

ALASTAIR FRASER

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Academic Positions

2018 - 2024 Lecturer, The University of Sydney
(equivalent of Assistant Professor in the North American system)

2025 - Present Senior Lecturer, The University of Sydney
(equivalent of Associate Professor in the North American system)

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 - Economics*

- [1] Fraser, A., Fiedler, T. (2023). Net-zero targets for investment portfolios: An analysis of financed emissions metrics. *Energy Economics*, 126, 106917.
- [2] Fraser, A., Kuok, J., Leslie, G. (2023). Climate reform and transitional industry assistance: Wind-fall profits for polluters? *Energy Economics*, 121.
- [3] Fraser, A. (2023). Success, Failure, and Information: How Households Respond to Energy Conservation Goals. *Journal of the Association of Environmental and Resource Economists*, 10(1), 95-120.
- [4] Jacob Fry, Keiichiro Kanemoto, Alastair Fraser, and Keisuke Nansai (2024) Global Freight Transport Emissions Responsibility. *Environmental Science & Technology*, 58 (43), 19231-19242

Refereed Journals - Physics

- [5] 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
- [6] 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
- [7] 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

- [8] 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 and works in progress

- [1] "Transition Risks" with Carol McAusland
- [2] "Drivers of peak demand: how electrifying transportation affects peak electricity demand" with Kelly Neill and Chia-jung Yeh
- [3] "Power Outages, Subsidies, and the Adoption of Household Batteries in California" with Andrea La Nauze
- [4] "Complements or Substitutes? The Importance of Mode Choice In International Trade" with Scott Orr

Grants & Fellowships

2022 Sydney Environment Institute Collaborative Research Fellowship (\$25,000)

2020 Faculty Research Support Scheme (\$7,976)

Academic Seminars & Conference Presentations

- 2024 WEAI Annual Conference, Seattle
- 2023 Australasian Finance and Banking Conference, Sydney
- 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: *Nature Energy, Journal of International Economics, American Economic Review, Journal of Public Economics, Australian Journal of Agricultural and Resource Economics, Journal of Environmental Economics and Management, Canadian Journal of Economics, Journal of the Association of Environmental and Resource Economists, Energy Economics, New Zealand Economic Papers, Empirical Economics*