Beaudry, C. (2014). Le rôle des intermédiaires – Comparaison des modèles du C2MI et du CRIAQ. Association francophone pour le savoir (ACFAS) – Colloque *Premières leçons pour la gestion de l'innovation du Partenariat pour l'ouverture de l'innovation dans les nouvelles technologies (POINT)*, Montreal, Canada, 13 May. [SSHRC]
- [P81] Nguyen-Smith, N., Armellini, F., & Beaudry, C. (2014). L'Innovation ouverte en aérospatiale - une comparaison Canada-Brésil. Association francophone pour le savoir (ACFAS) – Colloque *Premières leçons pour la gestion de l'innovation du Partenariat pour l'ouverture de l'innovation dans les nouvelles technologies (POINT)*, Montreal, Canada, 13 May. [SSHRC]
- [P82] Friesenhahn, L., & Beaudry, C. (2014). The Global State of Young Scientists (GloSYS): Findings of the GYA project and possible follow-up in Africa, *1st Africa Young Academies Regional Conference – Accelerating Science for Development in Africa by Increasing the Momentum and Impact of National Young Academies*, Nairobi, Kenya, 3-5 February. [BMBF]
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- [P83] Friesenhahn, L., & Beaudry, C. (2013). Taking a leap of faith: How young scholars all over the world forge ahead for successful research careers, *Society for Research into Higher Education Annual Research Conference*, Newport, Wales, UK, 11-13 December. [German ministry of Education and Research (BMBF)]
- [P84] Mirnezami, S. R., & Beaudry, C. (2013). Revisiting the determinants of scientific publication citation. *Working together? STS, collaboration and (multi)disciplinarity*, Conference supported by the *BSA STS Study Group*, University of Sheffield, United-Kingdom, 2 December. [SSHRC]
- [P85] Tahmooresnejad, L., & Beaudry, C. (2013). Does government funding increase patenting in the nanotechnology field? A comparison of Quebec and the rest of Canada, *European Patent Office Conference on Patent statistics for Decision Makers 2013*, Rio de Janeiro, Brazil, 12-13 November. [SSHRC]
- [P86] Martin, A., Beaudry, C., Kendall, D., & Sullivan, P. (2013). Impacts of collaboration in space exploration R&D in Canada: Connecting the stakeholders to stimulate innovation. *64th International Astronautical Congress 2013*, Beijing, China, 23-27 September. [FQRSC]
- [P87] Endo, C.-A., Beaudry, C., Parizeau, M.-H., & Émond, C. (2013). The Ne³LS Network, Québec's initiative to evaluate the impact and promote a responsible and sustainable development of nanotechnology, *3^{ème} Symposium Canada-Brésil: Les nanomatériaux et l'environnement*, Montreal, Canada, 19-21 August. [Ne³LS Network]
- [P88] Beaudry, C., & Mirnezami, S. R. (2013). The permanent effect of extraordinary events on scientists' performance, *Triple Helix Conference – The Triple Helix in a context of global change: continuing, mutating or unravelling?*, London, UK, 7-11 July. [Genome Canada]
- [P89] Beaudry, C., & Mirnezami, S. R. (2013). The permanent effect of extraordinary events on scientists' performance, *Canadian Economic Association Annual Conference*, Montreal, Canada, 30 May-2 June. [Genome Canada]

- [P90] Beaudry, C., & Friesenhahn, I. (2013). The global state of young scientists – Introduction of the study by the GloSYS project leader, *Global State of Young Scientists Workshop*, Hanover, Germany, 13-15 May. [German Ministry of Research and Education, Volkswagen Foundation]
- [P91] Beaudry, C., & Mirnezami, S. R. (2013). Entreprendre en sciences : les facteurs expliquant la productivité technologique en génomique au Québec, Association francophone pour le savoir (ACFAS) – Colloque *Stimuler l'entrepreneuriat et l'innovation en sciences : Nouveaux enjeux pour l'éducation, la recherche et la société*, Québec, 8 May. [Genome Canada]
- [P92] Armellini, F., Kaminski, P. C., & Beaudry, C. (2013). Comparative analysis of public policies for innovation in the aerospace industries in Brazil and Canada, *2013 International Association for Management of Technology (IAMOT) Conference*, Porto Alegre, Brazil, 14-18 April. [SSHRC]
- [P93] Beaudry, C., Bérubé, C., & Therrien, P. (2013). L'innovation ouverte dans les enquêtes de Statistique Canada, 1st Workshop of the Partnership for Open Innovation in the New Technologies (POINT), Montreal, Canada, 25 January. [SSHRC, Industry Canada]
- [P94] Beaudry, C., Cohendet, P., de Marcellis-Warin, N., Schiffauerova, A., & Zhegu, M. (2013). Partenariat pour l'ouverture de l'innovation dans les nouvelles technologies, 1st Workshop of the Partnership for Open Innovation in the New Technologies (POINT), Montreal, Canada, 25 January. [SSHRC, Industry Canada]
- [P95] Beaudry, C., Dauphin-Pierre, S., Armellini, F., & Hinostroza-Cabrera, J. V. (2013). Tendances observées au Québec en aérospatiale au niveau de l'ouverture de l'innovation, 1st Workshop of the Partnership for Open Innovation in the New Technologies (POINT), Montreal, Canada, 25 January. [SSHRC, Industry Canada]

2012

- [P96] Beaudry, C., & Kananian, R. (2012). Impact of university-industry contracts resulting in patents on the quality of patenting in biotechnology, *14th International Schumpeter Society Conference (ISS)*, Brisbane, Australia, 2-5 July. [CIHR, SSHRC]
- [P97] Beaudry, C., & Kananian, R. (2012). Impact of university-industry contracts resulting in patents on the quality of patenting in biotechnology, *15th Uddevalla Symposium – Entrepreneurship and Innovation Networks*, Faro, Portugal, 14-16 June. [CIHR, SSHRC]
- [P98] Beaudry, C., & Schiffauerova, A. (2012). Impact des subventions publiques sur le développement des nanotechnologies: Une comparaison du Québec, du Canada et des États-Unis, Knowledge transfer activity of the Ne³LS Network - *Réseau de connaissance sur les aspects éthiques, environnementaux, économiques, légaux et sociaux du développement des nanotechnologies*, Montréal, 5 June. [Ne³LS Network]
- [P99] Beaudry, C. (2012). Collaboration and contracting in the product development process in biotechnology, *Proximity Days 7th Edition*, Montréal, 21-23 May. [SSHRC]
- [P100] Martin, A., & Beaudry, C. (2012). Impacts of collaborations in space science and technology R&D in Canada, *63rd International Astronautical Congress 2012*, Naples, Italy, 1-5 October. [FQRSC]

2011

- [P101] Armellini, F., Kaminski, P. C., & Beaudry, C. (2011). Ideas, knowledge and technology – A product development framework for open innovation, *21st International Congress of Mechanical Engineering*, Natal, Brazil, 24-28 October. [Quebec Ministry for Education, Leisure and Sports]
- [P102] Barirani, A., Beaudry, C., & Agard, B. (2011). Segmentation sociale d'inventeurs : le cas de l'industrie de la nanotechnologie au Canada, *9th International Congress of Industrial Engineering*, St-Sauveur, 12-14 October. [SSHRC, CIHR, NSERC]
- [P103] Martin, A., Sullivan, P., Kuyumjian, R., Comptois, J.-M., & Beaudry, C. (2011). Telehealth concept for medical care during exploration-class missions, *62nd International Astronautical Congress 2011*, Cape Town, South Africa, 3-7 October. [FQRSC]
- [P104] Beaudry, C., & Allaoui, S. (2011). Impact of research funding on nanobiotechnology scientific production: Does concentration in a few universities make sense, *Atlanta Conference on Science and Innovation Policy*, Atlanta, USA, 15-17 September. [CIHR, SSHRC]
- [P105] Beaudry, C., & Kananian, T. S. R. (2011). Evaluation of the private funding of university researchers and its effects on subsequent patenting; can the biotechnology innovation model be transferred to

- enable efficient development in the field of nanotechnology?, 9th *Triple Helix Conference – Silicon Valley : Global Model of Unique Anomaly?*, Palo Alto, USA, 11-14 June. [CIHR, SSHRC]
- [P106] De Marcellis-Warin, N., & Beaudry, C. (2011). Partnership Decisions and Risks in a Global Competitive Environment: A Survey of the Canadian Pharmaceutical-Biotechnology Industry, *International Trade and Finance Association - 21st International Conference*, Industry-specific studies session, Ben Gurion University of the Negev, Eilat, Israel, 29 May – 1 June [SSHRC]
- [P107] Beaudry, C., & Levasseur, J. (2011). Facteurs de survie et de croissance des entreprises développant de la biotechnologie au Canada, Association francophone pour le savoir (ACFAS) – Workshop *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l’innovation, de la science à son application*, Sherbrooke, 10 May. [SSHRC, Quebec Ministry of Finance]
- [P108] Beaudry, C. (2011). Facteurs d’innovation des entreprises biotechnologie au Canada, Association francophone pour le savoir (ACFAS) – Workshop *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l’innovation, de la science à son application*, Sherbrooke, 10 May. [SSHRC]
- [P109] Beaudry, C., & Kananian, T. S. R. (2011). Évaluation du financement des chercheurs universitaires québécois et les activités de brevetage qui en découlent : Comparaison entre Biotechnologie et Nanotechnologie, Association francophone pour le savoir (ACFAS) – Workshop *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l’innovation, de la science à son application*, Sherbrooke, 10 May. [SSHRC]
- [P110] Barirani, A., Agard, B., & Beaudry, C. (2011). Cartographie des compétences par classification hiérarchique ascendante, Association francophone pour le savoir (ACFAS) – Workshop *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l’innovation, de la science à son application*, Sherbrooke, 10 May. [CIHR, NSERG]
- [P111] Schiffauerova, A., & Beaudry, C. (2011), Évolution de la collaboration de connaissance en nanotechnologie : une approche réseau, Association francophone pour le savoir (ACFAS) – Workshop *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l’innovation, de la science à son application*, Sherbrooke, 10 May. [SSHRC]
- [P112] Beaudry, C., & Allaoui, S. (2011). Impact du financement de la recherche sur la production scientifique en nanobiotechnologie : Est-ce que la concentration dans quelques universités est justifiable, Association francophone pour le savoir (ACFAS) – Workshop *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l’innovation, de la science à son application*, Sherbrooke, 10 May. [SSHRC]
- [P113] Beaudry, C., & Levasseur, J. (2011). La Biotechnologie est-elle vraiment en perte de vitesse au Québec?, Workshop *Québec économique 2011*, Québec, 23 February. [SSHRC, Quebec Ministry of Finance]
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- [P114] Beaudry, C., & Clerk-Lamallice, M. (2010). Impact of grants, contracts and networks on biotechnology scientific production. Workshop *Understanding social sciences and humanities research outcomes and impacts: from innovative metrics to success stories*, Montreal, Canada, 3-4 June. [SSHRC]
- [P115] Beaudry, C., & Levasseur, J. (2010). Facteurs de survie et de croissance des entreprises de biotechnologie au Canada, Conference of the *Société canadienne de science économique*, Quebec, 28-30 May. [SSHRC]
- [P116] Beaudry, C., & Levasseur, J. (2010). What influences survival and growth of Canadian biotechnology firms? *Canadian Economic Association Annual Conference*, Quebec, 13-15 May. [SSHRC]
- 2009**
- [P117] Beaudry, C. (2009). Collaboration et réseaux d’innovation de biotechnologie : État des lieux. Journées du CIRST, Montreal, Canada, 10-11 December. [SSHRC]
- [P118] Beaudry, C., & Doloreux, C. (2009). Collaboration within knowledge intensive business services (KIBS): with whom and from where?, Conference of the European Association for Research on Services (RESER), Budapest, Hungary, 24-26 September. [SSHRC]
- [P119] Beaudry, C., & Clerk-Lamallice, M. (2009). Impact of Quebec University Research Financing in Biotechnology, VIth Triple Helix Conference, Glasgow, UK, 17-19 June. [SSHRC]

- [P120] Beaudry, C., & Schiffauerova, A. (2009). Clusters et réseaux canadiens de nanotechnologie, Conference of the Association Internationale de Management Stratégique, Grenoble, 3-5 June. [SSHRC]
- [P121] Beaudry, C., & Clerk-Lamalice, M. (2009). Impact of Canadian Biotechnology University Research Funding, Canadian Economic Association Annual Conference, Toronto, 29-31 May. [SSHRC]
- [P122] Beaudry, C. (2009). Usager producteur d'innovation. CIRST – Working group on Innovation production and user contribution, Montreal, Canada, 28 May. [SSHRC]
- [P123] Beaudry, C., & Clerk-Lamalice, M. (2009). Impact de la recherche subventionnée en biotechnologie au Québec, Conference of the Société canadienne de science économique, Ste-Adèle, 13-15 May. [SSHRC]
- [P124] Beaudry, C., & Doloreux, C. (2009). Collaboration within knowledge intensive business services (KIBS): with whom and from where?, Uddevalla Symposium, Bari, Italy, 11-13 May. [SSHRC]

2008

- [P125] Beaudry, C. (2008). La collaboration d'innovation de la biotechnologie au Canada. *Journées du CIRST*, Montreal, Canada, 11-12 December. [SSHRC]
- [P126] Schiffauerova, A., & Beaudry, C. (2008). L'interaction entre les espaces géographiques et technologiques de collaboration : Les portiers de la connaissance dans les grappes canadiennes de biotechnologie, CIRST, Montreal, Canada. [SSHRC] **BEST STUDENT PAPER AWARD**
- [P127] Beaudry, C. (2008). Analyse des réseaux d'inventeurs de biotech. Workshop *Alliances et partenariats: un défi pour les biotechs*, CIRANO, Montreal, Canada, 19 September. [SSHRC]
- [P128] Beaudry, C. (2008). Les facteurs qui affectent la collaboration des petites entreprises de biotech. Workshop *Alliances et partenariats : un défi pour les biotechs*, CIRANO, Montreal, Canada, 19 September. [SSHRC]
- [P129] Beaudry, C. (2008). Canadian biotechnology business alliances and cooperation, *Canadian Economic Association Annual Conference*, Vancouver, 6-8 June. [SSHRC]
- [P130] Schiffauerova, A., & Beaudry, C., (2008). Canadian biotechnology star scientists and their location, *Canadian Economic Association Annual Conference*, Vancouver, 6-8 June. [SSHRC]
- [P131] Beaudry, C., & Ceschia, A. (2008). Quelles entreprises collaborent? Le cas de la biotechnologie au Canada, Conference of the *Société canadienne de science économique*, , Montebello, 14-16 May. [SSHRC]
- [P132] Beaudry, C., & Farcy, R. (2008). L'impact des politiques canadiennes de financement de la biotechnologie: une évaluation en dynamique des systèmes, Conference of the *Société canadienne de science économique*, Montebello, 14-16 May. [FQRNT]
- [P133] Schiffauerova, A., & Beaudry, C. (2008). Innovation networks and gatekeepers of Canadian biotechnology clusters, Forum *The Spirit of Innovation: Innovation Networks*, Tacoma, USA, 14-16 May. [SSHRC]
- [P134] Schiffauerova, A., & Beaudry, C. (2008). Innovation networks and collaboration in Canadian nanotechnology clusters, Forum *The Spirit of Innovation: Innovation Networks*, Tacoma, USA, 14-16 May. [SSHRC]

2006

- [P135] Beaudry, C., & Breschi, S. (2006). Patenting in clusters – A comparison between firm and cluster level analyses in the UK, *International Schumpeter Society Conference*, Nice, France, 21-24 June. [European Community TSER program, Leverhulme Trust]
- [P136] Beaucage, J.-S., & Beaudry, C. (2006). Importance of knowledge networks within Canadian biotechnology clusters, *International Schumpeter Society Conference*, Nice, France, 21-24 June. [NSERC, FQRNT]
- [P137] Beaucage, J.-S., & Beaudry, C. (2006). Importance of knowledge networks within Canadian biotechnology clusters, *Canadian Economic Association Annual Conference*, Montreal, Canada, 26-28 May. [NSERC, FQRNT]

2000 to 2005 – Three periods of maternity leave

1999

- [P138] Beaudry, C., & Swann, G. M. P. (1999). Clusters, growth and the age of firms: A study of seven European countries, *EARIE Conference*, Turin, Italy, 4-7 September. [European Community TSER program]
- [P139] Beaudry, C. (1999). Enterprise in orbit: The supply of communication satellites, 1964-92, *EARIE Conference*, Turin, Italy, 4-7 September. [Rhodes Trust, SSHRC, FCAR]
- [P140] Beaudry, C., Breschi, S., & Swann, G. M. P. (1999). Clusters, innovation and growth: A comparative study of European countries, *Septième Conférence Internationale de la Sorbonne - Les stratégies des entreprises multinationales: localisation, impacts sur l'emploi, les exploitations et la technologie*, Paris, France, 17-18 June. [European Community TSER program]

1995

- [P141] Beaudry, C. (1995). The Measurement of Civilian Commercial Telecommunication Satellite Prices, *International Space University Alumni Conference*, Stockholm, Sweden, July. [Rhodes Trust, SSHRC]

CONSULTING**Government and granting councils**

- 2020/01-2020/12 Invited study – CIRANO/Ministère des finances du Québec: *How do AI-based inventions classified as “innovation process” affect productivity in Quebec’s manufacturing plants*
- 2020/02-2022/03 CIRANO/Ministère des finances du Québec : *How do AI-based inventions classified as “innovation process” affect productivity in Quebec’s manufacturing plants*
- 2018/12-2019/01 Reviewing contract – Statistics Canada/OECD: *Oslo Manual French Glossary Review*
- 2017/05-2022/06 Invited study – Universities Canada: *Study on the Queen Elizabeth II Diamond Jubilee Scholarships – Advanced Scholars program*
- 2016/09-2017/03 Invited study – Innovation, Science and Economic Development (ISED): *Études de cas canadiens d’innovation basée sur l’Internet des objets*
- 2013/02-2013/03 Invited study – Industry Canada: *Enjeux politiques reliés aux stratégies d’innovation des entreprises ainsi qu’à la commercialisation et à la diffusion des innovations dans un contexte canadien*
- 2012/11-2012/12 Invited study – Industry Canada: *Tendances observées au Québec en aérospatiale au niveau de l’ouverture de l’innovation*
- 2011/12-2012-07 Social Science and Humanities Research Council (SSHRC): Assistant to the *Scientific Director for a knowledge synthesis initiative on international best practices in leveraging higher education R&D* (Adam Holbrook, Simon Fraser University, scientific director)
- 2010/10-2010/12 Invited review – Social Science and Humanities Research Council (SSHRC): *Review of the seventeen projects on the Capturing research impacts funded through the SSHRC President’s Office* (Adam Holbrook, Simon Fraser University, project director)
- 2010/01-2010/06 Invited review – Social Science and Humanities Research Council (SSHRC): *Review of the projects on the impact of research funded through the SSHRC president’s Office* (Adam Holbrook, Simon Fraser University, project director)
- 2009/01-2010/12 Invited study – CIRANO/Ministère des finances du Québec: *Facteurs de survie et de performance des entreprises de biotechnologie au Québec*
- 2008/01-2008/10 NanoQuébec, Montreal, Canada: *Gouvernance des consortiums industriels – Le cas de la nanotechnologie*
- 2004-2005 Invited course – City of Montreal: *3-hours course on the budget impact of new drinking water legislation*

Private sector

2008/01-2008/09 PriceWaterhouseCoopers, Luxembourg: *Etude Belval Technopark*

ORGANIZATION OF SCIENTIFIC AND KNOWLEDGE MOBILISATION EVENTS**International Conferences****Organiser and co-organiser**

2021/05/11-13 First 4POINT0 Conference on *Policies, Practices and Processes related to the Performance of Innovation Ecosystems (P4IE)*, online.

2021/05/10 4POINT0 Pre-Conference on *Big Data Analytics in Practice*, online

2016/07/6-8 16th Congress of the International Schumpeter Society – *Building Bridges*, Montreal

2012/11/1-2 1st Ne³ls International Congress – *The responsible development of nanotechnology: Challenges and perspectives*, Montreal

Member of the scientific committee or of the Technical program committee

2018/10/17-19 Conference of the Association Internationale de Management Stratégique, Montréal

2018/06/30-07/04 R&D Management Conference, Milan, Italy

2018/06/6-8 European Union Science Policy Research and Innovation (EU-SPRI) Conference, Paris, France

2014/07/27-31 International Schumpeter Society Conference (ISS 2014), Jena, Germany

2012/09/5-7 Conference on Science and Technology Indicators (STI 2012), Montreal

2009/03/8-10 IAMOT 19th International Conference for the Management of Technology, Cairo, Egypt

Workshops**Organiser and co-organiser**

2021/06/17 Workshop on innovation ecosystem indicators, Forum ADRIQ - CIRANO - Conseil de l'innovation du Québec – *Mesurer la performance de l'innovation*, online

2021/06/09 Co-organiser: *The State of Young Scholars and Scientists in Africa – New Insights*, with IDRC, online

2020- Technical 4POINT0 (Seminar series on new data and indicators): 2 webinars in 2020-2021

2020- Anchor 4POINT0 (Seminar series focusing on research results, partner practices, policies and challenges from the partnership) 5 webinars in 2020, 4 webinars in 2021

2018/09/20-21 Kick-off workshop of the Partnership for the organisation of innovation and new technologies (4POINT0), Montreal

2017/09/05 *Young Scientists in Africa Mid-Term Workshop*, Paris, France

2016/03/18 (with Rémi Quirion, Chief Scientist of Quebec): Knowledge mobilisation workshop on the *Promotion of Quebec researchers and important scientific prizes*, Montreal

2016/01/20 *Young Scientists in Africa Project Kick-off workshop*, Paris, France

2015/10/29-30 Knowledge Mobilisation Conference of the Partnership for Open Innovation in the New Technologies (POINT) on *Collaboration and Innovation*, Montreal

2014/05/14 *Atelier de cocréation et d'innovation* du Partenariat pour l'ouverture de l'innovation dans les nouvelles technologies (POINT), Montreal

2014/05/13 Congrès de l'ACFAS – *Premières leçons pour la gestion de l'innovation du Partenariat pour l'ouverture de l'innovation dans les nouvelles technologies (POINT)*, Montreal

2013/11/29-30 *Global State of Young Scientists (GloSYS) Working Group Meeting*, Berlin, Germany

2013/03/13-15 *Global State of Young Scientists (GloSYS) Workshop*, Hanover, Germany

- 2013/01/25 1st Workshop of the *Partnership for Open Innovation in the New Technologies (POINT)*, Montreal
- 2012/05/31-2012/06/1 Second Knowledge Exchange Meeting of SSHRC-Industry Canada Initiative on *Leveraging public investments in higher education R&D to stimulate innovation*, Waterloo
- 2012/02/16 First Knowledge Exchange Meeting of SSHRC-Industry Canada Initiative on *Leveraging public investments in higher education R&D to stimulate innovation*, Vancouver
- 2011/05/9 Congrès de l'ACFAS – *Des biotechnologies à la nanotechnologie – Quelles leçons pour la gestion de l'innovation, de la science à son application*, Sherbrooke
- 2010/06/3-4 Closed workshop *SSHRC Impact Initiative*, Montreal, Canada
- 2008/09/19 *Alliances et partenariats: Un défi pour les Biotech*, Montreal
- 2007/12/3-4 Entretiens Jacques Cartier – *Atelier Nanosciences et nanotechnologies : quelles ruptures*, Grenoble, France

Member of the scientific committee or of the advisory committee

- 2018/05/17-18 Institute for Research on Public Policy (IRPP) Symposium on *A new take on innovation: Boosting the demand side*, Ottawa
- 2012/05/21-23 *Proximity days – Creativity, Innovation and Proximity*, Montreal

REVIEWER

Scientific journals

Actualité Économique; Economic Research Journal; Economics of Innovation and New Technology; Environment and Planning C; European Management Journal; Growth and Change; Higher Education; IEEE Transactions on Engineering Management; Industrial and Corporate Change; Industry and Innovation; International Journal of the Economics of Business; International Journal of Technology Management; International Journal of Technology Marketing; Journal of Economic Surveys; Journal of Engineering and Technology Management; Journal of Informetrics; Journal of Innovation Economics; Journal of Small Business Management; Journal of Technology Transfer; Journal of Urban Economics; Management International; Papers in Regional Science; PLOS ONE; R&D Management; Research Policy; Regional Studies; Small Business Economics Journal; Science and Public Policy; Scientometrics; Structural Change and Economic Dynamics; Technology Analysis & Strategic Management; Technological and Economic Development of Economy; Travail Humain

Book proposals

Edward Elgar; Imperial College Press; Presses de l'Université de Montréal; Routledge.

Conferences

Association Internationale de Management Stratégique (AIMS); Atlanta Conference on Science and Innovation Policy; Conference on Advanced Research Methods and Analytics; Conference on Science and Technology Indicators; Danish Research Unit for Industrial Dynamics (DRUID); International Association for management of Technology (IAMOT); International Schumpeter Society (ISS); Triple Helix; Women in Engineering and Technology Research; The 2nd International Symposium on Management, Engineering and Informatics MEI'06.

Grant awarding bodies and Research institutes

Agence Nationale de la Recherche (ANR) Research grants; Canadian Foundation for Innovation (CFI); Czech Science Foundation (GACR); Institut Francilien Recherche Innovation Société (IFRIS); Independent Research Fund Denmark (Danmarks Frie Forskningsfonds); Leverhulme Trust; MITACS; National Science Foundation (NSF); Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO); SSHRC (Standard research grants, Partnership development grants, Insight grants, Major collaborative research initiatives).

Government agencies

Statistics Canada; Quebec Institute of Statistics – Conseil de la science et de la technologie.

MEDIA COVERAGE**Participation in live broadcasts (radio)**

- 2021/10/10 **Les Années Lumière** – weekly program on science at ICI-Radio-Canada Première – Les femmes et les prix Nobel : Une chronique de Damien Grapton (Sophie-Andrée Blondin) : Interview on women and prestigious international prizes (<https://ici.radio-canada.ca/ohdio/premiere/emissions/les-annees-lumiere/episodes/575742/ratrapage-du-dimanche-10-octobre-2021>).
- 2021/04/07 **L’Impromptu – Entretien avec Pre Catherine Beaudry** – Prompt live stream interview on Innovation ecosystems (<https://www.youtube.com/watch?v=bzvt6kA3ZvE>); rebroadcast in the digital news magazine **Mon Carnet** (9 April 2021), Bruno Guglielminetti’s podcast (<https://soundcloud.com/moncarnet/mon-carnet-du-9-avril-2021>)
- 2017/07/02 **Les Années Lumière** – weekly program on science at ICI-Radio-Canada Première – La science au Canada en 2017 (Yanick Villedieu): Interview about science and technology (<https://ici.radio-canada.ca/ohdio/premiere/emissions/les-annees-lumiere/episodes/384579/audio-fil-du-dimanche-2-juillet-2017>).

Articles about my research

- 2021/10/31 **Magazine Poly** (Catherine Florès) Catherine Beaudry, mesureuse d’innovation (<https://www.polymtl.ca/carrefour-actualite/magazine-poly/catherine-beaudry-mesureuse-dinnovation>). Article on my research and my career.
- 2021/09/0 **Carrefour de l’actualité de Polytechnique**: La professeure Catherine Beaudry élue membre de la Société royale du Canada (<https://www.polymtl.ca/carrefour-actualite/nouvelles/la-professeure-catherine-beaudry-elue-membre-de-la-societe-royale-du-canada>). Article on my election to the Academy of Social Sciences of the Royal Society of Canada.
- 2021/07/07 **La Presse** (Sylvain A. Lefèvre et Vincent van Schendel) : Faire de la SQRI un projet de société (<https://www.lapresse.ca/debats/opinions/2021-07-07/recherche-et-innovation/faire-de-la-sqri-un-projet-de-societe.php>). Opinion editorial mentioning Beaudry’s 27 June 2021 op-ed.
- 2021/06/27 **La Presse** (Philippe Mercure) : Stratégie québécoise de la recherche et de l’innovation Connecter les cerveaux du Québec (<https://www.lapresse.ca/debats/editoriaux/2021-06-27/strategie-quebecoise-de-la-recherche-et-de-l-innovation/connecter-les-cerveaux-du-quebec.php>). Editorial mentioning my “mémoire” responding to the consultation of the Quebec Ministry of Economy and Innovation in preparation of the “Stratégie Québécoise de la recherche et de l’innovation”.
- 2020/12/09 **les affaires** (François Normand) : Le Canada est prêt pour la course mondiale à l’innovation (<https://www.lesaffaires.com/blogues/francois-normand/le-canada-est-pret-pour-la-course-mondiale-a-linnovation/621808>). Blog about innovation citing Beaudry on performance indicators.
- 2020/12/09 **les affaires** (François Normand) : Des zones porteuses d’avenir pour le Québec (<https://www.lesaffaires.com/dossier/special-innovation/des-zones-porteuses-d-avenir-pour-le-quebec/621789>). Article on the “zones d’innovation” citing Beaudry on the role of “centres collégiaux de transfert de technologie” – CCTT.
- 2020/11/10 **LaPresse+** (Étienne Plamondon Émond) : L’innovation, terreau de la relance (<https://www.lapresse.ca/affaires/portfolio/2020-11-10/innovation/l-innovation-terreau-de-la-relance.php>). Article about innovation quoting Beaudry about innovation ecosystems.
- 2019/05/18 **les affaires** (Martin Jolicoeur) : Le problème se trouve peut-être dans la façon de mesurer l’innovation (<https://www.lesaffaires.com/dossier/special-500-recherche-et->

- [developpement/le-probleme-se-trouve-peut-etre-dans-la-facon-de-mesurer-l-innovation/610265](#)). Interview about my research on the measurement of innovation.
- 2019/05/18 **les affaires** (François Normand): Le Québec ne profite pas suffisamment de sa recherche universitaire (<https://www.lesaffaires.com/dossier/special-500-recherche-et-developpement/le-quebec-ne-profite-pas-suffisamment-de-sa-recherche-universitaire/610267>). Article about the commercialisation of science and technology (quoting Beaudry).
- 2019/02/27 **Financial Post** (Emily Jackson): Move over oil, Big Data is the new fuel to run the world (<https://business.financialpost.com/technology/move-over-oil-big-data-is-the-new-fuel-to-run-the-world> – also related in **canada.com** <https://o.canada.com/technology/move-over-oil-big-data-is-the-new-fuel-to-run-the-world/wcm/cf57b36f-3462-4d4e-870e-1063bb2f8e35>). Article about the Innovation Superclusters initiative quoting Beaudry.
- On the results of the book “The next generation of scientists in Africa”**
(<http://www.africanminds.co.za/dd-product/the-next-generation-of-scientists/>)
- 2019/02/05 **Nature** (Elie Dolgin): Responding to the call of home – Why some scientists choose to forgo promising careers abroad to return to their countries of birth (<https://www.nature.com/articles/d41586-019-00448-8>). Article about the book published (quoting Beaudry), but also on the GloSYS-ASEAN study (see below).
- 2018/11/14 **Nature** (Rosalia Omungo): *Africa’s science ‘millionaires’: survey spotlights top-funded researchers.* (<https://www.nature.com/articles/d41586-018-07418-6>). Article about the book published.
- On the launch of the Partnership for the organisation of innovation and new technologies (4POINT0) funded by SSHRC and CFI.**
- 2018/11/15 **Bulletin CIRANO** (<https://www.cirano.qc.ca/fr/actualites/783>)
- 2018/11/06 **L’expresT** – CIRST News letter
(<http://app.dialoginsight.com/T/OFSYS/SM2/390/2/P/F/729575/3BBHfn/743095.html>)
- 2018/11/12 **POLY – Le Magazine de Polytechnique Montréal**, 15(2) : 4POINT0 : Prendre la bonne mesure de l’innovation (<https://www.polymtl.ca/carrefour-actualite/magazine-poly>). Cover story of the launch of the Partnership for the organisation of innovation and new technologies (4POINT0).
- 2018/07/19 **udemnouvelles**: Innovation ouverte et entreprises: la performance n’est pas nécessairement au rendez-vous
(<https://nouvelles.umontreal.ca/article/2018/07/19/innovation-ouverte-et-entreprises-la-performance-n-est-pas-necessairement-au-rendez-vous/>). News item mentioning the results of a study (*Does opening innovation increase the performance of firms?*) presented at the Summer School of the Centre interuniversitaire québécois de statistiques sociales (CIQSS)
- On the “Global State of Young Scientists (GloSYS)” research reports for the pour la Global Young Academy (GYA) presented to the German Federal ministry of education and research (BMBF)**
- « (GloSYS) in ASEAN – Creativity and innovation of young scientists in ASEAN »
- 2017/02/14 **University World News** – The global windows on higher education (Yojana Sharma): Cover Story: Low mobility of young scientists may hamper innovation. Article mentioning the report.
- « GloSYS » [published by the Berlin Brandenburg Academy of Sciences and Humanities (BBAW)]
- 2016/01 **HumboldtKosmos** – Bi-annual magazine of the von Humboldt Foundation (Leonie Achtnich): Cover Story: Meeting of Generations - How Researchers’ Lives are Changing: Opportunities with Obstacles. Article mentioning the report.

- 2014/03/13 **Research Money** (Mark Henderson): Global Young Academy releases report on challenges facing young scholars. Article about the report.
- 2014/02/07 **University World News** (Munyaradzi Makoni): Young scientists globally need more funding, resources, Issue 306. Article about the report.
- 2014/01/30 **Times Higher Education** (Holly Else): Europe's early career researchers gloomy over prospects. Article about the report.
- 2014/01/27 **Tagesspiegel** (von Tilmann Warnecke): Junge Forscher in Europa: Angst um die Zukunft, dafür akademisch frei. Article about the report.
- 2014/01/24 **Science Careers** (Elisabeth Pain): An Emerging Global Picture of Early-Career Scientists. Interview about the report.
- 2014/01/23 **Vitae**: Vitae welcomes a new report on the Global State of Young Scientists. Article about the report.
- 2014/01/21 **Nature** (Elisabeth Gibney): 'Extreme' workloads plague scientists at the start of their careers. Interview about the report.
- 2013/06/12 **Science Careers** (Elisabeth Pain): Defining the Global State of Young Scientists. Interview about the report.

Others

- 2012/03/10 **les affaires** (Marie Lyan): Leddartech met de l'ordre dans la circulation
Interview on collaboration in biotechnology.
- 2012/02/29 **University Affairs** (Léo Charbonneau): Canada losing its nanotechnology patents. Interview about the article "Is Canadian intellectual property leaving Canada? A study of nanotechnology patenting" published in the *Journal of Technology Transfer* 36(6), 2011, 665-679 (with Andrea Schiffauerova).
- 2012/02/29 **Canadian Foundation for Innovation blog**: La carrière des jeunes scientifiques au 21e siècle: faut-il trouver de nouveaux modèles. Interview on my presentation at the **AAAS Conference** on 2012-02-18.
- 2012/02/06 **Forum Journal** (Marie Lambert-Chan): Nanotechnologies: une propriété intellectuelle à valoriser. Interview about the article "Is Canadian intellectual property leaving Canada? A study of nanotechnology patenting" published in the *Journal of Technology Transfer* 36(6), 2011, 665-679 (with Andrea Schiffauerova).

RESEARCH GRANTS

Current Grants

PI [®] & Team	Dates	Source	Grants Program & Title	Amount
Beaudry, C. Da Sylva, L. (U. Montréal) & 4 collaborators	2021- 2022	SSHRC	Social Sciences and Humanities Research Council of Canada (SSHRC) <i>Connection Grant: Mégadonnées et techniques avancées démystifiées</i>	\$25,000
Beaudry, C.	2021- 2028	CRC	Canada Research Chair (Tier 1) in management and economics of innovation	\$1,400,000
Villemure, I. Beaudry C. & 9 co-applicants	2020- 2026	NSERC	<i>CREATE Grant: Optimizing Power Skills in Interdisciplinary, Diverse & Innovative Academic Networks (OPSIDIAN)</i>	\$1,650,000
Beaudry C. 13 co-applicants 15 collaborators & 20 partners	2019- 2023	FRQSC	<i>Team Grant (Programme de soutien aux équipes de recherche): Partenariat pour l'organisation de l'innovation et des nouvelles technologies (4POINT0) : Surfer sur la vague, ou</i>	\$603,740

PI ^a & Team	Dates	Source	Grants Program & Title	Amount
			<i>subir le raz de marée? Organiser les écosystèmes d'innovation et comprendre l'impact des technologies potentiellement perturbatrices à l'aide de nouvelles données probantes</i>	
Beaudry C. 24 co-applicants 20 collaborators & 35 partners	2018- 2024	SSHRC	<u>Partnership Grant: Partnership for the Organisation of Innovation and New Technologies (4POINTO)</u>	\$2,499,723
Beaudry C. 24 co-applicants 20 collaborators & 35 partners	2018- 2023	CFI	Canada Foundation for Innovation (CFI) <u>John R. Evans Leaders Fund : Text mining infrastructure for the Partnership for the Organization of Innovation and New Technologies (4POINTO)</u>	\$500,000
Elgie S. (U. Ottawa) Beaudry C. & 33 co-applicants 14 collaborators & 46 partners	2017- 2023	SSHRC	<u>Partnership Grant: Greening growth partnership: connecting research with policy for an innovative, sustainable economy</u>	\$2,500,000
Marion M. Beaudry C. & 36 co-applicants	2017- 2023	FRQSC	<u>Regroupements stratégiques/Centre de recherche : Centre interuniversitaire de recherche sur la science et la technologie (CIRST)</u>	\$1,550,400
Lehoux P.(U. Montréal) Beaudry C. & 12 knowledge- production experts 4 field experts & 7 knowledge mediators	2015- 2023	CIHR	Canadian Institutes of Health Research (CIHR) <u>Foundation scheme: Responsible innovation in health: Designing technologies for sustainable healthcare systems</u>	\$2,895,560

Note : ^aPI: Principal Investigator

Past Grants

PI ^a & Team	Dates	Source	Grants Program & Title	Amount
Beaudry C.	2021	Mitacs	<u>Accelerate (4POINTO)^b – CHUM : Activer, concrétiser et faciliter l'adoption des principes d'innovation et d'intelligence artificielle responsable – étude de cas et analyse rétrospective des projets d'innovation technologique en santé</u>	15 000 \$
Beaudry C.	2021	Mitacs	<u>Business Strategy Internships (4POINTO)^b – CIQ-Prompt : Déterminer les indicateurs socio-économiques reliés à l'innovation et ayant un impact durable sur la société, sur l'économie et l'environnement.</u>	10 000 \$
Beaudry C.	2020- 2021	SSHRC	<u>Connection Grant: Policies, Processes and Practices for Performance of Innovation Ecosystems - P4-IE Conference</u>	\$25,000
Armellini F. Beaudry C.	2020- 2021	Mitacs	<u>Accelerate (4POINTO)^b – Thales Canada : L'intégration de l'évaluation de l'écosystème d'innovation et la prise de décision en entreprise : le cas du positionnement stratégique de Thalès Solution Numérique au Québec</u>	30 000 \$

PI ^a & Team	Dates	Source	Grants Program & Title	Amount
Armellini F. Beaudry C. 1 co-applicant	2019-2021	Mitacs	<u>Accelerate</u> (4POINT0) ^b – Thales solutions numériques: <i>Structuration d'un accélérateur d'entreprise spécialisé en intelligence artificielle : Thales AI@Centech</i>	\$40,000
Beaudry C. 2 co-applicants	2019-2020	Mitacs	<u>Accelerate</u> (4POINT0) ^b – Prompt : <i>Développement d'un outil d'analyse de texte assisté par ordinateur permettant de classifier les entreprises dans l'écosystème de la 5G au Canada</i>	\$15,000
Cohendet P. Simon L. (HÉC) Beaudry C. & 4 co-applicants	2017-2018	Mitacs CRIAQ	<u>Acceleration</u> – CRIAQ: <i>Aérospatiale numérique</i>	Mitacs : \$45,000 CRIAQ : \$166,820
Beaudry C. Cohendet P. (HÉC) Niosi J. (UQAM)	2016	SSHRC	<u>Connection Grant</u> : <i>16th International Schumpeter Society Conference: building bridges</i>	\$25,000
Beaudry C. Mouton J. Prozesky H. (Stellenbosch U.)	2015-2018	IDRC	International Development Research Center (IDRC) <u>Research Grant</u> : <i>Young scientists in Africa : Factors influencing research performance and career development</i>	\$538,000
Mouton J. Beaudry C. Prozesky H. (Stellenbosch U.)	2015-2018	Bosch	Bosch Foundation (<i>Robert Bosch Stiftung</i>) <u>Research Grant</u> : <i>Young scientists in Africa: Factors influencing research performance and career development</i>	(300 000 €) ^c \$434,460
Beaudry C.	2014-2021	CRC	Canada Research Chair (tier 1) on <i>creation, development and commercialisation of innovation</i>	\$1,400,000
Wolfe D. (U. Toronto) Beaudry C. & 20 co-applicants	2014-2019	SSHRC	<u>Partnership Grant</u> : <i>Creating digital opportunity: Canada's ICT industry in global perspective project</i>	\$2,900,001
Doray P. Beaudry C. & 40 co-applicants	2014-2015	FRQSC	<u>Regroupements stratégiques/Centre de recherche – Subvention de déphasage</u> : <i>Centre interuniversitaire de recherche sur la science et la technologie (CIRST)</i>	\$76,700
Huang F. (Hiroshima U.) Beaudry C. Phanraksa O. (NSTDA) Co-principal investigators	2014-2015	NSTDA BMBF	Thailand's National Science and Technology Development Agency (NSTDA) and German Federal Ministry of Education and Research, (BMBF): <i>GloSYS Asia Study on "Creativity and Innovation of Young Scientists in ASEAN"</i>	(82 284 €) ^c \$120,000
Beaudry C.	2014	MITACS	<u>Accelerate</u> – AGY Consulting: <i>Enquête sur la commercialisation des nanotechnologies au Canada</i>	\$30,000
Larivière V. (U. Montréal) Beaudry C. Gingras Y. (UQAM)	2013-2018	SSHRC	<u>Insight Grant</u> : <i>Étude longitudinale des déterminants sociaux, cognitifs et organisationnels de la productivité et de l'impact scientifique</i>	\$179,300
Beaudry C. 5 co-applicants	2013-2017	FQRSC	<u>Team Grant (Subvention de soutien aux équipes de recherche)</u> : <i>Programmation sur l'ouverture de l'innovation dans les nouvelles technologies (POINT)</i>	\$416,416

PI ^a & Team	Dates	Source	Grants Program & Title	Amount
Beaudry C. Schiffauerova A. (Concordia)	2013- 2017	SSHRC	<u>Insight Grant: La commercialisation des nanotechnologies au Canada : une taxonomie des facteurs y contribuant</u>	\$245,092
Beaudry C. So R. (Philippines) Brück T. (Suède)	2013		Volkswagen Foundation: <i>Exploratory International Expert Workshop on the Global State of Young Scientists (GloSYS)</i>	(30 000 €) ^c \$43,650
Beaudry C. So R. (Philippines) Brück T. (Suède)	2013	BMBF	German Federal Ministry of Education and Research (BMBF): <i>Precursor Study of the GYA on “The Global State of Young Scientists”</i>	(99 892 €) ^c \$145,350
Beaudry C. 4 co-applicants 3 collaborators 3 partenaires	2012- 2015	SSHRC	<u>Partnership Development Grant: Partnership on Open Innovation in New Technology (POINT)</u>	\$199,950
Schiffauerova A. (Concordia) Beaudry C.	2012- 2014	SSHRC	<u>Insight Development Grant: Study of the evolving structure of scientific and technological domains in Canadian nanotechnology</u>	\$75,000
Cohendet P. (HÉC) Beaudry C. Gardoni M. (ÉTS)	2012- 2015	CSA	Canadian Space Agency (CSA) <u>Capacity Building in SS&T – Cluster Pilots: Measure of the Impacts for the Economy and Society of the Investments in the Expertise in Space (M(IES)²)</u>	\$442,251
Warin T. Beaudry C. & 3 co-applicants	2012- 2013	SSHRC	<u>Connection Grant: Réseau GMT : pour des entreprises innovantes et audacieuses dans une économie mondialisée</u>	\$70,000
Garand D. (Laval) Beaudry C. & 8 co-applicants	2011- 2014	Genome Canada	<u>Entrepreneurship Education in Genomics (EEG) program: Boosting Entrepreneurial Skills and Training : BEST in genomics</u>	\$1,116,919
Beaudry C. Cohendet P. (HÉC) Schiffauerova A. (Concordia) Zhegu M. (UQAM)	2011- 2013	FRQSC	<u>Team Grant (Subvention de soutien aux équipes de recherche): Équipe Connaissance – Investissement - Réseaux - Agglomérations – Innovation (CIRAI) Impact de la recherche subventionnée, des systèmes régionaux d'innovation, des réseaux d'innovation et des flux de connaissance sur l'innovation de haute technologie.</u>	\$61,600
Beaudry C. Schiffauerova A. (Concordia)	2011- 2012	Ne ³ LS	Réseau de connaissances sur les aspects Éthiques, Environnementaux, Économiques, Légaux et Sociaux des Nanotechnologies (Ne ³ LS) : <i>Impact des subventions publiques sur le développement des nanotechnologies : Une comparaison du Québec, du Canada et des États-Unis</i>	\$25,000
Beaudry C. De Marcellis-Warin N.	2009- 2012	SSHRC	<u>Standard Research Grant: Alliances, partenariats et réseaux d'innovation canadiens de biotechnologie et de nanotechnologie : caractérisation, impacts et facteurs de succès</u>	\$124,285
Beaudry C.	2009- 2010	Statcan	Statistique Canada – <u>Tom Symons Research Fellowship : La biotechnologie est-elle vraiment en perte de vitesse et si oui, quelles en sont les raisons?</u>	\$9,582
Beaudry C. Agard B.	2009- 2010	CIHR	<u>Knowledge Synthesis Grant: Cartographie de l'étendue des connaissances en nanomédecine et autres</u>	\$49,999

PI ^a & Team	Dates	Source	Grants Program & Title	Amount
			<i>domaines connexes : de la recherche fondamentale à son application</i>	
Doray P. (UQAM) Beaudry C. & 30 co-applicants	2008- 2014	FRQSC	Regroupements stratégiques/Centre de recherche : <i>Centre interuniversitaire de recherche sur la science et la technologie (CIRST)</i>	\$1,150,500
Beaudry C. DeMarcellis-Warin N.	2008- 2009	CIRANO	Center for interuniversity research on the analysis of organisations (CIRANO) : <i>InnovaRisQ</i>	\$30,000
Beaudry C.	2008- 2009	SSHRC	Presidential Fund Grant: <i>Impacts de la recherche subventionnée en biotechnologie et en nanotechnologie</i>	\$24,900
Beaudry C. De Marcellis-Warin N.	2006- 2008	SSHRC	Research Development Initiative Grant: <i>Risques, alliances et réseaux d'innovation – Un défi pour les PME canadiennes de biotechnologie et de nanotechnologie</i>	\$39,978
Beaudry C. De Marcellis-Warin N.	2006- 2008	CIRANO	<i>Risques, alliances et réseaux d'innovation – Un défi pour les PME canadiennes de biotechnologie et de nanotechnologie</i>	\$10,000
Beaudry C.	2005- 2011	Poly	Polytechnique Montréal: Several grants	\$51,700
Beaudry C.	2003- 2006	FRQNT	Individual Grant (Subvention individuelle): <i>Analyse théorique, empirique et par simulation des facteurs de décisions techno-économiques et des propriétés dynamiques d'entreprises de haute technologie</i>	\$45,000
Beaudry C.	2003- 2006	FRQNT	Equipment Grant (Subvention d'équipement): <i>Mise en place d'un laboratoire d'analyse par simulation de facteurs de décision techno-économiques</i>	\$15,000
Beaudry C.	2003- 2004	CRSNG	Individual Grant: <i>Simulation de facteurs de décision techno-économiques et des propriétés dynamiques des entreprises de haute technologie</i>	\$14,000
Beaudry C.	2002- 2005	Poly	Fondation de Polytechnique – <u>Start-up Grant</u> : <i>Analyse théorique, empirique et par simulation des facteurs de décisions techno-économiques et des propriétés dynamiques d'entreprises de haute technologie</i>	\$15,000
Beaudry C.	2002- 2003	Poly	Polytechnique Montréal (Programme P.I.E.D.) – <u>Start- up Grant</u> : <i>Analyse théorique, empirique et par simulation des facteurs de décisions techno- économiques et des propriétés dynamiques d'entreprises de haute technologie</i>	\$20,000
Miller R. E. Beaudry C. & 18 co-applicants	2002- 2007	SSHRC	Initiative for the New Economy Grant: <i>Managing Innovation in the New Economy</i>	\$3,600,000
Camarero R. Beaudry C. & 6 co-applicants	2002- 2006	CFI	On-going New Opportunities Fund: <i>Plateforme de développement d'algorithmes parallèles pour la modélisation et l'optimisation de systèmes complexes d'ingénierie et de systèmes multi-agents de production industrielle</i>	\$1,100,000

PI ^a & Team	Dates	Source	Grants Program & Title	Amount
Beaudry C.	1999-2002		Leverhulme Trust – <u>Special Research Fellowship</u> : <i>Clusters of production and consumption</i>	\$72,000
Beaudry C.	1999-2000		Stanford University SIEPR grant : <i>Silicon Valley and its imitators</i>	\$26,500

Notes : ^a PI: Principal Investigator

^b Dr. Beaudry is a co-applicant of all Mitacs grants obtained via the Mitacs-SSHRC joint initiative for 4POINT0. Only those in which she is directly involved are listed here.

^c All amounts are converted to Canadian dollars for the period of validity of the grant.

APPENDIX A – HIGHLY QUALIFIED PERSONNEL

Current Team

Name	Dates	Title of the Research Project or Expertise	Supervisor
			Cosupervisor
Research Associates			
[1] Nicolas Sacchetti	2021/07-	Scientific communication	Beaudry C.
[2] Davide Pulizzotto	2018/12-	Natural Language Processing (NLP)	Beaudry C.
[3] Carl St-Pierre	2007/08-	Statistical methods	Beaudry C.
Postdoctoral Fellows			
[4] Amir Taherizadeh (CIRANO)	2019/11-	How do AI-based inventions classified as ‘innovation process’ affect productivity in Québec’s manufacturing plants	Beaudry C.
[5] Mehdi Rhaïem (FRQSC)	2019/10-	Analysis of the researchers’ activity portfolio: measures and determinants of their academic efficiency	Beaudry C.
Ph.D. students			
[6] Amiral Karimi	2021/09-	To be defined	Beaudry C.
[7] Sarah-Jeanne Tourangeau	2021/09-	To be defined	Beaudry C.
[8] Alvar Herrera Sosa	2020/09-	To be defined (theme: new innovation indicators)	Beaudry C.
[9] Annie Passalacqua	2020/01-	Measuring the innovative potential of human capital in health innovation ecosystems	Beaudry C. Malas K.
[10] Ricardo Henrique Da Silva	2019/08-	Analysis of the evolution of the automotive industry towards the sustainable mobility ecosystem	Armellini F. Beaudry C.
[11] Pietro Cruciatà	2019/01-	Business ecosystems and companies’ innovativeness: A new evaluation approach	Beaudry C. Lodi A.
[12] Diego Rolando Mahecha Capacho	2017/01-	Digital transformation and its influence on innovation, regulation and collaboration - Aerospace and health ecosystems analyzed by Big Data	Beaudry C. Armellini F. Aubin C.-É.
[13] Anas Ramdani	2017/05-	Study of innovation ecosystems: the case of 5G technology and 3D printing	Beaudry C. Bourgault M.
[14] Bassirou Diagne	2017/01-	Analysis of the research performance of young scientists in Africa and the factors influencing this performance	Beaudry C.
[15] Mikaël Héroux-Vaillancourt	2016/08-	Proposal of new innovation measures based on the content of corporate websites and their impact on performance	Beaudry C.
M.Sc.A students			
[16] Niloofar Niknazar	2020/09	To be defined (theme: impact of family, funding and scientific output on academic total academic salaries and promotions)	Beaudry, C.
Master’s students outside of Polytechnique			
[17] Yoan St-Onge	2020/09-	Online collaborative tools and knowledge management within a decentralized organisation	Fachin, F. Beaudry, C.

Former graduate students and postdoctoral researchers

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
Research Associates				
[1] Laurence Solar-Pelletier	2016/02-2021-12	Qualitative methods	Beaudry C.	Senior Practice Development Advisor in Advanced Analytics, Desjardins
[2] Nicolas Benjamin	2019/11-2020/10	Database and project management	Beaudry C.	Founder, The Brane
[3] Leila Tahmooresnejad	2019/06-	Bibliometrics and social network analysis	Beaudry C.	On maternity leave
Postdoctoral Fellows				
[4] Seyed Reza Mirnezami	2016/02-2019/09	Impact of publicly funded research in Quebec	Beaudry C.	Assistant professor, Sharif Université of Technology
[5] Leila Tahmooresnejad	2015/03-2019/05	Economics of science and technology	Beaudry C.	Research associate, Polytechnique Montréal
[6] Pauline Huet	2015/02-2018/09	Performance and career development of young African researchers	Beaudry C.	Senior Research Review Officer, Mitacs
[7] Johannes Geffers (Berlin – GYA)	2014/10-2016/12	The Global State of Young Scientists in ASEAN	Beaudry C.	Ministerial Officer, Bundesministerium für Bildung und Forschung (BMBF)
[8] Irene Faas (née Friesenhahn (Berlin – GYA)	2012/01-2014/05	The Global State of Young Scientists	Beaudry C.	Research project coordinator, DIW Berlin
Ph.D. students				
[9] Arman Yalvac Aksoy	2015/09-2021/09	University licensing strategy determinants and outcomes	Beaudry C.	Analyst, Statistics Canada
[10] Cintia Maria Rodrigues Blanco	2015/05-2020/12	Proposed taxonomy and framework to support the decision-making of investments in Big Science	Beaudry C. Armellini F.	Senior analyst S&T – National Institute for Space Research, Ministry of Science, Technology and Innovation of Brazil
[11] Georges Hage (was working full time during his studies)	2014/01-2020/12	The adoption of emerging technologies in Canada and their impact on innovation performance	Beaudry C.	AI Adoption Strategy, Digital and Business Transformation, Co-founder at Ingegno
[12] Stéphane Dauphin-Pierre	2012/01-2018/12	The relationship between research and SME intermediaries, analysis and impacts	Beaudry C.	Project coordinator, Arche Innovation
[13] Annie Martin	2010/08-2016/12	Collaboration in the Canadian space sector – An exploratory study combining bibliometry and surveys	Beaudry C.	Innovation lead – Operational space medicine, Canadian space agency
[14] Narjes Naserbakht	2009/08-2016/08	Impact of university–industry collaboration on the quality of biotechnology and nanotechnology patents in Canada	Beaudry C.	Data scientist, Exalt Cap
[15] Seyed Reza Mirnezami	2012/05-2015/12	Three essays on the economics of science policy: the impact of	Beaudry C.	Assistant professor, Sharif University of Technology

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
		funding, collaboration and research chairs		
[16] Farnoush Farnia	2009/05 2015/04	Timber auction simulation and design	Frayret J.-M. Beaudry C. Lebel L. (Laval)	AI strategy and development advisor, Intelius AI
[17] Leila Tahmooresnejad	2010/08 2015/03	Impact of public funding on the development of nanotechnology: A comparison of Quebec, Canada and the US	Beaudry C.	Research associate, Polytechnique Montréal
[18] Fabiano Armellini	2010/03 2013/04	Patterns of open innovation within product development: a comparative study between Brazilian and Canadian aerospace industries	Kaminski P.C. (Saõ Paulo) Beaudry C.	Associate professor, Polytechnique Montréal
[19] Ahmad Barirani	2009/08 2012/12	Essays on the recombination and diffusion of innovations	Beaudry C. Agard B.	Data scientist, Danske Bank Previously at Léonard de Vinci Business Lab (La Défense, Paris)
[20] Ziad Rotaba	2006/05 2010/08	Essays into the evolution of systems of innovation: A comparative/ phylogenetic tree approach	Beaudry C.	Previously Assistant professor at Nile University (lost contact)
[21] Andrea Schiffauerova	2005/08 2008/11	Knowledge flows in clusters and innovation networks: The case of Canadian biotechnology and nanotechnology	Beaudry C.	Associate professor, Concordia University
Ph.D. Interns				
[22] Giulia Piantoni (Politecnico di Milano)	2019/03 2019/08	Innovation Ecosystems	Beaudry C.	Postdoctoral researcher, Politecnico di Milano
M.Sc.A students				
[23] Yoan St-Onge (Collège militaire royal du Canada)	2020/09- 2121/12	Online collaborative tools and knowledge management within a decentralized organisation	Fachin F. Beaudry C.	Analyst, Canadian space agency
[24] Thibaut Malagas	2019/09- 2021/12	The role of human capital in the innovation process of a firm - Modeling human capital indicators and the innovation potential of the company's organisational capital	Beaudry C. Agard B.	Systems engineer, Safran Electronics & Defense
[25] Melika Jafari	2018/03 2021/04	Exploring innovation concepts in Twitter via LDA topic modelling – The case custom computer programming services	Beaudry C.	Database and BI developer and analyst, Tradesoft
[26] Valentine Mas	2020/02- 2021/08	Integrating innovation ecosystem assessment into business decision making: A case	Armellini F.	Consultant, Oresys

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
		study of digital transformation in the aerospace sector	Beaudry C.	
[27] Mikel Ruiz Salazar	2019/09-2021-08	Study of the adoption factors of cloud computing in the financial and healthcare sectors	Beaudry C.	
[28] Arthur Tobler	2017/08 2019/10	Thematic modeling of Quebec journals in the humanities and social sciences	Beaudry C.	Research scientist, GradeSlam
			Gagnon M.	
[29] Diego Rolando Mahecha Capacho	2013/08 2017/04	Open business models and innovation in the Canadian aerospace industry	Beaudry C.	Doctoral student, Polytechnique
[30] Anaïs Dorseuil	2014/08 2016/12	Study on open innovation and collaboration practices in the Canadian aerospace industry: openness as a strategic lever of innovation	Beaudry C.	Project leader, Boston Consulting Group (BCG)
[31] Melik Hamida Bouhadra	2014/05 2016/08	Study on the evolution of the collaboration network in the Canadian information and communication technologies industry: the hardware mutation	Beaudry C.	Director of financing experience, Nesto
[32] Alva Luz Crespo Neira (U. Concordia)	2014/08 2016/04	Influence of cognitive, geographical, and collaborative proximity on knowledge production in the field of Canadian nanotechnology	Schiffauerova A.	
			Beaudry C.	
[33] Oliver Leyva Ramos	2014/01 2015/09	Study on the influence of the presence of a research centre on interdisciplinary and interuniversity collaboration	Beaudry C.	Transformation partner, Data & AI, Orange
[34] Constant Rietsch	2013/01 2015/09	Development of web scraping techniques: The case of nanotechnology commercialisation in Canada	Beaudry C.	Specialist – Spare parts materials planning and SIOP, Pratt & Whitney Canada
[35] Anas Ramdani	2012/08 2014/12	Interorganisational collaboration measures with an innovation	Bourgault M.	Doctoral student, Polytechnique
			Beaudry C.	
[36] Ramine Kananian	2010/01 2011/12	Academic researchers, funding and innovation: Comparison between nanotechnology and biotechnology	Beaudry C.	Principal, Slalom
[37] Sedki Allaoui	2010/01 2011/12	Impact of funding on scientific production of researchers in nanotechnology in Quebec	Beaudry C.	Senior manager Transformation, Excelitas Technologies Corp.
[38] Joël Levasseur	2009/01 2011/08	Survival and growth factors of biotechnology firms in Canada	Beaudry C.	Manager, Manufacturing strategies, Special projects, BRP
[39] Maxime Clerc-Lamalice	2007/08 2009/12	Analysis of the impact of public funding on Quebec universities biotechnology research	Beaudry C.	Senior director, Corporate data, BNC

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
[40] Rudy Farcy	2006/08 2008/04	The impact of Canadian public policy on biotechnology innovation and funding: A systems dynamics analysis	Beaudry C.	Manager IDF projects services, Suez France
[41] Alessandro Ceschia	2006/08 2008/04	Firm-specific characteristics impacting collaborative behaviour: The case of the Canadian biotechnology industry	Beaudry C.	Head of Corporate Development and Managing Director, iM Global Partner
[42] Ziad Rotaba	2003/08 2005/11	Understanding the dynamics of industrial clusters: The case of the Canadian telecommunication equipment manufacturers	Beaudry C.	Previously at Nile University (lost contact)
[43] Jean-Sébastien Beaucage	2003/08 2005/08	Study of technological innovation dynamics within biotechnology industrial clusters in Montreal, Toronto and Vancouver	Beaudry C.	Senior manager, KPMG
[44] Jean-François Champigny	2003/08 2004/08	The funding of SME innovation, economic cycles and state intervention	Beaudry C.	Partner, PwC Luxembourg at the time of his passing in 2012
M.Ing. students (many of which are part time students)				
[45] Roxane Desrosiers	2020/09- 2021/11	Stage de maîtrise chez ContinuumRD	Beaudry C.	Master's student, Polytechnique Montreal
[46] Jean-François Bernier	2020/09 2021/04	Exploration of the factors influencing the operational performance of a fleet of equipment by survival analysis	Beaudry C.	Industrial data valuation specialist, Location d'outils Simplex
[47] Olivier O'Neel	2019/08- 2020/12	Applying problem-solving methods to facilitate change management	Beaudry C. Armellini F.	Analyst, The PNR
[48] Clément-Xavier Rique	2019/01 2020/08	Contribution to the development and deployment of the management application and determination of target stocks within the Louis Vuitton innovation supply chain team	Beaudry, C.	Asset & Inventory Manager, Air Liquide
[49] Yesmine Boukhili	2018/05 2019/12	Study on the salary of professors in Canada	Beaudry C.	Social Media Specialist, Nespresso Canada
[50] Philippe Molaret	2014/05 2017/04	Digital governance of SMEs 4.0	Beaudry C.	Technology director, Thales North America
[51] Samuel Courtemanche	2011/08 2016/04	The design of an innovative organisation	Beaudry C.	Director, Audax Innovation
[52] Alex Gunaseelan	2013/08 2016/04	Canadian Tire Company: Southern Ontario deliveries and transport allocations	Beaudry C.	Project Manager, Environment and Climate Change Canada
[53] Jérémie Lavault	2014/01 2016/03	Implementation of statistical projects for the improvement of production and control procedures in a workshop of the Manufacture Jaeger-LeCoultre	Beaudry C.	

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
[54] Marie-Pier Lambert-Desjarlais	2012/08 2015/08	The commercialisation of nanotechnology in Canada	Beaudry C.	Business administration teacher, CÉGEP du Vieux Montréal
[55] Chaima Ben Miloud	2013/08 2015/05	Sales, inventory and operations planning: Needs analysis and development of training material	Beaudry C.	Program performance manager, Umlaut company, Accenture
[56] Mauricio Salvador Lopez Zarate	2010/08 2014/11	Definition and mapping of a customer order fulfillment process for a landing gear product support organization	Beaudry C.	
[57] David Charbonneau	2011/01 2013/04	Case study of Apple's strategic development in a hypercompetitive environment	Beaudry C.	Managing partner, Boreal Ventures
[58] Alexis Mathieu	2011/08 2013/03	From creation to value capture for the success of an SME: From idea to prosperity in high technology	Beaudry C.	Engineer HVAC, Veolia Belgium & Luxembourg
[59] Serge Donald Poueme Daouda	2007/08 2012/12	Success of new firms in converging technological environments: The case of social television	Beaudry C.	Senior technical account manager, Amazon
[60] Frédéric Lajoie	2010/05 2011/06	Innovations, technologies and models used for the design of video games	Beaudry C.	Business analyst, Banque Laurentienne
[61] Annie Martin	2009/08 2010/04	Telemedicine for exploration space missions and remote areas in Canada: Establishing an impact measurement framework	Beaudry C.	Health beyond portfolio manager, Canadian Space Agency
[62] Valérie Lafrenière	2006/08 2010/04	Marketing of vegetable spring water	Beaudry C.	Director, Mechanics and Design, IGRL Consultants Inc.
[63] Ahmad Barirani	2007/01 2008/04	PatentBot : A web data extractor	Beaudry C.	Data scientist, Danske Bank Previously at Léonard de Vinci Business Lab (La Défense, Paris)
[64] Christian Fournelle	2001/01 2008/01	Are the industrial clusters of Metropolitan Montreal a fashion?	Beaudry C.	Vice-président marketing ventes, Technologies MindCore inc.
[65] Anick Dalpé	2001/08 2006/08	Diffusion of short lifecycle technologies	Beaudry C.	Professional freelance worker
[66] Maxime Lussier	2004/01 2006/08	Optimization of batch sizes of capsule and tablet products at Pharmaceutical Inc.	Beaudry C.	Director, Manufacturing Operations & HSE, Pharmascience
[67] Abdourahamane Diallo	2004/01 2004/12	Study of integration and alliance strategies in the aerospace industry	Beaudry C.	
[68] Arnaud Redheuil	2003/01 2004/06	Study of innovation dynamics in the aerospace industry in Canada	Beaudry C.	Founding Director, Grevyi Conseil
Undergraduate students (interns and final year projects)				
[69] Alaa Bejaoui	2020/01 2020/06	Data analysis on technology adoption	Beaudry C.	Master's student, University of Stuttgart, Germany

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
[70] Maha Badri	2020/01 2020/06	Data analysis on technology adoption	Beaudry C.	Master's student, University of Stuttgart, Germany
[71] Hakim Belkouch	2018/05 2018/08	Validation of a survey sample	Beaudry C.	Business Analyst, Eudonet Canada Inc.
[72] Giacomo Piccardo	2012/08 2012/12	Market and research analysis about nanotechnology in Canada	Beaudry C.	Manager Advisory, PwC Luxembourg
[73] Marie-Ève Boivin Deroy	2008/08 2008/12	From idea to patent - Inventors and authors of biotechnology	Beaudry C.	Project Engineer, Hydro-Québec
[74] Vincent Marcotte	2008/01 2008/04	Biotechnology innovation networks and collaboration in Canada	Beaudry C.	Aerospace Sales Account Manager, Héroux-Devtek
[75] Mario Ghannam	2007/05 2007/12	Profitability analysis tutorial for engineers	Beaudry C.	Senior Strategy and Program Manager, Telus
[76] Joël-Simon Gélinas	2007/08 2007/12	Construction of natural gas wells	Beaudry C.	Director of construction and development, Strom spa nordique
[77] Simon Gervais-Boyer	2006/08 2006/12	The challenges of strategic alliances for Canadian biotechnology companies	Beaudry C.	
[78] Adel Bensahla	2012/08 2012/12	Characterisation of networks in the space domain in Canada	Beaudry C.	Datawarehouse Project Manager – Fellow, CERN
[79] Sedki Allaoui	2009/08 2010/04	Knowledge mapping in nanomedicine and identification of researchers, inventors and scientist-inventors active in the niches of the field in Canada	Beaudry C.	Senior manager Transformation, Excelitas Technologies Corp.
[80] Ramine Kananian	2009/08 2010/04	Knowledge mapping in nanotechnology and identification of researchers, inventors and scientist-inventors active in the niches of the field in Canada	Beaudry C.	Principal, Slalom
[81] Eva Seenevaragachetty	2009/05 2009/08	Development of algorithms for identifying the location of biotechnology and nanotechnology researchers	Beaudry C.	
[82] Nicolas du Parc	2009/05 2009/08	Development of first name recognition algorithms for biotechnology and nanotechnology researchers	Beaudry C.	Investment Manager, Fonds de solidarité FTQ
[83] Ricard-Olivier Moreau	2008/05 2008/12	Building databases of biotechnology and nanotechnology articles and patents	Beaudry C.	
[84] Bogdan Adrian Radu (CRSNG, UPIR)	2003/05 2004/04	Simulation of the evolution of companies within industrial clusters	Beaudry C.	Section Chief Avionics, Global 7000/8000, Bombardier Aerospace
[85] Pierre-Antoine Manzagol (CRSNG)	2003/05 2003/08	Simulation of the evolution of companies within industrial clusters	Beaudry C.	Senior Software Developer, Google Brain, Google
			Savard G.	

Name	Dates	Title of the Research Project or Expertise	Supervisor	Current Position
			Cosupervisor	
[86] Elaine Schneider de Carvalho (MITACS)	2003/01 2003/08	Passenger demand forecast in the airline industry employing discrete choice models	Beaudry C.	CDO Information & Analytics Consultant, ASML

APPENDIX B – STUDENT EVALUATION

Name	Date	Title of the Research Project	Supervisor
			Cosupervisor
Ph.D. Theses (Chair of the evaluation committee)			
[1] Nihad Faisal Bassis	2020/01	Assessment of innovation ecosystems for technology roadmapping at firm level	Armellini F.
[2] Mehdi Rhaïem	2018/04	Efficiencie de la recherche dans les écoles de gestion au Canada : Modélisation par des approches paramétriques et non paramétriques	Amara N. (U. Laval)
[3] Shadi Farha	2016/12	Open Innovation Practices in the Professional Services Industry	De Marcellis-Warin N.
Ph.D. Theses (Member of the evaluation committee)			
[4] Andew Park	2021/10	Invention to Innovation: A Framework and The Roles of Uncertainty and Open Innovation in an Emerging Personalized Medicine Innovation Ecosystem	Maine, E. (SFU)
[5] Richard Martin	2013/04	Conception d'un modèle intégré substantif d'adoption des concepts de l'innovation ouverte	Deschamps I. (ÉTS) Lavallée J. (Hydro-Quebec)
[6] Javier Martínez Romero	2011/08	The development of aerospace clusters in Mexico	Niosi J. (UQAM)
[7] Majlinda Zhegu	2007/03	La coévolution des industries et des systèmes d'innovation : l'industrie aéronautique	Niosi J. (UQAM)
Ph.D. Theses (Representative of the Director of Graduate Studies)			
[8] Ariane Bérard	2020/10	Principes fondamentaux de la RTD en phase gazeuse dans les réacteurs à lit fluidisé	Patience, G.
[9] Bahador Bakhtiari	2009/12	Process integration of absorption heat pumps	Fradette L. Paris J. Legros R.
Ph.D. comprehensive doctoral examination (Chair of the evaluation committee)			
[10] Igor Sadoune	2020/08	Examen de mathématiques	Joanis M. Lodi A.
[11] Zahida Benraïs	2019/04	La planification stratégique de la technologie : conception d'une méthodologie de planification agile qui intègre l'évaluation de l'écosystème d'innovation	Armellini F.
[12] Nihad Faissal Bassis	2016/08	Defining business models for the Internet of Things: an analysis through the integration of ecosystem assessment and technology road mapping	Armellini F.
[13] Lookman Arzim	2016/08	Examen écrit	Zhegu M. (UQAM)
[14] Houssam Alaouie	2014/09	Exploring interorganizational collaborative research projects lifecycle in the aerospace industry: A proposed framework	Beaudry C.
[15] Saeed Sarenchah	2013/12	Vertical search engine	Schiffauerova A. (U. Concordia)
[16] Sophie Morin	2012/12	Impact du développement des capacités cognitives à la base de la créativité sur la performance créative	Robert J.-M.
[17] Amira Braham	2014/12	Examen écrit	Warin T.

Name	Date	Title of the Research Project	Supervisor
			Cosupervisor
[18] Shadi Farha	2011/12	Implementing open innovation in management consulting: Process. Success factors, risks & benefits	De Marcellis-Warin N.
[19] Sébastien Malo	2009/09	Examen écrit	Robert J.-M.
[20] Luz Maria Jimenez	2008/05	Étude sociocognitive de la tâche créative dans la conception collaborative à distance	Robert J.-M.
			Guité M. (U. Montréal)
[21] Romain Jallon	2007/12	Évaluation économique des risques de troubles musculo-squelettiques au travail et analyse coût-bénéfice d'interventions en santé et sécurité au travail	Imbeau D.
			De Marcellis-Warin N.
[22] Michael Kamel	2006/08	The evolution of architecture and innovation in the aviation training industry	Miller R. E.
Ph.D. comprehensive doctoral examination (Member of the valuation committee)			
[23] Fabiano Armellini	2011/03	Integrating open innovation to the product development process	Kaminski P.C. (São Paulo)
[24] Majlinda Zhegu	2003/09	Grappes industrielles en aérospatiale	Niosi J. (UQAM)
M.Sc.A. Theses (Chair of the evaluation committee)			
[25] Océane Couillaud	2020/08	Le genre dans l'éducation entrepreneuriale : une analyse exploratoire inspirée de la fouille de textes	Armellini F.
[26] Bruno Marmoux	2016/08	Déterminants de l'état des infrastructures routières: une analyse économétrique du réseau Québécois	Joanis M.
[27] Sylvia Dimitrova	2013/12	Implementation of crowdsourcing into business and innovation strategies: A case study at Bombardier transportation	Bourgault M.
[28] Éric Garat	2012/12	Enquête exploratoire sur les avantages et les risques des partenariats des entreprises développant ou utilisant des nanotechnologies au Québec	De Marcellis-Warin N.
			Warin T.
[29] Éric Garat	2012/12	Enquête exploratoire sur les avantages et les risques des partenariats des entreprises développant ou utilisant des nanotechnologies au Québec	De Marcellis-Warin N.
[30] Maxime Clerk-Lamallice	2007/08	Évaluation de l'incidence du financement public de la recherche universitaire québécoise dans le domaine de la biotechnologie	Warin T.
	2009/12		
[31] Éric Garat	2012/12	Enquête exploratoire sur les avantages et les risques des partenariats des entreprises développant ou utilisant des nanotechnologies au Québec	De Marcellis-Warin N.
[32] Adriana Cakembergh-Mas	2007/08	Modélisation stratégique de la gestion énergétique d'une usine de pâte Kraft	Trépanier M.
			Paris J.
[33] Sébastien Favre	2006/06	Modèle de représentation de la chaîne logistique de matières dangereuses : Un essai de représentation plus précise pour la gestion des risques	De Marcellis-Warin N.
			Trépanier M.
[34] Michael Kamel	2004/08	The evolution of games of innovation in the aviation training industry	Miller R. E.
[35] Marie-Éve Faust	2003/09	L'utilisation des technologies de l'information et de la communication (TIC) lors de la fonction essayage vestimentaire	Baptiste P.
			Trépanier M.
M.Sc.A. Theses (Member of the evaluation committee)			
[36] Kasra Dadkhah-Hadi	2020/12	Algorithmes de recherche de comparables en finance	Desmarais M.
[37] Maxime Chevriot	2011/06	Dynamique du modèle d'affaires des entreprises pharmaceutiques favorisant la collaboration au sein du secteur des sciences de la vie au Canada	De Marcellis-Warin N.
[38] Éric Gourjon	2004/08		Lapierre J.

Name	Date	Title of the Research Project	Supervisor
			Cosupervisor
		Le marketing de permission : étude de cas dans une entreprise canadienne de télécommunication	Trépanier M.
M.Ing. Reports (Second reader)			
[39] Alvar Herrera Sosa	2020/08	Développement d'un outil d'analyse de texte assistée par ordinateur permettant de classifier les entreprises dans l'écosystème de la 5G au Canada	Armellini F. Deschamps I.
[40] Anaïs Vairinhos	2014/05	Perception des risques reliés à l'utilisation des nanotechnologies	De Marcellis-Warin N.
[41] Cheikh Michel Ngom	2013/12	Guide de développement de nouveaux produits pour les entrepreneurs ou chercheurs en milieu universitaire	Bassetto S.
[42] Jérémy Valensi	2012/12	Gestion des risques obstétriques et développement économique	De Marcellis-Warin N.
[43] Daniel Barbeau	2012/04	Les services de la construction	Lefèbvre É.
[44] Charles Ibrahim	2012/01	Open innovation strategy & WMD implementation	Bourgault M.
[45] Harêtha Alao	2007/04	Étude de la demande énergétique pour le chauffage des édifices dans le cadre d'un projet alimenté par une usine de pâte et papier	Trépanier M.
[46] Pierre Alvarez	2006/08	Le processus de communication et de perception du risque de la nanotechnologie	De Marcellis-Warin N.
[47] Édouard Kadé	2006/05	Étude de l'impact de la variation des prix de l'énergie dans différents secteurs	De Marcellis-Warin N.
[48] Martin Courtemanche	2005/12	Étude de cas chez MAAX, approvisionnement en Chine et lean thinking : est-ce un mariage qui peut se faire?	Baptiste P.
[49] Caroline Abboud	2004/05	Étude sur l'industrie des télécommunications : analyse du marché canadien de la téléphonie sans fil	Leblanc D.
[50] Alexandra Bonnefoy	2003/12	Différences et similitudes entre l'évaluation d'entreprise et de projets	Leblanc D.
[51] Karim Bakhache	2003/09	Real option valuation of a lease contract	Leblanc D.
[52] Daniela Iordache	2003/06	Estimation du taux d'actualisation par approche des options	Leblanc D.

APPENDIX C – MAIN RESEARCH PROJECTS (MOST RECENT TO OLDEST)¹

Evaluation of Research, Science and Technology: Impact of Funded Research

Young scientists in Africa: Factors Influencing research performance and career development

[IDRC, Bosch Foundation – 2015-2018]

This project is the first and most comprehensive multi-country study to analyse the research performance and career decisions of young scientists across Africa (over 7,500 respondents), taking into account the multiple challenges they face in the public (higher education, government, parastatal) and private (industrial research and development) sectors. Factors studied in a systemic approach include gender issues, resource constraints (especially financial), concerns about research performance, the structure and governance of the research system, and mobility issues, including the ‘brain drain’. Aiming at a comprehensive understanding of the research system in all African countries, the project included: 1) a bibliometric analysis of young scientists’ publication output, productivity and citation impact; 2) a study of grants and resource allocation organisations; and 3) a survey examining the main concerns of young scientists (e.g. workload, job satisfaction, funding and other support for mobility, creativity and innovation, career development and prospects, mentoring, as well as various perceived career barriers ranging from discrimination to political instability). This research has provided policymakers with reliable and systematic evidence to justify proposed improvements to the research system in their specific countries and in Africa in general, in order to improve the situation of African early career scientists.

Canadian nanotechnology commercialisation: A taxonomy of contributing factors [SSHRC – 2013-2017]

The objective of this project was threefold: 1) measure the impact of university-industry collaboration on the commercialisation of nanotechnology; 2) determine the impact of public funding of university research and of direct contribution to firms on commercialisation; and 3) study the effects of knowledge spillovers captured by firms with or without the help of university collaboration on commercialisation of nanotechnology in Canada. This project has highlighted that although private sector organizations renew their patents at a higher rate than universities, the gap between the two sectors decreases as invention generality increases. While private organizations generally produce lower rates of basic invention than public organizations, the results show that when companies increase the knowledge recombination distance they also increase the rate of basic invention. In addition, the increased use of basic science moderates the relationship between the knowledge recombination distance and an invention’s basicness degree. Finally, increasing the recombination distance in emerging scientific industries raises the rate of basic invention to a higher level. These results fuel the debate on the university’s third mission, but above all demonstrate the crucial impact of the recombination of often distant knowledge on the creation of new innovations.

Impact and outcomes of investments in space research

[Canadian Space Agency – 2012-2015]

As the disciplines move closer together and use each other, it is likely that the knowledge generated to provide solutions to Earth problems will increasingly be used to solve space application barriers and vice versa. In turn, as the trend towards breaking down silos spreads to the space industry, companies that previously specialised in space technologies will seek terrestrial applications for their discoveries. The space field is characterised by the importance attached to the protection of intellectual property and in particular by the strong culture of trade secrets, which can significantly delay the commercialisation of knowledge and thus distort the perception of return on investment. This particular characteristic of this field renders the measurement of its impact much more difficult, compared to biotechnology where commercial applications, products and processes are generally all patented. The project therefore ventured beyond standard indicators and developed a systemic approach encompassing the measurement of technological, economic and societal outcomes and impacts. It aimed to provide a framework for the evaluation of knowledge production and technology transfer mechanisms and the performance of these mechanisms. The study showed that the Canadian Space Agency and the organisations (industry, universities, hospitals, etc.) that gravitate around the scientific and technological networks of the Canadian space industry are very compartmentalised. The hoped-for cross-fertilisation is therefore not forthcoming.

¹ Consult the section on research funding for a detailed description of the grants and contracts.

Study of the evolving structure of scientific and technological domains in Canadian nanotechnology

[SSHRC – 2012-2014]

This project had two main objectives: 1) investigate the dynamics of knowledge and technology diffusion in the field of nanotechnology in Canada (evolution of citation networks, interactions between various fields of research and technology, and emergence of promising fields of research and technology); and 2) study the factors influencing the creation of key (ground-breaking, radical and/or precursor) papers and patents, their roles and positions in the network, and the structure of the research teams behind these innovations. This project developed a taxonomy based on the evolutionary pattern of these technologies. The combination of several methodologies also generated a new systemic approach, combining bibliometric indicators, social network analysis, data mining and comprehensive statistical analysis. In order to elucidate the scientific and technological aspects of innovation, two data sets were combined: scientific journal articles and patents. The study demonstrated the limitations of geographical proximity and the importance of other types of proximity (social and cognitive), represented by collaborative networks, on scientific and technological performance. The innovation loops [A33] mentioned in the section Most important contributions (point 3) have been studied in this project.

Boosting Entrepreneurial Skills & Training: BEST in Genomics

[Genome Canada – 2011-2014]

This research and training program aimed to foster, analyse and maximise the translation of scientific knowledge and results into commercially relevant products. In particular, the work identified how to create and capture value from research in order to translate these discoveries into marketable applications, products, technologies, systems and processes. Characterising the availability of expertise from all stakeholders in Quebec and the Atlantic Provinces (universities, research centres, technology transfer offices, industry-led clusters and private companies), the project has built an integrated and symbiotic entrepreneurial education profile for genomics, while creating and enhancing its medium- and long-term economic footprint in Canada. Dr. Beaudry's contribution to the project has enabled the measurement of the impact of publicly and privately funded research and the monitoring of changes in commercialisation and entrepreneurship indicators during and after the BEST in Genomics programme.

Impact of public grants on the development of nanotechnologies – A comparison on Quebec, Canada and the US

[Ne3Is – 2011-2012]

As nanotechnology is still a field that is very much embedded in science, the influence of public funding can potentially have a crucial influence on the future development of nanotechnology. The work measured the impact of public funding (compared to private funding) on scientific output and on the quality of that output. The research project thus contributed to the dialogue between governments, the market and the scientific community by studying the current framework for nanotechnology development in Canada, comparing it to that of the United States and proposing improvements to this framework. Following Beaudry and Allaoui [A37], published in the best journal in the field (see point 4 in the section Most important contributions), this project has led to numerous publications, notably with Tahmooresnejad.

Knowledge mapping of nanomedicine and related domains: from fundamental research to its application

[CIHR – 2009-2010]

The project aimed to map the extent of knowledge in nanomedicine, using existing databases of scientific articles in nanotechnology and biotechnology (already adapted to the needs of the project) and patents. To this end, the study used standard data management techniques, social network analysis and data mining in order to link the networks of co-inventors and co-authors with those of the instigators of these basic and applied research projects. Such a mapping helped to illustrate the evolution of the boundaries between disciplines and their applications, thus identifying possibilities for future developments. The results showed that nanomedicine is highly competitive and that the landscape was still many years away from the emergence of dominant private companies. The absence of dominant players suggested that the field was still in its infancy. This mapping provided decision-makers with reliable information on the state of knowledge and its application, so as to target areas that required efforts to foster new developments in order to maximise the impact on the well-being of the population, taking into account the means at their disposal.

Impact of university funded research in Canadian biotechnology and nanotechnology [SSHRC– 2008-2009]

For new emerging technologies such as biotechnology and nanotechnology, the study validated three research hypotheses: 1) researchers funded by granting agencies are more likely to collaborate to make their research known through scientific publications, automatically have a wider innovation network and

contribute more actively to the flow of knowledge within the network; 2) researchers funded by granting agencies produce more patents in collaboration with firms and, because of their central position in innovation networks, promote the transfer of knowledge to industry; and 3) government-funded research thus indirectly contributes to building the tools for commercialisation and innovation.

Economics of innovation: open innovation, innovation networks and collaboration

Creating digital opportunities (Partnership led by Prof David A. Wolfe, University of Toronto)

[SSHRC – 2014-2019]

The research in this project focused on the adoption of advanced technologies, many of which are derived from information and communication technologies (ICT). The study first explored the changing position of researchers and companies within the university-industry collaboration network in the field of computer hardware. The identification of strengths and weaknesses in design and innovation led to suggestions for improvements in practice and policy. In collaboration with Innovation, Science and Economic Development Canada (ISDE - formerly Industry Canada), the project used data available at Statistics Canada to study: 1) the extent of advanced technology adoption in Canada; 2) the mix of different technologies adopted by firms; and 3) the impact of advanced technology adoption on the innovation performance of these firms. Among the factors studied, collaboration with universities, government laboratories, and other firms, outsourcing, concurrent engineering, multi-functional team building, and product data management were found to have an impact on innovation performance.

Program and Partnership for Open Innovation in New Technologies (POINT)

[FQRSC – 2013-2017 ; SSHRC – 2012-2015]

POINT aimed to broaden and generate new knowledge on open innovation (OI) practices in four sectors of strategic importance to Quebec and Canada: new science-based technologies –nanotechnology, life sciences and biotechnology– and more mature sectors such as aerospace and information and communication technologies (ICT), from semiconductors to software. The first research phase co-created a common analytical framework for open innovation practices with the partners. The second integrated the results of existing national innovation studies into an original study on best innovation practices, generated new indicators appropriate for OI and measured the scope, inherent risks and impact of open innovation. The third step characterised the structure of international co-publication networks of academic researchers, their links to international co-invention networks and their anchorage in regional industrial clusters. The results highlighted the impact of universities as agents of OI, and the importance of OI and open business models on business performance in Canada.

However, the POINT team found that public policies do not facilitate OI and that it would be relevant to develop interdisciplinary and inter-institutional grant programmes that help to decompartmentalise innovation and commercialisation, and reduce friction points between collaborators. Given the importance of knowledge recombination mentioned above, these findings represent a major insight that may have influenced the interdisciplinary spirit of the Innovation Superclusters. Each industrial sector has a unique set of characteristics that imply a different approach to IO, which is influenced by the nature of the innovation, the type or organisational structure, the regulatory framework and the level of technological readiness. The programme also highlighted the importance of flexible governance rules, intellectual property management adapted to IO, and interaction between technological and social innovation.

Open innovation in the aerospace industry

[CRIAQ, Quebec ministry of Education Leisure and Sports, SSHRC]

Open innovation is not a new concept, but a paradigm that companies will increasingly face. This project first developed a reference model for integrating open innovation concepts into product development in the aerospace industry. The research then assessed the extent of open innovation practices in the aerospace industry in Quebec and Canada, compared to those in Brazil. Among other things, the project examined the different internal and external alternative sources for idea generation and the types of partners contributing to product development. The project concluded that the Quebec aerospace industry is open within a box [A17].

Impact of publicly funded research, regional systems of innovation, innovation networks and knowledge flows on high technology innovation

[FRQSC – 2011-2013]

This research programme began to build bridges between the work of Dr. Beaudry on the economics of innovation and science and technology assessment. The programme on the theme of innovation in high-

tech fields was structured around four research axes: knowledge flows, investment and funded research, innovation networks, regional innovation systems. Using a systems approach, the work: 1) analysed knowledge flows due to collaboration, especially in the case of open innovation; 2) measured the influence of innovation networks on the innovation performance and innovation capacity of firms and public institutions; 3) determined the role of different local actors in regional innovation systems; and 4) measured the impact of publicly funded research on innovation systems. The research was applied to four areas: new science-based technologies, biotechnology and nanotechnology, as well as more mature sectors such as information and communication technologies (ICT) and aerospace (including the space sector). The study identified the distinctions and similarities in knowledge creation between these different technologies and their impact on innovation production in order to establish the theoretical framework that led to the creation of POINT (see above).

Alliances, Partnerships and Canadian biotechnology and nanotechnology networks

[Statistics Canada – 2006-2008 ; SSHRC – 2009-2012]

The main aims of these projects were to: 1) characterise collaboration, measure its impact and identify the factors that influence its success; 2) identify the reasons for collaborating and the perceived risks of doing so; and 3) understand the structure of collaboration and innovation networks, and their anchor points within industry clusters. Analysis of Statistics Canada surveys on the use and development of biotechnology allowed for an assessment of the reasons why firms collaborate, as well as the influence of this cooperation on their survival, growth and performance. The results highlighted the characteristics of innovative organisations that participate in alliances. A novel questionnaire on the reasons and perceptions of risks behind the decision not to collaborate at different stages of a product or process development identified the main reasons why SMEs choose not to enter into collaborative arrangements or participate in innovation networks. The perception of the expected benefits of alliances and the risks of not achieving the organisation's objectives were also compared with management practices that reduce the relational risks of collaboration and promote its success. The work also described the structure of innovation networks and their anchor points within regional innovation systems. Several other key findings were added to this, including that belonging to an innovation network, and being located in a particular cluster or near an anchor tenant, influence the propensity to participate in research alliances and partnerships and their success. This work has thus established the links between geographical proximity (see the section on industrial clusters below) and the social and cognitive proximities that form an important part of the foundations of the Pre Beaudry research programme.

Industrial clusters

Techno-economic and dynamic factors of high technology firms

[FQRNT, Fondation de Polytechnique – 2003-2006]

This project sought to identify the drivers of innovation and growth, such as R&D and investment in new products, of high-tech firms located in specific industry clusters, such as telecommunications, aerospace and biotechnology, three sectors of considerable importance in Quebec. Through theoretical and empirical analyses of the dynamic properties of firms in each sector, this project examined the factors that promote innovation, increased growth and international competitiveness of firms. These analyses depend on a good understanding of the technologies involved, as well as the core competencies of firms and the innovation factors at work in successful international firms, including the dynamics of competition in these high-tech sectors. This project transposed to Canada the models of the impact of industrial clusters on firm performance developed by Dr. Beaudry during her post-doctoral research in the UK.

Clustering and innovative activities

[Leverhulme Trust, European Union – 1999-2000]

Using econometric analysis of the propensity to patent of UK and Italian firms from a wide range of industrial sectors, this study has shown that industry clusters influence the performance and international competitiveness of different industrial sectors in each country differently. In particular, the research found that firms in large clusters are more likely to innovate than firms in isolation. The novelty of this research lies in the introduction of a distinction between cluster effects due to innovative firms and those of non-innovative firms. It showed that innovative firms in the same industry sector have a positive effect on a firm's innovative capacity, while non-innovative firms have a congestion effect.

Growth in industrial clusters

[Stanford University – 1999-2000]

This project examined how firm growth is influenced by the strength of the industry cluster in which a firm is located, using firm-level growth models for 56 industries in the UK. In about half of these industries, there

is a positive and statistically significant association between firm growth and employment in the firm's own sector. Significant associations between firm growth and employment in other sectors are less common, but where they occur they are generally negative. The study found that cluster effects are strongest in manufacturing, manufacturing-related or high-tech industries, or in key elements of infrastructure, but weakest in the services sector.

Entry, growth and patenting in UK aerospace clusters

[European Union – 1997-1999]

This study of eight sub-sectors of the UK aerospace industry examined the influence of agglomeration effects on the performance of firms within these industrial clusters. Three econometric models were constructed to measure: the lifetime growth of the firm, its propensity to patent its innovations, and its power to attract new firms. In all these analyses, the importance of the industrial sector was measured by the number of employees of a given firm and that of its cluster. In a more constrained context but using the same methodology, this study confirmed the results obtained at the national level (see above). In addition, this research identified the avionics sub-sector as the main entry attractor, where firms benefit from faster growth when located in a cluster without suffering from the traditional congestion effects associated with such agglomerations. This sector also appears to be the most innovative. As a result of this research, British Aerospace asked researcher Beaudry to examine its difficulty in attracting a skilled workforce to Lancashire, in the North West of England.

Various projects on the theme of innovation

Evolution of systems of innovation in leading and catching up economies

[SSHRC, Polytechnique – 2006-2010]

This project was Dr. Beaudry's contribution to the *Managing Innovation in the New Economy* research programme. Firstly, the project addressed the maturity of the high-tech (HT) sector to determine whether it was undergoing a phase of renewal and transformation due to the trajectory of the electronics sector. Secondly, it explored the countries where these sectors are located, assessing whether the strategic innovation environment for low and medium tech (LMT) in technologically developed countries is as advanced as in their Hi-Tech sector. This level was also found to be similar in the catching-up countries, but to a lesser extent than in the more technologically advanced countries. Third, the project assessed the feasibility of a phylogenetic tree approach to classify firms within innovation systems (HT and LMT sectors, developed and catching-up countries) and whether the inference of best practice evolution within these systems is feasible. The results confirmed the hypothesis that the HT and LMT sectors are going through a phase of renewal and sectoral transformation. Furthermore, as HT and LMT are complementary sectors, we argued that economies that excel in one sector should also excel in the other. This research has shown that, while this is true in catching-up countries, it is not the case in more advanced countries.

Competition and policy in the world satellite industry (doctoral thesis)

[Rhodes Trust, FCAR, SSHRC – 1995-98]

Dr. Beaudry's doctoral thesis explored technological changes in the civil telecommunications satellite manufacturing industry and their effects on prices using hedonic regressions, and then studied price performance measures, productivity and related learning curves. This research finally led to the main factors affecting the industry's demand. Using principal component analysis, clustering analysis and multinomial logit regression models, it identified the decision process leading to the use of satellites for international and domestic telecommunications by specific countries. The thesis also showed that the transaction mechanism between satellite suppliers and buyers is still based on the military cost-plus model.

Competition and bidding for satellite contracts (master's thesis)

[Rhodes Trust – 1992-1994]

In her Master's thesis, Dr. Beaudry analysed in detail the characteristics of the civilian satellite telecommunications industry and the evolution of the global space market in relation to the telecommunications sector over three generations of satellites. She described and discussed the bidding and evaluation procedures, including the characteristics of satellite contracts. She also explored the relevance of current auction and contract theories in this field. Finally, she analysed the bidding process for satellite contracts using a theoretical model simplified by eliminating performance payments and quality bids to focus on time penalty clauses.

APPENDIX D – CAREER AND RESEARCH DELAYS

Since the end of her doctorate in May 1999, Dr. Beaudry has given birth to four children and benefited from three maternity leaves following the birth of three sons and a daughter: June 13, 2000, November 15, 2001 and October 3, 2004 (twins). In addition, she had to be absent from work from June to October 2004 and take preventive leave during the twin pregnancy, due to the high risks of premature birth. Despite these immense work-family reconciliation challenges, she has succeeded in demonstrating her scientific leadership and obtained the undeniable recognition of her peers.

During lockdown due to the COVID-19 pandemic, from March 13, 2020 to mid-June, she somehow homeschooled two of her children (the now 17-year-old twins) who were in secondary 3 at the School of International Education and whose classes were completely suspended. Her two oldest boys, being in CEGEP, were fortunately more independent. She estimates that she spent the equivalent of a day a week helping her children with their studies and organizing them.

In addition, as Vice-President of the Association of Professors of the École Polytechnique de Montréal (APEP - the union of professors and lecturers), she immediately offered her help to Polytechnique and participated in emergency committees to set up distance education, which took another considerable part of his time. Many letters of agreement also had to be drafted and negotiated with the employer. She estimates that she has dedicated the equivalent of one day per week to these extraordinary union tasks from March 16 to December 23, 2020.

APPENDIX E – TRAINING

2017/06-28-07/14	Summer School on Management of Creativity in an Innovation Society, HÉC-Mosaic Montreal-Barcelona
2016/04/7-8	Fédération québécoise des professeures et professeurs d'université (FQPPU) – Training on psychological harassment by Me Marie-France Chabot

APPENDIX F – ADMINISTRATIVE RESPONSIBILITIES

Polytechnique Montreal (member of the committee unless otherwise specified)

2019/06-2019/11	Selection Committee of a professor in Change management
2019/05-2019/06	Selection Committee of a Tier II Canada Research Chair in electrical engineering
2018/08-	Permanent committee on sexual violence
2016/11-2016/12	Consultation Committee for the selection of the Director of Research of Polytechnique Montreal
2013/06-2017/05	Insurance Committee
2012/03-2012/04	Selection Committee of the Teaching Support Fund
2011/06-2013/05	Promotion Committee
2011/06-2012/05	Tenure Committee (substitute)
2011/10-2011/11	Selection Committee of a lecturer (<i>chargé de cours</i>) in Technology management
2009/06-2009/12	Departmental Promotion Committee (Mathematics & Industrial Engineering)
2009/05-2010/10	Polytechnique's Strategic Research Plan Committee
2009/04-2009/06	Selection Committee of a professor in International affairs
2008/02-2009/06	Research Committee (substitute)
2007/03-2007/10	Marianne-Mareschal Chair (co-chair)
2006-2007	Board of governors, Coop-Poly (Faculty representative)
2006-2008	Departmental Graduate Studies Committee
2005-2008	Departmental Working Committee on the evolution of graduate studies

2006/10-2007/03	Nomination Committee for the Director General of Polytechnique Montreal
2004-2007	Departmental Program Committee
2004/01-2004/05	Departmental Complementary Studies Program Committee
2003/09-2004/04	Social Science and Humanities Unit (coordinator)
2003/09-2004/04	Departmental Executive Committee
2003/09-2004/04	Departmental Council
2003/09-2004/04	Board of Studies Sub-Committee
2003/04-2004/02	Selection Committee of a professor in Project Management
2003/04-2003/11	Selection Committee of a professor in Innovation Economics
2003/04-2003/11	Selection Committee of a Tier II Canada Research Chair in Project Management

Manchester Business School, UK

2001/01-2001/11	Library Committee
2001/01-2001/11	Convenor for the Manchester Federal School of Business and Management Economics of Business and Industry seminars