

Greg Tkacz: Curriculum Vitae

Department of Economics, St. Francis Xavier University
P.O. Box 5000, Antigonish, Nova Scotia, Canada, B2G 2W5
Phone: (902) 867-4846 Fax: (902) 867-3610
E-Mail: gktacz@stfx.ca Home Page: <http://www.tkacz.ca>

Citizenship

- Canadian

Languages

- English and French

Education

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| McGill University (Montreal, Quebec) PH.D. IN ECONOMICS AND FELLOW OF THE MCGILL INSTITUTE FOR THE STUDY OF CANADA | 1995 – 1999 |
| McGill University (Montreal, Quebec) M.A. IN ECONOMICS AND FELLOW OF THE MCGILL INSTITUTE FOR THE STUDY OF CANADA | 1994 – 1995 |
| Concordia University (Montreal, Quebec) B.A. (HONOURS) IN ECONOMICS AND FELLOW OF THE INSTITUTE FOR CO-OPERATIVE EDUCATION | 1990 – 1994 |

Research Funding and Academic Awards

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| Payments Canada (formerly Canadian Payments Association) Research Contract (\$21,000); Co-Investigator with John W. Galbraith Project: <i>Index of Economic Activity</i> | 2016 – 2017 |
| Social Sciences and Humanities Research Council of Canada (SSHRC) Insight Development Grant (\$17,824); Principal Investigator Project: <i>How Should Monetary Policy Respond to Financial Stress?</i> Ranked 4 th out of 61 applications by its committee | 2011 – 2014 |
| Social Sciences and Humanities Research Council of Canada (SSHRC) Standard Research Grant (\$26,740); Principal Investigator Project: <i>Short-run Macroeconomic Forecasting</i> | 2011 – 2013 |
| Fonds pour la formation des chercheurs et l'aide à la recherche (FCAR), Government of Quebec Doctoral Fellowship (\$39,000; FCAR was the Quebec equivalent of a Tri-Council agency) Ranked 4 th out of 24 applications by its committee | 1995 – 1998 |
| McGill Institute for the Study of Canada Graduate Fellowship (\$36,000) | 1994 – 1997 |
| Fonds pour la formation des chercheurs et l'aide à la recherche (FCAR), Government of Quebec Master's Fellowship (\$11,000) | 1994 – 1995 |
| J. Meloche Inc. Undergraduate Scholarship (\$2,000) | 1992 – 1993 |
| John W. O'Brien Economics Honours Prize Undergraduate Scholarship (\$850) | 1992 |

Academic Experience (1998 – Present)

St. Francis Xavier University (Antigonish, Nova Scotia)

PROFESSOR, Department of Economics

2015 –

CHAIR, Department of Economics

2013 – 2017

ASSOCIATE PROFESSOR, Department of Economics

2010 – 2015

- BSAD 447: Selected Topic: Financial Economics (Winter 2013)
- ECON 102: Introduction to Macroeconomics (eleven times)
- ECON 202: Intermediate Macroeconomics I (Fall 2010, Fall 2011)
- ECON 241: Canadian Economic Policy & Problems (Fall 2010)
- ECON 271: Quantitative Methods (Fall 2014, Fall 2015)
- ECON 291: Economics of Leisure, Recreation & Sports (Fall 2011, Fall 2013, Winter 2016)
- ECON 302: Intermediate Macroeconomics II (Winter 2012, Winter 2013)
- ECON 335: Money & Financial Markets I (Fall 2010, Fall 2012, Fall 2014, Fall 2015)
- ECON 336: Money & Financial Markets II (Winter 2011, Winter 2016)
- ECON 371: Econometrics I (Fall 2012, Fall 2013)
- ECON 372: Econometrics II (Winter 2012, Winter 2013)
- ECON 402: Advanced Macroeconomics (Winter 2013)
- ECON 492: Selected Topic: Monetary Policy (Fall 2016)
- ECON 493: Seminar (Fall 2013)

CIRANO: Centre Interuniversitaire en Analyse des Organisations (Montreal, Quebec)

RESEARCH FELLOW

2011 –

University of Ottawa (Ottawa, Ontario)

LECTURER, Department of Economics

2004 – 2008

- ECO 3151: Introduction to Econometrics (Summer 2007)
- ECO 3152: Macroeconomic Theory III (Fall 2004)
- ECO 4115: Monetary Theory (Winter 2008)
- ECO 4186: Applied Econometrics (Summer 2005, Winter 2007)
- ECO 6904: Selected Topics: Time Series (Winter 2007; graduate course)

Carleton University (Ottawa, Ontario)

LECTURER, Dept of Economics and Norman Paterson School of International Affairs

2001 – 2007

- ECON 2102: Intermediate Macroeconomic Theory I (Fall 2002, Fall 2004)
- ECON 2200: Statistical Methods (Fall 2001, Winter 2005)
- ECON 2400: Mathematical Methods of Economics (Fall 2005, Fall 2006)
- ECON 3607: Monetary & Financial Institutions (Winter 2003)
- ECON 4002: Statistical Analysis in Economics (Winter 2006, Winter 2007)
- ECON 421: Macroeconomic Theory (Winter 2001)
- INAF 539: International Finance: Theory & Policy (Winter 2002; graduate course)

McGill University (Montreal, Quebec)

LECTURER, Department of Economics

1998

- 154-337: Introduction to Econometrics (Winter 1998)

Professional Experience (1990 – 2010)

Bank of Canada (Ottawa, Ontario)

MANAGER, Departments of Monetary & Financial Analysis and Canadian Economic Analysis 2001 – 2010

- Managed groups of up to nine Ph.D. economists, with annual budget of almost \$1 million.
- Created division and department workplans.
- Evaluated staff, ensured deadlines were respected, and presented work to Bank's Governing Council.
- Interviewed hundreds of candidates at Bachelor's, Master's and Ph.D. levels.
- During the financial and economic crisis between 2008 and 2010, was head of a unit that provided direct independent policy advice to Governor Mark Carney eight times a year through a policy product dubbed "The Black Book".
- Pursued my own research agenda on the development of forecasting tools and linkages between financial markets and the economy.

Bank of Canada (Ottawa, Ontario)

ECONOMIST & SENIOR ANALYST, Department of Monetary & Financial Analysis 1996 – 2001

- Produced several research papers on topics such as forecasting and interest rate modeling, as well as policy notes for senior management.

Natural Resources Canada (Ottawa, Ontario)

PROJECT ANALYST, Economic and Financial Analysis Branch 1994

- Worked on the cost-benefit evaluation of several mega-projects requiring millions of dollars in government investments, including: (1) The Hibernia offshore oil project; (2) the construction of new nuclear reactors at Chalk River for the production of medical isotopes; and (3) the construction of ethanol plants in Ontario.

External Affairs and International Trade Canada (Ottawa, Ontario)

JUNIOR ECONOMIST, International Economic Relations Division 1993

- Prepared briefing materials for department staff attending the G-7 summit in Tokyo, and did background research on foreign affairs positions of top Progressive Conservative leadership candidates (Kim Campbell, Jean Charest and Jim Edwards).

Bank of Canada (Ottawa, Ontario)

RESEARCH ASSISTANT, Department of Monetary & Financial Analysis 1992 & 1994

Employment and Immigration Canada (Hull, Quebec)

JUNIOR POLICY ANALYST, Strategic Policy and Planning Branch 1991

Customs and Excise Canada (Dorval, Quebec)

CUSTOMS OFFICER, Dorval International Airport 1990

Research Papers

47. J. W. Galbraith and G. Tkacz (2017) Nowcasting with Payments System Data. *International Journal of Forecasting*, forthcoming.
46. J. W. Galbraith and G. Tkacz (2015) Nowcasting GDP with Electronic Payments Data, *European Central Bank Statistics Paper Series No. 10*, July 2015 (20 pages)
45. G. Tkacz (2013) Predicting Recessions in Real-Time: Mining Google Trends and Electronic Payments Data for Clues. *C. D. Howe Institute Commentary No. 387*, 21 pages.
44. O. A. Murphy, P. Wang, S. Wang and G. Tkacz (2013) An Economic Efficiency Study on Different Regions of Ghana via Slack-Based Data Envelopment Analysis (DEA) and Regression Analysis. *Applied Economics* 45(34), 4773-4780.
43. J. W. Galbraith and G. Tkacz (2013) Analyzing Economic Effects of September 11 and Other Extreme Events using Debit and Payments System Data. *Canadian Public Policy* 39(1), 119-134.
42. J. W. Galbraith and G. Tkacz (2013) Nowcasting GDP: Electronic Payments, Data Vintages and the Timing of Data Releases. CIRANO Working Paper 2013s-25.
41. F. Li and G. Tkacz (2011) A Consistent Test for Multivariate Conditional Distributions. *Econometric Reviews* 30(3), 251-273.
40. J. W. Galbraith and G. Tkacz (2011) Analyzing Economic Effects of Extreme Events using Debit and Payments System Data. CIRANO Working Paper 2011s-70.
39. M.-A. Gosselin and G. Tkacz (2010) Using Dynamic Factor Models to Forecast Canadian Inflation: The Role of U.S. Variables. *Applied Economics Letters* 17(1), 15-18
38. G. Tkacz (2010) An Uncertain Past: Data Revisions and Monetary Policy in Canada. *Bank of Canada Review*, Spring, 41-51.
37. G. Tkacz (2010) Guest Editor's Introduction: Uncertainty in Monetary Policy-Making. *Bank of Canada Review*, Spring, 1
36. M. Misina and G. Tkacz (2009) Credit, Asset Prices, and Financial Stress. *International Journal of Central Banking* 5(4), 95-122
35. F. Li and G. Tkacz (2009) A Consistent Test for Multivariate Conditional Distributions, Bank of Canada Working Paper 2009-34 (30 pages)
34. J. W. Galbraith and G. Tkacz (2009) A Note on Monitoring Daily Economic Activity via Electronic Transaction Data. CIRANO Working Paper 2009s-23.
33. G. Tkacz and C. Wilkins (2008) Linear and Threshold Forecasts of Output and Inflation Using Stock and Housing Prices. *Journal of Forecasting* 27(2), 131-151
32. M. Misina and G. Tkacz (2008) Credit, Asset Prices, and Financial Stress in Canada, Bank of Canada Working Paper 2008-10 (29 pages)
31. M. Misina, P. St-Amant and G. Tkacz (2008) Credit, Asset Prices, and Financial Stress in Canada. *Bank of Canada Financial System Review*, December, pp. 29-33
30. J. W. Galbraith and G. Tkacz (2007) Electronic Transactions as High-Frequency Indicators of Economic Activity, Bank of Canada Working Paper 2007-58 (23 pages)
29. G. Tkacz (2007) Gold Prices and Inflation, Bank of Canada WP 2007-35 (26 pages)
28. J. W. Galbraith and G. Tkacz (2007) How Far Can Forecasting Models Forecast? Forecast Content Horizons for Some Important Macroeconomic Variables, Bank of Canada Working Paper 2007-1 (41 pages)
27. J. W. Galbraith and G. Tkacz (2007) Forecast Content and Content Horizons for Some Important Macroeconomic Time Series. *Canadian Journal of Economics* 40(3), 935-953
26. F. Li, F. Pelgrin and G. Tkacz (2007) Forecasting Inflation from the Term Structure: A Comparison of Alternative Specifications, *Swiss National Centre of Competence in Research: Financial Valuation and Risk Management*, WP No. 444. (20 pages)
25. F. Li and G. Tkacz (2006) A Consistent Bootstrap Test for Conditional Density Functions with Time-Series Data. *Journal of Econometrics* 133(2), 863-886

24. G. Tkacz and C. Wilkins (2006) Linear and Threshold Forecasts of Output and Inflation with Stock and Housing Prices, Bank of Canada Working Paper 2006-25 (30 pages)
23. J. Day and G. Tkacz (2005) Developments in the Canadian Residential Mortgage Market: New Technology, Competition and Strategies. *Bank of Canada Financial System Review*, June, pp. 26-29.
22. P. St-Amant, G. Tkacz, A. Guérard-Langlois and L. Morel (2005) Quantity, Quality and Relevance: Central Bank Research, 1990-2003, Bank of Canada Working Paper 2005-37 (68 pages)
21. G. Tkacz (2005) The Yield Spread as an Indicator of Stagnation. *Medium for Econometric Applications* 13(3), 13-15
20. F. Li and G. Tkacz (2004) Combining Forecasts with Nonparametric Kernel Regressions. *Studies in Nonlinear Dynamics and Econometrics* 8(4), Article 2
19. J.-P. Lam and G. Tkacz (2004) Estimating Policy-Neutral Interest Rates for Canada Using a Dynamic Stochastic General Equilibrium Framework. *Swiss Journal of Economics and Statistics* 140(1), 89-126
18. J.-P. Lam and G. Tkacz (2004) Estimating Policy-Neutral Interest Rates for Canada Using a Dynamic Stochastic General Equilibrium Framework, Bank of Canada Working Paper 2004-9 (39 pages)
17. G. Tkacz (2004) Inflation Changes, Yield Spreads, and Threshold Effects *International Review of Economics and Finance* 13(2), 187-199
16. G. Tkacz (2002) Inflation Changes, Yield Spreads and Threshold Effects, Bank of Canada Working Paper 2002-40 (20 pages)
15. G. Tkacz (2001) Endogenous Thresholds and Tests for Asymmetry in U.S. Prime Rate Movements. *Economics Letters* 73(2), 207-211
14. G. Tkacz (2001) Estimating the Fractional Order of Integration of Interest Rates Using a Wavelet OLS Estimator. *Studies in Nonlinear Dynamics and Econometrics* 5(1), 19-32
13. J. Atta-Mensah and G. Tkacz (2001) Predicting Recessions and Booms Using Financial Variables. *Canadian Business Economics* 8(3), 30-36.
12. G. Tkacz (2001) Neural Network Forecasting of Canadian GDP Growth. *International Journal of Forecasting* 17(1), 57-69.
11. F. Li and G. Tkacz (2001) A Consistent Bootstrap Test for Conditional Density Functions with Time-dependent Data, Bank of Canada Working Paper 2001-21 (38 pages)
10. M.-A. Gosselin and G. Tkacz (2001) Evaluating Factor Models: An Application to Forecasting Inflation in Canada, Bank of Canada Working Paper 2001-18 (26 pages)
9. F. Li and G. Tkacz (2001) Evaluating Linear and Non-linear Time-varying Forecast-combination Methods, Bank of Canada Working Paper 2001-12 (15 pages)
8. J. W. Galbraith and G. Tkacz (2000) Testing for Asymmetry in the Link Between the Yield Spread and Output in the G-7 Countries. *Journal of International Money and Finance* 19(5), 657-672.
7. G. Tkacz (2000) General Discussion. In K. Clinton and W. Engert (Editors) *Money, Monetary Policy and Transmission Mechanisms: Proceedings of a Conference Held at the Bank of Canada*, November 1999, pp. 190-191.
6. G. Tkacz (2000) Fractional Cointegration and the Demand for M1, Bank of Canada Working Paper 2000-13 (23 pages)
5. G. Tkacz (2000) Non-parametric and Neural Network Models of Inflation Changes, Bank of Canada Working Paper 2000-7 (18 pages)
4. G. Tkacz (2000) Estimating the Fractional Order of Integration of Interest Rates Using a Wavelet OLS Estimator, Bank of Canada Working Paper 2000-5 (22 pages)
3. G. Tkacz and S. Hu (1999) Forecasting GDP Growth Using Artificial Neural Networks, Bank of Canada Working Paper 99-3 (24 pages)
2. J. Atta-Mensah and G. Tkacz (1998) Predicting Canadian Recessions Using Financial Variables: A Probit Approach, Bank of Canada Working Paper 98-5 (27 pages)
1. B. Cozier and G. Tkacz (1994) The Term Structure and Real Activity in Canada, Bank of Canada Working Paper 94-3 (64 pages)

Research Dissemination: Presentations and Conference Participation

Presentations by Invitation

- Association des économistes québécois (ASDEQ): State-of-the-Art presentation delivered to corporate leaders on “Neural Networks in Economics” (Montreal 2002)
- Atlantic Association of Applied Economists (Halifax 2011, 2016)
- Bank of Canada – Presenter at the “Forecasting Short-Term Economic Developments and the Role of Econometric Models” conference (Ottawa 2007)
- Bank of Canada – Presenter at the “Nowcasting and Short-Term Forecasting” workshop (Ottawa 2011)
- Carleton University – Department of Economics (Ottawa 2004, 2006 & 2007)
- Dalhousie University – Department of Economics (Halifax 2011, 2014)
- Federal Reserve Bank of Philadelphia – Invited discussant at the “Real-Time Data Analysis and Methods in Economics” conference (Philadelphia 2007)
- Federal Reserve Bank of Philadelphia – Payment Cards Center (Philadelphia 2008)
- Mt. Allison University – Department of Economics (Sackville, NB 2011)
- Payments Canada (Ottawa, 2016)
- Queen’s University – Department of Economics (Kingston 2009)
- Rutgers University – Department of Economics (New Jersey 2005)
- Simon Fraser University – Department of Economics (Vancouver 2005)
- Statistics Canada (Ottawa, 2008)
- St. Francis Xavier University – Department of Economics (Antigonish 2009)
- Université du Québec – École nationale d’administration publique (Montreal 2003)
- University of Ottawa – Department of Economics (Ottawa 2000)
- University of Windsor – Department of Economics (Windsor 2002 & 2005)

Conference Presentations (* also served as a discussant)

- Canadian Economics Association (St. John’s* 1997, Toronto* 1999, Montreal* 2001, Ottawa* 2011, Calgary* 2012)
- CRDE conference on “Resampling Methods in Economics” (Montreal 2001)
- International Symposium on Forecasting (Boston 2012)
- Société canadienne de science économique (Montreal* 1997, Hull* 1999, Montreal* 2000, Quebec City* 2001, Aylmer* 2002, Charlevoix 2005, Quebec City 2007)
- Society for Nonlinear Dynamics and Econometrics (Atlanta 2000)

Conference Attendance

- American Economic Association (Chicago 1998, San Francisco 2009)
- Bank of Canada conference on “The Economic Impact of Digitalization” (Ottawa 2017)
- Canadian Economics Association (Ottawa 1993, Montreal 1995, Toronto 2015, Ottawa 2016)
- CIRANO Real-Time Data Workshop (Montreal 2005 & 2006)
- Society for Nonlinear Dynamics and Econometrics (New York 1999)

Research Impact

Impact in Academia: Citations and Other Metrics

- Number of Google Scholar citations: 973
- Google Scholar h-index: 16 (i.e. 16 of my papers have each been cited at least 16 times)
- Google Scholar i10-index: 23 (i.e. 23 of my papers have each been cited at least 10 times)
- RePEC World Ranking of Research Economists: Top 17%

Impact in Society: Media Stories Related to My Research

36. "Mining Google" *StFX Alumni News*, Fall 2013, p. 13.
35. Radio interview regarding Google paper with CKNW AM980, Vancouver, 9 October 2013.
34. "Nigerians Online: What our Google Says About Us" *Greenlight* (Nigeria), 13 September 2013, by Chuba Ezekwesili.
33. "Société quantifiée: la tentation d'une surveillance par le Big Data" *Radio Canada*, 12 September 2013, by Martin Lessard.
32. Radio interview regarding Google paper with 101.5 The Hawk, Port Hawkesbury (Canada), 11 September 2013.
31. "What Google Thinks About the Yukon Economy" *Yukon News* (Canada), 11 September 2013, by Keith Halliday.
30. "Lehetséges előre jelezni egy gazdasági válságot?" *Penzugyi Szemle* (Hungary), 9 September 2013.
29. "¿Google Puede Predecir una Recesión?" *CNN Expansión* (Mexico), 9 September 2013, by Gabriela Chávez.
28. "Could Google Be an Economic Magic 8-Ball?" *The Wall Street Journal* (USA), 5 September 2013, by Karen Johnson.
27. "Economics Turns to Google", *The Halifax Chronicle-Herald* (Canada), 5 September 2013, by Aaron Beswick.
26. "Predict Recessions Through Google: Professor" *Metro* (Canada), 5 September 2013.
25. "Google Searches Have Recession Clues" *Calgary Herald* (Canada), 5 September 2013.
24. "Mining Google Trends Could Help Predict Recessions, Economics Professor Dr. Greg Tkacz Says in Report." *StFX News*, 5 September, 2013
23. "Google Searches Could Predict Economic Slumps" *MSN.CA* (Canada), 4 September 2013.
22. "Analyzing Google Search Trends Could Predict Recession Faster: Study" *Canadian Business* (Canada), 4 September 2013.
21. "Google Trends Could Predict Recessions, C. D. Howe Institute Suggests" *Maclean's* (Canada), 4 September 2013.
20. "Analyzing Google Search Trends Could Predict Recession Faster: Study" *CTV News* (Canada), 4 September 2013.
19. "Can Google Help Flag an Approaching Recession?" *Business News Network* (Canada), 4 September 2013.
18. "Google Could Predict Recessions Faster, C. D. Howe Institute Says" *The Huffington Post* (Canada), 4 September 2013.
17. "Analyzing Google Search Trends Could Predict Recession Faster: Study" *The Brandon Sun* (Canada), 4 September 2013.
16. "Analyzing Google Search Trends Could Predict Recession Faster: Study" *The Winnipeg Free Press* (Canada), 4 September 2013.
15. "Analyzing Google Search Trends Could Predict Recession Faster: Study" *The Victoria Times-Colonist* (Canada), 4 September 2013.
14. "Analyzing Google Trends Could Predict Recessions Faster: Study" *The Calgary Herald* (Canada), 4 September 2013.
13. "Google Search Trends Could Predict Recession Faster: Study" *The Toronto Star* (Canada), 4 September 2013.
12. Radio interview regarding Google paper with 98.9 XFM, Antigonish, 4 September 2013.
11. Radio interview regarding Google paper with CFX 1070, Victoria, 4 September 2013.
10. Radio interview regarding Google paper with News1130, Vancouver, 4 September 2013.
9. Radio interview regarding Google paper with 660 News, Calgary, 4 September 2013.
8. "How Google Predicts Recessions", *Globe and Mail* (Canada), 4 September 2013, op-ed.
7. "StFX Economics Department Scores Major Coup in Attracting National Conference to Campus." *StFX News*, 16 January 2013.
6. "Even in Extreme Events, the Tills Keep Ringing Up Sales", *Globe and Mail* (Canada), 8 December 2011, by Chris Hannay.
5. "Economics Professor Enjoying Banner Research Year." *StFX News*, 11 October, 2011.
4. "Gold's Warning", *Financial Times Investors Chronicle* (U.K.), 3 July 2007, by Chris Dillow
3. "Gold Price Suggests Inflation Rise" *National Post* (Canada), 25 June 2007, by Hugh Anderson
2. "Calling Fort Knox" *Globe and Mail* (Canada), 23 June 2007, by Heather Scoffield
1. "How Gold Can Predict Inflation: Report Says It Can Do So Up To Two Years in Advance" *National Post* (Canada), 21 June 2007, by David Berman.

Service

Service to the Community: Providing Expert Commentary to the Media

33. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on the Bank of Canada's policy decision, 21 January 2016.
32. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on exchange rate movements, 14 January 2016.
31. "Seafood Industries to Benefit from Trans-Pacific Partnership." *The Casket* (Canada), 15 October 2015, by Emily Hiltz.
30. "Conference Opportunity." *The Casket* (Canada), 24 September 2015, by Corey LeBlanc.
29. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on the federal budget surplus, 15 September 2015.
28. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on recessions, 1 September 2015.
27. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on financial market volatility, 24 August 2015.
26. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on the impact of a lower exchange rate, 31 July 2015.
25. Radio interview on 98.9 XFM, Antigonish, regarding the financial crisis in Greece, 16 July 2015.
24. "Conference to Have Big Impact on Local Economy." *The Casket* (Canada), 9 July 2015, by Emily Hiltz.
23. "Megaprojects: Huge plants may not mean huge paycheques." *The Halifax Chronicle-Herald*, 6 June 2015, by Aaron Beswick.
22. Radio interview on 98.9 XFM, Antigonish, regarding the 2017 CEA conference at StFX, 5 June 2015.
21. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on the impact of a lower exchange rate, 30 January 2015.
20. Live radio interview on the Sheldon MacLeod Show, 95.7 FM, Halifax, on the impact of lower oil prices, 23 January 2015.
19. Live radio interview on the Rick Howe Show, 95.7 FM, Halifax, on the impact of lower oil prices, 22 January 2015.
18. Radio interview on 101.5 FM The Hawk, Port Hawkesbury, on the impact of lower interest rates, 22 January 2015.
17. Radio interview on 98.9 XFM, Antigonish, on the impact of lower interest rates, 22 January 2015.
16. Lower Oil Prices *The Casket* (Canada), 14 January 2015, by Corey LeBlanc.
15. Radio interview on 98.9 XFM, Antigonish, on the impact of lower oil prices, 7 January 2015.
14. Interview with Leah Schnurr of *Reuters* on economic models used at the Bank of Canada, 18 September 2014.
13. "Municipalities Financial Picture on Display." *The Casket* (Canada), 22 May 2014, by Richard Mackenzie.
12. "Tkacz, Brown Talk About 'Cautious Budget'". *The Casket* (Canada), 16 April 2014.
11. "St. FX Prof on Michelin: Don't Hang All Economic Development Plans on One Employer." *The (St. John's) Telegram* (Canada), 6 March 2014.
10. "St. FX Economist Helps Put Michelin Partial Closure in Perspective" *New Glasgow Daily News* (Canada), page 1, 4 March 2014.
9. "Crunching the Numbers" *The Casket* (Canada), 19 February 2014, by Corey LeBlanc.
8. "Economics Professor Expects 'Placeholder' Federal Budget" *The Casket* (Canada), 5 February 2014, by Corey LeBlanc.
7. Live radio interview on CKNW AM980, Vancouver, on the U.S. debt ceiling, 17 October 2013.
6. "Antigonish 2025", *The Casket* (Canada) 22 May 2013, Editorial
5. "Community Joins the Discussion", *The Casket* (Canada) 21 May 2013, by Corey LeBlanc.
4. "Join the Discussion", *The Casket* (Canada), 2 April 2013, Editorial.
3. "Budget Reaction Continues", *The Casket* (Canada), 2 April 2013, by Luke Kenny.
2. "Economy Woes in Europe Have Global Impact", *The Casket* (Canada), 12 October 2011, by Corey LeBlanc
1. "Canadians Keeping Eye on U.S. Economic Crisis", *The Casket* (Canada), 17 August 2011, by Corey LeBlanc

Service to St. Francis Xavier University

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| 9. | Dean of Arts Search Committee: Member | 2016 |
| 8. | Mulroney Institute Ad Hoc Academic Steering Committee: Member | 2015 – 2017 |
| 7. | Vice President Research & Graduate Studies Search Committee: Member | 2014 |
| 6. | St FX Students' Union: Faculty Advisor | 2013 – 2014 |
| 5. | Department of Economics: Chair | 2013 – 2017 |
| 4. | Dean of Business Search Committee: Member | 2012 – 2013 |
| 3. | Centre for Regional Studies: Board Member | 2011 – 2014 |
| 2. | Centre for Public Policy & Governance: Board Member | 2011 – 2014 |
| 1. | Department Evaluation Committee (Economics) | 2010 – 2016 |

Service to the Profession

Executive Appointments with Learned Societies

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| 2. | Canadian Economics Association (CEA): Member of the Executive Council | 2011 – 2014 |
| 1. | Société canadienne de science économique (SCSE): Member of the Executive Council | 2007 – 2010 |

Journal Editorial Boards

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| 4. | Quantitative Finance and Economics: Editorial Board Member | 2017 – |
| 3. | Bank of Canada Review: Guest Editor for Special Issue on "Uncertainty in Monetary Policy-Making", Spring | 2010 |
| 2. | L'Actualité Économique: Rédacteur | 2007 – 2010 |
| 1. | Canadian Journal of Economics: Editorial Advisor | 2002 – 2005 |

Referee for Academic Journals (multiple reports)*

Applied Economics*, Asia Pacific Management Review, B.E. Journals in Macroeconomics, Big Data, Canadian Journal of Economics*, Canadian Public Policy*, Computational Statistics and Data Analysis, Contemporary Economic Policy, Econometrics, Economic Modelling*, Emerging Markets Finance and Trade, Empirical Economics*, IEEE Transactions on Circuits and Systems I, IEEE Transactions on Neural Networks*, IMA Journal of Management Mathematics, International Finance, International Journal of Central Banking, International Journal of Forecasting*, International Review of Economics and Finance, International Statistical Review, Journal of Business and Economic Statistics, Journal of Economics and Business*, Journal of Expert Systems, Journal of Financial Stability*, Journal of Laboratory Automation, Journal of Macroeconomics*, Journal of Monetary Economics, Journal of Money, Credit, and Banking, L'Actualité Économique, Multinational Finance Journal, Networks and Spatial Economics, Omega: The International Journal of Management Science, Quarterly Journal of Business and Economics, Review of Economic Analysis, Southern Economic Journal, Studies in Nonlinear Dynamics and Econometrics*

Referee for Working Paper Series

- Bank of Canada (Working Paper Series)
- University of Calgary (School of Public Policy Paper Series)

Referee for Government Agencies

- Canada Mortgage and Housing Corporation
- Social Sciences and Humanities Research Council of Canada, Doctoral Awards Pre-selection Committee 5: Economics, Industrial Relations, Law, Management, Business, Administrative Studies, Political Science (Dec 2012 – Jan 2013)

Academic Reviewer

- Concordia University: Reviewed candidate for promotion to Full Professor
- University of Lethbridge: Reviewed candidate for promotion to Full Professor
- Mt. Allison University: Reviewed candidate for promotion to Full Professor

Textbook Reviewer (books reviewed in whole or in part)

8. R. Glenn Hubbard and Anthony O'Brien (2014) **Macroeconomics**, First Canadian Edition (Pearson).
7. Paul Krugman (2014) **Macroeconomics**, First Canadian Edition (Worth)
6. Stephen D. Williamson (2012) **Macroeconomics**, Fourth Canadian Edition (Pearson Canada)
5. Robert Frank, Ben Bernanke, Lars Osberg, Melvin Cross and Brian MacLean (2011) **Principles of Macroeconomics**, Fourth Canadian Edition (McGraw-Hill)
4. Pierre Siklos (2005) **Money, Banking and Financial Institutions: Canada in the Global Environment**, Fifth Edition (McGraw-Hill)
3. Costas Milas, Philip Rothman and Dick van Dijk (Editors) (2005) **Nonlinear Time Series Analysis of Business Cycles** (Elsevier; Contributions to Economic Analysis Series)
2. Frederic Mishkin and Apostolos Serletis (2004) **The Economics of Money, Banking and Financial Markets**, Second Canadian Edition (Pearson Canada)
1. Frederic Mishkin and Apostolos Serletis (2001) **The Economics of Money, Banking and Financial Markets**, First Canadian Edition (Pearson Canada)

Conference and Workshop Organizer

3. Local organizer for the June 1-4, 2017, conference of the *Canadian Economics Association* in Antigonish (705 registered delegates and over 200 academic sessions)
2. Co-organizer, with Newspapers Atlantic, of a community workshop titled "Join the Discussion" on rural economic development in Atlantic Canada, 15 May 2013 (apx 50 participants)
1. Organized an invited session on "Forecasting Financial Stress" at the 32nd *International Symposium on Forecasting*, Boston, 24-27 June 2012.

Student Supervision

External Ph.D. Thesis Examiner

2. Lu Wang, Ph.D. in Economics, University of Alberta 2016
1. Firouz Fallahi, Ph.D. in Economics, University of Ottawa 2007

Undergraduate Summer Research Supervision at St Francis Xavier University

[Funding sources in brackets]

9. Dylan Gallant, B.A. Honours in Economics, Sole Supervisor; [StFX] 2017
8. Matthew Cormier, B.A. Honours in Economics, Sole Supervisor; [Irving] 2015
7. Casey Jones, B.A. Honours in Mathematics, Co-Supervisor (with Sunny Wang); [SSHRC, NSERC, University Council for Research] 2013
6. Zhongxu Zhao, B.Sc. Honours in Mathematics, Co-Supervisor (with Sunny Wang); [SSHRC, NSERC, University Council for Research] 2013
5. Josh Sim, B.A. Honours in Economics, Sole Supervisor; [SSHRC] 2013
4. Adam Winn, B.A. Honours in Economics, Sole Supervisor; [SSHRC] 2013
3. Victoria Anderson, B.B.A. Honours in Business, Sole Supervisor; [SSHRC] 2012
2. Xue Yuan Dong, B.B.A. Honours in Business, Sole Supervisor; [SSHRC] 2012
1. John Walsh, B.A. Honours in Economics, Sole Supervisor; [SSHRC] 2011

Undergraduate Honours Thesis Supervision at St Francis Xavier University

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| 18. | Dylan Gallant, B.A. Honours in Economics, Sole Supervisor <u>Thesis:</u> <i>The Impact of St. Francis Xavier University on the Nova Scotia Economy</i> | in progress |
| 17. | Sarah MacPhee, B.A. Honours in Economics, Co-Supervisor (with Teng Wah Leo) <ul style="list-style-type: none"> • <i>Awarded Gold Medal at the 2017 StFX Student Research Day</i> <u>Thesis:</u> <i>Macprudential Housing Policies in Major Canadian Cities</i> <u>Placement:</u> Queen's University (M.A. in Economics) | 2017 |
| 16. | Connor O'Brien, B.B.A. Joint Honours in Business & Economics, Sole Supervisor <ul style="list-style-type: none"> • <i>Awarded Gold Medal at the 2017 StFX Student Research Day</i> <u>Thesis:</u> <i>Changing the Game: An In-Depth Analysis of How Advanced Statistics Have Changed the Face of the NHL</i> <u>Placement:</u> Schulich School of Law, Dalhousie University (Juris Doctor (J.D.) in Law) | 2017 |
| 15. | Christoph Hecker, B.B.A. Joint Honours in Business & Economics, Sole Supervisor <u>Thesis:</u> <i>Determinants of Transfer Fees for Professional Players in the German Association Football League</i> | 2017 |
| 14. | Maria teNyenhuis, B.B.A. Joint Honours in Business & Economics, Sole Supervisor <ul style="list-style-type: none"> • <i>Recipient of the Bank of Canada/CEA Award for Top Undergraduate Research Paper at the 2017 Canadian Economics Association conference</i> • <i>Recipient of the MacDonald Prize in Economics (top Economics student)</i> • <i>Recipient of the ONEX Corp Gold Medal (top Business student)</i> • <i>Recipient of the Governor General's Gold Medal (top University student)</i> <u>Thesis:</u> <i>Spillovers in European Sovereign Bond Yields</i> <u>Placement:</u> Bank of Canada (Ottawa) | 2017 |
| 13. | Chris Duignan, B.B.A. Joint Honours in Business & Economics, Sole Supervisor <u>Thesis:</u> <i>China Grows Up: Structural Economic Changes and Implications for Canada</i> <u>Placement:</u> Scotiabank (Toronto) | 2016 |
| 12. | Kevin MacLean, B.B.A. Joint Honours in Business & Economics, Sole Supervisor <u>Thesis:</u> <i>Identifying a Bubble: Detecting Overvaluation in the Canadian Housing Market</i> <u>Placement:</u> Bank of Canada (Ottawa) | 2016 |
| 11. | Matthew Cormier, B.A. Honours in Economics, Sole Supervisor <ul style="list-style-type: none"> • <i>Recipient of the MacDonald Prize in Economics (top Economics student)</i> • <i>Awarded Bronze Medal at the 2016 StFX Student Research Day</i> <u>Thesis:</u> <i>The Dynamics of Monetary Policy Actions and Credit Default Rates</i> <u>Placement:</u> Bank of Canada (Ottawa) & Queen's University (M.A. in Economics) | 2016 |
| 10. | Colby Gibbons, B.B.A. Honours in Business, Sole Supervisor <u>Thesis:</u> <i>On the Profitability of Microfinance Institutions: Does Legal Status Matter?</i> <u>Placement:</u> University of Toronto (Master in Financial Economics) | 2015 |

9. Javier Ballve, B.B.A. Honours in Business, Sole Supervisor 2015
Thesis: *The Rise and Fall of the Spanish Electricity Sector: Do Investment Opportunities Exist in Renewable Energy?*
Placement: TD Bank (Toronto)
8. Matthew Del Bel Belluz, B.B.A. Joint Honours in Business & Economics, Sole Supervisor 2015
 - ***Awarded Gold Medal at the 2015 StFX Student Research Day***Thesis: *The Past, Present, and Future of International Reserve Currencies: On the Sustainability of the U.S. Dollar*
Placement: Beijing Language and Culture University
7. Hang Su, B.B.A. Honours in Business, Sole Supervisor 2014
Thesis: *How Do the Capital Requirements of Basel III Impact Canadian Banks?*
Placement: University of Edinburgh (M.Sc. in Finance)
6. Casey Jones, B.A. Honours in Mathematics, Co-Supervisor (with Sunny Wang) 2014
 - ***Awarded Gold Medal at the 2014 StFX Student Research Day***
 - ***Recipient of the MacDonald Prize in Economics (top Economics student)***
 - ***Recipient of the University Gold Medal (top student in the Faculty of Arts)***Thesis: *Nowcasting Inflation Using Mixed-Frequency Data*
Placement: Bank of Canada (Ottawa) & Carleton University (M.A. in Economics)
5. Zhongxu Zhao, B.Sc. Honours in Mathematics, Co-Supervisor (with Sunny Wang) 2014
Thesis: *Nowcasting U.S. GDP Using the Unemployment Rate with Mixed Data Sampling (MIDAS)*
4. Adam Winn, B.A. Honours in Economics, Sole Supervisor 2014
Thesis: *Predicting Unemployment Using Internet Search Data, 2004-2013*
Placement: Carleton University (M.A. in Economics)
3. Xueming You, B.B.A. Honours in Business, Sole Supervisor 2013
Thesis: *Is Purchasing Power Parity (PPP) the Best Forecasting Model of the Canada/US Exchange Rate?*
Placement: Huarui Information (Hangzhou, China)
2. Xue Yuan Dong, B.B.A. Honours in Business, Sole Supervisor 2013
 - ***Awarded Gold Medal at the 2013 StFX Student Research Day***Thesis: *Forecasting the 90-Day Canadian T-Bill Rate Using Vector Autoregressions (VARs)*
Placement: University of Rochester (M.S. in Finance)
1. Liam Gillis, B.A. Honours in Economics, Sole Supervisor 2011
 - ***Recipient of the MacDonald Prize in Economics (top Economics student)***Thesis: *National Borders Still Matter: The Effect of the Canada-United States Border on International Trade*
Placement: Schulich School of Law, Dalhousie University (Juris Doctor (J.D.) in Law)