

Eoghan O'Neill

oneill@ese.eur.nl

Website: eoghanoneill.com

Telephone: (+44) (0)77 24038466

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

- “Study on the scale effect of China’s power grid sector from the perspective of dynamic performance”. **Utilities Policy**, 69, 101187 (2021) (with Kang-Kang Ni, Bai-Chen Xie, and Hong-Zhou Li).
- “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*
- *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

- | | |
|------|---|
| 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

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

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