

Blake Shaffer

Department of Economics
The University of Calgary
2500 University Dr. N.W.
Calgary, Alberta, T2N 1N4

Phone: (403) 220-5857
Email: blake.shaffer@ucalgary.ca
Website: www.blakeshaffer.ca
Twitter: @bcshaffer

Personal

Born: September 27, 1977
Citizenship: Canadian
Languages spoken: English and French
Software proficiency: R, Stata, Matlab, Excel, L^AT_EX

Research Interests

Energy and environmental economics, electricity markets, climate policy

Appointments and Affiliations

Assistant Professor, University of Calgary, Dept. of Economics and School of Public Policy, 2020–
Research Fellow, University of Calgary, School of Public Policy, 2019–
Energy Policy Fellow, C.D. Howe Institute, 2016–
Lab Economist, Creative Destruction Lab, 2019–
Fulbright Postdoctoral Scholar, Stanford University, 2019
Visiting Scholar, Toulouse School of Economics, Fall 2018

Editorial Positions

Co-Editor, *Resource and Energy Economics*, 2020–

Education

Ph.D. Economics, University of Calgary, 2014–2018

Dissertation: Three Essays on Electricity Demand

**Selected as the University of Calgary's nominee in the category of Fine Arts, Humanities and Social Sciences for the Canadian Association of Graduate Studies Distinguished Dissertation Award*

Committee: Dr. Trevor Tombe (Supervisor), Dr. Lucija Muehlenbachs, Dr. Ken McKenzie

Examiners: Dr. Max Auffhammer (External), Dr. Pamela Campa (Internal)

M.Phil. Economics, University of Cambridge, 2002–2003

Masters Thesis: Road congestion charging: A preliminary analysis of the London scheme

Supervisor: Dr. Georgina Santos, Examiner: Dr. David Newbery

Graduated *with merit*; achieved Ph.D. continuation level

B.Sc. (Hons) Environmental Sciences, Queen's University, 1995–2000

Honours Thesis: Mine Reclamation in the Canadian Arctic: An Analysis of Policy Alternatives
Graduated with 1st class distinction

Exchange year, University of Melbourne, 1997

Received letter of distinction in Philosophy

Employment

University of Calgary

Assistant Professor, Economics and Public Policy, 2020–

Sessional Instructor, 2018

Graduate Teaching Assistant, 2014–2017

Graduate Research Assistant, 2014–2017

Government of British Columbia

Expert Advisor, B.C. Hydro Transformative Review, 2019–

Government of Canada

Consulting Policy Advisor, Ministry of Environment and Climate Change, 2018–

Government of Alberta

Consulting Policy Advisor, Department of Energy, 2016– (occasional)

Expert Advisor, Economic Diversification Advisory Committee, 2017

Expert Advisor, Electricity Transition Governance Committee, 2016

Member, Royalty Review Secretariat, 2015–16

Member, Natural Gas Expert Panel (unpaid service), 2015–16

Transalta Corporation, Calgary, AB

Director, Head of Trading, 2012–14

Senior Power Trader, 2010–11

Barclays Capital, New York, NY

Senior Power Trader, 2007–10

Lehman Brothers, New York, NY

Vice-President, Power and Gas Trading, 2006–07

Powerex Corp. (BC Hydro), Vancouver, BC

Manager of Analytics, 2003–06

Term Power Trader, 2001–02

Spot Power Trader and Analyst, 1999–01

Teaching

Courses Taught

PPOL 611 - Energy Transitions and Policy (Masters), Winter 2020, Fall 2020

ECON 329 - Economics of Electricity Markets (Undergraduate), Fall 2019, Winter 2021

ECON 373 - Game Theory (Undergraduate), Spring 2018 (**awarded Department of Economics Graduate Student Teaching Award*)

Student Supervision

2020: Nicholas Schumacher (MPP), Brenda Flores (MPP), Jordan Neff (MPP), Kiana Goddard (MSc), Sounderya Venkatesan (MSc)

Grants and Awards

EEPRN Research Grant (\$37,055), Principal Investigator (co-investigator Dr. Nic Rivers), 2019–20
 Fulbright Scholar, Canada-US Fulbright Program, Stanford University, 2019
 University of Calgary Graduate Student Teaching Award, 2018
 Victor Yang Song Graduate Scholarship in Teaching Excellence, 2018
 University of Calgary Faculty of Graduate Studies Travel Award, 2018
 John D. Petrie, QC Memorial Graduate Scholarship, 2017–19
 James D. Gaisford Research Prize (Top 2nd year PhD research paper), 2017
 Queen Elizabeth II Scholarship (SSHRC and Vanier National Finalist), 2015–17
 Talisman Graduate Scholarship in Energy and Related Studies, 2015–16
 Top Macroeconomics Prize, 1st year PhD, 2015
 Economics Society of Calgary Scholarship, 2014
 Cambridge Commonwealth Trust Graduate Scholarship, 2003
 Carl Reinhardt Scholarship in Geological Sciences, 1997
 Morley E. Wilson Scholarship in Geological Sciences, 1996
 Queen's Applied Science (Engineering) Dean's List, 1996
 Queen's Anniversary Entrance Scholarship, 1995

Publications

Journal Articles

Tabari, M. & Shaffer, B. (2020) **Paying for performance: The role of policy in energy storage deployment.** *Energy Economics*, 92.

Leach, A., Rivers, N. & Shaffer B. (2020). **Canadian electricity markets during the COVID-19 pandemic: An initial assessment.** *Canadian Public Policy*, 46(S2).

Shaffer, B. (2020). **Misunderstanding Nonlinear Prices: Evidence from a Natural Experiment on Residential Electricity Demand.** *American Economic Journal: Economic Policy*, 12(3).

Rivers, N. & Shaffer, B. (2020). **Stretching the duck: The effect of climate change on the level and timing of future electricity consumption.** *The Energy Journal*, 41(5).

Shaffer, B. (2019). **Location Matters: Daylight saving time and electricity demand.** *Canadian Journal of Economics*, 52(4).

Santos, G. & Shaffer, B. (2004). **Preliminary results of the London congestion charging scheme.** *Public Works, Management and Policy*, 9(20): 164–181.

Peer-reviewed Policy Papers

The Role of Storage in Alberta's Electricity Market: Summary of a School of Public Policy Roundtable Event, Sep 2019, *University of Calgary, School of Public Policy Summary Paper*, 12(28)

All's Well that Ends Well: Addressing End-of-Life Liabilities for Oil and Gas Wells (with Ben Dachis and Vincent Thivierge), Sep 2017, *C.D. Howe Research Paper*, no. 492

The Challenge of Integrating Renewable Generation in the Alberta Electricity Market (with G. Kent Fellows and Michal C. Moore), Sep 2016, *University of Calgary, School of Public Policy Summary Paper*, 9(25)

The Political Economy of Free Allocations (with Mark Purdon and David Houle), Apr 2016, *Ecofiscal Commission Position Paper Series on Carbon Pricing Revenue Recycling*

Lifting the Hood on the Alberta Royalty Review, Feb 2016, *University of Calgary, School of Public Policy Briefing Paper*, 9(7)

Policy Notes

As Electricity Demand Sinks, Ontario Power Costs Rise 24 Percent With More to Come (with Grant Bishop), Apr 21, 2020, *C.D. Howe Intelligence Memo*

Power demand in the time of COVID-19 (with Andrew Leach and Nic Rivers), Apr 16, 2020, *School of Public Policy, Energy & Environmental Policy Trends*

Using forward contracts to deliver reliable and affordable power, Oct 18, 2019, *C.D. Howe Intelligence Memo*

Will electric vehicle subsidies spur widespread adoption?, May 23, 2019, *School of Public Policy, Energy & Environmental Policy Trends*

You get what you pay for: Considering cost and value in renewables procurement, Dec 18, 2018, *C.D. Howe Intelligence Memo*

To change or not to change? The daylight saving debate won't die, Mar 6, 2018, *C.D. Howe Intelligence Memo*

Alberta's renewable auction sets a new low for prices, but tweaks are needed in the future, Dec 14, 2017, *C.D. Howe Intelligence Memo*

What's the Real Deal with Keystone XL?, Nov 21, 2017, *C.D. Howe Intelligence Memo*

Smooth transitions: Shifting from cap-and-trade to a carbon tax (with Trevor Tombe and Dale Beugin), Nov 15, 2017, *Ecofiscal Commission*

On Site C: Dam(ned) if you do, dam(ned) if you don't, Nov 3, 2017, *C.D. Howe Intelligence Memo*

An Ontario surprise: A good idea about electricity pricing, Sep 10, 2017, *C.D. Howe Intelligence Memo*

Does Daylight Saving Time Reduce Energy Consumption (with Nic Rivers), Part 1 & Part 2, Mar 7 & 8, 2017, *C.D. Howe Intelligence Memo*

Reconciling pipelines with Canada's climate goals (with Trevor Tombe), Dec 8, 2016, *C.D. Howe Intelligence Memo*

What does a capacity market mean for Alberta? Nov 24, 2016, *C.D. Howe Intelligence Memo*

Popular Media

On the wrong track: Alberta loses \$2.1B on crude-by-rail contracts, Sep 1, 2020, *CBC*

Alberta's government is using coronavirus as a shield for laying off education workers (with Trevor Tombe), Apr 5, 2020, *Globeandmail*

Beyond pipelines: The nation-building project that could electrify Canada (with Sara Hastings-Simon), Mar 17, 2020, *Globeandmail*

Alberta's carbon-pricing policy is imperfect – but in one significant way, it's actually better than Ottawa's, Oct 29, 2019, *Globeandmail*

Les Canadiens ont les voitures les plus grosses et les plus énergivores au monde, May 13, 2019, *The Conversation Canada* (translation)

When it comes to vehicles, Canada tops the charts for poor fuel economy, May 1, 2019, *The Conversation Canada*

Redwater decision is progress, but environmental liabilities run deep (with Simon Dyer and Chris Ragan), Feb 4, 2019, *Globeandmail*

Canada's new large-emitter pricing system might defeat the carbon tax's own purpose, Nov 5, 2018, *Macleans*

Will LNG Canada increase greenhouse gas emissions? Oct 3, 2018, *Macleans*

On Policy Durability, Aug 13, 2018, *The Hill Times*

Why John Horgan deserves credit for going ahead with Site C, Dec 11, 2017, *Macleans*

Why the B.C. Liberals and NDP are both wrong about bridge tolls, Apr 10, 2017, *Macleans*

Saskatchewan swallows the fiscal pill Alberta refuses (with Trevor Tombe), Mar 24, 2017, *Macleans*

Paying for pipelines: How consumers can end up footing the bill, Feb 9, 2017, *CBC*

Making sense of energy efficiency programs (with Sara Hastings-Simon and Trevor Tombe), Jan 31, 2017, *Macleans*

Alberta Electricity: There's something happening here, what it is ain't exactly clear, Nov 27, 2016, *Calgary Herald*

Carbon tax: The real debate is about the revenue, Oct 15, 2016, *Globeandmail*

Making sense of a \$15 minimum wage in Alberta (with Trevor Tombe), Jul 1, 2016, *Macleans*

Alberta's climate plan requires serious debate, May 27, 2016, *Globeandmail*

Making sense of a provincial debt downgrade: Why Canadians in all regions should watch mounting provincial debt levels with concern (with Trevor Tombe), Dec 22, 2015, *Macleans*

Proceedings

Conference Presentations and Invited Seminars

2020: AESO Economics Excellence Showcase (Sep); Alberta Power Symposium (Sep); Avatar-YPAC Program (July); AESO Economics Seminar Series (June); TWEEDS, Portland (Postponed); Berkeley POWER Conference, University of California at Berkeley (May); Sustainable Prosperity Institute Annual Symposium, Ottawa (Feb)

2019: Ivey Electricity Workshop, Toronto (Oct); C.D. Howe Energy Council, Toronto (Oct); University of Calgary Environmental Law Society, Calgary (Oct); NBER Electricity Markets and Regulation Workshop, Lake Tahoe (May); Pacific Institute for the Mathematical Sciences (PIMS) Workshop on Mathematical Sciences and Clean Energy Applications, UBC (May); Berkeley Energy Institute, University of California at Berkeley (February)

2018: Toulouse School of Economics, Environmental Economics Seminar (September); World Congress of Environmental and Resource Economists, Gothenburg, Sweden (June); Canadian Economics Association 2018 Annual Conference, Montreal (June)

2017: Canadian Resource and Environmental Economics 2017 Annual Meeting, London (September); Toulouse School of Economics, 11th Conference on the Economics of Energy and Climate Change, Toulouse (June)

2016: Canadian Resource and Environmental Economics 2016 Annual Meeting, Banff (October)

Conference Organization

Market Design in Alberta: A roundtable, School of Public Policy, University of Calgary, March 2020. [In-person roundtable postponed. Video webinar convened in lieu.]

The potential for energy storage in Alberta: A roundtable, School of Public Policy, University of Calgary, March 2019. Co-organized a roundtable of expert international panelists and attendees on the potential for energy storage in evolving electricity markets.

Electricity Journalism Workshop, Calgary, May 2018. Co-organized a workshop for journalists to better understand the fundamentals of electricity markets and policy with C.D. Howe Institute, Canada West Foundation and the Pembina Institute.

Integrating renewables into the Alberta electricity market: A roundtable, School of Public Policy, University of Calgary, Sep 2015. Co-organized a roundtable of 40 stakeholders and experts to discuss policy and operational issues related to integrating renewables into the Alberta electricity market.

Invited Workshops

Berkeley Energy Camp, University of California at Berkeley, June 2020 (Postponed), June 2019. Invited attendee.

NBER Electricity Markets and Regulation Workshop, Lake Tahoe, May 2019. Invited speaker.

1st Annual Innovation Program of ReDeveLoP, an NSERC-funded program under the CREATE Initiative for the responsible development of low-permeability hydrocarbon resources, University of Calgary, Canada, May 2018. Invited speaker.

An Uncommon Dialogue: North American Hydropower, Stanford Steyer-Taylor Centre for Energy Policy and Finance, Stanford Woods Institute for the Environment, Stanford University, Palo Alto, March 2018. Invited panelist.

Alberta Energy Challenge: An international case competition focussing on the energy sector, University of Alberta, Edmonton, September 2017 (guest speaker). Invited speaker.

Berkeley Summer School in Environmental and Energy Economics, University of California at Berkeley, August 2017. Selected attendee.

IASS Expert workshop on coal power, Institute for Advanced Sustainability Studies, Potsdam, Germany, November 2016. Invited speaker.

Summer Institute on Field Experiments, University of Chicago, July 2015. Selected as one of 20 global scholars to participate in this inaugural workshop organized by Dr. John List.

Memberships

Canadian Economics Association (CEA), Canadian Resource and Environmental Economics Association (CREEA), American Economics Association (AEA), Association of Environmental and Resource Economics (AERE), International Association for Energy Economics (IAEE)

Referee Service

American Economic Journal: Economic Policy; Journal of the European Economic Association; International Journal of Industrial Organization; Journal of Behavioral and Experimental Economics; Journal of Environmental Economics and Management; Resource and Energy Economics; Energy Journal; Energy Policy; Energy Economics; Economic Inquiry; Canadian Public Policy; University of Calgary School of Public Policy; C.D. Howe Institute; Ecofiscal Commission

References

Dr. Trevor Tombe (PhD supervisor)
Associate Professor, Economics
University of Calgary
ttombe@ucalgary.ca
(403) 220-8068

Dr. Lucija Muehlenbachs (PhD committee)
Associate Professor, Economics
University of Calgary
lmuehlen@ucalgary.ca
(403) 220-7264

Dr. Nicholas Rivers
Professor, Economics
University of Ottawa
nicholas.rivers@uottawa.ca
(613) 562-5800 ext. 4676

Dr. Meredith Fowlie
Professor, Agric. and Resource Economics
University of California at Berkeley
fowlie@berkeley.edu
(510) 642-4820

Dr. Georgina Santos (Masters supervisor)
Senior Lecturer, School of Geography and Planning
Cardiff University
SantosG@Cardiff.ac.uk
+44 (0)29 2087 4462

Dr. Frank Wolak (Postdoctoral advisor)
Director, Program on Energy and Sust. Development
Stanford University
wolak@stanford.edu
(650) 72401712

Dr. Andrew Leach
Associate Professor, Economics
University of Alberta
aleach@ualberta.ca
(780) 492-8489

Dr. Maximilian Auffhammer
Associate Dean, Social Sciences
University of California at Berkeley
auffhammer@berkeley.edu
(510) 643-5472

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