

# JENNIFER WINTER, PhD

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This version: June 2020

## PROFESSIONAL EXPERIENCE

- 2020 – Associate Professor, Department of Economics, University of Calgary
- 2016 – Scientific Director, Energy and Environmental Policy, School of Public Policy, University of Calgary
- 2017 – 2020 Assistant Professor (Tenure Track), Department of Economics, University of Calgary
- 2015 – 2017 Assistant Professor (Limited Term), Department of Economics, University of Calgary
- 2015 – 2018 Director, Canadian Network for Energy Policy Research and Analysis, School of Public Policy, University of Calgary
- 2014 – 2015 Associate Director, Energy and Environmental Policy, School of Public Policy, University of Calgary
- 2012 – 2014 Research Associate, Energy and Environmental Policy, School of Public Policy, University of Calgary
- 2011 – 2012 Research Advisor, Labour Program, Human Resources and Skills Development Canada

## OTHER AFFILIATIONS

- 2020 – Director, Canadian Society for Unconventional Resources
- 2019 – Mitigation Expert Panel Member, Canadian Institute for Climate Choices
- 2018 – Member, City of Calgary Climate Panel
- 2017 – Member, Environmental Assessment Advisory Group, Global Affairs Canada
- 2017 – Treasurer, World Petroleum Council Canada Future Leaders
- 2016 – Treasurer, Canadian Resource and Environmental Economics Association
- 2014 – Board Member, World Petroleum Council Canada Future Leaders

## EDUCATION

- University of Calgary, PhD in Economics, 2011
- DISSERTATION: “Essays on Government Policy and the Development of Natural Resources”
- University of Calgary, MA in Economics, 2007
- University of Calgary, BA in Economics (First Class Honours), 2005

## ACADEMIC PUBLICATIONS

- Rioux, Jean-Sebastien & Jennifer Winter. 2020 (in press). “Forks in the Road: Energy Policies in Canada and the US since the Shale Revolution.” *The American Review of Canadian Studies*.
- Tombe, Trevor & Jennifer Winter. 2020 (in press). “Fiscal Integration with Internal Trade: Quantifying the Effects of Equalizing Transfers.” *Canadian Journal of Economics*.

Winter, Jennifer. 2020. "Carbon Pricing in a Federal State: The Case of Canada." *ifo DICE Report - Journal for Institutional Comparisons* 18(1), 13-19. <https://www.ifo.de/en/publikationen/2020/article-journal/carbon-pricing-federal-state-case-canada>.

Tombe, Trevor & Jennifer Winter. 2015. "Environmental Policy and Misallocation: The Productivity Effect of Intensity Standards," *Journal of Environmental Economics and Management* 72: 137-163, July. doi: <https://doi.org/10.1016/j.jeem.2015.06.002>.

#### PEER-REVIEWED POLICY ARTICLES

Winter, Jennifer, Victoria Goodday & G. Kent Fellows. 2019. "Enabling Partial Upgrading in Alberta: A Review of the Regulatory Framework and Opportunities for Improvement," *The School of Public Policy Publications* 12 (December). <https://doi.org/10.11575/sppp.v12i0.68199>.

Dobson, Sarah, Jennifer Winter & Brendan Boyd. 2019. "The Greenhouse Gas Emissions Coverage of Carbon Pricing Instruments for Canadian Provinces." *The School of Public Policy Publications* 12 (February). <https://doi.org/10.11575/sppp.v12i0.53155>.

Dobson, Sarah & Jennifer Winter. 2018. "Assessing Policy Support for Emissions Intensive and Trade Exposed Industries." *The School of Public Policy Publications* 11 (October). <https://doi.org/10.11575/sppp.v11i0.43673>.

Winter, Jennifer, Sarah Dobson, G. Kent Fellows, Dexter Lam & Paul Craig. 2018. "The Potential for Canadian LNG Exports to Europe." *The School of Public Policy Publications* 11 (July). <https://doi.org/10.11575/sppp.v11i0.53162>.

Dobson, Sarah, G. Kent Fellows, Trevor Tombe & Jennifer Winter. 2017. "The Ground Rules for Effective OBAs: Principles for Addressing Carbon-Pricing Competitiveness Concerns through the Use of Output-Based Allocations." *The School of Public Policy Publications* 10 (June). doi: <http://dx.doi.org/10.11575/sppp.v10i0.42633>.

Fellows, G. Kent, Robert Mansell, Ronald Schlenker & Jennifer Winter. 2017. "Public-Interest Benefit Evaluation of Partial-Upgrading Technology." *The School of Public Policy Publications* 10 (January). doi: <http://dx.doi.org/10.11575/sppp.v10i0.42615>.

Colton, John, Kenneth Corscadden, Stewart Fast, Monica Gattinger, Joel Gehman, Martha Hall Findlay, Dylan Morgan, Judith Sayers, Jennifer Winter, & Adonis Yatchew. 2016. "Energy Projects, Social Licence, Public Acceptance and Regulatory Systems in Canada: A White Paper." *The School of Public Policy Publications* 9 (May). doi: <http://dx.doi.org/10.11575/sppp.v9i0.42589>.

Dobson, Sarah & Jennifer Winter. 2015. "The Case for a Carbon Tax in Alberta." *The School of Public Policy Publications* 8 (November). doi: <http://dx.doi.org/10.11575/sppp.v8i0.42549>.

Moore, Michal C., David Hackett, Leigh Noda, Jennifer Winter, Roman Karski, & Mark Pilcher. 2014. "Risky Business: The Issue of Timing, Entry and Performance in the Asia-Pacific LNG Market." *The School of Public Policy Publications* 7 (July). doi: <http://dx.doi.org/10.11575/sppp.v7i0.42470>.

Moore, Michal C., André Turcotte, & Jennifer Winter. 2014. "Aboriginal-Canadians and Energy Literacy: A Survey of Opinions and Thoughts on Energy." *The School of Public Policy Publications* 7 (February). doi: <http://dx.doi.org/10.11575/sppp.v7i0.42458>.

Winter, Jennifer & Michal C. Moore. 2013. "The 'Green Jobs' Fantasy: Why the Economic and Environmental Reality Can Never Live Up to the Political Promise." *The School of Public Policy Publications* 6 (October). doi: <http://dx.doi.org/10.11575/sppp.v6i0.42444>.

- Tombe, Trevor & Jennifer Winter. 2013. "The Importance of Policy Neutrality for Lowering Greenhouse Gas Emissions." *The School of Public Policy Publications* 6 (March). doi: <http://dx.doi.org/10.11575/sppp.v6i0.42427>.
- Moore, Michal C., André Turcotte, Jennifer Winter & P. Bernard Walp. "Energy and Energy Literacy in Canada: A Survey of Business and Policy Leadership." *The School of Public Policy Publications* 6 (February). doi: <http://dx.doi.org/10.11575/sppp.v6i0.42421>.
- Hackett, David, Leigh Noda, Susan W. Grissom, Michal C. Moore & Jennifer Winter. 2013. "Pacific Basin Heavy Oil Refining Capacity." *The School of Public Policy Publications* 6 (February). doi: <http://dx.doi.org/10.11575/sppp.v6i0.42417>.
- Turcotte, André, Michal C. Moore & Jennifer Winter. 2012. "Energy Literacy in Canada." *The School of Public Policy Publications* 5 (October). doi: <http://dx.doi.org/10.11575/sppp.v5i0.42402>.
- Mansell, Robert, Jennifer Winter, Matt Krzepkowski & Michal C. Moore. 2012. "Size, Role and Performance in the Oil and Gas Sector." *The School of Public Policy Publications* 6 (February). doi: <http://dx.doi.org/10.11575/sppp.v5i0.42395>.

#### **BOOK CHAPTERS AND MONOGRAPHS**

- Winter, Jennifer. 2019. "Environmental Policy Transformations." Invited chapter in *Policy Transformation in Canada: Is Past Prologue?*, Peter John Loewen, Carolyn Hughes Tuohy, Andrew Potter and Sophie Borwein, eds. University of Toronto Press.
- Winter, Jennifer. 2019. "Canada's Role in Global Energy Markets." 2019. Invited chapter in *Energy and Geostrategy, 6<sup>th</sup> Edition*. Ministerio De Defensa Press, Spain.
- Winter, Jennifer. 2017. "The Effect of Carbon Pricing on Canadian Households." Briefing Note to the Senate of Canada, Standing Committee on Energy, the Environment and Natural Resources.
- Winter, Jennifer. In press. "Making Energy Policy: The Canadian Experience." Invited chapter in *Meeting the Paris Mandate: A Cross-national Comparison of Energy Policy-making*, Patrice Geoffron, Lorna A. Greening, and Raphael Heffron, eds. Springer.
- Boyd, Brendan & Jennifer Winter. *Protest and Partnership: Indigenous Peoples, Consultation and Engagement, and Resource Development in Canada* (co-edited book). Under review.

#### **REPORTS**

- Goodday, Victoria, Jennifer Winter & Alana Westwood. 2020. "Public-Interest Determination for Infrastructure Development: A Review of Guidance and Practice in Canada." Knowledge Synthesis Report prepared for the Social Sciences and Humanities Research Council.
- Fellows, G. Kent, Victoria Goodday & Jennifer Winter. 2019. "A Review of Barriers to Full-Scale Deployment of Emissions-Reduction Technologies." Report prepared for Emissions Reduction Alberta.
- Winter, Jennifer & Akash Asif. 2018. "Comprehensive Assessment of Regulatory Programs." Report to the Treasury Board of Canada Secretariat. June.
- Boyd, Brendan, Jessie Arthur & Jennifer Winter. 2018. "Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities: Phase 2 Analysis." Report to the PAME Working Group of the Arctic Council. March.

Boyd, Brendan, Sophie Lorefice & Jennifer Winter. 2017. “Indigenous, Industry and Government Perspectives on Consultation in Resource Development,” Knowledge Synthesis Report prepared for the Social Sciences and Humanities Research Council.

Winter, Jennifer, Sarah Dobson & Sophie Lorefice. 2016. “Hydraulic Fracturing and Public Policy.” Knowledge Synthesis Report prepared for the Social Sciences and Humanities Research Council.

#### **WORKING PAPERS**

Johnson, David & Jennifer Winter. “Alberta Oil and Gas Leases: Testing Competing Institutions.”

Winter, Jennifer. “Buying Anonymity: An Investigation of Petroleum and Natural Gas Lease Auctions”

Winter, Jennifer, Brett Dolter & G. Kent Fellows. “Carbon Pricing Costs for Households and Revenue Recycling Options in Canada.”

Winter, Jennifer & J. C. Herb Emery. “Estimating the Credibility of the Co-operative Commonwealth Federation’s Threat to Nationalize Oil Resources in Saskatchewan.”

#### **RESEARCH IN PROGRESS**

Dobson, Sarah, Jennifer Winter & G. Kent Fellows. “EITE Definitions and Policy Coverage.”

Fellows, G. Kent & Jennifer Winter. “Economic Impact Assessments: Comparing CGE to IO Models.” Chapter in *Measuring the Contribution of Energy Infrastructure: A Practical Guide*, Jennifer Winter and Trevor Tombe, eds.

Shaffer, Blake & Jennifer Winter. “Carbon pricing and energy poverty: The effect of environmental policy on households’ ability to afford energy services.”

Shaffer, Marvin, Blake Shaffer & Jennifer Winter. “A Multiple-Account Approach to Benefit-Cost Analysis.” Chapter in *Measuring the Contribution of Energy Infrastructure: A Practical Guide*, Jennifer Winter and Trevor Tombe, eds.

Stewart, Fenner, Andrew Leach & Jennifer Winter. “A Federal Backstop to Provincial Carbon Pricing: Decarbonization in an Age of Uncooperative Federalism.”

Winter, Jennifer & Akash Asif. “Comprehensive Assessment of Regulatory Programs.”

Winter, Jennifer, Sefik Bagdadioglu, Sarah Dobson, Kent Fellows, Sophie Lorefice & Sean Keown. “Market Opportunities for Canadian Oil.”

Winter, Jennifer & Trevor Tombe. *Measuring the Contribution of Energy Infrastructure: A Practical Guide* (co-edited book). In progress.

#### **OTHER POLICY PAPERS**

Masson, Richard & Jennifer Winter. 2020. “Addressing the Threat of COVID-19 and the Oil Price War in the Petroleum Sector.” *The School of Public Policy Publications* (Policy Trends) 13 (March).

Fellows, G. Kent, Victoria Goodday, Rabia Ladha & Jennifer Winter. 2019. “Energy and Environmental Policy Trends: Our Planet in 2040 – Comparing World Energy Outlooks.” *The School of Public Policy Publications* (Policy Trends) 12 (July). <https://doi.org/10.11575/sppp.v12i0.68679>.

Tombe, Trevor & Jennifer Winter. 2019. “Energy and Environmental Policy Trends: Carbon Tax Costs Vary Widely Across Households.” *The School of Public Policy Publications* (Policy Trends) 12 (March).

- Winter, Jennifer, Sarah Dobson, G. Kent Fellows, Dexter Lam & Paul Craig. 2018. “An Overview of Global Liquefied Natural Gas Markets and Implications for Canada.” *The School of Public Policy Publications* (Briefing Paper) 11 (July). <https://doi.org/10.11575/sppp.v11i0.53162>.
- Winter, Jennifer & Sam Green. 2018. “Energy and Environmental Policy Trends: The Growing Opportunity for LNG in China.” *The School of Public Policy Publications* (Policy Trends) 11 (June). <https://doi.org/10.11575/sppp.v11i0.53017>.
- Winter, Jennifer & Sarah Dobson. 2016. “Who is Getting a Carbon-Tax Rebate?” *The School of Public Policy Publications* (Communique) 9 (June). doi: <http://dx.doi.org/10.11575/sppp.v9i0.42595>.
- Beach, Shantel, Andrew Wilkins & Jennifer Winter. 2014. “The Future of Energy Regulation and Policy Development: A Summary Paper.” *The School of Public Policy Publications* (Summary Paper) 7 (July). doi: <http://dx.doi.org/10.11575/sppp.v7i0.42472>.
- Jennifer Winter. 2014. “Safety in Numbers: Evaluating Canadian Rail Safety Data,” *The School of Public Policy Publications* (Communique) 7 (April). doi: <http://dx.doi.org/10.11575/sppp.v7i0.42913>.
- Mintz, Jack, Ronald D. Kneebone, F. L. Ted Morton & Jennifer Winter. 2014. “Policy Advice to Alberta’s New Premier,” *The School of Public Policy Publications* (Communique) 7 (September). doi: <https://doi.org/10.11575/sppp.v7i0.42482>.
- Jennifer Winter. 2013. “Grasping at Straws: Comments on the Alberta Pipeline Safety Review.” *The School of Public Policy Publications* (Communique) 6 (October). doi: <http://dx.doi.org/10.11575/sppp.v6i0.42442>.
- Tombe, Trevor & Jennifer Winter. 2013. “Shouldn’t all policy be science-based?” *Policy Options*, June (invited contribution).
- Holburn, Guy, Patrick McNaught, M. C. Moore & Jennifer Winter. 2013. “Wind Energy in Canada: A Survey of the Policy Environment,” Ivey Business School Policy Brief (June).

## OTHER

Various general-interest articles and op-eds in *Alberta Views*, *The Hill Times*, *Calgary Herald*, *JWN News*, *The Globe and Mail*, *Edmonton Journal*, *Vancouver Sun*.

Several blog posts on The School of Public Policy’s blog.

## RESEARCH GRANTS

Emissions Reduction Alberta (\$15,500). Principal Investigator for *A Review of Barriers to Full-Scale Deployment of Emissions-Reduction Technologies*: 2019.

SSHRC Knowledge Synthesis Grant (\$30,000). Principal Investigator for *Public interest determination in environmental decision-making*: 2019-2020.

University of Calgary Global Research Initiative in Sustainable Low Carbon Unconventional Resources (\$181,000), Principal Investigator for *Methane Emissions Policy and Regulation in Canada: Assessing Options and Effectiveness*: 2019-2023.

Government of British Columbia (\$35,000), Principal Investigator for *Basic Income, Basic Services and Energy Transition*: 2018-2020.

SSHRC Partnership Grant (\$2,500,000), Co-Investigator for *Greening Growth Partnership*: 2018-2022. PI: Stewart Elgie, University of Ottawa.

Smart Prosperity Institute (\$48,000), Principal Investigator for *Carbon Pricing Costs for Households and Revenue Recycling Options in Canada*: 2018-2020 (project grant).

Alberta Innovates (\$74,000), Principal Investigator for *Regulation of Partial Upgrading in Alberta*: 2018-2019

Government of Canada (\$10,000), Principal Investigator for *Best practices in Regulation Development & Management*: 2018

SSHRC Partnership Development Grant (\$200,000), Principal Investigator for *Canadian Northern Corridor*: 2018-2020.

University of Calgary Faculty Seed Grant (\$15,000), Principal Investigator for *Canadian Methane Policy and Regulation*: 2018-2019.

Protection of the Arctic Marine Environment (\$15,000), Principal Investigator for *Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities*: 2018.

NSERC CREATE (\$1,650,000), Co-Investigator for *Responsible Development of Low-Permeability Hydrocarbon Resources (the ReDeveLoP Challenge)*: 2017-2022. PI: David Eaton, University of Calgary.

Alberta Innovates (\$50,000), Principal Investigator for *Partial Upgrading Impact Study*: 2016.

SSHRC Knowledge Synthesis Grant (\$25,000), Principal Investigator for *Indigenous, Industry and Government Perspectives on Consultation in Resource Development*: 2016-2017.

SSHRC Knowledge Synthesis Grant (\$25,000), Principal Investigator for *Hydraulic Fracturing and Public Policy*: 2015-2016.

SSHRC Insight Development Grant (\$40,810), Collaborator for *Internal Trade and Aggregate Productivity*: 2012-2015. PI: Trevor Tombe, University of Calgary.

#### **FUNDS SECURED FOR THE SCHOOL OF PUBLIC POLICY**

Government of Alberta (\$1,665,000), *Canadian Northern Corridor*: 2019-2022.

Alberta Real Estate Foundation (\$120,000), *Airbnb and the Secondhand Economy and Managing the End of Life of Oil and Gas Wells in Alberta*: 2019-2021.

Canadian Association of Petroleum Producers (\$50,000), *Energy for Life Program*: 2018.

Canadian Energy Pipeline Association (\$50,000), *Student Research Fellowships*: 2017-2021.

Alberta Innovates (\$40,000), *Alternative Emissions-Accounting Project*: 2016-2017.

Government of Alberta (\$30,000), Advisory services to the Energy Diversification Advisory Committee, 2017.

#### **COVID-19 PRESENTATIONS, SEMINARS OR PANELS**

2020 Emissions Reduction Alberta, Alberta's Energy Future (scheduled); European Association of Environmental and Resource Economists 25<sup>th</sup> Annual Conference (scheduled).

#### **INVITED CONFERENCE PRESENTATIONS, SEMINARS OR PANELS**

2019 CBS Inequality Platform's 1st Workshop on Climate Change and Inequality, Copenhagen (withdrew); Atlantic Canada Economics Association, Annual Conference, Moncton; energy3 – Canada's Energy Conference, Halifax; Canadian Resource and Environmental Economics Association, Annual Conference, Charlottetown; World Petroleum Council 6<sup>th</sup> Future Leaders Forum, St. Petersburg, Russia; Congress of the Humanities and Social Sciences and Canadian Political Science Association, Annual Conference, Vancouver; Canadian Economics Association, Annual Conference, Banff; Environment and Climate Change Canada, Carbon Pricing Workshop, Paris; Instituto Español de Estudios Estratégicos and Repsol, Energy and Geostrategy 2019, Madrid; McGill Institute for the Study of Canada Annual Conference, Montreal; Calgary Association of Lifelong Learners, Science and Environment Speaker Series, Calgary; Canadian Society of Exploration Geophysicists, Technical Luncheon, Calgary.

2018 School of Public Policy, Measuring the Impacts of Energy Infrastructure, Ottawa; Haskayne School of Business, Haskayne Hour, Opportunities Down the Pipe: Influences on successful Indigenous and industry relationships, Calgary; Council for Clean and Reliable Energy, Energy Leaders Roundtable,

Kananaskis; University of Calgary, Sustainable Development Goals Summit: Local Action, Global Impact (keynote), Calgary; Yukon First Nations Chamber of Commerce, Arctic Indigenous Investment Conference, Yellowknife; Global Petroleum Show 2018, Calgary; Ecofiscal Commission, School of Public Policy and the Max Bell School of Public Policy, Bridging Divides: In Search of Sound Public Policies for Energy and Environment in Canada, Calgary; Canadian Society for Unconventional Resources, Fractured Ground: Hydraulic Fracturing and Public Policy, Calgary; Treasury Board Secretariat of Canada; Regulatory Review Knowledge Synthesis Roundtable, Ottawa; University of Calgary, Calgary and Beyond: Sustainability Next 20 Years speaker series, Calgary; University of Calgary, Department of Geoscience, Friday Afternoon Talk Series, Calgary; Thompson Rivers University, School of Business and Economics Seminar Series, Kamloops.

- 2017 Mowat Centre, Confederation of Tomorrow 2.0, Toronto; Delphi Group, Energy Sector Sustainability Leadership Initiative workshop, Calgary; University of Toronto School of Public Policy and Governance, Canada's Policy Transformations: The Last 50 Years and the Next 50, Toronto; Energy *In Society*, Global Energy Transition Workshop, Calgary; SSHRC, Forum on Indigenous, Industry and Government Perspectives on Consultation in Resource Development, Ottawa; Global Petroleum Show, Low Carbon Innovation Forum, Calgary; Atlantic Canada Economics Association Annual Meeting, Antigonish; APEGA Calgary Branch Luncheon, Calgary; CAMPUT: Canada's Energy and Utility Regulators, CAMPUT Annual Conference, Vancouver; Canadian Heavy Oil Association, Technical Panel Presentation, Calgary; Webber Academy, The President's Breakfast Club ATB Financial Speaker Series, Calgary; Alberta Beef Industry Conference, Red Deer; Senate of Canada, testimony to Standing Committee on Energy, the Environment and Natural Resources (webcast), Calgary; University of Calgary, Faculty of Arts Speakeasy, Calgary; University of Calgary, Department of Geoscience, Friday Afternoon Talk Series, Calgary.
- 2016 Canadian Society of Petroleum Geologists Environment Division, lunch and learn series, Calgary; The Energy Roundtable, 2016 Calgary Energy Roundtable, Calgary; International Right of Way Association Chapter 48, IRWA Chapter 48 Education Symposium, Calgary; The Canadian Institute, Environmental Law and Regulation conference, Calgary; Canadian Independent Petroleum Marketers Association, Western Members Meeting (keynote), Calgary; Arctic Energy and Emerging Technologies Conference and Tradeshow, Inuvik; Energy and Mines Ministers' Conference, National Workshop on Public Confidence in Energy and Mining Development, Winnipeg; Alberta Utilities Commission, Energy Regulatory Forum, Calgary; CAMPUT: Canada's Energy and Utility Regulators, CAMPUT Annual Conference, Montreal; Canadian Prairie & Northern Section Air & Waste Management Association, CPANS Annual Conference, Calgary; Runnymede Society, Keystone XL: Pipelines, Policy & Politics, Calgary; Ecofiscal Commission, Federal Provincial Carbon Coordination webinar.
- 2015 SSHRC and Natural Resources Canada, Knowledge Symposium on Energy & Natural Resources, Ottawa; Calgary Chamber of Commerce, How will global markets and FX rates affect your business in 2016?, Calgary; Energy Council of Canada, Energy Summit, Toronto; Biorefining Conversions Network, Green Chemistry Workshop, Edmonton; Canada Science and Technology Museums Corporation, Let's Talk Energy webinar; Chartered Professional Accountants, Canada Tax Symposium West (keynote), Calgary; National Public Relations LNG Forum, Ottawa; Canadian Political Science Students' Association National Conference, Calgary.



- 2014 Israel Defense: Energy 2015, Tel Aviv; 2<sup>nd</sup> Annual Canadian NGL Markets, Infrastructure & LPG Exports, Calgary; Petroleum Acquisition and Divestitures Association, Calgary; Alberta GHG Summit, Calgary; Canadian Resource and Environmental Economics Study Group Annual Conference, Saskatoon; Brookings Institution Natural Gas Task Force, Washington D.C.; BP Canada Energy Group Customer Forum, Banff; Alberta's Energy Future (panel organized by the Liberal Party of Canada), Calgary; University of Calgary, Department of Economics Alumni Conference; Canadian Economics Association Annual Meeting, Vancouver.
- 2013 Energy Literacy Directions, Kananaskis Village; Canadian Economics Association Annual Meeting, Montreal; World Petroleum Council Youth Forum, Calgary.
- 2011 Sonoma State University, Department of Economics Seminar, Sonoma; Missouri University of Science and Technology, Rolla; Department of Economics Seminar; Oklahoma State University, Spears School of Business Seminar, Stillwater; University of Alberta, School of Business Seminar, Edmonton; Canadian Economics Association Annual Meeting, Ottawa.
- 2010 University of Calgary, Department of Economics Seminar; Canadian Resource and Environmental Economics Study Group Annual Meeting, Guelph; University of Calgary, Department of Economics Workshop.
- 2009 University of Calgary, Department of Economics Summer Seminar Series; Petroleum History Society of Calgary June Meeting; University of Calgary, Department of Economics Graduate Students Mini-Conference; Canadian Economics Association Annual Meeting, Toronto.
- 2008 Canadian Economics Association Annual Meeting, Vancouver.
- 2007 Queen's University Economic History Workshop, Kingston; University of Calgary Department of Economics Workshop.

#### **MEDIA INTERVIEWS**

Appearances on all major Canadian news networks, including CBC's *The National*, and CTV's *Power and Politics* and *Alberta Primetime*.

Interviewed by print media including the *New York Times*, *Globe and Mail*, *National Post*, *Toronto Star*, *Calgary Herald*, *Vancouver Sun*, *Ottawa Hill Times*, *Alberta Oil* and *Alberta Venture*.

Interviewed by radio, both local and across Canada; includes participation in call-in shows.

#### **CONFERENCE ORGANIZATION**

Canadian Resource and Environmental Economics Association 5th Canadian PhD and Early Career Workshop, Calgary, 2019

The School of Public Policy, Measuring the Impacts of Energy Infrastructure, Ottawa, 2018

The School of Public Policy, Indigenous Policy Conference: Beyond Reconciliation, Calgary, 2016

Canadian Resource and Environmental Economics Study Group Annual Conference, Banff, 2016

The School of Public Policy Canadian Network for Energy Policy Research and Analysis Conference on Public Acceptance of Energy Projects, Ottawa, 2015

The School of Public Policy Canadian Network for Energy Policy Research and Analysis Workshop, Calgary, 2015



The School of Public Policy Labour Markets Roundtable, Calgary, 2014  
The School of Public Policy Social Licence Symposium, Calgary, 2014  
The School of Public Policy Regulatory Roundtable: Social Licence, Denver, 2014  
The School of Public Policy Risk and Its Influence on Public Policy Symposium, Calgary, 2014  
The School of Public Policy Asian Market Diversification Symposium, November 2013  
The School of Public Policy Energy Regulation Symposium, Calgary, 2013  
The School of Public Policy Regulatory Roundtable: Regulatory Hurdles, Denver, 2013  
The School of Public Policy Dutch Disease Symposium, Toronto, 2013

#### **CONFERENCE ATTENDANCE**

Canadian Resource and Environmental Economics Association Annual Conference, 2018; Canadian Economics Association Annual Meeting, 2018; Canadian Resource and Environmental Economics Study Group Annual Conference, 2017; Canadian Economics Association Annual Meeting, 2017; Canadian Resource and Environmental Economics Study Group Annual Conference, 2016; Canadian Resource and Environmental Economics Study Group Annual Conference, 2015; Canadian Economics Association Annual Meeting, 2015; Positive Energy Conference, 2015; American Economics Association Annual Meeting, 2015; Canadian Resource and Environmental Economics Study Group Annual Conference, 2014; RBN School of Energy, 2014; Canadian Resource and Environmental Economics Study Group Annual Conference, 2013; Rocky Mountain Empirical Trade Conference, 2013; Canadian Energy Research Institute Natural Gas Conference, 2013; American Economics Association Annual Meeting, 2013; Canadian Resource and Environmental Economics Study Group Annual Conference, 2012; Canadian Economics Association Annual Meeting, 2012; Canadian Resource and Environmental Economics Study Group Annual Conference, 2009; University of Calgary School of Public Policy Inaugural Conference, 2009; University of Calgary Institute for United States Policy Research Transboundary Water Policy Issues: The Western North American Region, 2008; University of British Columbia Summer Conference on Industrial Organization, 2006.

#### **TEACHING EXPERIENCE**

University of Calgary, Responsible Development of Hydrocarbons and Policy (PPOL 611.23) - Spring 2020, Spring 2019  
University of Calgary, The Multi-Faces of Israel (PPOL 611.07) - Winter 2020 (instructor of record); Winter 2019, Winter 2018 (on-location faculty supervisor for study abroad course)  
University of Calgary, Energy and Environmental Policy (PPOL 611.02) - Winter 2015, Fall 2016, Fall 2017, Fall 2018  
University of Calgary, Decision Analysis (PPOL 609) - Winter 2016, Winter 2017, Winter 2018  
University of Calgary, Intermediate Macroeconomics (ECON 303) - Spring 2010  
University of Calgary, Introductory Microeconomics (ECON 201) - Summer 2009  
Teaching Assistant, University of Calgary, 2005 – 2011

#### **Guest Lectures**

University of Calgary and Laval University, Summer School on the Geopolitics of Natural Resources (PPOL 611.21) - Spring 2014, Spring 2015, Spring 2016, Spring 2019  
University of Calgary, Dentons' International Energy Law Study Tour (Law 693) - Winter 2017, Winter 2018, Winter 2019, Fall 2019

## STUDENT SUPERVISION

Emma Dizon, MPP candidate, expected graduation Fall 2020  
Ryan Dormer, MPP candidate, expected graduation Fall 2020  
Laura Flinkfelt, MPP candidate, expected graduation Fall 2020  
Katharina Koch, postdoctoral scholar, 2020 – present  
Christian Loudon, MPP candidate, expected graduation Fall 2020  
Marcus Threndyle, MPP/JD candidate, *Developing renewable electricity generation with feed-in tariff policy*, expected graduation 2020  
Adegboyega During, PhD, *Essays in Energy and Policy Analysis*, 2019 (PhD Defence Internal Examiner)  
Alyssa Anderson, MPP, *Alberta in the Age of Renewable Power: Policy Lessons from Germany and Sweden*, 2019  
Mitchell Boyne, MPP, *Oil Change: How the Global Oil and Gas Downturn Transformed Canada's Energy Industry*, 2019  
M. Shae Doyle, MPP, *Microgeneration and Smart Grids: The Alberta Context*, 2019  
Ryan Green, MPP, *Bending the Curve: Reducing Alberta's Oil & Gas Liabilities via Timelines on Well Abandonments*, 2019  
April Kargard, MPP, *Investigation into the Effects of Resource Development Projects on Rural and Indigenous Communities*, 2019  
Braeden Edwards, MPP, *Pipelines, Public Interest, and Regulatory Change: The Public Interest Implications of Including Indirect Greenhouse Gas Emissions in Federal Environmental Assessments*, 2018  
Neuczki Mathurin, MPP, *Drilling into Policy Effectiveness: An Evaluation of Carbon Pricing Policies in Oil and Gas Jurisdictions*, 2018  
Jade McLean, MPP, *Public Perceptions of Pipeline Development in Canada*, 2018  
Graeme Davidson, MPP candidate, 2017  
Brendan Boyd, postdoctoral scholar, 2016 – 2017  
Jessie Arthur, MPP, *Carbon Capture in Alberta: Costs, Benefits, and Policy*, 2017  
Kiran Gurm, MPP, *The feasibility of reducing Nunavut's diesel reliance with a transition to renewable energy technologies, primarily solar and wind energy*, 2017  
Karen Spencer, MPP, *Four Easy Ways to Reduce Canada's GHG Emissions*, 2017  
Austin Thompson, MPP, *Evaluating For-Profit Ridesharing Regulations in Canada*, 2017  
Zainab Dadashi Forshomi, *Evaluating Oil Sands Technologies Using Life Cycle Assessment and Mathematical Optimization*, 2017 (PhD Candidacy Committee)  
Zach Biggs, MPP, *How to Protect Lower-Income Albertans from a Carbon Tax*, 2016  
Brendan Frank, MPP, *Keeping the Lights On: Renewable Power in Alberta's Post-Coal Era*, 2016  
Beth McDonald, MPP, *Examining the Role of Electoral Systems in the Policy Influence of Aboriginal Populations: A Comparative Analysis of the Canadian, Australian, and New Zealand Cases*, 2016  
Laura Johnson, MPP, *Regulation of small modular nuclear reactors in Canada*, 2015  
Julie Williams, PhD, *Environmental Leadership and Regulation: Policy Implications for Provincial Governments in Canada*, 2015 (PhD Defence External Examiner)  
E. Dylan Morgan, postdoctoral scholar, 2015

## EMPLOYEE SUPERVISION

Akash Asif, Research Assistant, School of Public Policy, 2018  
Jessie Arthur, Research Assistant, School of Public Policy, 2017 – 2019  
Kalab Begna, Research Assistant, School of Public Policy, 2018  
Mitchell Boyne, Research Assistant, School of Public Policy, 2018 – 2019

Sarah Dobson, Research Associate, School of Public Policy, 2015 – present  
 G. Kent Fellows, Research Associate, School of Public Policy, 2015 – present  
 Brendan Frank, Research Assistant, School of Public Policy, 2015 – 2016  
 Shamus Harding, Research Assistant, School of Public Policy, 2019  
 Emily Galley, Research Coordinator, School of Public Policy, 2020 – present  
 Victoria Goodday, Research Associate, School of Public Policy, 2018 – present  
 Ryan Green, Research Assistant, School of Public Policy, 2018 – 2019  
 Sam Green, Research Assistant, School of Public Policy, 2018  
 Kiran Gurm, Research Assistant, School of Public Policy, 2016 – 2017  
 Shantel Jordison, Manager, School of Public Policy, 2015 – 2016  
 April Kargard, Research Assistant, School of Public Policy, 2018 – 2019  
 Rabia Ladha, Research Assistant, School of Public Policy, 2018 – 2019  
 Hannah Lederman, Program Coordinator, 2019 – present  
 Sophie Lorefice, Research Associate, School of Public Policy, 2014 – 2017  
 Jade MacLean, Research Assistant, School of Public Policy, 2018  
 Neuczki Mathurin, Research Assistant, School of Public Policy, 2018  
 Curtis McKinney, Research Assistant, School of Public Policy, 2016  
 Kathleen Mullrooney, Research Assistant, School of Public Policy, 2019 – present  
 Alaz Munzur, Research Associate, School of Public Policy, 2020 – present  
 Kristy Peterson, Research Assistant, School of Public Policy, 2016 – 2017  
 Marina Spahlinger, Research Assistant, School of Public Policy, 2015 – 2016  
 J.C. Vito, Research Assistant, School of Public Policy, 2018 – 2019  
 Brittney Whitaker, Research Assistant, School of Public Policy, 2016 – 2017

#### **PROFESSIONAL AND COMMUNITY SERVICE**

Associate Editor (Energy and Environmental Policy), *The School of Public Policy Publications* (2015 – present)  
 Advisor, Federal Initiatives on Indigenous Relations, Government of Alberta (2018)  
 Advisory Committee, Alberta Narratives Project (2018)  
 Advisor, Energy Diversification Advisory Committee, Government of Alberta (2017)  
 Member, The School of Public Policy Graduate Program Committee (2017 – present)  
 Member, Oil Sands and Crude Oil and Liquids working groups, Alberta Royalty Review (2015 – 2016)  
 Member, The School of Public Policy Executive Committee (2015 – present)  
 Member, The School of Public Policy Engagement Committee (2016 – present)  
 Member, The School of Public Policy Graduate Admissions Committee (2015 – present)

**Refereeing:** *Canadian Journal of Economics*; *Canadian Public Policy*; *Contemporary Economic Policy*; *Energy Policy*; *Energy Research & Social Science*; *Environment, Development and Sustainability*; Frontier Centre for Public Policy; *Journal of Environmental Economics and Management*; *Journal of Economic Dynamics and Control*; Natural Resources Canada; Routledge Press; *Regulation & Governance*; Social Sciences and Humanities Research Council (Insight Grants); *The School of Public Policy Publications*.

**Conference Selection Committees:** CREEA 2019; CREEA 2018; CEA 2018; CEA 2017; CEA 2016; CREEA 2016.

**OTHER GRANTS AND AWARDS**

Canada Clean50 and Canada Clean16, 2019

Avenue Magazine, Calgary Top 40 Under 40, 2017

Alberta Oil Magazine, Top 35 under 35 in the Energy Sector, 2016

Young Women in Energy Award, 2014

**PROFESSIONAL AFFILIATIONS**

American Economics Association; Canadian Economics Association; Canadian Resource and Environmental Economics Association; Smart Prosperity Institute Economics and Environmental Policy Research Network; Young Women in Energy