

## Mei Mei Aileen Lam

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### EDUCATION

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| October 2013<br>-2019      | <b>Newnham College, University of Cambridge</b><br>Ph.D. Land Economy                  |
| October 2012<br>-June 2014 | <b>Newnham College, University of Cambridge</b><br>MPhil Environmental Policy          |
| October 2009<br>-June 2012 | <b>Newnham College, University of Cambridge</b><br>BA (Hons) Land Economy, Mathematics |

### EMPLOYMENT

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| 2020-present | Assistant Professor, Department of Economics, Faculty of Social Sciences, University of Macau |
| 2017-2020    | Macao Fellow, Department of Economics, Faculty of Social Sciences, University of Macau        |
| 2013-2016    | Research Assistant, Department of Land Economy, University of Cambridge                       |

### FUNDING AND ADWARDS

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| 2016-2017 | ReCoVER (Research on Changes of Variability and Environmental Risk) |
| 2014      | Newnham College Graduate Fund Travel and Research Grant             |
| 2009-2012 | Macao Foundation Special Scholarship                                |

### PUBLICATIONS IN JOURNALS AND BOOKS

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**Lam, A.** and Mercure, J.F., 2021. Which policy mixes are best for decarbonising passenger cars? Simulating interactions among taxes, subsidies and regulations for the United Kingdom, the United States, Japan, China, and India. *Energy Research & Social Science* 75 (2021): 101951.

Knobloch, F., Hanssen, S., **Lam, A.**, Pollitt, H., Salas, P., Chewpreecha, U., Huijbregts, M., Mercure, J.F., 2020. Net emission reductions from electric cars and heat pumps in 59 world regions over time. *Nature Sustainability* (2020).

**Lam, A.**, Lee, S., Cho, Y., Lin, C., Knobloch, F., Pollitt, H., Chewpreecha, U. and Mercure J.-F., 2019. Chapter 7, Policies to Decarbonize Passenger Vehicles in 2050 in East Asia in *Energy, Environment and Economic Sustainability in East Asia – Policies and Institutional Reforms for a Sustainable Use of energy, Water and Other Resources*. Routledge.

Lee, S., Chewpreecha, U., **Lam, A.**, Xu, B., Pollitt, H., Chiashi, A., Vercoulen, P., Knobloch, F., 2019. Chapter 3, The Economic Impacts of Reduced Reliance on Coal and Nuclear Power Generation in East Asia in *Energy, Environment and Economic Sustainability in East Asia – Policies and Institutional Reforms for a Sustainable Use of energy, Water and Other Resources*. Routledge.

Knobloch, F., Chewpreecha, U., Kim, S., He, Y., Chen, L., **Lam, A.**, Mercure, J.F., Lee, S., 2019. Chapter 8, Policies to Decarbonize Household Heating Systems in 2050 in East Asia in *Energy, Environment and Economic Sustainability in East Asia – Policies and Institutional Reforms for a Sustainable Use of energy, Water and Other Resources*. Routledge.

**Lam, A.**, Lee, S., Mercure, J.F., Cho, Y., Lin, C.H., Pollitt, H., Chewpreecha, U. and Billington, S., 2018. Policies and Predictions for a Low-Carbon Transition by 2050 in Passenger Vehicles in East Asia: Based on an Analysis Using the E3ME-FTT Model. *Sustainability*, 10(5), p.1612.

Mercure, J.F., Pollitt, H., Edwards, N.R., Holden, P.B., Chewpreecha, U., Salas, P., **Lam, A.**, Knobloch, F. and Vinuales, J.E., 2018. Environmental impact assessment for climate change policy with the simulation-based integrated assessment model E3ME-FTT-GENIE. *Energy strategy reviews*, 20, pp.195-208.

Mercure, J.F., Pollitt, H., Vinuales, J.E., Edwards, N.R., Holden, P.B., Chewpreecha, U., Salas, P., **Lam, A.** and Knobloch, F., 2018. Macroeconomic impact of stranded fossil fuel assets. *Nature Climate Change* doi:10.1038/s41558-018-0182-1.

Holden, P.B., J.E., Edwards, A. Ridgwell, R. D. Wilkinson, K. Fraedrich, K. Fraedrich, H. E. Pollitt, Mercure, J.F., Salas, P., **Lam, A.**, Knobloch, F., Chewpreecha, U., and J. E. Viñuales 2018. Climate-carbon cycle uncertainties and the Paris Agreement. *Nature Climate Change* 8, 609 – 613.

Mercure, J. F., **Lam, A.**, Billington, S. and Pollitt, H. 2018. Integrated assessment modelling as a positive science: private passenger road transport policies to meet a climate target well below 2 degrees C. *Climatic Change* 151 (2), pp109-129

Mercure, J.F., and **Lam, A.** "The effectiveness of policy on consumer choices for private road passenger transport emissions reductions in six major economies." *Environmental Research Letters* 10.6 (2015): 064008.

## **WORKING PAPERS/BOOK CHAPTERS**

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**Lam, A.**, Mercure, J.F., Lee, S. Policy incentives on mitigating CO<sub>2</sub> emissions from the passenger cars in five major Asian economies: Analysis using FTT-Transport Model. In *Fiscal Policy Instrument and Green Development*. *Asian Development Bank Institute*.

Sharpe, S., Vinuales, J., Ives, M., Grubb, M., **Lam, A.**, Drummond, P., Pollitt, H.; Knobloch, F.; Nijse, F. (2021). Risk-opportunity analysis for transformative policy design and appraisal. Accepted for publication in *Global Environmental Change*.

Mercure, J. F., Bravo, P. S., Vercoulen, P., Semieniuk, G., **Lam, A.**, Pollitt, H., ... & Viñuales, J. (2021). Reframing the climate policy game. Under review at *Nature Energy*

**Lam, A.**, Pettifor, H., Mercure, J.-F., Wilson, C. Modelling effect of income on passenger car CO<sub>2</sub> emissions: a case study of UK, US, China, Korea and Spain.

## TEACHING EXPERIENCE

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Basic Macroeconomics, University of Macau, 2018-2021

Urban Economics, University of Macau, 2019-2021

Statistics II, University of Macau, 2020-2021

Advanced theory in Economics, 2020-2021

## CONFERENCE PROCEDURES

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**February 2021** Virtual Policy Dialogue on Post COVID-19 Fiscal Instruments and Green Development, Tokyo, Japan. "Policy incentives on mitigating CO<sub>2</sub> emissions from the passenger cars in five major Asian economies: Analysis using FTT-Transport Model."

**November 2019** The 18<sup>th</sup> International Conference of the Japan Economic Policy Association, Tokyo, Japan. "Trade-offs and synergies in policy incentives on mitigating CO<sub>2</sub> emissions from the passenger cars in five major economies."

**August 2019** The 7th Congress of the East Asian Association of Environmental and Resource Economics (EAAERE), Beijing, China. "Modelling innovation to transition industry, transport and residential heating systems towards a sustainable, low carbon future in East Asia"

**March 2019** 3<sup>rd</sup> International Conference on Economic Structures, Osaka, Japan "Policies and predictions for a low-carbon transition by 2050 in passenger vehicles in East Asia: Based on an analysis using the E3ME-FTT model"

**September 2018** 19<sup>th</sup> Global Conference on Environmental Taxation, Madrid, Spain "Policies for a low-carbon transition in passenger vehicles in East Asia"

**September 2018** Institute for Global Environmental Strategies (IGES) workshop, Tokyo, Japan "The application of E3ME-FTT-Transport model for East Asian countries"

**September 2018** Japan Society for Environmental Economics and Policy Studies (SEEPS) Annual Conference, Tokyo, Japan "Scenario analysis for a Low Carbon Transition by 2050 in Passenger Vehicles in East Asia: Based on an Analysis Using the E3ME-FTT Model. "

**June 2018** International Sustainability Transition Conference, Manchester, UK "Multi-sectoral interactions in low-carbon transitions: simulating the co-evolution of energy production and end-use sectors"

**February 2018** Korean Environmental Institute (KEI) Workshop, Nagoya, Japan “The application of E3ME-FTT-Transport model for East Asian countries”.

**June 2017** International Sustainability Transition Conference, Gothenburg, Sweden “Consumer heterogeneity and the income effect in a model of technological transition for analysing climate policy in the transport sector” (nominated best paper)

**July 2016** CliMathNet Conference, Exeter, UK: oral presentation “Modelling heterogenous and the income effect”.

**June 2016** ENERGY reFORUM, Vilnius, Lithuania: poster presentation “Modelling heterogenous consumer behaviour and diverse policy levers in global IAMs: proof of concept”

**August 2014** International Sustainability Transition Conference, Utrecht, Netherlands “Towards a computational implementation of transitions theory: projections of energy use and emissions from road transport in the EU”