

ALASTAIR FRASER

School of Economics
University of Sydney
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Academic Positions

2018-Present Lecturer (Assistant Professor), The University of Sydney

Education

Ph.D. Economics, November 2018, University of British Columbia

M.A. Economics, August 2012, Queen's University

M.Sc. Physics, February 2010, University of Alberta

B.Sc. Physics (Honours), May 2007, University of Victoria

Research Interests

Environmental Economics, Energy Economics, Climate Finance & Transition Risks, International Trade

Publications

1. *Refereed Journals*

- [1] Fraser, Alastair, Jonathan Chiew Sheen Kuok, and Gordon W. Leslie. "Climate reform and transitional industry assistance: Windfall profits for polluters?." *Energy Economics* 121 (2023)
- [2] Fraser, A. E. "Success, Failure, and Information: How Households Respond to Energy Conservation Goals (2023)" *Journal of the Association of Environmental & Resource Economics* (January 2023)
- [3] J.A.J. Burgess, A.E. Fraser, F. Fani Sani, D. Vick, B.D. Hauer, J.P. Davis, M.R. Freeman "Quantitative Magneto-Mechanical Detection and Control of the Barkhausen Effect" *Science* 339, 2013
- [4] J.P. Davis, D. Vick, P. Li, S.K.N. Portillo, A.E. Fraser, J.A.J. Burgess, D.C. Fortin, W.K. Hiebert and M.R. Freeman. "Nanomechanical Torsional Resonator Torque Magnetometry" *Journal of Applied Physics* 109, 07D309, 2011
- [5] D. Vick, V. Sauer, A.E. Fraser, M.R. Freeman, & W.K. Hiebert. "Bulk Focused Ion Beam Fabrication With 3-Dimensional Shape Control of Nanoelectromechanical Systems" *Journal of Micromechanics and Microengineering* 20, 105005, 2010
- [6] N. Liu, F. Giesen, M. Belov, J. Losby, J. Moroz, A.E. Fraser, G. McKinnon, T.J. Clement, V. Sauer, W.K. Hiebert & M.R. Freeman. "Time-Domain Control of Ultrahigh-Frequency Nanomechanical Systems" *Nature Nanotechnology* 3, 715 - 719, 2008

2. *Non-Refereed Articles*

- [1] Are Investment Carbon Footprints Good for Investors and the Climate? *Policy Options — Institute for Research On Public Policy*, 2017

Working Papers

- [1] "Net-zero targets for investment portfolios: an analysis of financed emissions metrics" with Tanya Fiedler (*R&R at Energy Economics*)
- [2] "Complements or Substitutes? The Importance of Mode Choice In International Trade" with Scott Orr
- [3] "Freight transport emissions embodied in the global commodity trade" with Jacob Fry, Keiichiro Kanemoto, Manfred Lenzen, & Keisuke Nansai

Works in progress

- [1] "Are all emissions created equal?" with Carol McAusland
- [2] "How well do ESG scores reflect environmental impacts?" with Matthew Watt

Grants & Fellowships

2022 Sydney Environment Institute Collaborative Research Fellowship (\$25,000)
2020 Faculty Research Support Scheme (\$7,976)

Invited Seminars & Conference Presentations

2023 Department Seminar, UC Davis, Davis
2022 Department Seminar, Central European University, Vienna
2022 Workshop on Sustainable Markets, University of Southern Denmark
2022 EnergyEcoLab seminar at Universidad Carlos III de Madrid
2021 Monash Environmental Economics Conference, Melbourne
2021 Department seminar, Monash University, Melbourne
2020 Australasian Agricultural and Resource Economics Society Annual Conference, Perth
2019 Australasian Agricultural and Resource Economics Society Annual Conference, Melbourne
2019 LEEPIn2019 conference, University of Exeter
2019 Annual Conference of the European Association of Environmental and Resource Economists, Manchester
2019 Association of Environmental and Resource Economists Annual Conference, Nevada
2019 Department seminar, University of Adelaide
2019 Seminar, Australian Energy Regular, Sydney
2019 Seminar, Australian Energy Market Commission, Sydney
2018 Canadian Economic Association, Montreal

- 2017 Canadian Resource and Environmental Economics Study Group, Workshop on Electricity Markets, Western University, London Ontario
- 2017 Canadian Economics Association Annual Conference, St. Francis Xavier University, Antigonish, Nova Scotia
- 2016 Canadian Resource and Environmental Economics Study Group, Annual Conference, Banff, Alberta
- 2016 Workshop on Economics of Global Interactions, UBC, British Columbia
- 2016 Economics and Environmental Policy Research Network Symposium, Ottawa, Ontario

Academic Service

Reviewer for: *Journal of International Economics*, *Canadian Journal of Economics*, *American Economic Review*, *Journal of Public Economics*, *Australian Journal of Agricultural and Resource Economics*, *Nature Energy*, *Journal of Environmental Economics and Management*, *Journal of the Association of Environmental and Resource Economists*, *Energy Economics*

Teaching

- 2023 Economics 1001: Introductory Microeconomics
- 2018-2023 Firms, Markets and Business Management in the Masters of Accounting
- 2021 Economics of Program Evaluation
- 2019, 2021 Benefit-Cost Analysis
- 2020 Concepts in Enviro and Agricultural Economics

Selection of non-academic experiences

- 2019-2023 Chair, Sustainability Strategy's Responsible Investments Working Group; member of the University Senate-commissioned committee on responsible investing
- Lead a working group advising the University of Sydney Executive and Senate on updating the Responsible Investing Policy
 - Provided subject matter expertise and briefed members of the Executive and Senate on net-zero alignment and responsible investing policies for the University endowment
 - Shepherded the policy through the University Executive and Senate to final approval and adoption
- 2019-2021 Member, Energy & Emissions working group, University of Sydney Sustainability Strategy
- 2014-2018 Subject matter expert on low-carbon investment methodologies and net-zero alignment
- Worked with the Board of Governors of the University of British Columbia to incorporate climate-change principles into the Endowment investing strategy
- 2013-2017 Settlement mentor (volunteer), Immigrant Settlement Services of British Columbia
- Assisted refugees upon their landing in Canada until six months after their arrival. Provided mentoring & guidance in navigating Canadian society and culture, from setting up bank accounts to finding employment.

2014-2017 Consultant, various

-Analysed energy conservation programs for Canadian electrical utility companies, including time-of-use pricing, behavioural responses to financial rewards, and the effectiveness of home energy reports mailed to customers.

2010 Manager (volunteer), water filter factory in Kenya

-Project manager overseeing the successful start-up of a ceramic water filter factory.