

LUC BISSONNETTE

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SUMMARY

Assistant professor of economics at Laval University who also acquired experience in the private sector working as a data scientist for Gartner. Specialized in data analytics and econometrics, with focus on labour economics and economics of aging. Versatile and accustomed to work both in an Agile framework and in long term-research projects.

EXPERIENCE

Since October 2018	<i>Assistant professor</i> Dépt. d'économie, Université Laval, Québec City, QC, Canada.
Mar. 2017-Sept. 2018	<i>Principal quantitative consultant (Senior director)</i> Gartner, Québec City, QC, Canada.
Oct. 2014 – Mar. 2017	<i>Assistant professor (adjunct)</i> Dépt. d'économie, Université Laval, Québec City, QC, Canada.

GENERAL INFORMATION

Research Interests	Labour economics, Economics of aging, Microeconometrics, Microsimulations and numerical methods, Behavioural economics.
Other affiliations	<i>Centre de recherche sur les risques, les enjeux économiques et les politiques publiques (CRREP)</i> , member. <i>Disability, employment, and Public Policy Initiative (DEPPI)</i> , co-researcher.
Languages	French (first language), English (fluent).

EDUCATION

2007 – 2012	<i>PhD in Economics</i> CentER, Tilburg University, Tilburg, The Netherlands. Advisor : Prof. dr. Arthur van Soest. Thesis: <i>Essays on Subjective Expectations and Stated-Preferences</i>
2010	<i>Visiting PhD Student (January – April)</i> RAND Corporation, Santa Monica, CA, USA.
2005 – 2006	<i>M.A. in Economics</i> Université Laval, Québec City, QC, Canada.
2002 – 2005	<i>B.A. in Economics</i> Université Laval, Québec City, QC, Canada.
2000 – 2001	<i>Certificate in Theatre</i> Université Laval, Québec City, QC, Canada.

PUBLICATIONS

- 2020 *Understanding Joint Retirement*, with Pierre-Carl Michaud and Arthur van Soest. *Journal of Economic Behavior and Organization*, Volume 173, pp. 386-401
- 2018 *Eliciting Subjective Survival Curves: Lessons from Partial Identification*, with Jochem de Bresser, *Journal of Business and Economic Statistics*, Volume 36(3), pp. 505-515.
- 2017 *Individual Survival Curves Comparing Subjective and Observed Mortality Risks*, with Michael Hurd et Pierre-Carl Michaud, *Health Economics*, Volume 26(12) pp. e285–e303 .
- 2016 *Projecting the Impact of Population Aging on the Québec Labour Market*, with David Boisclair, François Laliberté-Auger, Steeve Marchand, Pierre-Carl Michaud and Carole Vincent, *Canadian Public Policy/Analyse de politiques*, Volume 42(4)
- 2016 *Statistical power of within and between-subjects designs in economic experiments*, with Charles Bellemare and Sabine Kröger, *Journal of the Economic Science Association*, Volume 2 (2).
- 2015 *Heterogeneity in Consumers' Income and Pension Expectations*, with Arthur van Soest, *Journal of Pension Economics and Finance*, Volume 14(4) pp. 439–465.
- 2012 *Flexible Approximation of Subjective Expectations Using Probability Questions*, with Charles Bellemare and Sabine Kröger, *Journal of Business and Economic Statistics*, Volume 30(1), pp. 125–131.
- 2012 *The Future of Retirement and the Pension System: How the Public's Expectations Vary over Time and across Socio-Economic Groups*, with Arthur van Soest, *IZA Journal of European Labour Study*, Volume 1(1) no 2.
- 2010 *Bounding Preference Parameters Under Different Assumptions About Beliefs: A Partial Identification Approach*, with Charles Bellemare and Sabine Kröger, *Experimental Economics*, Volume 13(3), pp. 334–345.

REFEREEING

- In English Journal of Econometrics, Journal of Applied Econometrics, Health Economics, International Economic Review, Experimental Economics, Journal of Economics Behavior and Organization, Demography, Journal of the Economics of Ageing, Research in Aging, Empirical Economics, Canadian Public Policy/Analyse de politiques, European Journal of Population.
- In French L'Actualité économique.

TEACHING EXPERIENCE

Undergraduate	Labour Economics, Introduction to Scientific Programming for Economist, Health Economics (online), Applied Econometrics.
Graduate	Econometrics, Economics of Demographic Change, Public Policy Evaluation.

GRADUATE STUDENTS

Current	Cheikh Ahmadou Mbacké Ndiaye (phd, advisor), Blaise Fortuné Botton (phd, co-advisor), Patricia Côté (master, advisor), Charles Roy (master, advisor), Marie-Pierre Rancourt (master, co-advisor)
2020	Alejandro Iriart, master, advisor with Guy Lacroix <i>Mesures d'insertion sociale destinées aux détenus québécois et récidive criminelle: Une approche par l'apprentissage automatique</i>
2019	Sarah-Jane Marois, master, advisor, <i>Impact de l'intelligence artificielle sur l'économie (essai)</i>
2019	Jasmine Pageau, master, co-advisor with Guy Lacroix, <i>Le choix occupationnel et l'espérance de vie: Une analyse par l'approche des données massives.</i>
2018	Marie-Pier Bernard, master, co-advisor with Guy Lacroix, <i>Les entrées et sorties de la pauvreté au Québec et en Ontario : Une analyse comparative.</i>
2017	Laure Sebrier, master, advisor with Pierre-Carl Michaud (HEC Montréal), <i>Projections des taux de faible revenu chez les aînés au Québec à l'horizon 2050.</i>
2016	Nicolas Corneau-Tremblay, master, co-advisor with Guy Lacroix, <i>L'effet des heures supplémentaires sur les conditions sanitaires des nouveau-nés en unité de néonatalogie : une analyse économétrique.</i>
2015	Alexandre Parent, master, co-advisor with avec Jean-Yves Duclos, <i>Les coûts sociaux liés à la pauvreté.</i>

COMPUTER SKILLS

Research	Python, R, SQL, Stata, ElasticSearch, Fortran (MPI, OpenMP, NAG library), C, C++, Ox.
Teaching	R, Python, Stata, Excel, SPSS.

GRANTS AND RESEARCH CONTRACTS (AMOUNTS IN CANADIAN DOLLARS)

2020-2023	FRQSC - Research Support for New Academics <i>Compétences émergentes et transformation du marché du travail: Que nous apprennent les offres d'emploi ?</i> , principal investigator (55,743\$).
2020-2022	Ministère de l'Économie et de l'Innovation - Appel de projets en innovation sociales utilisant l'intelligence artificielle - <i>Prédiction de la récidive et détermination des besoins en intervention des contrevenants adultes fondées sur l'intelligence artificielle</i> . as co-candidate in a team coordinated by Guy Lacroix (144,215\$).
2020-2021	Ministère de l'Éducation et de l'Enseignement supérieur - <i>Obtention de données relatives au marché du travail et embauche de ressources nécessaires afin de documenter les compétences émergentes</i> , principal investigator (200,000\$).
2016-2021	CIHR PJT Project Grant Competition - <i>Connecting Emergency Departments with Community services to prevent mobility losses in pre-frail & frail Seniors (CEDeComS)</i> , as one of the many principal investigators on a team coordinated by Dr. Marcel Émond (1,643,676\$)
2015-2019	FRQSC Actions concertées - <i>Mobilité et inégalités : le rôle des changements économiques et sociaux et des politiques publiques</i> (2016-PU-195360), team of 6 researchers coordinated by Guy Lacroix (150,000\$).

OTHER ACADEMIC WORK EXPERIENCE

2012 – 2014	Post doctoral fellow / Research associate, Dépt. d'économique, Université Laval, Québec City, QC, Canada.
2011 – 2012	Research associate, <i>Inter-University Center on Risk, Economic Policies and Employment (CIRPEE)</i> , Université Laval, Québec City, QC, Canada.
2007 – 2008	Research assistant, <i>Network for Studies on Pensions, Aging and Retirement (NETSPAR)</i> , Tilburg, the Netherlands.
2006 – 2007	Researcher, <i>Center for Data and Analysis in Transportation (CDAT)</i> , Québec City, QC, Canada.
2005 – 2006	Research assistant, <i>Inter-University Center on Risk, Economic Policies and Employment (CIRPEE)</i> , Québec City, QC, Canada.

PRESENTATIONS

- Nov. 8, 2019 *Reflexion sur la main-d'oeuvre du futur*, Invited speaker for the Ministry of Education and Higher Education, Québec City, QC, Canada.
- June 5, 2019 expert panel for the Association canadienne d'éducation aux adultes des universités de langue française (ACDEAULF), Québec City, QB, Canada.
- June 1, 2019 *Occupational choice and life expectancy : An analysis using conditional inference trees*, Canadian Economics Association, Banff, AB, Canada.
- May 9, 2019 *Reflexion sur la main-d'oeuvre du futur*, Dîner conférence de l'Association des économistes du Québec, Québec City, QC, Canada.
- Jan. 11, 2019 *Occupational choice and life expectancy : An analysis using conditional inference trees*, Journée du CRREP/CDER, Québec City, QC, Canada.
- May 9, 2016 *Changements démographiques au Québec: vers une décroissance de l'emploi d'ici 2050 ?*, 84th Acfas congress, Montréal, QC, Canada.
- May 30, 2015 *Understanding Joint Retirement*, Canadian Economics Association, Toronto, ON, Canada.
- Sep. 28, 2013 *A Retirement Model for Couples in Canada*, Journée du CIRPÉE, Lac Beauport, QC, Canada.
- Apr. 26, 2012 *Eliciting Subjective Survival Curves: Lessons from Partial Identification*, Séminaire du jeudi midi, Université Laval, Québec City, QC, Canada.
- Oct. 8, 2011 *Using Stated-Preference Data to Estimate a Structural Model of Retirement and Savings*, Journée du CIRPÉE, Bécancourt, QC, Canada.
- June 16, 2011 *Individual Survival Curves Combining Subjective and Actual Mortality Risks*, International Pension Workshop, Turin, Italy.
- June 7, 2011 *Using Stated-Preference Data to Estimate a Structural Model of Retirement and Savings*, Health and Labor Seminar Series, Tilburg, The Netherlands.
- Oct. 22, 2010 *Individual Survival Curves Combining Subjective and Actual Mortality Risks*, Graduate Students Society Seminar Series, Tilburg, The Netherlands.
- June 15, 2010 *Individual Survival Curves Combining Subjective and Actual Mortality Risks*, Health and Labor Seminar Series, Tilburg, The Netherlands.
- June 10, 2010 *Retirement Expectations in the Netherlands*, International Pension Workshop, Zurich, Switzerland.
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PRESENTATIONS (CONTINUED)

- May 30, 2010 *Individual Survival Curves Combining Subjective and Actual Mortality Risks*, Canadian Economics Association, Québec City, QC, Canada.
- Nov. 26, 2009 *The Economic Crisis, Financial Planning, and Retirement Expectations*, Netspar Seminar, Tilburg, The Netherlands.
- Feb. 16, 2007 *Mesurer la confiance en laboratoire: Estimation de règles de décisions à l'aide d'anticipations subjectives*, Journée GREEN-CIRPEE, Québec City, QC, Canada.
- Feb. 8, 2007 *Structural Estimation of Decision Rules using Flexible Approximations of Subjective Expectations*, Séminaire du jeudi midi, Université Laval, Québec City, QC, Canada.