

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)
Bachelor and master thesis supervision
Bachelor seminar supervision
University Teaching Qualification
- 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

- “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.).
- “Modelling Chinese Urban Residential Stock Turnover Uncertainties Using System Dynamics and Bayesian Statistical Inference”. In *Urban Infrastructuring* (pp. 221-240). Springer, Singapore (2022). (with Zhou, W., Moncaster, A., Reiner, D. M., 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*
- *Type I Tobit Bayesian Additive Regression Trees for Censored Outcome Regression.*

Work in Progress

- *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

- 2022 | CM Statistics Conference
- 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