

Eoghan O'Neill

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Education

2016–2020	PhD Economics, University of Cambridge Supervisor: Dr. Melvyn Weeks Research Interests: Econometrics, Machine Learning, Energy Economics
2015–2016	MPhil Economic Research, University of Cambridge
2011–2015	BA (Hons) Mathematics and Economics, Trinity College, Dublin Double first class honours.

Teaching and Professional Experience

2020–Present	Assistant Professor of Data Science and Machine Learning, Erasmus University Rotterdam Lecturer - Marketing Models (Undergraduate)
2019–2020	Teaching Fellow, Faculty of Economics, University of Cambridge Supervisor - Theory and Practice of Econometrics II (Undergraduate)
2018–2020	Teaching Assistant, Faculty of Economics, University of Cambridge 2019-2020 Econometrics II Cross Section and Panel Data (Masters) 2019 Applied Econometrics (Masters) 2018 Applied Microeconomics (Masters)
2017–2019	College Teaching Associate, St. Catharine's College, Cambridge Supervisor - Quantitative Methods in Economics (Undergraduate) Supervisor - Theory and Practice of Econometrics I (Undergraduate)
2016–2019	College Supervisor, Newnham, Hughes Hall, Magdalene, Pembroke, St. Catharine's Colleges, University of Cambridge Theory and Practice of Econometrics I (Undergraduate) Quantitative Methods in Economics (Undergraduate)
2015	Internship, Irish Fiscal Advisory Council, Dublin
2014	Research Internship, Economic and Social Research Institute, Dublin
2013	Risk and Valuation Internship, Citco Fund Services, Dublin

Publications

- “Forecasting Urban Residential Stock Turnover Dynamics using System Dynamics and Bayesian Model Averaging”. **Applied Energy** (2020) (with Wei Zhou, Alice Moncaster, David Reiner, and Peter Guthrie).
- “The effectiveness of the unbundling reform in China’s power system from a dynamic efficiency perspective”. **Applied Energy**, 264, 114717 (2020) (with Zhen-Yu She, Gang Meng, and Bai-Chen Xie).
- Contributed discussion (with Estevao Prado, Belinda Hernandez, Andrew Parnell, and Rafael Moral) - Bayesian regression tree models for causal inference: regularization, confounding, and heterogeneous effects. **Bayesian Analysis**. (2020). Hahn, P. R., Murray, J. S., & Carvalho, C. M. .

Working Papers

- *Causal Forest Estimation of Heterogeneous Household Response to Time-Of-Use Electricity Pricing Schemes* (with Melvyn Weeks).
- *State-of-the-BART: Simple Bayesian Tree Algorithms for Prediction and Causal Inference*
- *Generalizations of BART-BMA and BART-IS*
- *Study on the scale effect of China's power grid sector from the perspective of dynamic performance* (with Bai-Chen Xie and Kang-Kang Ni).
- *When Does Harsh Supervision Backfire: The Impact of Cost Padding for Photovoltaic Power Generation on Poverty Relief* (with Peng Hao, Jun-Peng Gui, and Bai-Chen Xie).
- *When will low-price-win work? The impact of collusion-proof measures on photovoltaic tender* (with Peng Hao, Jun-Peng Gui, and Bai-Chen Xie).
- *Estimating embodied energy of urban residential buildings in China based on a probabilistic dynamic stock turnover model* (with Wei Zhou).

Work in Progress

- *Analysis of a unique time-of-use electricity pricing trial with gamification.*
- *Quantifying the Sub-optimality of Peak Demand Reduction of Revenue Maximizing Time-of-Use Tariff Allocation.*

Presentations

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| 2020 | University of St. Gallen, Erasmus University Rotterdam, University of Liverpool, Queen's University Belfast |
| 2019 | Predictive Analytics Workshop (Cambridge), Maynooth University Hamilton Institute, EDGE Jamboree, Cambridge econometrics workshop |
| 2018 | BIEE Annual Conference Oxford, Cambridge econometrics workshop, Ofgem, Loop-SMAP Energy |

Academic Awards and Funding

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| 2018-2020 | Economics Faculty Trust Funding |
| 2015-2019 | Christ's College Studentship |
| 2015-2016 | Cambridge Trust European Scholarship |
| 2015-2016 | Economics Faculty Bursary |

Other Information

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| Programming | R, Stata, C++ |
| R Packages | https://github.com/EoghanONeill |
| Languages | English, French (Basic), Irish (Basic) |
| Nationality | Irish |