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**
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).

Work in Progress

- *Analysis of a unique time-of-use electricity pricing trial with gamification.*

Presentations

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

Academic Awards and Funding

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

Other Information

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