

Trevor Tombe

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Academic Appointments

2021 – Professor, Department of Economics, University of Calgary
2016 – Research Fellow, The School of Public Policy, University of Calgary
2019 – 2022 Graduate Program Director, Department of Economics, University of Calgary
2017 – 2021 Associate Professor, Department of Economics, University of Calgary
2012 – 2017 Assistant Professor, Department of Economics, University of Calgary
2011 – 2012 Assistant Professor, Department of Economics, Wilfrid Laurier University

Education

2006 – 2011 PhD, Economics, University of Toronto
2005 – 2006 MA, Economics, University of Toronto
2003 – 2005 BBA (Honours), Finance and Economics, Simon Fraser University
2001 – 2003 Douglas College

Journal Publications

Fiscal Sustainability and Diverging Fortunes in Atlantic Canada, *Atlantic Canada Economic Review* 3 (1): 1-18, July 2022.

Fiscal Integration with Internal Trade: Quantifying the Effects of Equalizing Transfers (with Jennifer Winter), *Canadian Journal of Economics* 54 (2): 522-556, May 2021

Provincial Debt Sustainability in Canada: Demographics, Federal Transfers, and COVID-19, *Canadian Tax Journal* 68 (4): 1083-1122, January 2021

The DNA of New Exporters: Spin-Offs and FDI at the Extensive Margin of Trade (with Bernardo Blum, Sebastian Claro, and Ignatius Horstmann), *American Economic Review: Insights* 2 (3): 1-13, September 2020.

The Effect of Migration Policy on Growth, Structural Change, and Regional Inequality in China (with Tongtong Hao, Ruiqi Sun, and Xiaodong Zhu), *Journal of Monetary Economics* 113: 112-134, August 2020.

A Critical Juncture in Fiscal Federalism? Canada's Response to COVID-19 (with Daniel Beland, Andre Lecours, and Mireille Paquet), *Canadian Journal of Political Science* 53 (2): 239-243, June 2020.

Policy Forum: Expenditures, Efficiency, and Distribution-Advice for Canada's 43rd Parliament

(with Rob Gillezeau). *Canadian Tax Journal* 68 (1): 49-67, April 2020.

Analysis of Carbon Tax Treatment in Canada's Equalization Program (with Tracy Snoddon)
Canadian Public Policy 45 (3): 377-392, August 2019

- Awarded the Vanderkamp Prize for Best Paper in the CPP for 2019

Trade, Migration, and Productivity: A Quantitative Analysis of China (with Xiaodong Zhu),
American Economic Review 109 (5): 1843-1872, May 2019

Final and Unalterable — But Up for Negotiation: Federal-Provincial Transfers in Canada,
Canadian Tax Journal 66 (4): 1-53, January 2019

Internal Trade, Productivity, and Interconnected Industries: A Quantitative Analysis (with Lukas Albrecht), *Canadian Journal of Economics* 49 (1): 237-263, February 2016

- Awarded the Harry Johnson Prize for Best Paper in the CJE for 2016

Environmental Policy and Misallocation: The Productivity Effect of Intensity Standards
(with Jennifer Winter), *Journal of Environmental Economics and Management* 72: 137-163, July 2015

The Missing Food Problem: Trade, Agriculture, and International Income Differences; *American Economic Journal: Macroeconomics* 7 (3): 226-258, July 2015

Quality Disclosure Programs with and Internal Organizational Practices: Evidence from Airline Flight Delay (with Silke Forbes and Mara Lederman); *American Economic Journal: Microeconomics* 7 (2): 1-26, May 2015

Factor Market Distortions Across Time, Space, and Sectors in China (with Loren Brandt and Xiaodong Zhu) *Review of Economic Dynamics* 16 (1): 39-58, January 2013

Management Matters (with Michelle Alexopoulos) *Journal of Monetary Economics* 59 (3): 269-285, April 2012

The Impact of Sub-Metering on Condominium Electricity Demand (with Don Dewees) *Canadian Public Policy* 37 (4): 435-457, December 2011

Peer-Reviewed Policy Papers

Three Policy Pathways for Federal Health Care Funding in Canada (with Daniel Béland), *School of Public Policy Research Paper* 14 (36), December 2021

Fiscal Planning and Sustainability in Alberta, *Alberta's Economic and Fiscal Future*, Chapter 17 (K. McKenzie and R. Mansell, eds), November 2021

Implications of an Infrastructure Corridor for Alberta's Economy (with G. Kent Fellows and Alaz Munzur), *School of Public Policy Research Paper* 14 (7), February 2021

Financing the Future: Options for Long-Run Debt and Spending Sustainability in British Columbia, *Research Paper for the BC Basic Income Panel*, Commissioned by the Government of British Columbia, December 2020

Alberta's Opportunity: The Ins, Outs and Benefits of Greater Job Mobility (with Daniel Schwanen), *C.D. Howe Institute Commentary* 580, September 2020

The Regional Distribution of Federal Fiscal Balances: Who Pays, Who Gets and Why It Matters (with Mukesh Khanal and Robert Mansell), *School of Public Policy Research Paper* 13 (14), June 2020

Alberta's Long-Term Fiscal Future, *School of Public Policy Research Paper* 11 (31), November 2018

Opening Canada's North: A Study of Trade Costs in the Territories (with G. Kent Fellows), *School of Public Policy Research Paper* 11 (17), June 2018

Gains from Trade for Canada's North: The Case for a Northern Infrastructure Corridor (with G. Kent Fellows), *School of Public Policy Communique* 10 (2), March 2018

The Ground Rules for Effective OBAs: Principles for Addressing Carbon-Pricing Competitiveness Concerns Through the Use of Output-Based Allocations (with Sarah Dobson, G. Kent Fellows, Jennifer Winter), *School of Public Policy Research Paper* 10 (17), June 2017

If It Matters, Measure It: Unpacking Diversification in Canada (with Robert Mansell), *School of Public Policy Research Paper* 9 (36), November 2016

Power Play: The Termination of Alberta's PPAs (with Andrew Leach), *School of Public Policy Communique* 8 (11), August 2016

Better off Dead: "Value Added" in Economic Policy Debates, *School of Public Policy Research Paper* 8 (9), March 2015

The Taming of the Skew: Facts on Canada's Energy Trade, *School of Public Policy Research Paper* 7 (9), March 2014

The Importance of Policy Neutrality for Lowering Greenhouse Gas Emissions (with Jennifer Winter), *School of Public Policy Research Paper* 6 (14), March 2013

Appreciate the Appreciation: Imported Inputs and Concern over Dutch Disease (with Wardah Naim), *School of Public Policy Research Paper* 6 (13), January 2013

Book Chapters and Other Publications

The Long Slide Towards Fiscal Reckoning: Managing Alberta's Finances in an Age of Decline, forthcoming chapter in D. Bratt, R. Sutherland, and D. Taras. Eds. *Blue Storm: The Rise and Fall of Jason Kenney*. University of Calgary Press, 2022.

The Federal Equalization Program as a Controversial and Contested Policy Success (with Daniel Béland and André Lecours), Chapter 12 in E. Lindquist, M. Howlett, G. Skogstad, G. Tellier, P. 't Hart. eds. *Policy Success in Canada: Cases, Lessons, Challenges*. Oxford University Press, 2022.

Book Review: The Art of Sharing by Mary Janigan, *Essays in Economic and Business History* 39 (1): 246-247, January 2022

Book Review: Who Pays for Canada? Edited by E.A. Heaman and David Tough, *Canadian Historical Review* 102 (4): 674-675, December 2021

A New Lens: Envisioning an Active Economy (with David Finch, David Legg, Norm O'Reilly, and Jason Riberio) in *Understanding the Active Economy and Emerging Research on the Value of Sports, Recreation, and Wellness*. Edited by David Finch and David Legg. Chapter 1. June 2021.

Mapping the Active Economy to Community Value (with David Finch, David Legg, Norm O'Reilly, and Jason Riberio) in *Understanding the Active Economy and Emerging Research on the Value of Sports, Recreation, and Wellness*. Edited by David Finch and David Legg. Chapter 2. June 2021.

Attitudes, behaviours and barriers to public health measures for COVID-19: a survey to inform public health messaging (with Raynell Lang, Jamie L. Benham, Omid Atabati, Aidan Hollis, Blake Shaffer, Katharina Kovacs Burns, Gail MacKean, Tova Léveillé, Brandi McCormack, Hasan Sheikh, Madison M. Fullerton, Theresa Tang, Jean-Christophe Boucher, Cora Constantinescu, Mehdi Mourali, Braden J. Manns, Deborah A. Marshall, Jia Hu & Robert J. Oxoby), *BMC Public Health* 21 (765), 2021

The COVID-19 Crisis and Canadian Federalism (with André Lecours, Daniel Béland, Nikola Brassard-Dion, Jennifer Wallner), *Forum of Federations* 48: 1–18

The need to review Canada's Fiscal Stabilization Program for provinces after COVID-19, *Canada West Foundation — What Now?* August 2020

An (Overdue) Review of Canada's Fiscal Stabilization Program, *IRPP Insight* 31. Montreal: Institute for Research on Public Policy, February 2020

Internal Trade in Canada: The Case for Liberalization (with Jorge Alvarez and Ivo Krznar), *IMF Working Paper* 19/158, July 2019

- Part of the IMF 2019 Article IV Country Report for Canada (No. 19/175)

Climate Policy Transition Briefing: An evidence-based climate policy for Ontario, *Ontario 360 Policy Paper*, University of Toronto School of Public Policy and Governance, April 2018

Textbooks

Public Finance in Canada, 6ce (with Lindsay Tedds; adapted from Rosen/Wen/Snoddon 5ce)

Software and Datasets

Finances of the Nation, *Equalization Payments Simulator*
Finances of the Nation, *Debt Sustainability Simulator*

Work in Progress

The Aggregate Productivity Effect of Labour and Capital Market Distortions in Canada (with Yu (Sonja) Chen), revision requested, *Canadian Journal of Economics*

Regional Integration and Aggregate Volatility: A Quantitative Analysis of Trade, Migration, and Fiscal Transfers

Fiscal Federalism in the North: Understanding Territorial Formula Financing (with Chris Yurris and Daniel Béland)

The Challenges and Opportunities Facing Canada's Fiscal Arrangements After COVID-19

General Interest Publications

Various semi-regular columns in *CBC Calgary*, *The Hub*, *Macleans*, *Globe and Mail*, *Calgary Herald*, and *Financial Post*

Misplaced Anger, *Alberta Views Magazine*, August 2019

Unpacking Canada's Equalization Payments for 2018-19, *SPP Blog*, January 2018

Trade in the Trump Era, *Alberta Views Magazine*, October 2018

Dialogue: Should Government Go into Debt? *Alberta Views Magazine*, March 2018

The Dangers of "Value-Added" Mythology *C2C Journal*, January 2016

Shouldn't All Policy Be Science Based (with Jennifer Winter) *Policy Options* 34 (5): 52-53

Other Professional and Community Activities

Academic Advisor, Bank of Canada (2022 – 2023)

Member, SSHRC 2021/22 Insight Grant Economics Selection Committee (2021 – 2022)

Interim Chair, Intergovernmental Fiscal Relations Commission (2020 – ongoing)

Co-Director, Finances of the Nation, *Canadian Tax Journal* (2020 – ongoing)

Occasional ad-hoc research work for and/or advice to various governments, including the *Government of Canada*, *Government of Alberta*, *Yukon Government*, *Government of Ontario*, and *Government of Manitoba*. Presentations to public servants also includes the *Government of British Columbia*.

Board Member, The University of Calgary Faculty Association (2019 – 2023)

Team Member, TUCFA Collective Agreement Bargaining Team (2020 – 2024 Agreement)

Member, University of Calgary Chancellor Search Committee (2021 – 2022)

Editorial Advisor, *Canadian Journal of Economics* (2018 – 2022)

Evaluator, Bank of Canada Undergraduate Paper in Economics (2019 – 2020)

Judge, UCalgary Undergraduate Research Symposium (2018 – 2021)

Member, C.D. Howe COVID-19 Crisis Business Continuity and Trade Working Group (2020)

Board Member, ActiveCITY Calgary (2019 – 2020)

Member of the Alberta Government Market Access Task Force (2018)

Member of the Yukon Government Financial Advisory Panel (2017)

Member of the Calgary Chamber of Commerce Municipal Election Advisory Team (2017)

Co-Organizer of the Rocky Mountain Empirical Trade Conference (ongoing)

Awards and Recognition

2021: U Make a Difference Award, *University of Calgary*

2020: Faculty of Arts Engagement Award, *University of Calgary*
 2020: Department of Economics Teaching Excellence Award, *University of Calgary*
 2019: Vanderkamp Prize (with Tracy Snoddon), *Canadian Public Policy*
 2017: Volunteer of the Year, *Calgary Chamber of Commerce*
 2016: Harry Johnson Prize (with Lucas Albrecht), *Canadian Journal of Economics*

Invited Conference Presentations, Seminars, or Panels

- 2022 CEA Annual Meeting (Carleton); Government of Canada Trade Experts Roundtable; Canadian Chamber of Commerce Board Meeting Presentation

- 2021 York University; University of California San Diego; University of Victoria; University of Alberta (Centre for Constitutional Studies); Atlantic Canada Economics Association; Government of British Columbia, Ministry of Finance; Rotary Club of Calgary; Calgary Chapter of CPAs; CPA Annual Forum; Fiscal Federalism in Canada Conference (UOttawa); Testimony before the House of Commons Standing Committee on Industry, Science, and Technology; Canada West Foundation; O'Brien Institute and Haskayne School of Business Webinar; Probus Club of Edmonton

- 2020 University of Alberta; Queen's Institute on Trade Policy; University of Ottawa; UBC-Okanagan; Economics Society of Northern Alberta; CEEA Beyond Boomers; McGill Institute for the Study of Canada; Finances of the Nation

- 2019 Canadian Tax Foundation Conference; Carnegie-Rochester-NYU Conference (invited); Carleton University Seminar; Parliamentary Budget Office; Calgary Chamber of Commerce Leaders' Luncheon; Alberta Chamber of Commerce Federal Election Panel; Probus Club of Calgary; Canada West Foundation Economic Roundtable; Thompsons Rivers University Seminar; Bank of Canada Seminar; Federal Transfers Sub-Committee; Canadian Economics Association Annual Meeting; Southern Alberta Council on Public Affairs

- 2018 Marshall School of Business (USC); CEA Annual Meeting; Western Economic Association, Lipsey Memorial Panel; C.D. Howe Institute Luncheon; Fraser Institute Public Policy Series; Haskayne Hour; University of Calgary Alumni in Houston Event; Equalization in Canada Current Affairs Lunch

- 2017 Memorial University; Economics Society of Northern Alberta; CEA Annual Meeting; Alberta-US Trade Summit (SPP, CEA, and the US Consulate); Conference Board of Canada panel on Alberta economy; Calgary Economic Society luncheon on NAFTA; Fraser Institute Public Policy Series

- 2016 Bank of Canada; Penn State University; Canadian Political Science Association Annual Meeting at Congress 2016; Economics Society of Northern Alberta panel on Alberta's economy; Pacific NorthWest Economic Region Annual Meeting panel on TPP; School of Public Policy panel on the PPAs; Economics Society of Northern Alberta on diversification; EcoFiscal Commission of Canada panel on carbon pricing; Senate of Canada testimony on internal trade costs; City of Edmonton panel on industrial policy; Senate of Canada testimony on EI extension policy

- 2015 Brown University; Texas A&M University; SED Annual Meeting, Warsaw; SITE Development Workshop, Stanford; CEA Annual Meeting, Toronto;

ASSA Annual Meeting, Boston

- 2014 Vancouver School of Economics; China Economics Summer Institute, Beijing; SED Annual Meeting, Toronto; North American Summer Meeting of the Econometric Society, Minneapolis; CEA Annual Meeting, Vancouver; Rocky Mountain Empirical Trade Conference, Banff; Université Laval
- 2013 Rocky Mountain Empirical Trade Conference, Banff; CEA Annual Meeting, Montreal; Arizona State University, CASEE Quantitative Macro Conference
- 2012 Canadian Resource and Environmental Economics Conference, Vancouver; SED Annual Meeting, Cyprus; CEA Annual Meeting, Calgary; Midwest Macro Meetings, University of Notre Dame; University of Calgary
- 2011 CEA Annual Meeting, Ottawa; York University; Tsinghua Macroeconomics Workshop, Beijing; CEA Annual Meeting, Quebec City
- 2010 Midwest Macro Meeting, Lansing
- 2009 Econometric Society North American Summer Meeting, Boston; CEA Annual Meeting, Toronto

Conferences Attended: *Banff Microeconomics Workshop (Ottawa 2018; Banff, 2015-2016, 2019); Rocky Mountain Empirical Trade (Banff, 2012-2016; Ottawa, 2018); NBER Chinese Economy Meeting (Boston, 2014); New Faces in International Trade (Penn State, 2013, 2014, 2015, 2017, 2018); Growth and Development Conference (Toronto, 2012); NBER Summer Workshop, Economic Growth (Boston 2011); Society for Economic Dynamics (Ghent 2011, Montreal 2010); China Summer Institute (Beijing 2010); Canadian Macroeconomic Study Group (Vancouver 2011, London 2010, Toronto 2008); Research on Money and Markets (Toronto, 2006-2011)*

Refereeing: *Quarterly Journal of Economics; Review of Economic Studies; Journal of Political Economy; Econometrica; Economic Journal; Journal of International Economics; Journal of Development Economics; Journal of Economic Behaviour and Organization; Journal of Economic Growth; American Economic Journal: Macroeconomics; Review of Economic Dynamics; International Economic Review; Journal of Economic Dynamics and Control; Journal of Environmental Economics and Management; Economic Letters; Environmental and Resource Economics Canadian Journal of Economics; Canadian Public Policy; Canadian Tax Journal; B.E. Journal of Macroeconomics; Macroeconomic Dynamics; China Economic Review; Energy Economics; Journal of Agricultural and Applied Economics; The World Economy; Economic Inquiry; Journal of Agricultural and Applied Economics; Journal of African Economics; The EcoFiscal Commission; The Fraser Institute; The Frontier Centre; The National Science Foundation*

University Service: *Chancellor Search Committee (2021-22); Political Activities Policy Advisory Group (2022); Return-to-Campus ELT Task Force (2021); TUCFA Collective Agreement Bargaining Team (2021-22); Research Integrity Investigation Committee (2021); Faculty of Veterinary Medicine Dean Search Committee (2020-2021); Faculty of Arts Graduate Certificate Task Force (2021); Faculty Tenure and Promotions Committee (Law, 2020 and 2021); Economics Graduate Program Director (2019 – 2022); Executive Committee, General Faculties Council (2017 – 2020); General Faculties Council (2017 – 2022); Policy and Planning (2017 – 2020); Shortlisting (Hiring) Committee; Alumni, Communications and Media Liaison (2014 – present); Research Activities Committee (2012 – 2017); Advisory Committee to*

the Head (2015 – 2017; 2019 – 2022); Chair, Graduate Committee (2019 – 2021); Job Placement Officer (2015 – 2016); Undergraduate Macroeconomics Coordinator (2013 – 2014); Principles of Economics Coordinator (2020 – 2021)

Research Grants

SSHRC Partnership Engage Grant (\$24,950); 2020-2021 (Co-Investigator), for *Finances of the Nation* (PI: Michael Smart; CI: Ken McKenzie)
 SSHRC Partnership Development Grant (\$195,547); 2020-2022 (Co-Investigator), for *Finances of the Nation* (PI: Michael Smart; CI: Ken McKenzie)
 SSHRC Insight Grant (\$67,000, Principal Investigator for *Misallocation in Canada: Causes and Consequences*); 2019-2022 (Co-Applicant: Yu (Sonja) Chen)
 SSHRC Insight Grant (\$46,790, Co-Applicant for *Frictional financing, capital misallocation, and the development of small firms*); 2019-2021 (PI: Yu (Sonja) Chen)
 SSHRC Partnership Development Grant (\$200,000, Co-applicant *Canadian Northern Corridor program*); 2018-2021 (PI: Jennifer Winter)
 SSHRC Insight Grant (\$90,922, Principal Investigator for *The Gains from Trade and Labour Mobility*); 2015-2019
 SSHRC Insight Development Grant (\$40,810, Principal Investigator for *Internal Trade and Aggregate Productivity*); 2012-2015
 University of Calgary Start-Up Research Grant: 2012-2016
 Wilfrid Laurier University International Travel Grant: 2012
 Wilfrid Laurier University Start-Up Research Grant: 2011-2013

Teaching

University of Calgary

- 2019-2022: MGST 611 – Managerial Economics (EMBA)
- 2019-2022: FIF 651 – Equalization and Fiscal Transfers (ContEd)
- 2018-2022: PPOL 615 – Public Finance (MPP)
- 2018, 2020-2021: ECON 201 – Principles of Microeconomics
- 2020: ECON 759 – Advanced Macroeconomic Theory (PhD)
- 2013-2021: ECON 621 – International Trade (MA/PhD)
- 2017-2019: ECON 321 – The Global Trading System
- 2019: ECON 359 – Intermediate Economic Theory – Macroeconomics II
- 2013-2018: ECON 659 – Macroeconomic Theory (MA/PhD)
- 2015-2017: ECON 611 – Independent Study (MA Summer Research Projects)
- 2015-2016: ECON 693 – Research Methods II (MA)
- 2016: ECON 615 – Econometrics I (MA)
- 2013, 2019: ECON 359 – Macroeconomics II

Wilfrid Laurier University

- 2012: EC290 – Intermediate Macroeconomics

University of Toronto

- 2009-2010: ECMC14 – Advanced Macroeconomic Theory (UTSC)
- 2009: ECO362 – Economic Growth: Theory and Evidence (UTM)

PhD Student Supervision (Employment Listed in Parentheses):

2019 –	Felix Fosu
2019 – 2022	Longzhou Wang (Assistant Lecturer, University of Alberta)
2019 – 2021	Mojtaba Eslami (Private Sector)
2016 – 2020	Chi-Man Yip (Assistant Professor, The Hong Kong Polytechnic University)
2015 – 2019	Alaz Munzur (Research Associate, The School of Public Policy)
2014 – 2018	Jesse Tweedle (Research Economist, Statistics Canada)
2016 – 2018	Blake Shaffer (Assistant Professor, University of Calgary)
2015 – 2018	Hossein Hosseini (Senior Analyst, Bank of Canada)
2014 – 2016	Jahangir Alam (Assistant Professor, Western Michigan University)

Masters Student Supervision:

2022	Sora Jalil Pour Kivi (MPP)
2021	Lin Al-Akkad (MPP)
2020	Nicholas Godwin (MPP)
2020	Haiqa Cheema (MPP)
2019	Tegan Hill (MPP)
2019	Isabelle Puppa (MPP)
2019	J.C. Vito (MPP)
2019	Jairo Yunis (MPP)
2018	Keyli Kosiorek (MPP)
2015-2017	Roughly half of all MA (Econ) students each year
2012	Evan Feigen (MABE, Wilfrid Laurier)
2012	Wardah Naim (MABE, Wilfrid Laurier)

External Examiner, Thesis Defenses:

2021	Jeffrey Hicks (PhD, UBC)
2018	Anton Laptiev (PhD, UBC)

Personal

Citizenship: Canadian

Year of Birth: 1983

Research Interests: International trade, macroeconomics, fiscal federalism