Shaun D. McRae June 2025

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MEXICO

RESEARCH Energy Economics

INTERESTS Environmental Economics

Industrial Organization

ACADEMIC ITAM

APPOINTMENTS Assistant Professor 2016—

Centro de Investigación Económica and Department of Economics

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 "Rethinking Wholesale Market Design for New Zealand's Clean Energy Transition". Revise and resubmit at the *Electricity Journal*.

"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

- "Competitive Effects of Entry in Gasoline Markets" (with Lucas Davis and Enrique Seira). Accepted 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).

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)

sant), 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

Energy Economics

Undergraduate / Master in Applied Economics

Environmental and Natural Resource Economics

Master in Economic Theory

Economics Research Seminar

2017–20

Undergraduate

	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 all 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) Introductory Macroeconomics (teaching assistant) Mathematical Economics (teaching assistant)	1995–1996 1995–1996 1997	
STUDENT ADVISING	Undergraduate Theses Jordán Mosqueda Juárez Oscar González Gil Juan Pablo Grimaldi Ricardo Enrique Miranda Montero Arturo Soberón Cedillo Paola Cymet Monroy Fidel González Parra Andres Glase Ordóñez Inés Valenzuela Muñoz Castillo Jorge Acedo Glaros Juan Pablo Martínez Giorgi Alfonso Lugo Sánchez Regina Calles Martínez Diego Olea Barragán Sabrina Fajardo Gallegos Alejandro Hernández González Andrés Villarreal Villegas Raul Mejia Ibañez	2018 2019 2019 2019 2019 2020 2020 2021 2021	

	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)	2017
	Hope Thompson (FEMA)	2017
	Graduate Student Third Year Paper advisor / reader	
	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, Awards,	Premio Citibanamex de Economía (2nd place)	2022
AND SPONSORED	Public Utility Research Center Prize for the Best Paper in Regulatory E	conomics at
RESEARCH	the 13th Annual International Industrial Organization Conference	2015
	University of Michigan	
	Weiser Center for Emerging Democracies Faculty Grant	2015
	University of Michigan Office of Research award	2015
	MITRE Faculty Research Grant	2015
	MITRE Faculty Research Grant	2013

	Rackham Spring/Summer Research Award	2011	
	Stanford Institute for Economic Policy Research		
	Claire and Ralph Landau Student Working Paper Prize	2010	
	Kapnick Fellowship	2009–10	
	Stanford University		
	Martin Lee Johnson Stanford Graduate Fellowship	2003–08	
EDITORIAL	Associate Editor, New Zealand Economic Papers	2025-	
Positions			
REFEREE	American Economic Journal: Applied Economics, American Econ	omic Journal:	

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, Review of Development Economics, Review of Economics and Statistics, Review of Industrial Organization, Review of Network Economics, Utilities Policy, Water Policy.

OTHER	Credit Suisse First Boston, Auckland, New Zealand	
EXPERIENCE	Investment Banking Analyst	1999–2001
	Investment Banking Associate	2002