MIGUEL ANGEL TOVAR REAÑOS, PhD

Research experience

Economic and Social Research institute (ESRI), Ireland

2018-Present

Research Officer at the energy and environment research area

- Distributional effects of energy and environmental policies
- Microsimulation
- Fuel poverty

Centre for European economic Research (ZEW), Germany

2012-2018

Postdoctoral researcher at the department of environmental economics

Big data at Goethe-Universität Frankfurt

Guess researcher at the department of informatics working on a heath-economics project using machine learning techniques Summer–2017

Business Intelligence

Mexican Research Institute of Oil (Instituto Mexicano del Petroleo)

Forecasting of energy consumption and model developing

2004-2007

• Forecasting energy demand for the transport sector

Teaching experience

Trinity College, Dublin

Module on Environmental and energy policy. Master students

2022

Mannheim University

Guest lecturer on microsimulation. Master students

2018

University of Essex

Teaching Assistant for Mathematical Economics

2009-2011

University of Essex

Two day course on time series, Master level

2010

Instituto Politecnico Nacional, Mexico City Teaching Econometrics	2001–2002
Preparatoria Official No. 81,Edo de Mex • Teaching mathematics	2002–2004
Education	
PhD in Economics, University of Essex, UK	2012
MSc in Economics, University of Essex, UK	2008
BSc in Economics, Instituto Politecnico Nacional, Mexico City	2001

Computer skills

I have extensive experience programming in R, Stata, GAMS and Python.

Publications

2023 "Keep out the cold: An analysis of potential gaps in fuel poverty policies in Ireland" (jointly with Arya Pillai and John Curtis), Energy Research Social Science

2023 "Trends in household demand and greenhouse gas footprints in Germany: Evidence from microdata of the last 20 years" (jointly with Anke Jacksohn, Frank Pothen and Katrin Rehdanz), $Ecological\ Economics$

2023 "Energy poverty prediction and effective targeting for just transitions with machine learning" (jointly with Constantine Spandagos and Muireann Lynch), Energy Economics

2023 "The role of energy, financial attitudes and environmental concerns on perceived retrofitting benefits and barriers: Evidence from Irish home owners" (jointly with John Curtis, Arya Pillai and David Meier), Energy and Buildings

2022 "Gathering support for carbon taxation by combining transfers with lower income taxes (jointly with Rick van der Plueg and Armon Rezai)", European Economic Review

2022 "Public acceptance of sustainable energy innovations in the European Union: A multidimensional comparative framework for national policy (jointly with Constantine Spandagos and Muireann Lynch)", Journal of Cleaner Production

2022 "Farm technical and environmental efficiency and subsidy re-distribution in Ireland: a sim-

ulation approach of possible performance and equity effects (jointly with Maria Martinez Cillero) ", Journal of Agricultural Economics

2022 "Spatial scenarios of potential electric vehicle adopters in Ireland (jointly with Arya Pillai and John Curtis)", Case Studies on Transport Policy

2022 "The benefits of action on implementing carbon taxation in Ireland (jointly with Muireann Lynch)", Journal of Environmental Planning and Management

2022 "The Distributional Impacts of Environmental Reforms on Private Transportation in Ireland", The Economic and Social Review

2022 "Are fuel poverty metrics fit for purpose? Evidence from Ireland? (jointly with Muireann Lynch) ", Sustainable Cities and Society

2021 "Fuel for poverty: A model for the relationship between income and fuel poverty", *Energy Policy*

2021 "The heterogeneous effects of carbon taxation in Ireland (jointly with Muireann Lynch)", Energy Policy

2020 "Initial incidence of carbon taxes and environmental liability. A vehicle ownership approach", Energy Policy

2020 "Floods, flood policies and changes in welfare and inequality: Evidence from Germany, $Ecological\ Economics$

2019 "'Access to and consumption of natural gas: Spatial and socio-demographic drivers", jointly with John Curtis and Gianluca Grilli, *Energy Policy*

2018 "Material Footprint of Households. The Case of Germany" (jointly with Frank Pothen), $Ecological\ Economics$

2018 "Household energy prices and inequality: Evidence from German microdata based on the EASI demand system" (jointly with Nikolas Wolfing), *Energy Economics*

2018 "Fuel for Inequality:Distributional Effects of Environmental Reforms for Private Transport" (jointly with Katrin Sommerfeld), Resource and Energy Economics

2017 "Economic Impacts of Renewable Energy Promotion in Germany" (jointly with Christoph Bohringer and Florian Landis), The Energy Journal

2013 "Capital-Energy Relationships: An Analysis When disaggregating by Industry and Different Types of Capital," (jointly with Emma Iglesias), *The Energy Journal*

2012 "The Structure of Energy Efficiency Investment in the UK Households and its Average Monetary and Environmental Savings," *Energy Policy*

2011 "An Integral Evaluation of Dieselisation Policies for Households' cars," Energy Policy

Chapters

2019 Road Transport and Its Potential Inclusion in the EU ETS (jointly with Martin Achtnicht, Kathrine von Graevenitz, Simon Koesler, Andreas Löschel, Beaumont Schoeman), published in The European Dimension of Germany's Energy Transition, Springer

Reports

2019 "Carbon taxation in Ireland: distributional effects of revenue recycling policies", This QEC Special Article, ESRI

2015 "Including Road Transport in the EU-ETS – An Alternative for the Future?" (jointly with Achtnicht, Martin, Kathrine von Graevenitz, Simon Koesler, Andreas Löschel, Beaumont Schoeman and Miguel Angel Tovar Reaños) Adam Opel AG, BMW AG, ZEW Mannheim

2012 "Scenarios for a Post-2020 European Climate Policy" (jointly with Oliver Schenker, Andreas Loschel)

2013 "An Overview on Current Climate Policies in the European Union and its Member States" (jointly with Florian Landis, Oliver Schenker, Christina Vonnahme and Sonja Zitzelsberger)

Grants

Sustainable Energy Authority of Ireland (SEAI): Identifying and overcoming societal barriers to sustainable energy adaptation , Identifying non-financial barriers to energy efficiency residential retrofits in low income households

The Environmental Protection Agency (EPA):

Designing a Green, Equitable and Socially Acceptable Subsidy Scheme, Green Tax Reform and Identifying everyday barriers to climate mitigation behaviour

Department of the Environment, Climate and Communications (DECC): Fuel poverty

Gas innovation fund 2022-012: An examination of the abatement potential of the supply and usage of biomethane

MaTax research found to develop a microsimulation model (starts: March2015)

Scholarship TELMEX for four years during my undergraduate studies

Languages

Spanish: Native speaker
English: Professional fluency
German: Intermediate level
French: Basic