

## ANDREW LEACH, PH.D.

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## AFFILIATIONS

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<b>University of Alberta</b> , Faculty of Arts (Economics) and Faculty of Law Professor, with tenure	2022–
<b>Institute for Public Economics (IPE)</b> , University of Alberta Faculty of Arts Co-Director	2023–
<b>Smart Prosperity</b> , Research Network Member	2018–
<b>CIRANO</b> , Center for Interuniversity Research and Analysis on Organizations Researcher	2005–

## PAST AFFILIATIONS

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<b>University of Alberta</b> , Alberta School of Business Professor, with tenure	2022
Associate Professor, with tenure	2011–2022
Enbridge Professor of Energy Policy	2013–2015
Assistant Professor	2006–2011
<b>Centre for Applied Business Research in Energy and the Environment (CABREE)</b> , Alberta School of Business Research Centre, Academic Director	2014–2022
<b>Government of Alberta</b> , Department of Environment and Climate Change Chair, Climate Leadership Panel	2015
<b>Environment Canada</b> , Strategic Policy Branch Visiting Scholar	2012–2013
<b>Sustainable Prosperity</b> , Research Network Member	2008–2017
<b>HEC Montréal</b> , Institute of Applied Economics Assistant Professor (on leave, 2007)	2003–2007
<b>Queen's University</b> , Economics Department Teaching Fellow	2002 – 2003

## EDUCATION

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<b>University of Alberta</b> Master of Laws	2021
<b>Queen's University</b> Ph.D.(Economics)	2004
<b>University of Guelph</b> Master of Arts (Economics)	1999
<b>University of Guelph</b> Bachelor of Science (Environmental Science)	1998

## MAJOR AWARDS

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Queen's Platinum Jubilee Medal, 2022.

## PUBLICATIONS

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- Droessler, Mark and Andrew Leach. (2024) [Green with envy? Carbon pricing impacts on the economic viability of green and blue hydrogen](#), *Energy Policy* 186(113982), January 2024, pages 1-13.
- Leach, Andrew. (2023) [“Between Doom and Denial: Facing Facts about Climate Change,”](#) Sutherland House, Toronto, ON. 116 pages.
- Leach, Andrew. (2023) [I can’t believe it’s not butter: Supply Management and the Constitutionality of Carbon Budget Legislation in Canada](#), *UBC Law Review* 56(2), pages 493-544, 2023 CanLIIDocs 3172.
- Thibault, Benjamin, Tim Weis, and Andrew Leach (2023). [“Alberta’s quiet but resilient electricity transition”](#) in Mark Winfield, Stephen Hill, and James Gaede (eds.), [Sustainable Energy Transitions in Canada: Challenges and Opportunities](#), UBC Press, Vancouver BC, pages 256-283 [Pre-publication version].
- Bankes, Nigel and Andrew Leach. (2023) [Preparing for a mid-life crisis: Section 92A at 40](#), *Alberta Law Review* 60(4), pages 853-882 [Pre-publication version].
- Leach, Andrew (2023). [“Academic Engagement within Canada’s Climate Policy Network”](#) in Janis Sarra and Fenner Stewart eds., [Reflections on Connecting Canada’s Climate Policy Network](#), Canada Climate Law Initiative, Vancouver BC.
- Hastings-Simon, Sara, Andrew Leach, Blake Shaffer and Tim Weis. (2022) [Alberta’s Renewable Electricity Program: Design, Results, and Lessons Learned](#), *Energy Policy* 171(113266), December 2022, pages 1-12 [Pre-publication version].
- Leach, Andrew. (2022) [Canada’s Oil Sands in a Carbon-Constrained World](#), *Canadian Foreign Policy Journal* online, pages 1-20 [Pre-publication version].
- William Noel, Timothy M. Weis, Qiulin Yu, Andrew Leach and Brian Fleck. (2022) [Mapping The Evolution of Canada’s Wind Energy Fleet](#), *Renewable & Sustainable Energy Reviews* 167(112690), pages 1-10.
- Leach, Andrew. (2021) [The No More Pipelines Act?](#), *Alberta Law Review* 59(1), pages 7-40.
- Bankes, Nigel, Andrew Leach and Martin Olszynski. (2021) [Supreme Court of Canada Re-writes the National Concern Test and Upholds Federal Greenhouse Gas Legislation. A Comment on the \*References re Greenhouse Gas Pollution Pricing Act\*](#), 2021 SCC 11, *Energy Regulation Quarterly* 9(2), pages 27-57.
- Leach, Andrew. (2021) [Environmental Policy is Economic Policy: Climate Change Policy and the General Trade and Commerce Power](#), *Ottawa Law Review* 52(2), pages 97-156.
- Leach, Andrew, Nic Rivers, and Blake Shaffer. (2020) [Canadian Electricity Markets during the COVID-19 Pandemic: An Initial Assessment](#), *Canadian Public Policy* 46(S2), pages S145-S159.
- Olszynski, Martin, Nigel Bankes, and Andrew Leach. (2020) [Case Comment: \*Reference re Greenhouse Gas Pollution Pricing Act\*](#), 2020 ABCA 74, *Journal of Environmental Law and Practice* 33(2), pages 159-184.
- Leach, Andrew and Eric M. Adams. (2020) [Seeing Double: Peace, Order, and Good Government, and the Impact of Federal Greenhouse Emissions Legislation on Provincial Jurisdiction](#), *Constitutional Forum* 29 (1), pages 1-20.
- Bošković, Branko and Andrew Leach. (2020) [Leave it in the ground? Oil sands development under carbon pricing](#), *Canadian Journal of Economics* 53(2), pages 526-562.
- Heyes, Anthony, Andrew Leach and Charles F. Mason. (2018) [The Economics of the Canadian Oil Sands](#), *Review of Environmental Economics and Policy* 12 (2), pages 242-263.
- Leach, Andrew and Trevor Tombe. (2016) [Power play: The termination of Alberta’s PPAs](#), *SPP Communiqué* 8 (11), pages 14 pages.
- Leach, Andrew. (2016) [Canada in a Low-Carbon World: Impacts on new and existing resources](#), *Canadian Public Policy* 42 (S1), pages S18-S23.

- Leach, Andrew. (2015) Canadian Hydrocarbon Resources in an Era of Manufactured Energy, in Roland Paris and Taylor Owen (eds), *The World Won't Wait: Why Canada needs to rethink its international policies*, *University of Toronto Press* 2015, pages 240.
- Leach, Andrew and Branko Boskovic. (2014) [Carbon cost will not stop oil-sands work](#), *Nature Letters* 511, pages 534-534.
- Leach, Andrew. (2012) [Alberta's Specified Gas Emitters Regulation](#), *Canadian Tax Journal* 60(4), pages 881-898.
- Chakravorty, Ujjayant, Andrew Leach, and Michel Moreaux. (2012) [Cycles in nonrenewable resource prices with pollution and learning-by-doing](#), *Journal of Economic Dynamics and Control* 36(10), pages 1448-1461.
- Laurent-Lucchetti, Jeremy and Andrew Leach. (2011) [Generational welfare and induced innovation under climate change policy](#), *Scandinavian Journal of Economics* 113(4), pages 904-936.
- Leach, Andrew, Charles F. Mason and Klaas van't Veld. (2011) [Co-optimization of oil production and carbon sequestration](#), *Resource and Energy Economics* 33, pages 893-912.
- Leach, Andrew, Joseph Doucet and Trevor Nickel. (2011) [The effectiveness of Alberta biofuels policy](#), *Energy Policy* 39(7), pages 4007-4015.
- Chakravorty, Ujjayant, Andrew Leach, and Michel Moreaux. (2011) [Would Hotelling Kill the Electric Car?](#), *Journal of Environmental Economics and Management* 61(3), pages 281-296.
- Chakravorty, Ujjayant, Shelby Gerking and Andrew Leach. (2010) "State Tax Policy and Oil Production: The Role of the Severance Tax and Credits for Drilling Expenses," *US Energy Tax Policy*, Metcalf, Gilbert (ed), Cambridge University Press, 414 pages..
- Leach, Andrew. (2009) [The Welfare Implications of Climate Change Policy](#), *Journal of Environmental Economics and Management* 57(2), pages 151-165..
- Bahn, Olivier and Andrew Leach. (2008) [The Secondary Benefits of Climate Change Mitigation: An overlapping generations approach](#), *Computational Management Science* 5(3), pages 233-257.
- Leach, Andrew. (2007) [The Climate Change Learning Curve](#), *Journal of Economic Dynamics and Control* 33, pages 1728-1752.
- Clark, C. Robert and Andrew Leach. (2007) [The Potential for Electricity Market Restructuring in Quebec](#), *Canadian Public Policy* 33(1), pages 1-20.
- Leach, Andrew. (2006) [Regulation by Reputation](#), *Computers and Operations Research* 33, pages 409-425.

## CURRENT PROJECTS

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- Andrew Leach, and Alain-Desiré Nimubona. "Abatement Technology Search and the Porter Hypothesis." Submitted to *Resource and Energy Economics*, February 2024
- Andrew Leach and Charles F. Mason. "Nonrenewable resources, reserves, and carbon pricing." Revisions requested for a special issue devoted to the 10th FAERE Annual Conference – September 7-8, 2023
- Andrew Leach and Blake Shaffer. "Carbon Price Pass-Through in Alberta's Electricity Market," presented at the 2022 Canadian Economics Association Conference.
- Andrew Leach. "The constitutional limits on federal GHG emissions policies: an economists' guide"
- Kathryn Harrison and Andrew Leach. "Canada's post-COVID Climate Challenge." Revisions requested, *Environmental Politics*, September 2023.

## SELECTED PROFESSIONAL AND ADVISORY ACTIVITY

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- Leach, Andrew. "Mitigation Advisory Committee Member, Canadian Institute for Climate Choices" in progress
- Leach, Andrew. "Expert witness report on oil sands mine reclamation" Athabasca First Nations
- Leach, Andrew. "Expert witness report on emissions implications of the Dakota Access pipeline" in progress
- Leach, Andrew. "Expert witness reports on the Rigel oil sands project" Fort McKay First Nation, 2020-21.
- Leach, Andrew and Angela Adams, Stephanie Cairns, Linda Coady and Gordon Lambert. "Climate Leadership Panel, Report to the Minister" Alberta Environment and Climate Change, 2015.
- Leach, Andrew. "Royalty Review Scoping Document" Alberta Energy, 2015.
- Leach, Andrew. "Emerging oilsands technology and prospects for GHG emissions reductions" Environment Canada, 2012.
- Leach, Andrew. "An evaluation of 'A Climate Change Plan for the Purposes of the Kyoto Protocol Implementation Act (Bill C-288)'" National Roundtable on the Environment and the Economy (annually, 2007-2011).
- Leach, Andrew. "GHG Emissions Policies for Alberta: Current strengths and weaknesses, key future threats, and a proposed policy solution for the Province of Alberta" Alberta Environment, July, 2009.
- Leach, Andrew and Dave Sawyer. "An evaluation of the modeling and information transmittal process used for the development of Alberta's 2008 Climate Change Strategy" Office of the Auditor General of Alberta, July, 2008.
- Leach, Andrew. "Policy Options for Carbon Capture and Storage" Alberta CCS Development Council, 2008.
- Leach, Andrew and C. Robert Clark. "The determinants of demand for natural gas: a review of the literature" Gaz Métropolitain, July, 2006.

## MAJOR GRANTS

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- Social Sciences and Humanities Research Council** Partnership Development Grant 611-2021-0218, \$200,000 (co-applicant. Grant holder is Jennifer Winter, University of Calgary), 2023.
- National Science and Engineering Research Council (NSERC)** Alliance Missions Grant 577-081-2022, \$1,500,000 (Co-investigator. Grant holder is Sylvia Sleep, University of Calgary), 2022.
- Social Sciences and Humanities Research Council** Connection Grant 611-2021-0218, \$24,454 (co-investigator. Grant holder is Blake Shaffer, University of Calgary), 2022.
- Canada First Excellence Research Fund:** One of ten principal researchers for the Future of Energy Systems Institute grant, University of Alberta, \$75,000,000 over 7 years, 2016.
- Social Sciences and Humanities Research Council** Insight Development Grant 430-2014-0275, \$58,630 over 2 years, 2014.
- Sustainable Prosperity** Project grant with Branko Boskovic, \$8000, 2014.
- Social Sciences and Humanities Research Council** Insight Development Grant 430-2012-0079, \$45,612 over 2 years, 2012.
- Social Sciences and Humanities Research Council** Collaborator, Alberta Climate Dialogue (ABCD), Community-University Research Alliances, \$1 million over 6 years, 2010.
- Social Sciences and Humanities Research Council** Standard Research Grant, Grant Number 410-2009-1044, \$18600 over 3 years, 2009.
- Social Sciences and Humanities Research Council** Sustainable Prosperity Network Grant, \$1.8 million over 7 years, 2008.
- Fonds québécois de la recherche sur la société et la culture (FQRSC)** Team Grant, \$332 200 over 4 years, with G. Dionne, R. Gagné, P. Lanoie, P. François, and B. Dostie, 2005.

## SERVICE AND PUBLIC ENGAGEMENT

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### House of Commons Standing Committee Testimony:

[Natural Resources \(RNNR\)](#), 44th Parl, 1st Sess, October 30, 2023.  
[Natural Resources \(RNNR\)](#), 44th Parl, 1st Sess, Feb. 28, 2022.  
[Environment and Sustainable Development \(ENVI\)](#), 42nd Parl, 1st Sess, Jan. 28, 2019.  
[Finance \(FINA\)](#), 42nd Parliament, 1st Session, May 7, 2018.  
[Transport, Infrastructure and Communities \(TRAN\)](#), 42nd Parl, 1st Sess, Oct. 31, 2017.  
[Finance \(FINA\)](#), 41st Parl, 2nd Sess, Mar. 10, 2015.

### Senate Standing Committee Testimony:

[Energy, Environment, and Natural Resources](#), 44th Parl, 1st Sess, Feb 14, 2023.  
[Transport and Communications](#), 42nd Parl, 1st Sess, Apr. 30, 2019.  
[Energy, the Environment and Natural Resources](#), 42nd Parl, 1st Sess, May 10, 2016.  
[Energy, the Environment and Natural Resources](#), 41st Parl, 1st Sess, Nov. 30, 2011.

### Selected Recent Invited Speaking Engagements (\* denotes virtual/hybrid event):

#### 2023:

Max Bell Lecturer, *Between Doom and Denial: the little lies and half-truths that we tell ourselves about climate change*, Ottawa, Montreal, and Calgary lectures in October and November, 2023.  
 Energy Bar Association, Law and Economics Forum, *The Importance of Data and Planning in Electrification*, Calgary, AB.  
 Alberta Electric System Operator, Annual Economics Conference, Calgary, AB. \*  
 Keynote panelist, *Energy Policy in the Face of Global Instability (Organized by the World Council of Environmental and Resource Economics Associations)*, Association of Environmental and Resource Economists (AERE) Annual Summer Conference, June 2023, Portland, ME.  
 Guest Lecture, Institute for Public Economics, *How much does the world need Canadian oil and gas? The oil sands and LNG in a climate-constrained world*, March 13, 2023, Edmonton, AB.  
 Keynote speaker, SDG Discussion Panel, *Climate change policy in a time of crisis, war, and rapidly evolving technology*, International Week, University of Alberta, Edmonton, AB.

#### 2022:

Guest Lecture, University of Western Ontario, London, ON.\*  
 Luncheon keynote, Canadian Bar Association, Environment Division, Edmonton, AB.\*  
 Conference presentation, Canadian Tax Policy Conference, *Greening the Economy with Fiscal Policy*, Canadian Tax Foundation, Toronto, ON.  
 Conference presentation, Canadian Resource and Environmental Economics Association, Saskatoon, SK.  
 Conference presentation, Global Conference on Environmental Taxation, Parma, Italy.\*  
 Guest Lecture, Mount Royal University, Calgary, AB.\*  
 Invited presentation, Friends of the Edmonton Public Library, Edmonton, AB.\*  
 Invited presentation, Canadian Economics Association Annual Meetings, Ottawa, ON.\*  
 Invited seminar, University of British Columbia (Okanagan), Kelowna, BC.\*  
 Invited presentation, University of Texas (Austin) LBJ School of Public Administration.\*

#### 2021:

Keynote panelist, GCET21: Twenty-First Global Conference on Environmental Taxation.\*  
 Invited speaker, [Coalition of Finance Ministers for Climate Action](#), Stockholm, Sweden.\*  
 Keynote speaker, APEGGA, Fort McMurray, AB.\*  
 Luncheon keynote, Canadian Association of Business Economists (CABE), Toronto, ON.\*  
 Moderator, Canadian Association of Members of Public Utility Tribunals (CAMPUT) Conference.\*  
 Invited speaker, Edmonton Airports Board of Directors and Executive Team, Edmonton, AB.\*  
 Invited speaker, Canada School of the Public Service, Ottawa, ON.\*  
 Invited speaker, Federal Deputy Ministers' Environment and Climate Change Committee, Ottawa, ON.\*  
 Luncheon keynote, CPA Edmonton Chapter, Edmonton, AB.\*

#### 2020:

Invited presentation, Alberta Electric System Operator, Calgary, AB.\*

Invited presentation, Athabasca Chipewyan First Nation (ACFN), Fort McMurray, AB.\*  
 Luncheon keynote, Economic Society of Northern Alberta (ESNA), Edmonton, AB.\*  
 Invited presentation, Privy Council Office, Ottawa, ON.\*  
 Invited panelist, Carbon pricing workshop, NYU Wagner Graduate School of Public Service, New York, NY.\*  
 Luncheon keynote, Canadian Bar Association, Environment Division, Edmonton, AB.  
 Invited speaker, Federal Cabinet Retreat, Winnipeg, MB.  
 Invited seminar, Rural Economics and Environmental Sociology, University of Alberta, Edmonton, AB.

## 2019:

Keynote speaker, International Symposium on Sustainable Systems and Technology (ISSST). Portland, OR.  
 Invited speaker, Economics of Environmental Policy Workshop, University of Ottawa, Ottawa, ON.  
 Invited panelist, Alberta Investment Management Corporation (AIMCO) Annual Investor's Forum  
 Invited speaker, Federal Deputy Ministers' Environment and Climate Change Committee, Ottawa, ON.

## 2018:

Keynote speaker, Economic Society of Northern Alberta (ESNA): Outlook 2019 Conference, Edmonton, AB.  
 Invited speaker, Asia-Pacific Energy Research Centre Annual Conference, Tokyo, Japan.  
 Invited panelist, World Congress of Environment and Resource Economists, Gothenburg, Sweden.  
 Invited seminar, Waterloo Resource and Environmental Economics Workshop, Waterloo, ON.  
 Invited speaker, Ivey Annual Workshop on the Economics of Electricity Policy and Markets, Toronto, ON.  
 Invited panelist, Carleton University Centre for European Studies workshop, Ottawa, ON.  
 Invited speaker, Canadian Bar Association, Natural Resources Section, Calgary Chapter.  
 Invited speaker, Canadian Bar Association, Environment Section, Edmonton Chapter.

## 2017:

Keynote speaker, Canada 150 Lecture Series, Statistics Canada, Ottawa, Canada.  
 Luncheon keynote, Canadian Bar Association, Energy and Resources Law Section, Edmonton Chapter.  
 Invited speaker, Credit Suisse Client Workshop, Toronto, ON.  
 Keynote speaker, University of Alberta President's Alumni Reception, Vancouver, BC.  
 Invited speaker, Enbridge Board of Directors. Calgary, AB.  
 Invited speaker, Berkshire Hathaway Energy Canada, Calgary, AB.  
 Keynote speaker, University of Alberta Alumni Reception, Lethbridge, AB.  
 Invited seminar, Vancouver School of Economics, University of British Columbia, Vancouver BC.  
 Public lecture, University of British Columbia, Vancouver, BC.  
 Invited panelist, Atlantic Economic Association, Antigonish, NS.  
 Invited speaker, Edmonton Chamber of Commerce, Environment Committee  
 Luncheon keynote, Bennett Jones private event, Calgary, AB.  
 Luncheon keynote, Ottawa Economics Association, Ottawa, ON  
 Invited speaker, First Energy Capital Annual Investor Conference, Toronto, ON.

## Opinion writing and knowledge mobilization:

I've contributed [more than 200 opinion pieces](#) on energy and environmental policy in major outlets including the [CBC \(aleach.ca/opinion/cbc\\_archive\)](#), the [Globe and Mail \(aleach.ca/opinion/globe\\_archive\)](#), and [Maclean's \(aleach.ca/opinion/macleans\\_archive\)](#), along with infrequent contributions to other outlets such as Alberta Oil Magazine, Policy Options and The National Post. I have also written several pieces recently in the University of Calgary's [ABLawg](#), a peer-reviewed law blog. I wrote frequently for my [personal blog \(aleach.ca/opinion/blog\)](#) for many years, but do so less frequently now. I maintain a [data projects page \(aleach.ca/project\)](#) as well as a GitHub repository ([github.com/leachandrew](#)) through which research code and general interest data visualization resources are available. All linked sources are accessible via my website at [aleach.ca](#).

## Academic Service:

In the past five years, I have served as a referee for *Energy Policy*, *Journal of Environmental Economics and Management*, the *Journal of Economic Dynamics and Control*, the *Canadian Journal of Economics*,

*Canadian Public Policy*, *SPP Communiqué*, the *Energy Journal*, the *Journal of the Association of Environmental and Resource Economists* (JAERE), *Macroeconomic Dynamics*, *Joule*, *Environmental and Resource Economics*, *Climate Policy*, *Resource and Energy Economics*, and *The International Review of Environmental and Resource Economics*. I have previously served on the Editorial Council for the *Journal of Environmental Economics and Management* (2012-2015) and the *Journal of the Association of Environmental and Resource Economists* (2019-2023).

I have served on the jury for the 2022 and 2023 Social Science and Humanities Research Council of Canada (SSHRC) Impact Awards, and on the External Advisory Committee for Statistics Canada's Canadian Centre for Energy Information. I have previously served on the selection committee for SSHRC Insight Development Grants.

I have served as an external examiner for doctoral thesis defences at the University of Victoria, HEC Montréal, the University of Calgary, the University of Toronto, the University of British Columbia, Queen's University, and the University of Ottawa. At the University of Alberta, I have served on many thesis examination committees in the Departments of Economics, Rural Economics and Environmental Sociology, and in the Faculty of Engineering. I have supervised or co-supervised two Ph.D. students in the Department of Economics (James Lin and Samuel F. Gamtessa), and currently co-supervise a Ph.D. candidate (Gloria Duran-Castillo) in the Department of Mechanical Engineering. I have also supervised Master's students in Mechanical Engineering and Economics. The Alberta School of Business, my primary employer, does not have thesis-based graduate programs in my research area.

At the University of Alberta, I serve on the campus Master Energy Plan advisory committee. I served until 2022 as the Academic Director (senior leader) for the Center for Applied Business Research in Energy and the Environment (CABREE) as well as serving on the Energy Systems Curriculum Committee. I have previously served on the School of Business Undergraduate Studies Policy Committee (USPC), on multiple recruiting committees in the School of Business and the Department of Economics, and on the Future Energy Systems Institute Advisory Board.

CABREE hosted an annual (pre-COVID) energy practitioners' conference from 2016 through 2019, and I have twice organized the Canadian Resource and Environmental Economics study group meetings. Over the past 5 years, I have evaluated submissions for three AERE summer meetings, the 2019 IEEE Canadian Conference on Electrical & Computer Engineering (CCECE), the 2019 International Association for Energy Economics (IAEE) meetings in Montreal, and the World Congress of Environmental and Resource Economists (WCERE).

I am currently a member of the American Economics Association, the Association of Environment and Resource Economists (AERE), the Canadian Economics Association (CEA). I previously served as both a Board Member and President of , the Economic Society of Northern Alberta (ESNA), as well as on the Environment Committee for the Edmonton Chamber of Commerce.

### **Community Service:**

I serve as a Board Member and Vice-Chair for the REACH Edmonton Council for Safer Communities (2019-present) and as a Board Member and Treasurer for Edmonton's Juventus Cycling Club (2021-present). I have previously service as a Board Member for the River Valley Alliance (2017-2019) and as a Director for the Edmonton Girls' Hockey Association.