

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
 - optimal environmental taxation
- Centre for European economic Reserch (ZEW), Germany* 2012-2018
Postdoctoral researcher at the department of environmental economics
- Big data at Goethe-Universität Frankfurt*
Guest researcher at the department of informatics working on a health-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
- Making forecast of energy demand for the transport sector and model developing using numerical models

Teaching experience

- 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* 2001–2002
Teaching Econometrics

Preparatoria Official No. 81, Edo de Mex 2002–2004
• Teaching mathematics

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

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*

Working papers

2017 “Distributional effects of supporting policies for mitigation and insurance against flooding in Germany”

2017 “Using Machine Learning to estimate welfare effects of carbon taxes in the transport sector”

2019 “Distributional effects of carbon taxes in Ireland”

Reports

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)

Honors

- 9.9 (maximum is 10) final grade in undergraduate studies at the Instituto Politecnico de Mexico
- MaTax research found to develop a microsimulation model (starts: March2015)
- Candidate for the National System of Researchers Mexico (SNI-CONACYT)
- Mexican Council of Science and Technology scholarship for PhD studies
- Beca TELMEX for four years during my undergraduate studies

Languages

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