

# Eoghan O'Neill

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## Education

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

## Teaching and Professional Experience

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

## Publications

- “Modelling future trends of annual embodied energy of urban residential building stock in China. **Energy Policy**, 165, 112932 (2022) (with Zhou, W., Moncaster, A., Reiner, D. M., Wang, X., and Guthrie, P.).
- “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).

## 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).

## Work in Progress

- *Type I Tobit Bayesian Additive Regression Trees.*
- *Type II Tobit Bayesian Additive Regression Trees.*
- *Bayesian tree methods for the estimation of effects of multi-valued treatments (with Estevao Prado).*
- *An Empirical Comparison of Revenue Maximizing and Peak Consumption Minimizing Allocations of Residential Electricity Tariffs (with Melvyn Weeks).*

## 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	<a href="https://github.com/EoghanONeill">https://github.com/EoghanONeill</a>
Languages	English, French (Basic), Irish (Basic)
Nationality	Irish