Shaun D. McRae August 2025

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MEXICO

RESEARCH Energy Economics

INTERESTS Environmental Economics

Industrial Organization

ACADEMIC ITAM

APPOINTMENTS Centro de Investigación Económica and Department of Economics

Associate Professor 2025–

Assistant Professor 2016–2025

University of Michigan

Assistant Professor, Department of Economics 2010–2016

Stanford University

Visiting Scholar, Program on Energy and Sustainable Development Spring 2014

University of California, Berkeley

Visiting Scholar, Energy Institute at Haas Fall 2013

EDUCATION Stanford University, Stanford, CA

Ph.D., Economics 2010 M.A., Economics 2010

University of Auckland, Auckland, New Zealand

B.Sc.(Hons.) (First Class), Mathematics 1998

University of Otago, Dunedin, New Zealand

B.Com.(Hons.) (First Class), Economics 1997

WORKING PAPERS "Efficiency and Equity Effects of Electricity Metering: Evidence from Colombia".

"Electricity Pricing for the Energy Transition" (with Frank Wolak).

"Reliability Options in Renewable-Dominated Electricity Markets" (with Frank Wolak).

"Why Are Connection Charges So High? An Analysis of the Electricity Sector in Sub-Saharan Africa" (with Moussa Blimpo and Jevgenijs Steinbuks).

PUBLISHED PAPERS

- "Rethinking Wholesale Market Design for New Zealand's Clean Energy Transition". Accepted at the *Electricity Journal*.
- "Competitive Effects of Entry in Gasoline Markets" (with Lucas Davis and Enrique Seira). Forthcoming at *Journal of Industrial Economics*.
- "Fueling Alternatives: Gas Station Choice and the Implications for Electric Charging" (with Jackson Dorsey and Ashley Langer), *American Economic Journal: Economic Policy*, February 2025.
- "Residential Electricity Consumption and Adaptation to Climate Change by Colombian Households", *Economics of Disasters and Climate Change*, 2023, Vol. 7, 253–279.
- "Retail Pricing in Colombia to Support the Efficient Deployment of Distributed Generation and Electric Stoves" (with Frank Wolak), *Journal of Environmental Economics and Management*, 2021, 102541.
- "Self-Regulation vs State Regulation: Evidence from Cinema Age Restrictions" (with Ryan Lampe), *International Journal of Industrial Organization*, 75, 2021, 102708.
- "An Economic Perspective on Mexico's Nascent Deregulation of Retail Petroleum Markets" (with Lucas Davis and Enrique Seira), *Economics of Energy and Environmental Policy*, 8(2), 2019, 181–199.
- "Infrastructure Quality and the Subsidy Trap", *American Economic Review*, 105(1), January 2015, 35–66.
- "Testing the convergence hypothesis: a new approach" (with Erkin Bairam), *Economics Letters*, 1999, v.64: pp. 351–355.

OTHER PUBLICATIONS

- "Diagnosing the Causes of the Recent El Niño Event and Recommendations for Reform" (with Frank Wolak).
- "Book review: 'The Economics of Electricity Markets: Theory and Policy", *Journal of Economic Literature*, 2014, 52(2), 554–5.
- "How Do Firms Exercise Unilateral Market Power? Evidence from a Bid-Based Wholesale Electricity Market," (with Frank Wolak), in *Manufacturing Markets: Legal, Political and Economic Dynamics*, Eric Brousseau and Jean-Michel Glachant (eds), Cambridge University Press, 2014.
- "Merger Analysis in Restructured Electricity Supply Industries: The Proposed PSEG and Exelon Merger (2006)," (with Frank Wolak), in *The Antitrust Revolution: Economics, Competition and Policy*, John E. Kwoka and Lawrence J. White (eds), Oxford University Press, 2009.

OLDER WORKING PAPERS

"Crude Oil Price Differentials and Pipeline Infrastructure" (NBER Working Paper No. 24170).

"Market Power in a Hydro-Dominated Wholesale Electricity Market" (with Frank Wolak).

"Price Perceptions and Electricity Demand with Nonlinear Prices" (with Robyn Meeks).

"Reliability, Appliance Choice, and Electricity Demand".

"Step on It: A New Approach to Improving Vehicle Fuel Economy" (with Ashley Langer).

"Vertical Integration and Price Differentials in the U.S. Crude Oil Market".

CONFERENCE AND SEMINAR PRESENTATIONS

2025: ASSA Annual Meeting, LAERE First Congress, Infra4Dev Conference, SETI Annual Workshop (upcoming), CU Environmental and Resource Economics Workshop (upcoming), USAEE/IAEE North American Conference (upcoming).

2024: ASSA Annual Meeting, Toulouse Conference on the Economics of Energy and Climate, IAEE Annual Conference, Monash University conference on Market Design to Support a Low-Cost and Reliable Energy Transition, NBER Distributional Consequences of New Energy Policies (discussant), Southern Methodist University, RIDGE Forum on Environmental Economics.

2023: UC San Diego/ITAM workshop, Inter-American Development Bank, CAF, AERE Summer Conference, SETI pre-conference workshop, EAERE Summer Conference, Notre Dame-ITAM PODER mini-conference, Economics of Low Carbon Markets workshop, LACEA, RIDGE Forum on Environmental Economics.

2022: ASSA Annual Meeting, International Industrial Organization Conference, AERE Summer Conference, Sustainable Energy Transitions Initiative annual meeting, Environment for Development annual meeting, USAEE/IAEE North American Conference, RIDGE Forum on Industrial Organization.

2021: ASSA Annual Meeting, ADBI-IFS Conference on Sanitation and Development (discussant).

2020: ASSA Annual Meeting, SETI annual meeting (discussant), AERE summer meeting, EAERE summer meeting, NBER Summer Institute Industrial Organization meeting.

2019: Inter-American Development Bank, NBER Environmental and Energy Economics Program Meeting (discussant), POWER Conference on Energy Research and Policy, International Industrial Organization Conference, Workshop on Energy Markets in Mexico, Sustainable Energy Transitions Initiative annual meeting, NBER Economics of Electricity Markets and Regulation Workshop, Becker Friedman Institute New Developments in Structural Econometrics and Policy Analysis conference, Toulouse Conference on the Economics of Energy and Climate, Fundação

Getúlio Vargas EPGE, Fundação Getúlio Vargas CERI, PUC-Rio, Energy Policy Research Conference (Boise State), University of Southern California, OPIS Mexico-U.S. Petroleum Summit, University of California Davis, USAEE/IAEE North American Conference, Environment for Development annual meeting, Infrastructure in the Digital Era #Infra4Dev conference (Toulouse).

2018: ASSA Annual Meeting, CIDE Santa Fe, IAEE International Conference, Environmental Taxation v Other Approaches workshop at University of Maryland (discussant), Occasional Workshop in Environmental and Resource Economics (discussant), Inter-American Development Bank, CIDE Aguascalientes, Economics of Low Carbon Markets workshop.

2017: Energy Summit Centroamérica 2017 (panelist), International Industrial Organization Conference, Sustainable Energy Transitions Initiative workshop, NBER Hydrocarbon Infrastructure and Transportation Conference, AERE Summer Conference, EAERE annual conference, Bolivian Conference on Development Economics.

2016: AERE Summer Meeting, Mannheim Energy Conference, NBER Environmental and Energy Economics meeting, World Bank.

2015: ASSA Annual Meeting, ALADEE conference, International Industrial Organization Conference, SITE workshop, NBER Hydrocarbon Infrastructure and Transportation meeting, UM/MSU/WMU Energy and Environment Day, Latin American Environmental and Energy workshop at CIDE, University of Calgary, LACEA annual meeting, PUC-Chile, TE3 transportation conference, University of Chicago Booth, University of Maryland, Clemson University, ITAM.

2014: University of Michigan, International Industrial Organization Conference, Energy Institute at Haas Energy Camp, SITE workshop, World Bank, Heartland workshop, LACEA annual meeting.

2013: Cornell Energy and Environmental workshop (discussant), SITE workshop, Energy Institute at Haas, AERE Summer Meeting, University of California Davis, Economics of Low Carbon Markets workshop.

2012: ASSA Annual Meeting (discussant), University of Michigan, LACEA annual meeting, DePaul University, CFSP IO/Development workshop, AERE summer meeting.

2011: ASSA Annual Meeting, Chicago-RFF Energy Symposium (discussant), UM/MSU Energy and Environment Day, Energy Institute at Haas Energy Camp, Cowles Foundation Structural Micro Summer Conference.

2010: Clemson University, Energy Institute at Haas Energy Camp, IFPRI, Indiana University SPEA, Michigan Development Day, Michigan State University, Motu, Resources for the Future, University of Michigan, University of Michigan Erb Institute, University of North Carolina, Washington St. Louis (Olin).

TEACHING ITAM

Eco 35141: Energy Markets and Policy Master in Public Policy

2016

	Energy Economics Undergraduate / Master in Applied Economics	2017–19, 2021
	Environmental and Natural Resource Economics Master in Economic Theory	2017, 2018, 2020
	Economics Research Seminar Undergraduate	2017–20
	Applied Economics Research Seminar Master in Applied Economics	2019, 2021
	Applied Microeconometrics Undergraduate	2020–22
	Industrial Organization Undergraduate	2022–25
	Advanced Microeconometrics Master in Economic Theory	2025
	University of Michigan Econ 472: Natural Resource Economics Mean teaching evaluation: 4.71 (course), 4.79 (instructor).	2016
	Econ 437: Energy Economics & Policy Mean teaching evaluation: 4.65 (course), 4.74 (instructor).	2011–2016
	Econ 662: Environmental Economics (graduate) Mean teaching evaluation: 4.91 (course), 4.99 (instructor).	2011–2016
	Teaching evaluations on a five-point scale are the mean for a	ll courses taught.
	Stanford University Econ 271, Graduate Econometrics II (teaching assistant) Outstanding Teaching Assistant Award (2009)	2008–2009
	University of Otago	
	Introductory Microeconomics (teaching assistant)	1995–1996
	Introductory Macroeconomics (teaching assistant) Mathematical Economics (teaching assistant)	1995–1996 1997
STUDENT	Undergraduate Theses	
Advising	Jordán Mosqueda Juárez	2018
	Oscar González Gil	2018
	Juan Pablo Grimaldi	2019
	Ricardo Enrique Miranda Montero	2019
	Arturo Soberón Cedillo	2019 2020
	Paola Cymet Monroy Fidel González Parra	2020
	Andres Glase Ordóñez	2020
	Inés Valenzuela Muñoz Castillo	2021
	Jorge Acedo Glaros	2021

Juan Pablo Martínez Giorgi	2021
Alfonso Lugo Sánchez	2021
Regina Calles Martínez	2021
Diego Olea Barragán	2022
Sabrina Fajardo Gallegos	2022
Alejandro Hernández González	2022
Andrés Villarreal Villegas	2022
Raul Mejia Ibañez	2023
José Ignacio Avalos	2023
Mauricio Pérez Ramírez	2023
Aranxta Martínez Aguilar	2023
Camila Flores Fernández	2023
Josué Emmanuel De León	2023
Sara Guerrero Rengifo	2025
Master's Theses	
Daniel Loredo Duran	2020
Ramiro Agustín Beltrán Alessio Robles	2021
David Ontaneda Navarrete	2022
Diana Paola García Medina	2024
Ph.D. Dissertation Committee Member (initial placement)	
Jacqueline Doremus (Cal Poly San Luis Obispo)	2015
Reid Dorsey-Palmateer (Western Washington University)	2015
Eric Lewis (Department of Justice)	2015
Mike McWilliams (University of Michigan RSQE)	2016
Paul Brehm (Oberlin College)	2010
Hope Thompson (FEMA)	2017
	2017
Graduate Student Third Year Paper advisor / reader	2016
Oxana Azgaldova	2016
Meera Mahadevan	2016
Alecia Cassidy	2015
Sarah Johnston	2014
Ben Meiselman	2014
Yiyuan Zhang	2014
Paul Brehm	2014
Austin Davis	2013
Adam Larson	2012
Eric Lewis	2012
Jacqueline Doremus	2011
Undergraduate Honors Theses	
Jesse Buchsbaum	2015
Eugene Tan	2013
Karl Dunkle-Werner	2013
David Tigges	2012

HONORS AND AWARDS, AND SPONSORED RESEARCH	Premio Citibanamex de Economía (2nd place)	2022
	Public Utility Research Center Prize for the Best Paper in Regulate the 13th Annual International Industrial Organization Conference	ory Economics at 2015
	University of Michigan Weiser Center for Emerging Democracies Faculty Grant University of Michigan Office of Research award MITRE Faculty Research Grant MITRE Faculty Research Grant Rackham Spring/Summer Research Award	2015 2015 2015 2013 2011
		2011
	Stanford Institute for Economic Policy Research Claire and Ralph Landau Student Working Paper Prize Kapnick Fellowship	2010 2009–10
	Stanford University Martin Lee Johnson Stanford Graduate Fellowship	2003–08
EDITORIAL POSITIONS	Associate Editor, New Zealand Economic Papers	2025–
REFEREE SERVICE	American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, American Economic Journal: Macroeconomics, American Economic Review, American Economic Review: Insights, Applied Economics Letters, B.E. Journal of Economic Analysis & Policy, Econometrica, Economic Change and Restructuring, Economics of Energy and Environmental Policy, Economics Bulletin, Economic Journal, Electricity Journal, Energy Journal, Energy Policy, Energy Strategy Reviews, European Economic Review, International Journal of Industrial Organization, Journal of the Association of Environmental and Resource Economists, Journal of Development Economics, Journal of Environmental Economics and Management, Journal of Industrial Economics, Journal of Political Economy, Journal of Public Economics, Journal of Regulatory Economics, Latin American Economic Review, Latin American Research Review, National Science Foundation, Nature Energy, Quarterly Journal of Economics, RAND Journal of Economics, Research in Transportation Economics, Review of Development Economics, Review of Statistics, Review of Industrial Organization, Review of Network Economics, Utilities Policy, Water Policy.	
OTHER Experience	Credit Suisse First Boston, Auckland, New Zealand Investment Banking Analyst Investment Banking Associate	1999–2001 2002